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Russia Compliance

API Guide for Synchronous, Asynchronous, and
REST Messages

tracelink
NETWORK FOR GREATER GOOD



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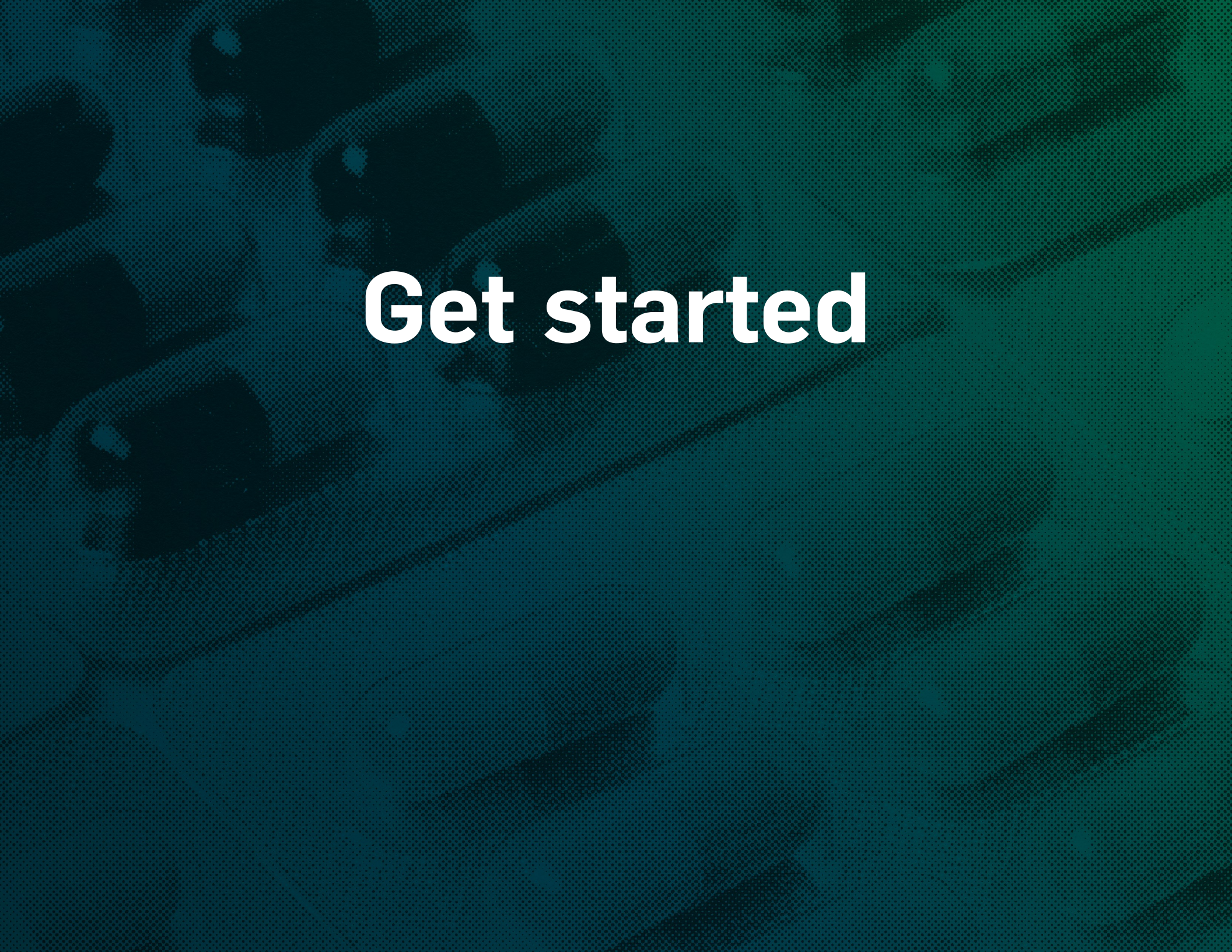
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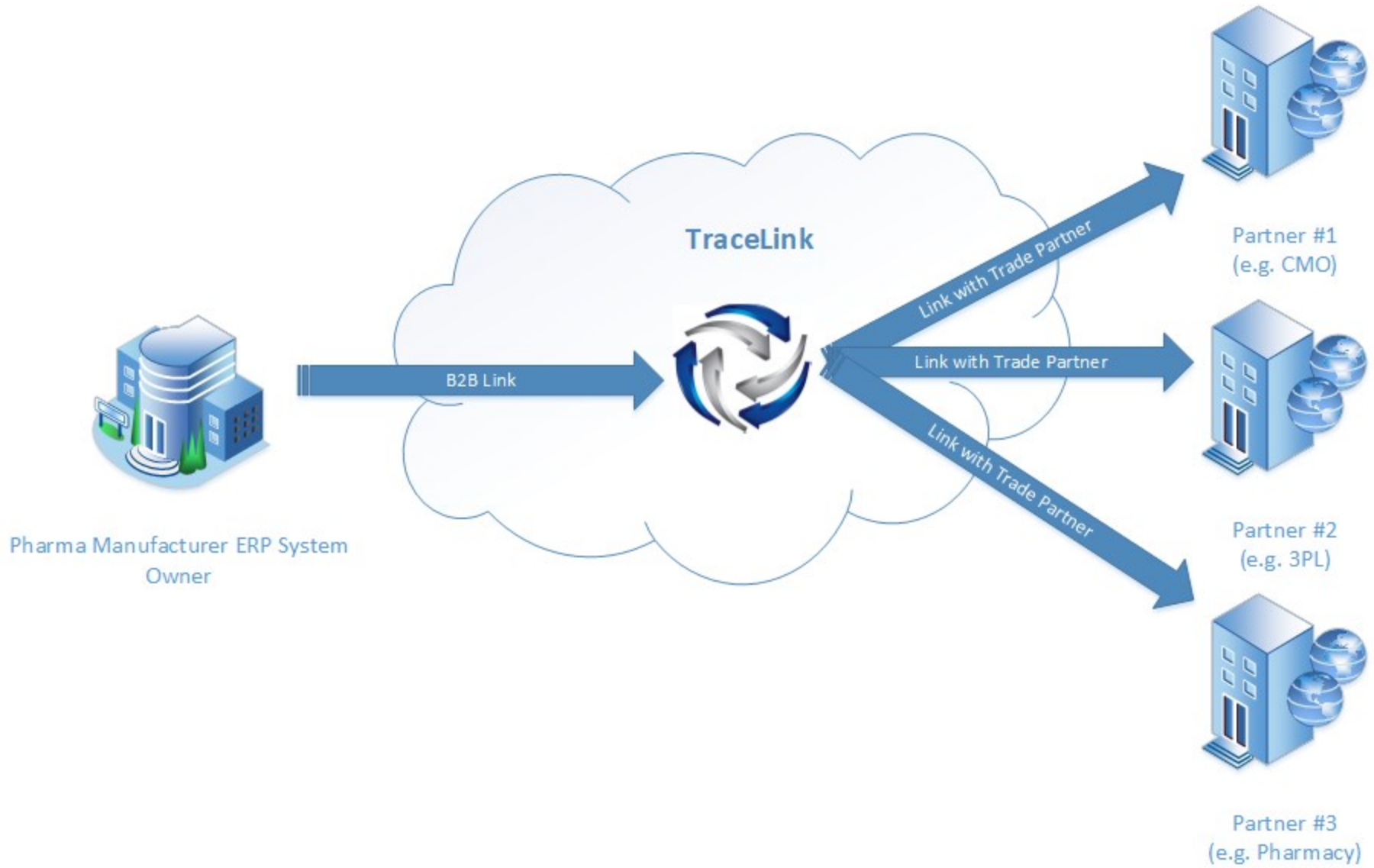


Get started

Intro to asynchronous messages

TraceLink accepts a variety of file formats to ensure that messages between TraceLink Owners and their Partners are exchanged seamlessly. After integration is set up, when the Owner sends a message into TraceLink (targeted for a Partner) from their enterprise system, the message is sent in the Owner's preferred format. The message is translated (and stored) within TraceLink and is then reformatted into an outbound message for the Partner their preferred file format.

⚠ File size limit is 300mb for asynchronous messages sent inbound to TraceLink.



Message Type and Info Exchange display name

The relevant Message Type (e.g. SOM_DESTROY_EVENT) and Info Exchange Display Name (e.g. Destroy Event) are included above each *Guidelines Table*. The Message Type is used when setting up B2B connections. Use the Info Exchange Display Name in Info Exchange to monitor and troubleshoot messages exchanged with Partners. See the *Info Exchange Online Help* for additional information.

How the Message Type is used depends on the type of B2B connection:

- AS2: The Message Type is in the AS2 header (e.g. SOM_DESTROY_EVENT).
- HTTP Post: The Message Type is part of the URL (e.g. https://prodb2b.tracelink.com:5443/server?request=send&directory=inbox/SOM_DESTROY_EVENT&filename=<filename>).
- SSTP: The Message Type is the folder in which the message is saved.

In Info Exchange Profiles, the Message Type is included in the "transaction" column of the Transactional Maps CSV file.

Error messages

When configuring asynchronous messages, various errors may be encountered. These errors point to issues with message file validation, data configuration, duplicate files, adapter issues, authorization failures, or database look-up failures (such as look-ups for missing product master data attributes triggered by a look-up code in the file).

Where are errors found in the UI?

Errors are found in the TraceLink UI in the *Info Exchange* app. Filter errors by error type under the *Processing Status* drop-down option. To display the actual error, select the hyperlinked error type associated with the designated message (see the image below for an example).

	Date - Time	Processing Code Review Status	Output File Name	Output File Format	Actions
	28 Dec 2015 - 03:49 PM	Map in Failed --	--	--	--

	Date - Time	Processing Code Review Status	Output File Name	Output File Format	Actions
	22 Dec 2015 - 02:10 PM	Processing Failed --	--	--	--
	08 Sep 2016 - 05:00 PM	Needs Investigation --	--	--	--
	30 Apr 2014 - 08:04 PM	Map Out Failed --	--	--	--
	24 Mar 2024 - 12:47 PM	Delivery Failed --	PickShipASN1490359607588.73875FIfH.738750bw4.73875nxTz	X12	--

What do the errors look like and how are they interpreted?

❗ The example below reflects a "Map In" error type with errors identified in both the "Input" and "Output" (see *Scope*).

The following information is useful for interpreting errors:

1. The *Scope* (indicated in red below) identifies whether the error is in the input or output.
2. The error message is defined by the *Description* (indicated in yellow below). This provides some context as to why the error occurred. The *Detail* fields may also prove useful when troubleshooting errors in submitted data.
3. Depending on the type of error, the *InputAddress*, *OutputAddress*, *InterfacePath*, and/or *Value* information identifies the full path to the field and instance of that field that triggered the error to assist with troubleshooting.

The following error examples illustrate what an error may look like in the TraceLink application:

MapInput:

ERRORS

ID: Input_Presentation_Mismatch

Severity: Error

Category: Input_Data_Error

Description: Cannot parse input data according to the presentation.

Scope: Input

Detail[Input Path]: SNXDispositionAssignedMessage | MessageBody | choice_1[0] | CommissionEvent | CommissionEventDetail[0] | EventDateTime

Detail[Input Data]: 2015-04621T08:18:00.140Z

Detail[Type]: DateTime - General Characters & XML Schema

Detail[Presentation]: YYYY-MM-DDThh:mm:ss[.sss][-hh:mm] - 2003-06-15T13:20:00.000-05:00

Detail[Error Name]: Presentation_Mismatch

InputAddress

InterfacePath: SNXDispositionAssignedMessage | MessageBody | choice_1[0] | CommissionEvent | CommissionEventDetail[0] | EventDateTime

XPath:

ParentElement: false

Value: /SNXDispositionAssignedMessage/MessageBody[1]/snx:CommissionEvent[1]/snx:CommissionEventDetail[1]/cmn:EventDateTime[1]/EventDateTime

OutputAddress

XPath:

ParentElement: false

Value: /can:CanonicalSNXDispositionAssignedEventType/can:MessageBody[1]/can:CommissionEvent[1]/can:CommissionEventDetail[1]/cmn:EventDateTime[1]

ID: Empty_Tag_Creation_For_Output_Field

Severity: Error

Category: Output_Data_Error

Description: An empty tag was created for a target field, but an empty tag is not valid data for the field.

Scope: Output

Detail[Output Path]: CanonicalSNXDispositionAssignedEventType | MessageBody | choice_1[*] | CommissionEvent | CommissionEventDetail[*] | EventDateTime

Detail[Minimum Target Iteration Count]: 1

Detail[Actual Iteration Count]: 0

OutputAddress

InterfacePath: 1

XPath:

ParentElement: false

Value: /can:CanonicalSNXDispositionAssignedEventType/can:MessageBody[1]/can:CommissionEvent[1]/can:CommissionEventDetail[1]/cmn:EventDateTime[1]

What are the different error types?

The following provides a brief description of each TraceLink error type:

Map In Failed - Class 1 Errors

This is the first step in the validation process as a file is received by TraceLink. This error is most often caused when required data is either missing or incorrect. This failure indicates that the file was poorly structured (e.g. data elements are in an incorrect order) or contained other errors that prevented TraceLink from integrating and processing the file. These instances trigger schema validation errors. In short, this error indicates that an inbound message has failed data translation. Map In Failed and Map Out Failed may also point to system errors in the map call.

An inbound message is designed to convert an external party's data format to Tracelink's format. The external party sends data to Tracelink for data transformation, therefore Tracelink is the recipient of the data.

Processing Failed - Class 2 Errors

This is considered the second step in the validation process and generally where all of the business logic is found. This error indicates a failure at any point in a transformation document life cycle (e.g. transmission failure or back end code failure).

Map Out Failed

This step is when TraceLink maps the outbound data, converting it into the receiving party's preferred format. Sometimes the rules can vary based on the file format. This error indicates an outbound message has failed at some point in this data conversion process. Map In Failed and Map Out Failed can also point to system errors in the map call.

Blocked

A blocked error indicates a system blockage or processing failure.

Needs Investigation

This error indicates a processing error or message data translation failure. This error type requires investigation to determine the root of failure. Often, this error occurs when the system believes it is receiving a duplicate file.

① TraceLink does have the ability to push these errors through manually.

What are the different error classes?

There are three classes of errors that are pertinent to asynchronous integration:

Class 1 Errors

Class 1 errors are mapping validation errors. These errors fall under the "Map In" error type. This is where the data structure of the message is validated (e.g. where data type information or an element's required or optional requirement is validated. Map In errors are returned if there is an issue with this first validation step. For example, if a required field is omitted, a class 1 error results.

Class 2 Errors

Class 2 errors are data translation errors which can be found in the "Processing Failed" category of errors. A Processing Failed error type indicates that the map failed to translate to TraceLink's internal format and therefore cannot hit the back end API. Think of this second step as an "integrity check" against the submitted data. For example, if a serial number is submitted but is assigned to an incorrect product code, an error results. Another example is if a certain event (such as Commission) is submitted, but the serial number included in that event is unrecognized, an error results. The following are some class 2 error examples:

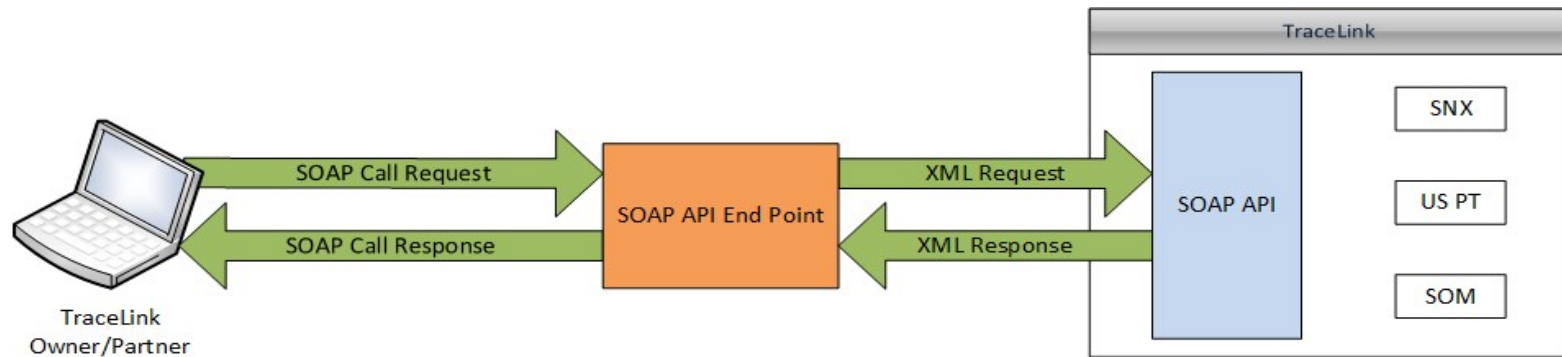
System Validation	Error
Serial Number does not exist.	Serial number [Serial Number] does not exist.
Serial Number is associated to a company or location that differs from the company or location shown in Show Data from.	Location [Location Name] was not valid for serial number [Serial Number].
Serial Number has a parent.	Operation could not be performed because serial number (child serial number) and serial number (container serial number) are currently in different states or the operation would result in them having different states. Parent and child serial numbers are not permitted to be in different states.
Serial Number cannot be updated from its current state to the new state.	Cannot perform operation on serial number [serial number] with item state/serial number state [item state/serial number state]. This operation can only be performed when: [List of item states separated by "or"].

Class 3 Errors

Class 3 errors occur when data translation to a third party (Trade Partner) fails due to an internal server error. Class 3 errors are rare, though they may still occur due to missing or incorrect information in the Master Data. The troubleshooting recommendation for Class 3 errors is to first check Master Data, make appropriate edits, and then resubmit the designated file. If Master Data is correctly configured, contact [Support](#) for further assistance.

Intro to SOAP messages

TraceLink communicates with certain operating systems or programs of choice through SOAP (XML-based messaging protocol) integration. As indicated in the diagram below, the TraceLink applications that use the SOAP API are *Serialized Operations Manager*, *Serial Number Exchange*, and *Product Track*.



For example, if an internal system needs serial numbers, the `SerialNumberRequest` SOAP call is sent from that internal system to TraceLink's SOAP API endpoint, which is the main request-response communication hub. The endpoint simply extracts the XML from the `SerialNumberRequest` call and passes it to the TraceLink platform (the *Serial Number Exchange* app, in this example). *Serial Number Exchange* waits for the XML response containing the requested serial numbers, sends the serial number data back through the endpoint where the SOAP response generates, and sends the response back to the original system. This response also confirms whether the operation is successful or if it fails.

ⓘ Development platform installation is required prior to integration.

Authentication

A valid TraceLink Network username and password for HTTP basic authentication validation is needed, as well as a user and app look-up to ensure proper validation of a given request.

⚠ To enforce strong security in the TraceLink Track & Trace Services, username:password in plain text is not accepted. To successfully send SOAP calls to TraceLink, Base64 encoding must be used for the username:password and sent in the HTTP Authorization header to conform with the IETF basic authorization standard (<https://tools.ietf.org/html/rfc7617>).

An HTTP 401 Unauthorized client error status response code occurs in the following scenarios:

- A non-Base64 encoded username:password is sent in the HTTP Authorization header.
- A Base64-encoded or plain text username:password is sent in the Username header.
- The Username header is sent.

App-specific authentication

- Serial Number Exchange requires basic authentication.
- Serialized Operations Manager requires basic authentication. TraceLink also allows the caller to pass a username (possibly a different username from the one used to authenticate), a location type, and location value for the purpose of executing a *Serialized Operations Manager* call. If these values are not provided, TraceLink executes the call at the company level.

Header	Usage	Sample Value	Required
User	Use to identify a user making the request (for Audit purposes).	User email or GUID. Example: snxpubco1-mem1@tracelink.com	No. Value defaults to user used in authentication (basic authentication).
LocationType	Use to identify location type executing the call.	SGLN	No. If excluded, call is made at the Company level.
LocationValue	Use to identify location value executing the call.	12345.678.10	No, unless LocationType is specified.

- Compliance Reporting requires basic authentication.

WSDL access

Access to the Web Services Description Language (WSDL), where the XSDs reside along with other functionality information, is needed for integration. The URL for the WSDL contains the name of the TraceLink environment being accessed, followed by a specified app path. The following are itest WSDL examples by application:

- *Serial Number Exchange*: <https://itestapi.tracelink.com/soap/snx/snrequest?wsdl>
- *Serialized Operations Manager*: <https://itestapi.tracelink.com/soap/som?wsdl>

ⓘ Ensure authentication success before attempting to access the WSDL.

SOAP API call limits

Before configuring data, query limitations should be noted. The table below outlines the query limitation details for TraceLink SOAP messages:

API Call	Limit	Description of Limit
Serial Number Exchange Messages		
serialNumberRequestResponse	500,000	The maximum quantity of serial numbers that can be requested is 500,000.
Serialized Operations Manager Messages		
Commission	50	The maximum amount of serial numbers that can be commissioned is 50.
Decommission	500	The maximum amount of serial numbers that can be decommissioned is 500.
GetSerialNumberHierarchy	100000	A maximum of 100,000 serial numbers can be returned with a GetSerialNumberHierarchy request.
SetSerialNumberStatus	500	The serial number status can be set for a maximum of 500 serial numbers.

Intro to REST messages

TraceLink communicates with certain operating systems and programs of choice through Representational State Transfer (REST) integration. If an internal system needs to query TraceLink for information, an API call is sent from that internal system to the TraceLink REST API endpoint, which is the main request-response communication hub. The TraceLink endpoint extracts the schema from the event call and passes it to the internal system.

Russia Compliance receives the response containing the requested details, routes the information back through the endpoint where the REST response generates, and sends the response back to the original system. This response also confirms whether or not the operation is successful.

HTTP response status codes

Russia Compliance presents standard response codes to indicate whether or not a specific HTTP request was successful. Response status codes may include, but are not limited to, the following:

Successful response

200	OK. The request was successful. For GET, this means that the resource has been fetched.

Redirect message

307	Temporary Redirect. The client must get the requested resource at another URI with the same HTTP method that was used in the prior request.

Client error status codes

400	Bad Request. The server could not understand the request due to invalid syntax.
401	Unauthorized. The client is unauthenticated, not allowed access, and should re-request credentials.
403	Forbidden. The request is valid and the client is authenticated, but the client is not allowed access rights to the content for any reason.

404	Not Found. The server cannot find the requested item. This can also mean that the endpoint is valid but the resource does not exist.

Server error status codes

Please contact Support if any of the following errors is encountered:

500	Internal Server Error. The server has encountered an unknown error.
502	Bad Gateway. The server is working as a gateway to handle the request and received an invalid response.
503	Service Unavailable. The server is not ready to handle the request.
504	Gateway Timeout. The server is acting as a gateway and cannot get a response in time.

How to use this guide

Read the guidelines table

The following columns are included in the guidelines table for each message. Some messages may not have every column.

- **Data Element** – This column indicates the source/element name included in the message.
- **Occurs** – This column indicates the minimum and maximum amount of times that the particular element may occur within the message. In the example above, the `cmn:FileDate` element must occur a minimum of once and may only occur up to once for the maximum occurrence as indicated by the "1...1". The "*" character indicates this is an unlimited maximum occurrence.
- **Format** – This column indicates the element's data format type (such as String, Integer, Boolean, Date, or Time).
- **Length** – This column indicates the length of the value for the given element. For the `cmn:FileDate` element above, the value must have at least one character, but does not have a maximum restriction (therefore can be any length). However, be mindful of the description column, as further criteria may be indicated that impacts the field length (e.g. serial number formatting).
- **Enums** – Certain fields are restricted to specified enumeration values. A link to the enumerations and their definitions is provided in this column. For example, `cmn:DeliveryNumber` | **@type** has *LocationId* enumeration values.
- **Req** – Each table indicates whether the element is required for the message. Use the key below to interpret the information in this column:
 - **C = Conditional:** A "C" indicates that this element is contingent on other factors. For example, an element could be required for the U.S. but not for any other country. Therefore the element's requirements are contingent on location. Another conditional scenario is that an element may be mandatory, but only if another related element is present.

ⓘ If indicated as "C", read the "Description" column as conditional values may actually be mandatory depending on use case.

- **M = Mandatory:** An "M" indicates the element must be included in the message.
- **O = Optional:** An "O" indicates that a element may be included in the message but is not required.
- **Description** – Any important notes regarding this section of the message are included here (country requirements, formatting notes, etc.) along with a brief description of the element.

⚠ The order of elements in a message must match the message guidelines

MDLP credential management

MDLP credential management APIs

Russia Compliance supports exportable and non-exportable certificates to digitally sign reports that are submitted to MDLP.

Owners who use exportable certificates can use the [credentials API](#).

If Owners who use non-exportable certificates choose to build their own app to digitally sign reports, they must integrate with the [Report retrieval APIs](#). Owners can also use the TraceLink-provided Russia Report Signature Appender app to digitally sign reports without any integration. See [Retrieve non-exportable certificates for domestic credentials](#) for more information.

Digital Certificate Upload (REST)

Digital Certificate Upload request

Authentication

Owners who choose to use exportable certificates for domestic MDLP credentials must use the Web UI and the [Digital Certificate Upload REST API](#). Administrators use the Web UI to configure the app and the REST API to upload digital certificates to a secure TraceLink server in Russia, which MDLP requires for domestic credentials.

An IT professional uses the following message to finish configuring exportable domestic credentials for MDLP by uploading a digital certificate to a secure TraceLink server in Russia, which MDLP requires for domestic credentials. The upload can be completed using a curl command on a computer with a UNIX or Windows 10 operating system.

A TraceLink Administrator must generate the ruconnectorToken (i.e. security token) for the message in the Administration [Web UI](#) when they enter the domestic credentials.



The security token is valid for 30 minutes after generation.

Use a **Post** curl command to the following URL:

- **itest** – <https://itest-upload.ru1.tracelink.com/api/credentials>
- **prod** – <https://upload.ru1.tracelink.com/api/credentials>

Include a **Content-Type** header key-value pair with a value of `multipart/form-data` in the curl command.

Guidelines

Data Element	Occurs Length	Type	Description
ruconnectorToken	1...1 1/36	String	Required. The TraceLink provided value when saving credentials for a domestic account. This token is valid for 30 minutes.
password	1...1 -	String	Required. The password for the digital signature.
file	1...1 -	String	Required. The location on the local computer where the digital signature is located. Include @ before the file name.

Example

```
1 | curl -i -X POST -H "Content-Type: multipart/form-data" -F "ruconnectorToken=0c382d0e-bcd7-4ed7-b502-a1210bb529f9" -F "password=pfx_password" -F "file=@credentials.pfx" https://itest-upload.ru1.tracelink.com/api/credentials
```

Errors

There are no errors for in this request. See the Digital Certificate Upload response for examples of a successful and failed response.

Digital Certificate Upload response

Guidelines

There are no elements in this response.

Example - Success

```
1 HTTP/1.1 100 Continue
2 HTTP/1.1 201 Created
3 Date: Wed, 26 Feb 2020 19:44:33 GMT
4 Content-Length: 0
```

Example - Failure

```
1 HTTP/1.1 100 Continue
2 HTTP/1.1 400 Bad Request
3 Date: Fri, 28 Feb 2020 14:49:20 GMT
4 Content-Type: text/plain
5 Content-Length: 30
6 Ru Connector Token has expired
```

Report retrieval APIs

Owners can build their own app to retrieve reports by using the following APIs in this order:

Tokens

Use this message to retrieve the token provided by TraceLink to use in the Tasks and Task Result APIs. The token is valid for 600 minutes i.e. 10 hours. The User ID and Password are provided when Administrators [configure Russia Compliance](#).

Authentication

Use a **POST** curl command to the following URL:

- **itest** – <https://itest-upload.ru1.tracelink.com/api/token>
- **prod** – <https://upload.ru1.tracelink.com/api/token>

Include a **Content-Type** header key-value pair with a value of `application/json` in the curl command.

Request guidelines

Data Element	Type	Description
userId	String	Required. The TraceLink-provided value when saving credentials for a domestic account using the Certificate Digest and Certificate ID.
password	String	Required. The TraceLink-provided value when saving credentials for a domestic account using the Certificate Digest and Certificate ID.

Request examples

Curl

```
1 curl --location "https://qe-upload.ru1.tracelink.com/api/token" ^
2 --header "Content-Type: application/json" ^
3 --data '{"userId":"m?Hw!8InPM%sd44K","password":"N(1^dQ6Q#( #xpj<I")'}
```

JSON

```
1 {
2   "userId": "i0lNgFiBQ9WurPil",
3   "password": "!SNUbBOAwR)Yizw="
4 }
```

Response guidelines

Data Element	Type	Description
token	String	The token that is obtained for a User ID and Password combination, and must be used in the Task and Task Result APIs.
lifeTime	String	The validity of the token in minutes. Default value is 600 minutes.
certThumbprint	String	The Thumbprint credentials that are configured for MDLP.
errorMessage	String	Displays an error message for a failed authentication.

Response example

Success

```

1  {
2    "token":
   "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJjb21wYW55SWQiOiIwZmI1Njk1Yi1kODJlLTRkMmQtODVmOC01NTZhMjFhZjIjNDkiLCJwYXNzd29yZCI6IiFTTnVCYk9Bd1IpW
   Wl6dz0iLCJsb2NhdGlvbklkIjoizGYxNmZjOTQ0YmZlNS00NmI0LTNmY2EtMjNiZmMzOTNjYWMyIiwiaXhwIjoxNzE4OTg0LCJ1c2VySWQiOiJpMGx0Z0ZpQ1E5V3VyUGlsIn
   0.-K661S6UNWJNUofbODziSotb0rYbAahzQjBLcuHgXbc",
3    "lifeTime": 600,
4    "certThumbprint": "cba7cccb875295fa94ab411fc2c614a95f94684"
5  }
```

Failure

```

1  {
2    "errorMessage": "Authentication failed. Please check your user ID and password, or ensure all required keys are provided."
3  }
```

Errors

Element	Error Message	Description
User ID	Authentication failed.	The error occurs if the user ID is incorrect.
	Authentication failed. Please check your user ID and password, or ensure all required keys are provided.	The error occurs if either user ID or password is not provided.
Password	Authentication failed.	The error occurs if the password is incorrect.
	Authentication failed. Please check your user ID and password, or ensure all required keys are provided.	The error occurs if either user ID or password is not provided.

Tasks

Use this message to retrieve up to 5 reports that require a signature. The reports must be signed and returned with the Task Result API while the token is still valid (i.e. within 600 minutes of retrieving the token).

Authorization

Use a **GET** curl command to the following URL:

- **itest** – `https://itest-upload.ru1.tracelink.com/api/tasks`
- **prod** – `https://upload.ru1.tracelink.com/api/tasks`

Include a **Content-Type** header key-value pair with a value of `application/json` in the curl command.

Include an authorization `token` header value with the token provided by TraceLink in the Token's response.

This request does not include any elements in the payload.

Request example

```
1 | curl --location "https://itest-upload.ru1.tracelink.com/api/tasks" ^
```



```

2 | --header ""Authorization":
  | "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJjb21wYW55SWQiOiIwZmI1Njk1Yi1kODJlLTRkMmQtODVmOC01NTZhMjFhZj1jNDkiLCJsb2NhZGlvbklkIjoimDAwMDAwMDAxMjE0MzUiLCJleHAiOiE3MjA3NDA4Mzd9.3TXEOR6B1AJd9hwMKU3y1Gy6OmSj_U_d_E0s2aYewBo""

```

Response guidelines

Data Element	Type	Description
taskList	String	Required. The Russia Compliance reports that require a signature. The signed reports must be returned with the Task Result request in the same order as they are provided in this response.
taskId	String	Unique identifier for each report.
signingTaskContentPreSignedUrl	String	Presigned URL of the request file that needs to be signed before submitting to the MDLP and responded with the <code>taskId</code> as primary identifier for the Task Result endpoint.
signatureType	String	The signature type for the report. Valid values: <code>Attached</code> - The signature is attached to the report. <code>Detached</code> - The signature is not attached to the report.
signingPayload	String	Token to be signed in case the <code>taskId</code> is <code>mdlp_token_request</code> or <code>oms_token_request</code> .
errorMessage	String	Displays if the token is invalid.
errorCode	String	Displays if the token is invalid.

Response example

```

1 | {
2 |   taskList: [
3 |     {
4 |       "taskId": "mdlp_token_request",
5 |       "signatureType": "DETACHED",

```

```
6      "signingPayload": "ff344de4-da5d-41e6-96db-e5b578ab85eb"
7    },
8    {
9      "taskId": "oms_token_request",
10     "signatureType": "DETACHED",
11     "signingPayload": "e7a0d24d-d50a-4d06-be8f-de2e5b2911c1"
12   },
13   {
14     "taskId": "1720103193_297942f6-8b41-46f4-b163-df6748a4fd57",
15     "signingTaskContentPreSignedUrl": "https://<aws_path>/russia-pharma-compliance/non-export-cert-signing-
documents/credentialId%3D0fb5695b-d82e-4d2d-85f8-556a21af9c49_00000000121435/reports-request/1720103193_297942f6-8b41-46f4-b163-
df6748a4fd57?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Date=20240704T142657Z&X-Amz-SignedHeaders=host&X-Amz-Expires=3599&X-Amz-
Credential=AKIAU7PFTQKSM3KZKXWJ%2F20240704%2Feu-central-1%2Fs3%2Faws4_request&X-Amz-
Signature=60c4f812379cc802d4183f7692650ee55ff50f8db692bec9d284e2c6b2cebfe4",
16     "signatureType": "DETACHED"
17   },
18   {
19     "taskId": "1720077318_075341e1-886f-4e7c-9f43-43d4aec71bd1",
20     "signatureType": "https://<aws_path>/russia-pharma-compliance/non-export-cert-signing-documents/credentialId%3D0fb5695b-d82e-4d2d-85f8-
556a21af9c49_00000000121435/reports-request/1720077318_075341e1-886f-4e7c-9f43-43d4aec71bd1?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-
Date=20240704T071904Z&X-Amz-SignedHeaders=host&X-Amz-Expires=3599&X-Amz-Credential=AKIAU7PFTQKSM3KZKXWJ%2F20240704%2Feu-central-
1%2Fs3%2Faws4_request&X-Amz-Signature=fe5f943d81c429bd64a213293c1698c391a30514b6063bf9f2e977a5f9442ff8",
21     "signatureType": "DETACHED"
22   }
23 ]
24 }
```

Errors

Element	Error Message	Description
Authorization	Authentication Failure.	The error occurs if the token provided in the header is invalid or expired.

Task Result

Use this message to return the signed reports to Russia Compliance. Each request can only contain one report at a time

Authorization

Use a **POST** curl command to the following URL:

- **itest** – <https://itest-upload.ru1.tracelink.com/api/taskResult>
- **prod** – <https://upload.ru1.tracelink.com/api/taskResult>

Include a **Content-Type** header key-value pair with a value of `application/json` in the curl command.

Include an authorization `token` header value with the token provided by TraceLink in the Token's response.

Request guidelines

Data Element	Type	Description
signedData	String	Required. The <code>signingPayload</code> or <code>signingTaskContentPreSignedUrl</code> from the Task response that identifies the report.
taskId	String	Required. The unique identifier of the report from the Task response.
status	String	Required. The status of the digital signature. Valid values: • <code>SUCCESS</code> - The report is signed successfully. • <code>ERROR</code> - The report could not be signed.
signingPayload	String	Optional. The <code>signingPayload</code> from the Task response that identifies the report.
errorCode	String	Required if the status is <code>ERROR</code> . Valid value is <code>INTERNAL_FAILURE</code> .
errorDescription	String	Required if the status is <code>ERROR</code> . The description of the error.

Request examples

```
1 | {
2 |   "signedData": "<signedValue>",
```

```
3  "taskId": "1720112492_b6ec24af-dbb4-4e75-ad0d-475d6625aa0b_2",
4  "status": "SUCCESS"
5  }
```

```
1  {
2  "signedData": "<signedValue>",
3  "signingPayload": "e7a0d24d-d50a-4d06-be8f-de2e5b2911c1",
4  "taskId": " oms_token_request",
5  "status": "SUCCESS"
6  }
```

Response guidelines

If the request is successful, there is no response payload. The following elements are only returned if an error occurs.

Data Element	Type	Description
errorMessage	String	The description of the error that occurred.
errorCode	String	The error code. Valid values: 101 - Authentication failure. 105 - The payload of the request exceeded the maximum 5KB limit.

Response example

```
1  {
2  "errorMessage": "Payload size exceeds the configured maximum limit (in KB): 5",
3  "errorCode": 105
}
```

4 | }

Errors

Element	Error Message	Description
Authorization	Authentication Failure	The error occurs if the token provided in the header is invalid or expired.
Request message size	Payload size exceeds the configured maximum limit (in KB): [5]	The error occurs if the payload size exceeds the configured maximum limit of 5 KB.

Serial number and crypto code management

Crypto code and serialization APIs

Use the following request and response messages to fetch a certain quantity of serial numbers in the appropriate format when serializing product on the packaging line. The request message specifies the information that is needed, and the response message returns the serial numbers and associated crypto codes, if applicable. The serial numbers can then be added to products on the packaging line.

Serial Number Exchange Request & Response (XML)

Serial Number Exchange Request

Guidelines

Message Type: SNX_REQUEST

Info Exchange Display Name: Serial Number Request

❗ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

Data Element			Occurs Length	Type	Description
snx:SNXRequestMessage			1...1 -	-	Required. Root element of message.
	snx:ControlFileHeader		1...1 -	-	Required. XML file control header record.
		cmn:FileSenderNumber	1...1 1/10	String	Required. File sender's company identifier (e.g. 7777776067344).
		cmn:FileReceiverNumber	1...1 1/10	String	Required. File recipient's company identifier (e.g. 8888884043588).

Data Element			Occurs Length	Type	Description
		cmn:FileControlNumber	1...1 1/*	String	Required. Unique file control ID number (e.g. 0000000001).
		cmn:FileDate	1...1 10/10	Date	Required. Date file generated in XML YYYY-MM-DD format (e.g. 2012-06-30).
		cmn:FileTime	1...1 8/8	Time	Required. Time file generated in XML HH:MM:SSZ format (e.g. 06:30:32Z).
		snx:MessageBody	1...1 -	-	Required. XML file control header record.
		cmn:RequestId	1...1 1/*	String	Required. Unique identifier for the serial number request. This is used to link the serial number response from Serial Number Manager back to the originating serial number request (e.g. 20120630083253).
		cmn:PlantLocationId	1...1 1/34	String	Required. The SGLN of the plant that is requesting the serial numbers. This is required by the Serial Number Manager application to track the plant that commissioned the serial numbers. SGLN format is the decimal separated numeric component only, with the urn prefix stripped away (e.g. <company prefix>.<location reference>.<extension> 8888882.02867.0 instead of urn:epc:id:sgln:8888882.02867.0 typically found in EPCIS events).
		cmn:ReferenceDocuments	0...1 -	-	References specific manufacturing orders associated with the serial number request. Indicates that the requested serial numbers will be used for the referenced manufacturing orders.
		cmn:PONumber	1...1 1/20	String	Required. Purchase Order (PO) number associated with serial number request (e.g. 1001764).
		cmn:POLine	1...1 1/5	String	Required. PO line number associated with serial number request (e.g. 001).
		cmn:WorkOrderNumber	0...1 1/20	String	Work Order number associated with serial number request (e.g. 1001764-00).
		cmn:NumberEncoding	1...1 0/*	String	Required. Encoding format for the type of serial numbers that are being requested from the enumeration list. Number encoding is tied to one of the three choice elements below. A specific number encoding is tied to a specific choice data element (e.g. AI(01)+AI(21)). The rule is: - If NumberEncoding = AI(01)+AI(21), SGTIN-96, or SGTIN-198 - Either ObjectIdentifier/GTIN-14 or ObjectIdentifier/NTINObjectKey must be populated.

Data Element					Occurs Length	Type	Description
							- If NumberEncoding = AI(00) or SSCC-96 - ObjectIdentifier/CompanyPrefixObjectKey must be populated. - If NumberEncoding = CN-EDMC - ObjectIdentifier/CN-SubTypeObjectKey must be populated. - All other encodings (AI(8003), GRAI-96, GRAI-170) - Either GTIN-14 or CompanyPrefixObjectKey must be populated. See the Encoding enumeration list for valid values.
			cmn:ObjectIdentifier		1...1 -	Choice	Conditionally required to populate with one of the three choice options. The identifier associated with the NumberEncoding for the serial numbers being requested. Only one of the three element options below can be populated: CompanyPrefixObjectKey CN-SubtypeObjectKey GTIN14
			cmn:CompanyPrefixObjectKey		0...1 1/*	String	Conditionally required if NumberEncoding is for SSCC numbers. The company prefix assigned by GS1 for the required SSCC numbers (e.g. 0388882). Values: AI(01)+AI(21) GRAI-96 GRAI-170 OR AI(8003) SGTIN-96 SGTIN-198
			@filterValue		1...1 -	String	Required. The Filter Value for the packaging level of the SSCC number that is being requested to indicate if the SSCC is for a pallet, mixed case, etc. See the FilterValue enumeration list for valid values.
			cmn:GTIN-14		0...1 14/14	String	The GTIN-14 for the required SGTIN and AI(01)+AI(21) serial numbers. The GTIN-14 also informs the logistical unit. Used only when NumberEncoding is for SGTIN and AI(01)+AI(21) (e.g. 0888882020006).
			cmn:NTINObjectKey		1...1 0/*	String	Conditionally required if NumberEncoding is for SGTIN and AI(01)+AI(21). The NTIN for the required SGTIN and AI(01)+AI(21) serial numbers (e.g. 70244882930006).

Data Element			Occurs Length	Type	Description
		cmn:Quantity	1..1 1/*	Integer	Required. Quantity of serial numbers requested (e.g. 100000).

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<snx:SNXRequestMessage xmlns:snx="urn:tracelink:mapper:sl:serial_number_exchange"
  xmlns:cmn="urn:tracelink:mapper:sl:commontypes"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <snx:ControlFileHeader>
    <cmn:FileSenderNumber>7777776067344</cmn:FileSenderNumber>
    <cmn:FileReceiverNumber>8888884043588</cmn:FileReceiverNumber>
    <cmn:FileControlNumber>0000000001</cmn:FileControlNumber>
    <cmn:FileDate>2012-06-30</cmn:FileDate>
    <cmn:FileTime>06:30:32Z</cmn:FileTime>
  </snx:ControlFileHeader>
  <snx:MessageBody>
    <cmn:RequestId>20120630083253</cmn:RequestId>
    <cmn:PlantLocationId>8888882.02867.0</cmn:PlantLocationId>
    <cmn:ReferenceDocuments>
      <cmn:PONumber>1001764</cmn:PONumber>
      <cmn:POLine>001</cmn:POLine>
      <cmn:WorkOrderNumber>1001764-00</cmn:WorkOrderNumber>
    </cmn:ReferenceDocuments>
    <cmn:NumberEncoding>AI (01) +AI (21) </cmn:NumberEncoding>
    <cmn:ObjectIdentifier>
      <cmn:GTIN-14>80388882930006</cmn:GTIN-14>
    </cmn:ObjectIdentifier>
    <cmn:Quantity>10</cmn:Quantity>
  </snx:MessageBody>
</snx:SNXRequestMessage>
```


Errors

Data Element	Error Message	Description
Class 1		
cmn:PlantLocationId	PlantLocationId is required !!!	The error occurs if the source is empty or null.
cmn:PONumber	PONumber is required !!!	The error occurs if the source is empty or null.
cmn:POLine	POLine is required !!!	The error occurs if the source is empty or null.
cmn:NumberEncoding	Field NumberEncoding must be populated !!!	The error occurs if the source is empty or null.
cmn:ObjectIdentifier	Only one choice element may be populated: CompanyPrefixObjectKey or GTIN-14, CNSubtypeObjectKey, NTINObjectKey !!!	The error occurs if the source is empty or null.
	Source GTIN-14 or NTINObjectKey must be populated if source NumberEncoding = AI(01)+AI(21) OR SGTIN-96 OR SGTIN-198 !!!	The error occurs if NumberEncoding = AI(01)+AI(21), SGTIN-96, or SGTIN-198, and both GTIN-14 and NTINObjectKey are empty or null.
	Source CompanyPrefixObjectKey must be populated if source NumberEncoding = AI(00) OR SSCC-96 !!!	The error occurs if NumberEncoding = AI(00) or SSCC-96, and CompanyPrefixObjectKey is empty or null.
	Source China encoded number type must be present if source NumberEncoding = CN-EDMC !!!	The error occurs if NumberEncoding = CN-EDMC, and CN-SubType is empty or null.
	Either source CompanyPrefixObjectKey or GTIN-14 may be populated !!!	The error occurs if both, or neither, of ObjectIdentifier GTIN-14 and ObjectIdentifier CompanyPrefixObjectKey are populated.
@filterValue	Source Attribute filterValue must be populated !!!	The error occurs if the source is empty or null.
@codeLevel	Source Attribute codeLevel must be populated !!!	The error occurs if the source is empty or null.
cmn:Quantity	Field Quantity must be populated !!!	The error occurs if the source is empty or null.
Class 2		
-	-	-
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

Serial Number Exchange Response

Guidelines

This message uses the Park and Retry functionality. If a prerequisite condition for this message has not been met, TraceLink stops processing the task, returns the task to the queue, and then tries to process the task again every 15 minutes for up to 2 hours.

Message Type: SNX_RESPONSE

Info Exchange Display Name: Serial Number Response

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

Data Element			Occurs Length	Type	Description
snx:SNXResponseMessage			1...1 -	-	Required. Root element of message.
	snx:ControlFileHeader		1...1 -	-	Required. XML file control header record.
		cmn:FileSenderNumber	1...1 1/10	String	Required. File sender's company identifier.
		cmn:FileReceiverNumber	1...1 1/10	String	Required. File recipient's company identifier.
		cmn:FileControlNumber	1...1 1/*	String	Required. Unique file control ID number.
		cmn:FileDate	1...1 10/10	Date	Required. Date file generated in XML YYYY-MM-DD format.
		cmn:FileTime	1...1 8/8	Time	Required. Time file generated in XML HH:MM:SSZ format.
	snx:MessageBody		1...1	-	Required. XML file control header record.

Data Element			Occurs Length	Type	Description
			-		
		cmn:RequestId	1...1 1/20	String	Required. Unique identifier for the serial number request. This is used to link the serial number response from SNM back to the originating serial number request (e.g. 20120630083253).
		cmn:ReferenceDocuments	0...1 -	-	References specific manufacturing orders associated with the serial number request. Indicates if the requested serial numbers will be used for the referenced manufacturing orders.
		cmn:PONumber	1...1 0/*	String	Required. Purchase Order (PO) number associated with serial number request (e.g. 1001764).
		cmn:POLine	1...1 0/*	String	Required. PO line number associated with serial number request (e.g. 001).
		cmn:WorkOrderNumber	0...1 0/*	String	Work Order number associated with serial number request (e.g. 1001764-00).
		cmn:ReferenceIdentifier	0...1 0/*	String	Other referenced document identifier number.
		cmn:NumberEncoding	1...1 0/*	String	Required. Encoding format for the type of serial numbers that were requested from the enumeration list. Number encoding is tied to one of the three choice elements below. A specific number encoding is tied to a specific choice data element. The rule is:(e.g. AI(01)+AI(21)). - If NumberEncoding = AI(01)+AI(21), SGTIN-96, or SGTIN-198 - Either ObjectIdentifier/GTIN-14 or ObjectIdentifier/NTINObjectKey must be populated. - If NumberEncoding = AI(00) or SSCC-96 - ObjectIdentifier/CompanyPrefixObjectKey must be populated - If NumberEncoding = CN-EDMC - ObjectIdentifier/CN-SubTypeObjectKey must be populated. - All other encodings (AI(8003), GRAI-96, or GRAI-170) - Either GTIN-14 or CompanyPrefixObjectKey must be populated. See the Encoding enumeration list for valid values.
		cmn:ObjectIdentifier	1...1 -	Choice	Required. The identifier associated with the NumberEncoding for the serial numbers that were requested. This is a choice element. Only one of the four element options below may be populated: CompanyPrefixObjectKey

Data Element				Occurs Length	Type	Description
						- GTIN-14 - NTINObjectKey <i>i</i> If all or none of the option fields are populated, an error is returned. See the rule in the cell above concerning number encoding options and population fields within this choice element.
			cmn:CompanyPrefixObjectKey	0...1 0/*	String	The company prefix assigned by GS1 for the required SSCC numbers. Used only if NumberEncoding was for SSCC numbers (e.g. 0388882). Values: - AI(00) - SSCC
			@filterValue	1...1 0/*	String	Required. The Filter Value for the packaging level of the SSCC number that was requested to indicate if the SSCC is for a pallet, mixed case, etc. This should be an integer with a value from 0 to 7 (e.g. 0). See the FilterValue enumeration list for valid values.
			cmn:GTIN-14	0...1 1/14	String	Conditionally required if CompanyPrefixObjectKey or NTINObjectKey are not populated. The GTIN-14 for the required SGTIN. The GTIN-14 also informs the logistical unit. Values:(e.g. 80388882930006). - AI(00) - AI(8003) - GRAI-96 - GRAI-170 - SSCC-96
			cmn:NTINObjectKey	0...1 0/*	String	Conditionally required if NumberEncoding was for SGTIN and AI(01)+AI(21). The NTIN for the required SGTIN and AI(01)+AI(21) serial numbers (e.g. 70244882930006).
			cmn:Quantity	1...1 1/*	Integer	Required. Quantity of serial numbers requested (e.g. 100000).
			@choice	1...1 -	Choice	Required. Choice group with the response to a serial number request. Returns either a serial number range, serial number list, or an error message if the request was denied. Only one of the following three elements can be populated: - ErrorMessage - SerialNumberList - SerialNumberRange

Data Element					Occurs Length	Type	Description
		cmn:SerialNumberRange			0...1 -	-	Serial number range if a range of serial numbers is returned in the response.
			cmn:StartingNumber		1...1 1/*	String	Required. Serial number range starting value (e.g. 018038888293000621100570239041). This element returns serial numbers in their fully formed format: - AI (01) (21) formatted numbers for SGTINs are populated in the fields fully formed as "018038888293000621100000000001" with the "01" and "21" values present. - AI (00) formatted numbers for SSCCs are populated in the fields fully formed as "00003888820001000011" with the "00" value present.
			cmn:EndingNumber		1...1 1/*	String	Required. Serial number range ending value (e.g. 018038888293000621100570239049). This element returns serial numbers in their fully formed format: - AI (01) (21) formatted numbers for SGTINs are populated in the fields fully formed as "018038888293000621100000000001" with the "01" and "21" values present. - AI (00) formatted numbers for SSCCs are populated in the fields fully formed as "00003888820001000011" with the "00" value present.
		cmn:SerialNumberList			0...1 -	-	Serial number list response returned from the serial number manager.
			@isRandom		0...1 -	Boolean	Specifies if returned serial numbers are sequential or random. Optional attribute of the SerialNumber element. If set to true, the list of serial numbers is random and is a sequentially numbered list (e.g. true).
			cmn:SerialNumber		1...* 1/*	String	Required. Serial number in a list of serial numbers (e.g. 018038888293000621100570239041). This element returns serial numbers in their fully formed format: - AI (01) (21) formatted numbers for SGTINs are populated in the fields fully formed as "018038888293000621100000000001" with the "01" and "21" values present. - AI (00) formatted numbers for SSCCs are populated in the fields fully formed as "00003888820001000011" with the "00" value present.  SGTINs are mandatory for Russia serial numbers.
			@cryptoKey		0...1 0/4	String	Conditionally required for Russia serial numbers. The crypto key value retrieved from the CRPT Order Management Station. This is an alphanumeric value. AI (91) denotes this value in the serial number (e.g. 911234).
			@cryptoCode		0...1	String	Conditionally required for Russia serial numbers. The crypto code value retrieved from the CRPT Order Management Station. This value can contain alphanumeric values as well as symbols. AI (92) denotes this value in the serial

Data Element					Occurs Length	Type	Description
					0/44		number. The following are valid symbols:(e.g. 92AusibQLCfH2fbOoXL3yU77gRBOsnhdkljRGjZvl7gy0U). • ! • &quot; – (") • % • &amp; – (&) • &apos; – (') • * • + • - • . • / • _ • , • : • ; • = • &lt; – (<) • &gt; – (>) • ?  TraceLink escapes the following special XML characters before sending the Serial Number Exchange Response message: • &quot; – (") • &amp; – (&) • &apos; – (') • &lt; – (<) • &gt; – (>)
				cmn:ErrorMessage	0...1	-	Error response information returned by SNM when the serial number request is denied.

Data Element				Occurs Length	Type	Description
				-		
			cmn:ErrorCode	0...1 -	String	Error code returned by the SNM when the serial number request is denied (e.g. 100).
			cmn:ErrorDescription	1...1 -	String	Required. Error description returned by the SNM when the serial number request is denied (e.g. Invalid GTIN specified in request.).

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<snx:SNXResponseMessage xmlns:snx="urn:tracelink:mapper:sl:serial_number_exchange"
xmlns:cmn="urn:tracelink:mapper:sl:commontypes">
  <snx:ControlFileHeader>
    <cmn:FileSenderNumber>8888884043588</cmn:FileSenderNumber>
    <cmn:FileReceiverNumber>7777776067344</cmn:FileReceiverNumber>
    <cmn:FileControlNumber>D000000032</cmn:FileControlNumber>
    <cmn:FileDate>2012-06-30</cmn:FileDate>
    <cmn:FileTime>06:32:32Z</cmn:FileTime>
  </snx:ControlFileHeader>
  <snx:MessageBody>
    <cmn:RequestId>20120630083253</cmn:RequestId>
    <cmn:ReferenceDocuments>
      <cmn:PONumber>1001764</cmn:PONumber>
      <cmn:POLine>001</cmn:POLine>
      <cmn:WorkOrderNumber>1001764-00</cmn:WorkOrderNumber>
    </cmn:ReferenceDocuments>
    <cmn:NumberEncoding>SGTIN-96</cmn:NumberEncoding>
    <cmn:ObjectIdentifier>
      <cmn:NTINObjectKey>80388882930006</cmn:NTINObjectKey>
    </cmn:ObjectIdentifier>
    <cmn:Quantity>10</cmn:Quantity>
    <cmn:SerialNumberList>
      <cmn:SerialNumber cryptoKey="911234"
cryptoCode="92Ausib&apos;LCfH2fbOoXL3yU77gRBOsnhdkl&lt;RGjZvl7g&gt;0&amp;">018038888293000621100570239041</cmn:Ser
ialNumber>
    </cmn:SerialNumberList>
  </snx:MessageBody>
</snx:SNXResponseMessage>
```

```
</snx:MessageBody>
</snx:SNXResponseMessage>
```

Errors

Data Element	Error Message	Description
Class 1		
cmn:PONumber	PONumber is required !!!	The error occurs if the source is empty or null.
cmn:POLine	POLine is required !!!	The error occurs if the source is empty or null.
cmn:NumberEncoding	Field NumberEncoding must be populated !!!	The error occurs if the source is empty or null.
cmn:ObjectIdentifier	Only one choice element may be populated: CompanyPrefixObjectKey or GTIN-14, CNSubtypeObjectKey, NTINObjectKey !!!	The error occurs if more than one element is populated.
	Source GTIN-14 or NTINObjectKey must be populated if source NumberEncoding = AI(01)+AI(21) OR SGTIN-96 OR SGTIN-198 !!!	The error occurs if NumberEncoding = AI(01)+AI(21), SGTIN-96, or SGTIN-198, and both GTIN-14 and NTINObjectKey are empty or null.
	Source CompanyPrefixObjectKey must be populated if source NumberEncoding = AI(00) OR SSCC-96 !!!	The error occurs if NumberEncoding = AI(00) or SSCC-96, and CompanyPrefixObjectKey is empty or null.
	Source China encoded number type must be present if source NumberEncoding = CN-EDMC !!!	The error occurs if NumberEncoding = CN-EDMC, and CN-SubType is empty or null.
	Either source CompanyPrefixObjectKey or GTIN-14 may be populated !!!	The error occurs if both, or neither, of ObjectIdentifier GTIN-14 and ObjectIdentifier CompanyPrefixObjectKey are populated.
cmn:CompanyPrefixObjectKey @filterValue	Source Attribute filterValue must be populated !!!	The error occurs if the source is empty or null.
@codeLevel	Source Attribute codeLevel must be populated !!!	The error occurs if the source is empty or null.
cmn:Quantity	Quantity must be populated !!!	The error occurs if the source is empty or null.
@choice	Only one choice element may be populated: SerialNumberRange or SerialNumberList or ErrorMessage !!!	The error occurs if more than one element is populated.
Class 2		
-	-	-
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

Serial Number Exchange Request & Response (SAP ATTP)

Serial Number Exchange Request

Guidelines

Message Type: SNX_REQUEST

Info Exchange Display Name: Serial Number Request

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

Data Element			Occurs Length	Type	Description
n1:SNR_REQ_ASYNC_IN			1...1 -	-	Required. Root data element.
	IB_ONLY_EXACT		0...1 0/1	String	Some consumer services cannot handle partial responded serial number requests (internal SAP ATTP buffer does have enough numbers. The request can only be responded partial). This parameter controls whether partial responses are allowed. "X": The parameter is set to true. Full quantity of the numbers or nothing. "": The parameter is blank. Partial quantity is allowed.
	IS_SSCC		0...1 -	-	Conditionally required for SSCC requests. SSCC Information.
		GCP	1...1 0/12	String	Required. The Global company prefix that is assigned to the business partner in the system (e.g. 4298382). This Request Id is required by TraceLink. TraceLink uses this value in the Serial Number Response message to link the request and the response.
		EXT_DIGIT	1...1 0/1	String	Required. In SAP ATTP, the SSCC Extension Digit is the first digit of the serial number (e.g. 2).
	IS_TRADE_ITEM		0...1 -	-	Conditionally required for GTIN requests. SGTIN Information.

Data Element		Occurs Length	Type	Description
	TRADE_ITEM_TYPE	1...1 0/10	String	Required. This parameter defines trade item type. Value = GTIN (e.g. GTIN).
	TRADE_ITEM_ID	1...1 0/40	String	Required. Depends on TRADE_ITEM_TYPE value (e.g. 14298382900015). The GTIN-14 for the required SGTIN and AI(01)+AI(21) serial numbers. The GTIN-14 also informs the logistical unit. Use only when NumberEncoding is for SGTIN and AI(01)+AI(21).
	IV_LIST_RANGE	1...1 0/1	String	Required. Defines the type of the serial number response. Values: (e.g. L) R – The response contains a range. L – The response contains a list. (Default)
	IV_READILY_ENCODE	1...1 0/1	String	Required. In addition to the numbers or range, the request also optionally provides readily encoded data in either a GS1 element string or in EPC URI: 1: Encoding in GS1 Element format. <i>i</i> The Serial Number Exchange Response (SAP ATTP) message includes Russia crypto codes if enabled in the serial number template. 2: Encoding in EPC URI format.
	IV_SIZE	1...1 1/*	Integer	Required. Quantity of serial numbers within range request (e.g. 1000).
	IV_SYSTEM	1...1 0/60	String	Required. The system name that has been created for the caller in SAP Advanced Track and Trace for Pharmaceuticals (e.g. 5060173540005 TRACELINK). <i>i</i> TraceLink uses this field to store the Sender and Receiver information separated by a pipe () character.

Example

TraceLink does not provide examples for third-party message format. Please contact SAP for message examples pertaining to this message.

Errors

Data Element	Error Message	Description
Class 1		
GCP	Either GCP or TRADE_ITEM_TYPE must be populated, but not both !!!	The error occurs if both GCP and TRADE_ITEM_TYPE are populated.
TRADE_ITEM_TYPE	Either GCP or TRADE_ITEM_TYPE must be populated, but not both !!!	The error occurs if both GCP and TRADE_ITEM_TYPE are populated.
TRADE_ITEM_ID	TRADE_ITEM_ID is required if TRADE_ITEM_TYPE GTIN is present !!!	The error occurs if TRADE_ITEM_TYPE equals "GTIN", but the source is empty or null.
Class 2		
GCP	GCP occurs fewer times than its minimum number of occurrences !!!	The error occurs if both GCP or TRADE_ITEM_TYPE are empty or null.
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

Serial Number Exchange Response

Guidelines

Message Type: SNX_RESPONSE

Info Exchange Display Name: Serial Number Response

 When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

Data Element	Occurs Length	Type	Description
n1:SNR_REQ_ASYNC_OUT	1...1 -	-	Required. Root data element.

Data Element		Occurs Length	Type	Description
IB_ONLY_EXACT		0...1 0/1	String	Some consumer services cannot handle partial responded serial number requests (internal SAP ATTP buffer does have enough numbers. The request can only be responded partial). This parameter controls whether partial responses are allowed. Values: X – The parameter is set to true. Full quantity of the numbers or nothing. " " – The parameter is blank. Partial quantity is allowed.
IS_RANGE		1...1 -	-	Contains serial number ranges for a range request. In case of a list request, it will be empty.
	NUMBER_FROM	1...1 0/40	String	Required. Lower limit of the range (e.g. 012030001123498721123456789012).
	NUMBER_TO	1...1 0/40	String	Required. Upper limit of the range (e.g. 012030001123498721333456799012).
	TIME_REQ	1...1 0/40	Date	Required. Timestamp of the range request (e.g. 20110815063032).
IS_SSCC		0...1 -	-	Conditionally required for SSCC requests. SSCC Information.
	GCP	1...1 0/12	String	Required. The Global company prefix that is assigned to the business partner in the system. Returns request parameters (e.g. 030001).
	EXT_DIGIT	1...1 0/1	String	In SAP ATTP, the SSCC Extension Digit is the first digit of the serial number (e.g. 2).
IS_TRADE_ITEM		0...1 -	-	Conditionally required for GTIN requests. SGTIN Information.
	TRADE_ITEM_TYPE	1...1 0/10	String	Required. This parameter defines trade item type (e.g. GTIN). Value = GTIN .
	TRADE_ITEM_ID	1...1 0/40	String	Required. Filled with a GTIN (e.g. 20300011234987).
IT_SERIALS		1...1 -	-	Contains list of serial numbers in case of list request. It is empty in case of range request.
	item	0...*	-	Required.

Data Element				Occurs Length	Type	Description
				-		
			NUMBER	1...1 0/40	String	Required. Contains list of serial numbers (e.g. 012030001123498721123456789012).
		IT_ENCODED		0...1 -	-	Conditionally required for Russia serial numbers. Contains list of serial numbers with crypto keys and crypto codes retrieved from the CRPT Order Management Station.
		item		0...* -	-	Required. Group of serial numbers with their corresponding crypto key and crypto code.
			OBJ_CODE	1...1 0/*	String	Required. Contains encoded serial number including corresponding crypto key and crypto code. Must include both the crypto key and crypto code values. Format is AI(01)+(21)+(91)+(92), where (91) denotes the crypto key and (92) denotes the crypto code (e.g. (01)20300011234987(21)123456789012(91)1129(92)AusibQLCfH2fbOoXL3yU77gRBOsnhdKljRGjZvL7gy0Uu9E1l0x6S2RzaWbKSgl1RmYQnZyumM6ZWhx3ktKOCw==). Crypto key value is alphanumeric. Crypto code can contain alphanumeric values and symbols.
		IV_ACTION		1...1 0/1	String	Return parameter which indicates the level of completeness of the request. TraceLink sends a reject error code if request is rejected:(e.g. R). R – Request has been rejected.
		IV_LIST_RANGE		1...1 0/1	String	Defines the type of the serial number response. This can be a list or a range. Values:(e.g. L). R – The response contains a range. L – The response contains a list.
		IV_READYLY_ENCODE		1...1 0/1	String	In addition to the numbers or range the request optionally also provides back readily encoded data either in GS1 element string or in EPC URI: 1: Encoding in GS1 Element format. 2: Encoding in EPC URI format. TraceLink will not populate this element, so an empty tag will be sent.
		IV_SIZE		1...1 1/*	Integer	Required. Quantity of serial numbers within range request (e.g. 1000).
		IV_SYSTEM		1...1 0/60	String	Required. The system name that has been created for the caller in SAP Advanced Track and Trace for Pharmaceuticals (e.g. 5060173540005 TRACELINK). TraceLink uses this field to store the Sender and Receiver information separated by a pipe () character.

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<n1:SNR_REQ_ASYNC_OUT xmlns:n1="urn:sap-com:document:sap:rfc:functions">
```

```

<IS_RANGE>
  <NUMBER_FROM/>
  <NUMBER_TO/>
  <TIME_REQ>20120630063234</TIME_REQ>
</IS_RANGE>
<IS_TRADE_ITEM>
  <TRADE_ITEM_TYPE>GTIN</TRADE_ITEM_TYPE>
  <TRADE_ITEM_ID>20300011234987</TRADE_ITEM_ID>
</IS_TRADE_ITEM>
<IT_ENCODED>
  <item>
    <OBJ_CODE>(01)00882025030220(21)100000001020(91)2332
(92)AusibQLCfH2fbOoXL3yU77gRBOsnhdkljRGjZvl7gy0Uu9E1l0x6S2RzaWbKSgI1RmYQnZyumM6ZWhx3kt</OBJ_CODE>
  </item>
  <item>
    <OBJ_CODE>(01)00882025030220(21)100000001021(91)2332
(92)AusibQLCfH2fbOoXL3yU77gRBOsnhdkljRGjZvl7gy0Uu9E1l0x6S2RzaWbKSgI1RmYQnZyumM6ZWhx3kt</OBJ_CODE>
  </item>
</IT_ENCODED>
<IT_RETURN/>
<IT_SERIALS>
  <item>
    <NUMBER>(01)00882025030220(21)100000001020</NUMBER>
  </item>
  <item>
    <NUMBER>(01)00882025030220(21)100000001021</NUMBER>
  </item>
</IT_SERIALS>
<IV_ACTION/>
<IV_LIST_RANGE>L</IV_LIST_RANGE>
<IV_READYLY_ENCODE/>
<IV_SIZE>10</IV_SIZE>
<IV_SYSTEM>8888884043588|7777776067344</IV_SYSTEM>
</n1:SNR_REQ_ASYNC_OUT>

```

Errors

Data Element	Error Message	Description
Class 1		
NUMBER_FROM	EndingNumber is required when StartingNumber is populated !!!	The error occurs if cmn:StartingNumber is present in the source and cmn:EndingNumber is missing.
NUMBER_TO	StartingNumber is required when EndingNumber is populated !!!	The error occurs if cmn:EndingNumber is present in the source and cmnStartingNumber is missing.
GCP	At least one of CompanyPrefixObjectKey or GTIN14ObjectKey must be present in source !!!	The error occurs if neither cmn:CompanyPrefixObjectKey and cmn:GTIN14ObjectKey are present in the source.
	Only one of CompanyPrefixObjectKey or GTIN14ObjectKey should be present in source !!!	The error occurs if both cmn:CompanyPrefixObjectKey and cmn:GTIN14ObjectKey are present in the source.
NUMBER	Only one choice element may be populated: SerialNumberRange or SerialNumberList or ErrorMessage !!!	The error occurs if more than one of the following elements are populated: NUMBER, IV_ACTION, or IV_LIST_RANGE.
	One of the choice elements SerialNumberRange or SerialNumberList or ErrorMessage must be populated !!!	The error occurs if more than one of the following elements are populated: NUMBER, IV_ACTION, or IV_LIST_RANGE.
OBJ_CODE	Both crypto key and crypto code are required to build an encoded serial number !!!	The error occurs if either the crypto key or crypto code is present in the source and the other value missing.
IV_ACTION	Only one choice element may be populated: SerialNumberRange or SerialNumberList or ErrorMessage !!!	The error occurs if more than one of the following elements are populated: NUMBER, IV_ACTION, or IV_LIST_RANGE.
	One of the choice elements SerialNumberRange or SerialNumberList or ErrorMessage must be populated !!!	The error occurs if more than one of the following elements are populated: NUMBER, IV_ACTION, or IV_LIST_RANGE.
IV_LIST_RANGE	Only one choice element may be populated: SerialNumberRange or SerialNumberList or ErrorMessage !!!	The error occurs if more than one of the following elements are populated: NUMBER, IV_ACTION, or IV_LIST_RANGE.
	One of the choice elements SerialNumberRange or SerialNumberList or ErrorMessage must be populated !!!	The error occurs if more than one of the following elements are populated: NUMBER, IV_ACTION, or IV_LIST_RANGE.
Class 2		
-		
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

Serial Number Request & Response (SOAP)

Serial Number Request

Guidelines

Data Element				Occurs Length	Type	Description
soapenv:Envelope				1...1 1/*	-	Required. Soap envelope.
	soapenv:Header			0...1 -	-	Not used by TraceLink, therefore the element can be null or omitted.
	soapenv:Body			1...1 -	-	Required. Soap message body.
		urn:serialNumbersRequest		1...1 -	-	Required. The Serial Number Request message payload.
			SendingSystem	0...1 1/*	String	Required. Identifier for site manager system requesting serial numbers. This value must match the configured value for the requesting system in the Serial Number Exchange configuration. This value is repeated in the response message as the ReceivingSystem (e.g. SYSTEM-100001).
			ReceivingSystem	0...1 1/*	String	Required. Identifier for target service that responds to serial number requests. This value must match the configured value for the service in the Serial Number Manager configuration. This value is repeated in the response message as the SendingSystem (e.g. 0060354701201).
			IdType	0...1 1/*	String	Specifies the type of serial numbers requested (e.g. GS1_SER CN_SER).
			EncodingType	0...1 1/*	String	Required. Specifies the encoding format for the type of serial numbers requested. SGTIN is used for both GTIN-14 and NTIN numbers (e.g. SGTIN SSCC CN_EDMC). See the Encoding enumeration list for valid values.
			Size	0...1	Int	Required. Specifies the quantity of serial numbers requested (e.g. 100000).

Data Element				Occurs Length	Type	Description
				-		
			ObjectKey	0...1 -	-	Required. The key for the associated object (that holds the identifier type and value) for which the serial numbers are being requested.
			Name	0...1 1/*	String	Required. Specifies the identifier type of the associated object for which serial numbers are being requested (e.g. GTIN).
			Value	0...1 1/*	String	Required. The corresponding identifier of the associated object for which serial numbers are being requested (e.g. the GTIN-14 identifier, NTIN 14-digit identifier, GS1 Company Prefix value, or China Subtype and attributes). If ObjectKey/Name requests an SSCC code using COMPANY_PREFIX, the format of the Value is as follows:(e.g. GTIN: 00882026030229). <Company Prefix> <Logistic Unit Indicator> The Logistic Unit Indicator to request an SSCC for a pallet or case must match the configured value in Serial Number Manager. If ObjectKey/Name requests a CN_EDMC code using CN_SUBTYPE_LEVEL_RATIO, the format of the Value is as follows: <CN-Subtype Code> <CN Code Level> <CN Package Ratio> The Code Level must be the configured code level value for the packaging hierarchy as configured in China Master Data that maps to a specific Resource Code. The PackageRatio is optional. If included, it must use the PackageRatio exactly as configured in China Master Data that maps to a specific Resource Code. It is used to disambiguate when there are serial numbers associated with multiple Resource Codes for the Code Level or Package Ratio for the Subtype. If it is omitted and there are multiple Resource codes for the same Code Level or Package Ratio, the system returns an error.
			RequestRandomizedNumbers	0...1 1/*	String	Not used by TraceLink, the element can be null or omitted.
			ReferenceDocuments	1...1 -	-	Indicates optional reference documents related to the request.
			PONumber	1...1 1/*	String	The Purchase Order (PO) number associated with serial number request (e.g. 10043).
			POLine	1...1 1/*	String	Conditionally required if PONumber is populated. The PO line number associated with serial number request (e.g. 1).
			WorkOrderNumber	0...1	String	The Work Order number associated with serial number request (e.g. 10043-001).

Data Element					Occurs Length	Type	Description
					1/*		
				Referenceld	0..1 1/*	String	The Reference Identifier associated with serial number request (e.g. 917902db-1307-4182-ad3d-29eca2d699ae).
			SyncRequest		0..1 1/*	Boolean	If requesting more than 100,000 serial numbers, it is recommended to set SyncRequest to "false" to enable asynchronous processing to avoid an error. Values: <code>true</code> - enables synchronous processing. <code>false</code> - enables asynchronous processing. (Default)

Example

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:urn="urn:tracelink:soap">
  <soapenv:Header/>
  <soapenv:Body>
    <urn:serialNumbersRequest>
      <SendingSystem>LineSys11</SendingSystem>
      <ReceivingSystem>0060354701201</ReceivingSystem>
      <IdType>GS1_SER</IdType>
      <EncodingType>SGTIN</EncodingType>
      <Size>10</Size>
      <ObjectKey>
        <Name>GTIN</Name>
        <Value>50882025010333</Value>
      </ObjectKey>
    </urn:serialNumbersRequest>
  </soapenv:Body>
</soapenv:Envelope>
```


Errors

Error Code	Error Messages
500	CN-Subtype identifier <CN-Subtype> is not in the permitted serial number request list.
500	Encoding type requested is not correct type for product <ObjectKey/Name> <ObjectKey/Value> and service <SNX Service Identifier>.
500	Filter value <FilterValue> or Company Prefix <CompanyPrefix ObjectKey> is not valid.
500	GTIN-14 identifier <GTIN-14> is not in the permitted serial number request list.
500	More than one Code Level found for <CN_SUBTYPE_LEVEL_RATIO>. PackagingRatio must be specified to disambiguate request.
500	NTIN identifier <NTIN Value> is not in the permitted serial number request list.
500	Product ID <ObjectKey/Name> <ObjectKey/Value> is not valid for products in service <SNX ServiceID>.
500	THROUGHPUT_EXCEEDED:Throughput has been exceeded. Please retry your message again. If this error continues, consider reducing the size of your operation or contact TraceLink support.
500	Quantity requested for <Object Identifier> exceeds the maximum quantity allowed: <Maximum Quantity for Serial Number Requests>.
500	Quantity requested for <Object Identifier> exceeds the maximum quantity allowed: 500000.
500	Request for too few serial numbers: quantity <quantity requested> must be greater than 0.
500	Serial Number Manager does not have serial numbers to satisfy the serial number request for <Object Identifier>. This template has serial numbers associated with a production order. The serial number request must include a PO Number, Work Order Number, or Reference Identifier to request numbers against the associated production order (e.g. This occurs when the template TraceLink attempts to look-up numbers against requires reference documents, however, the request did not include any.).
500	Serial Number Manager does not have serial numbers to satisfy the serial number request for <Object Identifier> with [PO Number <PONumber>] [and] [WorkOrder <WorkOrderNumber>] [and] [<Reference Identifier> <ReferencelIdentifierNumber>] (e.g. Error message should include only the combination of one or more identifiers that are provided in the request. Rejected if a serial number request is made against a template that is configured AutoReplenishment and SN Pools Tagged with Production Order Id and request does not contain a production order id (PONumber, WorkOrder and/or ReferencelIdentifier). If the Serial Number Exchange application that receives the SN Request is connected to a TraceLink Serial Number Manager application of the same application owner's, the system checks the Serial Number Manager Template for the ObjectIdentifier and if it is configured as AutoReplenishment, the system needs to check if the Pharmaceutical Manufacturer of the serial numbers is maintaining separate serial number pools for each production order and ensure that the serial numbers provisioned against a request are drawing from the correct production order pool.).
500	Unable to acquire lock on serial number space for <ObjectKey/Value>. Please try again.
500	Unable to find service from lookup id: <SNX ServiceID>.
500	When requesting China serial numbers and a non-numeric code level value is supplied: Non-numeric value specified for code level: <value>.

Error Code	Error Messages
500	When requesting China serial numbers and a non-numeric code level value is supplied: Non-numeric value specified for code level: <Value>.
500	When requesting serial numbers for a template that is enabled to be provisioned externally: The serial number template is configured to not allow provisioning for <packagingCode>.
500	You are not authorized to access this service.

Serial Number Response

Guidelines

Data Element				Occurs Length	Type	Description
S:Envelope				1...1 -	-	Required. Soap envelope.
S:Body				1...1 -	-	Required. Soap message body.
ns2:serialNumbersRequestResponse				1...1 -	-	Required. The Serial Number Response message payload.
			ReceivingSystem	1...1 1/*	String	Identifier for site manager system that requested the serial numbers. This value must match the configured value for the requesting system in the Serial Number Manager application configuration. Included in the response if the serial number range or list is returned, and omitted if an error response is returned (e.g. 0060354701201).
			SendingSystem	1...1 1/*	String	Identifier for the service responding to serial number requests. This value must match the configured value for the service in the SNM configuration. Included in the response if the serial number range or list is returned, and omitted if an error response is returned (e.g. SYSTEM-100001).
			ActionCode	1...1 1/*	String	Value "C" is always returned. This value may be ignored. Included in response if serial number range or list is returned, omitted if error response is returned (e.g. C).
			EncodingType	1...1 1/*	String	Specifies the encoding format for the type of serial numbers requested as provided in the request. SGTIN is used for both GTIN-14 and NTIN numbers. Included in response if the serial number range or list is returned, and omitted if an error response is returned.

Data Element				Occurs Length	Type	Description
						See the Encoding enumeration list for valid values.
			IdType	1...1 1/*	String	Specifies the type of serial numbers requested as provided in the request. Included in the response if the serial number range or list is returned, and omitted if an error response is returned.
			Interval	1...1 -	-	If a serial number range is returned, specifies the serial number range. Only one of the following is returned: Interval RandomizedNumberList RfidException
			NumberFrom	1...1 1/*	String	Required. If a serial number range is returned, specifies the starting serial number value. This element returns serial numbers in their fully formed format (e.g. AI(01)(21) formatted numbers for SGTINs are populated in the fields fully formed as "018038888293000621100000000001" with the "01" and "21" values present, and the AI(00) formatted numbers for SSCCs are populated in the fields fully formed as "00003888820001000011" with the "00" value present) (e.g. 010088202603022921100000000000).
			NumberTo	1...1 1/*	String	Required. If a serial number range is returned, specifies the ending serial number value. This element returns serial numbers in their fully formed format (e.g. AI(01)(21) formatted numbers for SGTINs are populated in the fields fully formed as "018038888293000621100000000001" with the "01" and "21" values present, and the AI(00) formatted numbers for SSCCs are populated in the fields fully formed as "00003888820001000011" with the "00" value present) (e.g. 010088202603022921100000000009).
			ObjectKey	1...1 -	-	The key for the associated object (that holds the identifier type and value) for which the serial numbers were requested. Included in the response if a serial number range or list is returned, and omitted if an error response is returned.
			Name	1...1 1/*	String	Required. Specifies the identifier type of the associated object for which serial numbers were requested.
			Value	1...1 1/*	String	Required. The corresponding identifier of the associated object for which serial numbers are requested (for example, the GTIN-14 identifier, NTIN 14-digit identifier, GS1 Company Prefix value, or China Subtype and attributes). If ObjectKey / Name requests an SSCC code using COMPANY_PREFIX, the format of the Value is as follows:(e.g. GTIN: 00882026030229). <Company Prefix> <Logistic Unit Indicator> The Logistic Unit Indicator to request an SSCC for a pallet or case must match the configured value in Serial Number Manager. If ObjectKey / Name requests a CN_EDMC code using CN_SUBTYPE_LEVEL_RATIO, the format of the Value is as follows: <CN-Subtype Code> <CN Code Level> <CN Package Ratio> The Code Level must be the configured code level value for the packaging hierarchy as configured in China Master Data that maps to a specific Resource Code. The PackageRatio is optional. If included, it must use the PackageRatio exactly as configured in China Master Data that maps to a specific Resource Code. It is used to disambiguate when there are serial numbers associated

Data Element					Occurs Length	Type	Description
							with multiple Resource Codes for the Code Level or Package Ratio of the Subtype. If it is omitted and there are multiple Resource codes for the same Code Level or Package Ratio, the system returns an error.
			ReferenceDocuments		1...1 -	-	The reference documents passed in on request, returned with the response.
				PONumber	1...1 1/*	String	The PO number associated with serial number request.
				POLine	1...1 1/*	String	Conditionally required if PONumber is present. The PO line number associated with serial number request.
				WorkOrderNumber	1...1 1/*	String	The Work Order number associated with serial number request.
				ReferenceIdentifier	1...1 1/*	String	The Reference Identifier associated with serial number request.
			RandomizedNumberList		1...1 -	-	If a serial number range is returned, specifies the serial number range. Only one of following is returned: - Interval - RandomizedNumberList - RfidException
				SerialNo	1...* 1/*	String	Required. If a serial number list is returned, specifies the list of serial numbers in the SerialNo repeating element. This element returns serial numbers in their fully formed format (e.g. AI(01)(21) formatted numbers for SGTINs are populated in the fields fully formed as "018038888293000621100000000001" with the "01" and "21" values present, and the AI(00) formatted numbers for SSCCs are populated in the fields fully formed as "00003888820001000011" with the "00" value present) (e.g. 010088202501033821100011946933 and 00008820210000000005). If a serial number list is not returned (e.g. range is returned), the RandomizedNumberList element group is omitted.  SGTINs are mandatory for Russia serial numbers.
				cryptoKey	0...* 0/4	String	Conditionally required if for Russia serial numbers. The alphanumeric crypto key value retrieved from the CRPT Order Management Station. AI(91) denotes this value in the serial number (e.g. 911234).
				cryptoCode	0...* 0/44	String	Conditionally required if for Russia serial numbers. The crypto code value retrieved from the CRPT Order Management Station. This value can contain alphanumeric values as well as symbols. AI(92) denotes this value in the serial number. The following are valid symbols:(e.g. 92AusibQLCfH2fbOoXL3yU77gRBOsnhdKlJRGjZvl7gy0U).

Data Element						Occurs Length	Type	Description
								See Crypto Code Symbols for valid symbols allowed in the <code>cryptoCode</code> .
			RfidException			- -	-	If an error is returned, specifies the error. Only one of the following values is returned: <code>Interval</code> <code>RandomizedNumberList</code> <code>RfidException</code>
				errorCode		1..1 1/*	String	The error code returned from Serial Number Manager.
				errorMessage		1..1 -	String	Required. The error message description returned from Serial Number Manager (e.g. GTIN-14 identifier 00882026030229 is not in the permitted serial number request list.).

Example

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:serialNumbersRequestResponse xmlns:ns2="urn:tracelink:soap">
      <SNResponse>
        <ReceivingSystem>LineSys11</ReceivingSystem>
        <SendingSystem>0060354701201</SendingSystem>
        <ActionCode>C</ActionCode>
        <EncodingType>SGTIN</EncodingType>
        <IDType>GS1_SER</IDType>
        <ObjectKey>
          <Name>GTIN</Name>
          <Value>00882025010338</Value>
        </ObjectKey>
        <RandomizedNumberList>
          <SerialNo cryptoKey="918567"
cryptoCode="9269139"926C194400G21300791248!74,35< ;,575162">010088202501033821100011946933</SerialNo>
          <SerialNo cryptoKey="918567"
cryptoCode="92JEIF840$JDFDSA!L;ASDJASDMASDLKFJANE;ASD>LHJA">010088202501033821100015310495</SerialNo>
          <SerialNo cryptoKey="918567"
cryptoCode="92546KLJDFG94N&ALDFJ^KLJBN346#NDSFL%LKJADADNRI">010088202501033821100018139350</SerialNo>
          <SerialNo cryptoKey="918567"
```

```
cryptoCode="92489345MDFSLK8945893,5HJDSFKL3$LKJSDGF&amp;LKJDFG">010088202501033821100012121992</SerialNo>
    <SerialNo cryptoKey="918567"
cryptoCode="92DSAFL48904!KASDFG^;LKJASDF%ASDFLKJ9ASL34JD34">010088202501033821100016483276</SerialNo>
    <SerialNo cryptoKey="918567"
cryptoCode="92%LSDAFASDF9084&amp;;LKLJ!;LKJA234ASDF724LK$LJ$;L">010088202501033821100012414042</SerialNo>
    <SerialNo cryptoKey="918567"
cryptoCode="92834HASKLJHSDA$KJH%;LHJLKSDF^ASDFKLJDSFLKW!;L">010088202501033821100016102891</SerialNo>
    <SerialNo cryptoKey="918567"
cryptoCode="9290KLKLNAB%KLJ&amp;KLJ^7DSFKLJASDG234KLJSD#4L&apos;ASD">010088202501033821100013578725</SerialNo>
    </RandomizedNumberList>
  </SNResponse>
</ns2:serialNumbersRequestResponse>
</S:Body>
</S:Envelope>
```

Serial Number Manager Request and Response (Verify Brand)

Serial Number Manager Request

Guidelines

Use this message to replenish serial numbers from the Verify Brand system.

Message Type: SNM_REQUEST

Info Exchange Display Name: Serial Number Replenish Request

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

Data Element		Occurs	Format	Length	Enums	Req	Description
snm:SNMRequestType		1...1	-	-	-	M	Root data element.
	snm:ControlFileHeader	1...1	-	-	-	M	Serial Number Manager control header record group.

Data Element			Occurs	Format	Length	Enums	Req	Description
		cmn:FileSenderNumber	1...1	String	1/*	-	M	File sender's company identifier. ¹
		cmn:FileReceiverNumber	1...1	String	1/*	-	M	File recipient's company identifier. ²
		cmn:FileControlNumber	1...1	String	1/*	-	M	Unique file control ID number. ³
		cmn:FileDate	1...1	Date	0/*	-	M	Date file generated in XML YYYY-MM-DD format. ⁴
		cmn:FileTime	1...1	Time	0/*	-	M	Time file generated in XML HH:MM:SSZ format (must be GMT). ⁵
		snm:MessageBody	1...1	-	-	-	M	Request Details.
		cmn:RequestId	1...1	String	1/*	-	M	Unique identifier for the serial number request. This is used to link the Serial Number Response from Serial Number Manager back to the originating Serial Number Response. ⁶
		cmn:PlantIdentifier	0...1	String	0/*	-	O	Identifier of plant location requesting serial numbers. Required by Serial Number Manager applications to track the plant that commissioned the serial numbers. ⁷
		@type	1...1	String	0/*	LocationType	M	Plant location identifier type. Indicates the encoding type that is used to identify the requesting site location. ⁸
		cmn:ReferenceDocuments	0...1	-	-	-	-	Reference to specific manufacturing orders associated with the Serial Number Request. Indicates that the requested serial numbers will be used for the referenced manufacturing orders.
		cmn:PONumber	0...1	String	0/*	-	O	Purchase order (PO) number associated with Serial Number Request. ⁹
		cmn:POLine	0...1	String	0/*	-	O	PO line number associated with Serial Number Request. ¹⁰
		cmn:WorkOrderNumber	0...1	String	0/*	-	O	Work order number associated with Serial Number Request. ¹¹
		cmn:ReferenceIdentifier	0...1	String	0/*	-	O	Reference identifier. ¹²

¹8888884043588²10021144³0000000414236887⁴2016-09-15⁵09:09:09Z⁶20160201090909_08806500018314⁷PFZFG01⁸GLN⁹4500018051¹⁰10¹¹1001764-00¹²RI942013

Data Element			Occurs	Format	Length	Enums	Req	Description
		cmn:NumberEncoding	1...1	String	0/*	Encoding	M	Encoding format for the type of serial numbers that are being requested from the enumeration list (e.g. AI(01)+AI(21) for serialized GTIN, AI(00) for SSCC-18). ¹
		cmn:RU_CryptoCodeRequest	0...1	Boolean	-	-	M	Indicates a request for Kazakhstan Crypto Codes, Russia crypto codes , or Uzbekistan Crypto Codes. The default value is "false". Valid values: ² - true = Request crypto codes. Kazakhstan Crypto Codes, Russia crypto codes, or Uzbekistan Crypto Codes are expected in the Serial Number Manager Response. - false = Do not request crypto codes. Kazakhstan Crypto Codes, Russia crypto codes , or Uzbekistan Crypto Codes are not expected in the Serial Number Manager Response.
		cmn:ObjectIdentifier	1...1	Choice	-	-	M	The identifier associated with the cmn:NumberEncoding for the serial numbers being requested. There is a choice element within the ObjectIdentifier data element, meaning that only one of the four options below can be populated.
		cmn:CompanyPrefixObjectKey	0...1	String	1/*	-	O	The company prefix assigned by GS1 for the required SSCC numbers. Used only when cmn:NumberEncoding is for SSCC numbers. ³
		@filterValue	0...1	Integer	0/*	FilterValue	O	The Filter Value for the packaging level of the SSCC number that is being requested to indicate if the SSCC is for a pallet, mixed case, etc. This should be an integer with a value 0-7.
		cmn:GTIN-14	0...1	String	1/*	-	O	The GTIN-14 for the required SGTIN and AI(01)+AI(21) serial numbers. The GTIN-14 also informs logistical unit. Used only when cmn:NumberEncoding is for SGTIN and AI(01)+AI(21). ⁴
		cmn:NTINObjectKey	0...1	String	1/*	-	C	The NTIN for the required NTIN and AI(01)+AI(21) serial numbers. The NTIN also informs logistical unit. Used only when cmn:NumberEncoding is for SGTIN and AI(01)+AI(21). ⁵
		cmn:Quantity	1...1	Int	1/*	-	M	Quantity of serial numbers requested. ⁶

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<snm:SNMRequestType xmlns:snm="urn:tracelink:mapper:sl:serial_number_manager"
```

¹AI(01)+AI(21)

²false

³030074

⁴80388882930006

⁵30300743799027

⁶10000

```

xmlns:cmn="urn:tracelink:mapper:sl:commontypes">
<snm:ControlFileHeader>
  <cmn:FileSenderNumber>8888884043588</cmn:FileSenderNumber>
  <cmn:FileReceiverNumber>10021144</cmn:FileReceiverNumber>
  <cmn:FileControlNumber>0000000414236887</cmn:FileControlNumber>
  <cmn:FileDate>2016-09-15</cmn:FileDate>
  <cmn:FileTime>09:09:09Z</cmn:FileTime>
</snm:ControlFileHeader>
  <snm:MessageBody>
    <cmn:RequestId>20160201090909_08806500018314</cmn:RequestId>
    <cmn:PlantIdentifier type="GLN">CMO_System</cmn:PlantIdentifier>
    <cmn:ReferenceDocuments>
      <cmn:PONumber>4500018051</cmn:PONumber>
      <cmn:POLine>10</cmn:POLine>
      <cmn:WorkOrderNumber>1001764-00</cmn:WorkOrderNumber>
      <cmn:ReferenceIdentifier>A12345</cmn:ReferenceIdentifier>
    </cmn:ReferenceDocuments>
    <cmn:NumberEncoding>AI (01) +AI (21)</cmn:NumberEncoding>
    <cmn:RU_CryptoCodeRequest>true</cmn:RU_CryptoCodeRequest>
    <cmn:ObjectIdentifier>
      <cmn:GTIN-14>80388882930006</cmn:GTIN-14>
    </cmn:ObjectIdentifier>
    <cmn:Quantity>10</cmn:Quantity>
  </snm:MessageBody>
</snm:SNMRequestType>

```

Errors

Data Element	Error Message	Description
Class 1 Errors		
cmn:NumberEncoding	Valid number encoding code is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
cmn:ObjectIdentifier	Only one of CompanyPrefixObjectKey OR GTIN14ObjectKey OR CNSubtypeObjectKey OR NTINObjectKey is required !!!	The error occurs if none, or more than one, of the following are present: cmn:CNSubtypeObjectKey, cmn:CompanyPrefixObjectKey, cmn:GTIN14ObjectKey, or cmn:NTINObjectKey.
Class 2 Errors		

Data Element	Error Message	Description
-	-	-
Class 3 Errors		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

Serial Number Manager Response

Guidelines

This message uses the Park and Retry functionality. If a prerequisite condition for this message has not been met, TraceLink stops processing the task, returns the task to the queue, and then tries to process the task again every 15 minutes for up to 2 hours.

Message Type: SNM_RESPONSE

Info Exchange Display Name: Serial Number Replenish Response

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

Data Element		Occurs	Format	Length	Enums	Req	Description
CodeRequestReport		1...1	-	-	-	M	Root data element.
	Quantity	1...1	Integer	1/*	-	M	The total quantity of UIDs contained in the file. ¹
	CompanyPrefix	0...1	Integer	1/*	-	C	The company prefix (product number value) associated with the allocated UIDs. ² ⓘ At least one, and only one, of CompanyPrefix or AssociatedProducts, or

¹100

²369999

Data Element				Occurs	Format	Length	Enums	Req	Description
									AssociatedProducts Value is required. ⚠ Mandatory if UID contains SSCCs.
ExtensionDigit				0...1	Integer	1/*	-	O	This field not used.
DateCodesWereGenerated				1...1	DateTime	1/*	-	M	The date/time the UIDs were generated in the Verify Platform. ¹
CodeRequestKey				1...1	String	0/*	-	M	The unique key associated with the UID request. ²
AssociatedProducts				1...1	-	-	-	M	Request identifier fields. Populated with TraceLink and Verify Brand request identifiers. <i>i</i> For SSCCs, an empty tag is sent. <i>i</i> At least one, and only one, of CompanyPrefix or AssociatedProducts, or AssociatedProducts Value is required.
		AssociatedProduct		0...*	-	-	-	C	Message group header for looping group. ⚠ Mandatory if UID contains SGTINs.
			Type	1...1	String	0/*	-	M	The product reference identifier type. The most common value is "GTIN". Valid values:³ • GTIN • NTIN
			Value	1...1	String	0/*	-	M	The product reference identifier. The most common value is the class-level urn for GTIN, (e.g.

¹2016-12-22T22:34:28-06:00²b6fae276-85b8-46bf-b059-e4b176addf78³GTIN

Data Element				Occurs	Format	Length	Enums	Req	Description
									¹  At least one, and only one, of CompanyPrefix or AssociatedProducts, or AssociatedProducts Value is required.
	SenderId			1...1	String	0/*	-	M	Identifier for the sender of the file.
	UIDs			1...1	-	-	-	O	Request identifier fields. Populated with TraceLink and Verify Brand request identifiers.
		UID		1...*	-	-	-	M	Parent element for serial numbers in urn format, crypto key, and crypto code.
			URN	1...1	String	0/*	-	M	Explicit list of UIDs (serial numbers) in urn format. This is a repeating element. ²
			CryptoKey	1...1	String	0/*	-	M	The crypto key value retrieved from the OMS owned by the pharmaceutical manufacturer. Crypto keys are alphanumeric and are 4 characters long. ³
			CryptoCode	1...1	String	0/*	-	M	The crypto key value retrieved from the OMS owned by the pharmaceutical manufacturer. Crypto codes can contain alphanumeric values as well as symbols and are either 44 or 88 characters long. AI(92) denotes this value in the serial number. The following are valid symbols: ⁴ • ! • &quot; – (") • % • &amp; – (&) • &apos; – (') • * • +

¹urn:epc:id:sgtin:0369999.039801.*

²urn:epc:id:sgtin:0369999.039801.1024500403956, urn:epc:id:sscc:0369999.2100010000

³91MTEy

⁴92d25lZmFvaTJoajM5NDhocjU5ODJoYXI4aDM5d2E4aGY7LCJBV0pFSTM5NA

Data Element				Occurs	Format	Length	Enums	Req	Description
									• - • . • / • _ • , • : • ; • = • &lt; - (<) • &gt; - (>) • ?  TraceLink escapes the following special XML characters before sending the Serial Number Manager Response message: • &quot; - (") • &amp; - (&) • &apos; - (') • &lt; - (<) • &gt; - (>)
	Location			1...1	-	-	-	M	Location group header.
		References		1...1	-	-	-	M	Location reference identifier.
			Reference	1...1	String	0/*	-	M	The location reference identifier type. The most common value is "SGLN". Location refers to the location the UIDs were requested for. ¹
			Name	1...1	String	0/*	-	O	The location reference identifier name. ²

¹urn:epc:id:sgln:0851366005.00.0²CMO Partner #1

Data Element		Occurs	Format	Length	Enums	Req	Description
	BusinessTransactions	1...1	-	-	-	M	Business Transactions group header.
	BusinessTransaction	0...*	-	-	-	O	Business Transaction group header.
	Type	1...1	String	0/*	-	M	Not used.
	ID	1...1	String	0/*	-	M	Not used.

Example

```
<?xml version="1.0"?>
<CodeRequestReport xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <Quantity>10</Quantity>
  <DateCodesWereGenerated>2018-07-12T15:20:43-05:00</DateCodesWereGenerated>
  <CodeRequestKey>762becab-38b7-443a-8c22-9b20cc9487b4</CodeRequestKey>
  <AssociatedProducts>
    <AssociatedProduct>
      <Type>GTIN</Type>
      <Value>urn:epc:idpat:sgtin:0311111.000000.*</Value>
    </AssociatedProduct>
  </AssociatedProducts>
  <UIDs>
    <UID>
      <URN>urn:epc:id:sgtin:0311111.000000.ADEEVIUICARC</URN>
      <CryptoKey>91EyMw</CryptoKey>
      <CryptoCode>92d251ZmFvaTJoajM5NDhocjU5ODJoYXI4aDM5d2E4aGY7</CryptoCode>
    </UID>
    <UID>
      <URN>urn:epc:id:sgtin:0311111.000000.ALUIHJMLHJHF</URN>
      <CryptoKey>91dlZg</CryptoKey>
      <CryptoCode>92NTczNDk4N2FzZG11aGZsaXd1OyxobGFnd2VmbG11aGFs</CryptoCode>
    </UID>
  </UIDs>
  <Location>
    <References>
      <Reference>urn:epc:id:sgln:0311111.00000.0</Reference>
    </References>
  </Location>
</CodeRequestReport>
```



```

    <Name>Sample CMO Location 1</Name>
  </Location>
  <BusinessTransactions/>
</CodeRequestReport>

```

Errors

Data Element	Error Message	Description
Class 1 Errors		
CompanyPrefix	Only one of CompanyPrefixObjectKey or GTIN14ObjectKey is required !!!	The error occurs if both CompanyPrefix and AssociatedProduct are populated.
	At least one of CompanyPrefixObjectKey or either of GTIN14ObjectKey and NTINObjectKey is required !!!	The error occurs if both CompanyPrefix and AssociatedProduct are empty or null.
cmn:FileReceiverNumber	Valid FileReceiverNumber is required !!!	The error occurs if UID is empty or null.
Value	Value is required if AssociatedProduct/Type = "GTIN" is populated !!!	The error occurs if AssociatedProduct Type = "GTIN", but the source is empty or null.
	Only one AssociatedProduct group is required !!!	The error occurs if more than one AssociatedProduct group is populated.
UID	UID must be populated !!!	The error occurs if the source is empty or null.
	UID must contain an SGTIN or SSCC only !!!	The error occurs if the source does not contain an SGTIN or SSCC.
	UID must be an SSCC or an SGTIN only !!!	The error occurs if the source does not contain an SGTIN or SSCC.
	Valid SSCC or SGTIN serial number format is required !!!	The error occurs if the source is not in valid SGTIN or SSCC format.
URN	URN must contain an SGTIN or SSCC only !!!	The error occurs if the source does not equal "urn:epc:id:sgtin:".
	ExtensionDigit required for SSCCs !!!	The error occurs if the source equals "urn:epc:id:sscc:" and CodeRequestReport ExtensionDigit is missing.
	Valid SSCC or SGTIN serial number format is required !!!	The error occurs if the source is invalid.
CryptoKey	CryptoKey is required if URN is present !!!	The error occurs if URN is present but the source is missing.
CryptoCode	CryptoCode is required if URN is present !!!	The error occurs if URN is present but the source is missing.
Reference	Location reference identifier type must be an SGLN !!!	The error occurs if the source is not an SGLN.
	Location reference identifier is required !!!	The error occurs if the source is empty or null.
Class 2 Errors		

Data Element	Error Message	Description
-	-	-
Class 3 Errors		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

Remove crypto codes APIs

Use the following messages to remove crypto key and crypto code attributes from specified serial numbers. When a Remove Crypto Codes request is successful, the response includes an **AsyncID**. Use this token in the Fetch Remove Crypto Codes Result request to retrieve the status of the associated Remove Crypto Codes message.

Access to the Web Services Description Language (WSDL), where the XSDs reside along with other functionality information, is needed for integration. The URL for the WSDL contains the name of the TraceLink environment being accessed, followed by a specific app path. The following are the itest and prod WSDLs for removing crypto codes:

- *itest*: <https://itestapi.tracelink.com/soap/crypto?wsdl>
- *prod*: <https://api.tracelink.com/soap/crypto?wsdl>

 Ensure authentication success before attempting to access the WSDL.

Remove Crypto Codes (SOAP)

Remove Crypto Codes Request

Guidelines

Data Element		Occurs Length	Type	Description
soapenv:Envelope		1...1 1/*	-	Required. The SOAP envelope.
	soapenv:Header	1...1 -	-	Required. Not used.
	soapenv:Body	1...1 -	-	Required. The SOAP message body.

Data Element							Occurs Length	Type	Description
		urn:RemoveCryptoCodes					1...1 -	-	Required. The body for the Remove Crypto Codes request.
			RemoveCryptoCodesRequest				1...1 -	-	Required. The Remove Crypto Codes Request element group.
				Items			0...1 -	-	Conditionally required if GTIN and LotNumber are not present. The list of serial numbers from which to remove the crypto key and crypto code attributes.
					Item		1...* -	-	Required. The serial number and its attributes.
						@sn	1...1 1/*	-	Required. The serial number in AI(01)+AI(21) format.
						@namespace	0...1 0/*	-	Not used. The namespace of the serial number.
						@orderItemNumber	0...1 0/*	-	Not used. The order item number associated with the serial number.
						@barcodeContent	0...1 0/*	-	Not used. The actual barcode content of the serial number.
				GTIN			0...1 0/14	-	Conditionally required if either of the following is true: Items is not present. LotNumber is present. The GTIN of the serial numbers from which to remove the crypto key and crypto code attributes.
				Lotnumber			0...1 0/*	-	Conditionally required if either of the following is true: Items is not present. GTIN is present. The lot number of the serial numbers from which to remove the crypto key and crypto code attributes.

Example

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:urn="urn:tracelink:soap">
```

```

<soapenv:Header/>
<soapenv:Body>
  <urn:RemoveCryptoCodes>
    <RemoveCryptoCodesRequest>
      <Items>
        <Item sn="01508820250106612184927439238FDSJHK" namespace="" orderItemNumber=""
barcodeContent=""/>
        <Item sn="0150882025010661215KL2J3D9JNF4K4L59" namespace="" orderItemNumber=""
barcodeContent=""/>
        <Item sn="0150882025010661212LKJ3409UDJN349DH" namespace="" orderItemNumber=""
barcodeContent=""/>
      </Items>
      <GTIN></GTIN>
      <LotNumber></LotNumber>
    </RemoveCryptoCodesRequest>
  </urn:RemoveCryptoCodes>
</soapenv:Body>
</soapenv:Envelope>

```

Errors

There are no errors for the Remove Crypto Codes message. Errors are returned when using the Fetch Remove Crypto Codes Result message.

Remove Crypto Codes Response

Guidelines

Data Element		Occurs Length	Type	Description
S:Envelope		1...1 -	-	Required. The SOAP envelope.
	S:Body	1...1 -	-	Required. The SOAP message body.
	ns3:RemoveCryptoCodes	1...1	-	Required. The Remove Crypto Codes response message.

Data Element							Occurs Length	Type	Description
							-		
						TLResponse	1...1 -	-	Required. The message response.
						Success	1...1 0/5	Boolean	Required. Indicates if the message was successful. Valid values: true – The Remove Crypto Codes request was successful. false – The Remove Crypto Codes request was not successful.
						TLResponsePayload	1...1 -	-	Required. The asynchronous response ID element group.
						AsyncID	1...1 0/36	String	Required. Use this token to retrieve the processing status in the Fetch Remove Crypto Codes Result message.
						IsComplete	1...1 0/5	Boolean	Required. Indicates if the Remove Crypto Codes request is complete. Valid values: true – the Remove Crypto Codes Request is complete. false – the Remove Crypto Codes Request is not complete. Use the AsyncID in the Fetch Remove Crypto Codes Result message to retrieve the results of the Remove Crypto Codes message.

Example

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns3:RemoveCryptoCodesResponse xmlns:ns2="http://tracelink.com/som" xmlns:ns3="urn:tracelink:soap">
      <TLResponse>
        <Success>true</Success>
        <TLResponsePayload xsi:type="ns2:TlAsyncResponseType" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
          <AsyncID>d770f5c1-5ba7-4c2d-a4bd-2093ef101ddb</AsyncID>
          <IsComplete>>false</IsComplete>
        </TLResponsePayload>
      </TLResponse>
    </ns3:RemoveCryptoCodesResponse>
  </S:Body>
</S:Envelope>

```


Fetch Remove Crypto Codes Result (SOAP)

Fetch Remove Crypto Codes Result Request

Guidelines

Data Element			Occurs Length	Type	Description
soapenv:Envelope			1...1 1/*	-	Required. The SOAP envelope.
	soapenv:Header		1...1 -	-	Required. Not used.
	soapenv:Body		1...1 -	-	Required. The SOAP message body.
		urn:FetchRemoveCryptoCodeResult	1...1 -	-	Required. The Fetch Remove Crypto Codes Result request message.
		RequestId	1...1 0/*	String	Required. The AsyncID received in the Remove Crypto Codes response message.

Example

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:urn="urn:tracelink:soap">
  <soapenv:Header/>
  <soapenv:Body>
    <urn:FetchRemoveCryptoCodeResult>
      <RequestId>bbda2bfe-0b35-49bb-aa4b-09a0478abce0</RequestId>
    </urn:FetchRemoveCryptoCodeResult>
  </soapenv:Body>
</soapenv:Envelope>
```

Errors

Error Code	Error Messages
VALIDATION	Incorrect arguments: Only specify serial numbers in the Items list or both a GTIN and Lot Number.
VALIDATION	The following serial number(s) in the request do not exist: <serialNumber1>, <serialNumber2>.
VALIDATION	LotNumber <lotNumber> not found for GTIN <GTINValue>.

Fetch Remove Crypto Codes Result Response

Guidelines

- If **Success** = **true** and neither **TLResponsePayload** nor **ExceptionReturn** is present, the serial number(s) in the Remove Crypto Codes message successfully had their crypto key and crypto code attributes removed.
- If **Success** = **true** and **TLResponsePayload** is present, the Remove Crypto Codes message was successfully submitted but is still being processed.
- If **Success** = **true** and **ExceptionReturn** is present, the Remove Crypto Codes message was successfully submitted but there is at least one error.

Data Element	Occurs Length	Type	Description
S:Envelope	1...1 -	-	Required. The SOAP envelope.
S:Body	1...1 -	-	Required. The SOAP message body.
ns3:FetchRemoveCryptoCodeResultResponse	1...1 -	-	Required. The Fetch Remove Crypto Codes Result response message.
TLResponse	1...1 -	-	Required. The message response.

Data Element						Occurs Length	Type	Description
				Success		1...1 0/5	Boolean	Required. Indicates if the message was successful. Valid values: <code>true</code> – The Fetch Remove Crypto Codes Result request was successful. <code>false</code> – The Fetch Remove Crypto Codes Result request was not successful.
			TLResponsePayload			0...1 -	-	The container for the asynchronous response ID.
				AsyncID		0...1 0/36	String	Required. If the Remove Crypto Codes message associated with the RequestId given in the Fetch Remove Crypto Codes request is incomplete, or the RequestId is invalid, the RequestId from the request is returned here.
				IsComplete		0...1 0/5	Boolean	Required. Indicates if the Remove Crypto Codes request is not complete. Valid values: <code>false</code> – The Remove Crypto Codes Request is not complete.
			ExceptionReturn			0...1 -	-	The element group for errors.
				CallException		0...1 -	-	Required. Indicates that there is an error.
					ExceptionCode	0...1 0/*	String	Required. The exception code associated with the error.
					ExceptionMessage	0...1 0/*	String	Required. The specific error from the request message.

Example

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns3:FetchRemoveCryptoCodesResultResponse xmlns:ns2="http://tracelink.com/som"
xmlns:ns3="urn:tracelink:soap">
      <TLResponse>
        <Success>true</Success>
        <TLResponsePayload xsi:type="ns2:TAsyncResponseType" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
          <AsyncID>bbda2bfe-0b35-49bb-aa4b-09a0478abce0</AsyncID>
          <IsComplete>>false</IsComplete>

```

```
        </TLResponsePayload>  
      </TLResponse>  
    </ns3:FetchRemoveCryptoCodesResultResponse>  
  </S:Body>  
</S:Envelope>
```


Manufacturing and packaging

Product release APIs

Why do I use these messages?

Use the following messages to update the status of serial numbers within a lot to **Quality Released**, indicating that the lot is ready to be released to the market (e.g. it has passed quality inspection).

 Serial numbers can be released before being commissioned in TraceLink. If serial numbers are not associated with the item code and lot number specified in the message, TraceLink preserves the item code and lot number association and updates serial numbers for the lot with the Product Release item attribute when they are commissioned.

Which reports do these messages generate?

These messages generate one of the following reports in the Russia Compliance application if their contents meet the report conditions:

- [OMS Foreign Utilisation](#) and [915 - Multi Pack](#) (generated together) – The OMS Foreign Utilisation report captures information about serialized items that are manufactured in a country other than Russia before being imported to Russia for distribution and the 915 - Multi Pack report captures the aggregation hierarchy of those items.
- [313 - Register Product Emission](#) – The 313 - Register Product Emission captures information about serialized items that are manufactured and released in Russia.

Product Release (XML)

Guidelines

This message uses the Park and Retry functionality. If a prerequisite condition for this message has not been met, TraceLink stops processing the task, returns the task to the queue, and then tries to process the task again every 15 minutes for up to 4 hours.

Message Type: SOM_PRODUCT_RELEASE.

Info Exchange Display Name: Product Release

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

Data Element			Occurs Length	Type	Description
som:SOMProductReleaseMessage			1...1 -	-	Required. This is the root element of the Product Release message.
	som:ControlFileHeader		1...1 -	-	Required. The ControlFileHeader element is where the message document's header information resides.
		cmn:FileSenderNumber	1...1 1/20	String	Required. The company identifier of the file's sender (e.g. 8888882028655).
		cmn:FileReceiverNumber	1...11/20	String	Required. The company identifier of the file's recipient (e.g. 8888882028677).
		cmn:FileControlNumber	1...11/20	String	Required. This field indicates the message's unique file control ID number. A file control ID number is mandatory for all messages (e.g. 20130821063132).
		cmn:FileDate	1...1 10/10	Date	Required. This field indicates the date that the message is sent. The date is in YYYY-MM-DD format when generated in XML (e.g. 2013-08-21).
		cmn:FileTime	1...18/8	Time	Required. This field indicates the time that the message is sent. The date is in HH:MM:SSZ format when generated in XML. The system expects the "Z" to be appended; however if it is not included, the system assumes that the time is GMT and therefore appends the Z (e.g. 06:31:32Z).
	som:MessageBody		1...1 -	-	Required. The message body contains the main contents of the message.
		cmn:LocationId	0...1 0/34	String	This value specifies the identifier of the facility/warehouse to scope the Product Release status update for the serial numbers matching the specified item code and lot number, only at the specified location. If the location is omitted, the Product Release status update will be applied globally to all matching serial numbers in the system (e.g. 8888882028655).
		choice%1	- -	Choice	Required. One of the following options must be chosen, but not both: - Option 1: InternalMaterialCode - Option 2: CountryDrugCode
		cmn:InternalMaterialCode	0...1 1/*	String	Conditionally required if cmn:CountryDrugCode is not present. This is Option 1 for the MessageBody. It is used to identify the product using the internal material number configured in the Product Master Data. Specifying an internal material number will update all serial numbers at all packaging levels (e.g. item, case) that are linked to the internal material number and specified lot number (e.g. 100253).

Data Element			Occurs Length	Type	Description
		cmn:CountryDrugCode	0...1 1/*	String	Conditionally required if cmn:InternalMaterialCode is not present. This is Option 2 for the MessageBody. Use to identify the product using the national drug code (e.g. NDC, Swissmedic, PZN) configured in Product Master Data. Specifying a national drug code will update all serial numbers at all packaging levels (e.g. item, case) that are linked to the national drug code and specified lot number (e.g. 0069-4220-66).
		@type	1...1 1/*	String	Required. Country drug code type. See the CountryDrugCode enumeration list for valid values.
		cmn:LotNumber	1...1 1/*	String	Required. The lot number associated with the cmn:InternalMaterialCode or cmn:CountryDrugCode specified above to identify the serial numbers to be updated (e.g. A12345).
		cmn:QualityControlEntityId	0...1 0/*	String	Conditionally required if bizTransactionList in the ObjectEvent for Product Release Events is populated, or if at least one Target Market in Product Master Data = "RU" and the lot was commissioned outside of Russia. Business or location identifier for the entity responsible for quality control (e.g. 0882028677010).
		@type	1...1 1/*	String	Required. Business or location type of the quality control entity identifier (e.g. GLN). See the BusinessAndLocationId enumeration list for valid values.
		cmn:TransactionIdentifier	0...* 0/*	String	Optional. The transaction identifier associated with the released product (e.g. 45006290016).
		@type	1...1 1/*	String	Required. The transaction identifier type (e.g. CERTIFICATECONFORMITY). Valid values: • CERTIFICATECONFORMITY • CIVILCIRCULATION • DECLARATIONCONFORMITY • STATECONFIRMATION See the TransactionId enumeration list for valid values.
		@date	0...1 0/*	Date	Conditionally required if at least one Target Market in Product Master Data = RU and the lot was commissioned in Russia. The transaction identifier date in YYYY-MM-DD format (e.g. 2019-03-18).
		cmn:EventDateTime	0...1 0/*	DateTime	Timestamp of the date and time of the product release with the UTC time zone indicator in XML YYYY-MM-DDTHH:MM:SS:mmZ format (e.g. 2019-03-18T22:08:021Z).
		cmn:ProductionQuantity	0...* -	-	Production quantity element group.
		choice1	1...1 -	Choice	Required. Choice element of either PackagingItemCode or CompanyPrefix.

Data Element				Occurs Length	Type	Description
			cmn:PackagingItemCode	0...1 0/*	String	Conditionally required if cmn:CompanyPrefix is not populated. Option 1 for choice1. Identifies the product using the packaging level item code configured in Product Master Data (e.g. 50300694220667).
			@type	0...1 0/*	String	Required. Packaging item code type (e.g. GTIN-14). See the ItemCode enumeration list for valid values.
			cmn:CompanyPrefix	0...1 0/*	String	Conditionally required if cmn:PackagingItemCode is not populated. Option 2 for choice1. Identifies the company prefix assigned by GS1 for the released product (e.g. 503006).
			cmn:PackagingLevel	1...1 1/*	String	Required. The packaging level of the commissioned item (e.g. EA). See the PackagingLevel enumeration list for valid values.
			cmn:QuantityReported	1...1 -	Integer	Required. Reported quantity of the released product (e.g. 100).

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<SOMProductReleaseMessage xmlns="urn:tracelink:mapper:sl:serialized_operations_manager"
xmlns:cmn="urn:tracelink:mapper:sl:commontypes"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <ControlFileHeader>
    <cmn:FileSenderNumber>8888882028655</cmn:FileSenderNumber>
    <cmn:FileReceiverNumber>8888882028677</cmn:FileReceiverNumber>
    <cmn:FileControlNumber>0000000001</cmn:FileControlNumber>
    <cmn:FileDate>2012-06-30</cmn:FileDate>
    <cmn:FileTime>06:30:32Z</cmn:FileTime>
  </ControlFileHeader>
  <MessageBody>
    <cmn:LocationId>8888882028655</cmn:LocationId>
    <cmn:InternalMaterialCode>100253</cmn:InternalMaterialCode>
    <cmn:LotNumber>A12345</cmn:LotNumber>
    <cmn:QualityControlEntityId type="GLN">0882028677010</cmn:QualityControlEntityId>
    <cmn:TransactionIdentifier type="CERTIFICATECONFORMITY" date="2019-03-18">45006290016</cmn:TransactionIdentifier>
    <cmn:TransactionIdentifier type="DECLARATIONCONFORMITY" date="2019-03-18">66006290017</cmn:TransactionIdentifier>
    <cmn:EventDateTime>2019-03-18T22:08:021Z</cmn:EventDateTime>
    <cmn:ProductionQuantity>
```

```

    <cmn:PackagingItemCode type="GTIN-14">50300694220667</cmn:PackagingItemCode>
    <!-- <cmn:CompanyPrefix>503006</cmn:CompanyPrefix> -->
    <cmn:PackagingLevel>EA</cmn:PackagingLevel>
    <cmn:QuantityReported>100</cmn:QuantityReported>
  </cmn:ProductionQuantity>
</MessageBody>
</SOMProductReleaseMessage>

```

Errors

Data Element	Error Message	Description
Class 1		
choice1	Only one of either packaging item code or company prefix may be present !!!	The error occurs if both cmn:PackagingItemCode and cmn:CompanyPrefix are populated, or both are empty or null.
cmn:FileControlNumber	Data Error: FileControlNumber occurs fewer times than its minimum number of occurrences	The error occurs if the source is empty or null.
cmn:FileDate	Data Error: FileDate occurs fewer times than its minimum number of occurrences	
cmn:FileReceiverNumber	Data Error: FileReceiverNumber occurs fewer times than its minimum number of occurrences	
cmn:FileSenderNumber	Data Error: FileSenderNumber occurs fewer times than its minimum number of occurrences.	
cmn:FileTime	Data Error: FileTime occurs fewer times than its minimum number of occurrences	
cmn:InternalMaterialCode	Only one of either InternalMaterialCode or CountryDrugCode must be present in source !!!	The error occurs if both cmn:InternalMaterialCode and cmn:CountryDrugCode are either populated or null.
cmn:LotNumber	Lot number is required !!!	The error occurs if the source is empty or null.
cmn:PackagingLevel	Valid packaging level code required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:QualityControlEntityId	Quality control entity Id is required if TransactionIdentifier is populated !!!	The error occurs if cmn:TransactionIdentifier is populated, but the source is empty or null.
cmn:QualityControlEntityId @type	Valid party type required if QualityControlEntityId is populated !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.

Data Element	Error Message	Description
cmn:QuantityReported	Quantity reported is required !!!	The error occurs if the source is empty or null.
cmn:TransactionIdentifier @type	Valid transaction identifier type is required if TransactionIdentifier is populated !!!	The error occurs if cmn:TransactionIdentifier is populated but the source is empty or null, or is not a valid value from the enumeration list.
som:ControlFileHeader	Data Error: ControlFileHeader occurs fewer times than its minimum number of occurrences.	The error occurs if the source is empty or null.
som:MessageBody choice%1	Only one of either InternalMaterialCode or CountryDrugCode must be present in source !!!	The error occurs if both cmn:InternalMaterialCode and cmn:CountryDrugCode are either populated or null.
som:SOMProductReleaseMessage	Unable to read input data for business object SOMProductReleaseMessage due to a XML Error.	The error occurs if the source is empty or null.
Class 2		
cmn:QualityControlEntityId	Quality Control Entity ID is required for products that are commissioned outside of Russia and sold in Russia.	The error occurs if a Target Market in Product Master Data for the released product = "RU" and the lot was commissioned outside of Russia., but the source is empty or null.
cmn:TransactionIdentifier	A Transaction Identifier for either 'Declaration of Conformity' or 'Certificate of Conformity' is required for products that are commissioned and sold in Russia.	The error occurs if a Target Market in Product Master Data for the released product = "RU" and the lot was commissioned and sold in Russia, but the source is empty or null.
cmn:TransactionIdentifier @date	Transaction Identifier Date is required for products that are commissioned and sold in Russia.	The error occurs if a Target Market in Product Master Data for the released product = "RU" and the lot was commissioned in Russia, but the source is empty or null.
cmn:TransactionIdentifier @type	A Transaction Identifier for either 'Declaration of Conformity' or 'Certificate of Conformity' is required for products sold in Russia.	The error occurs if a Target Market in Product Master Data for the released product = "RU" , but the source does not equal "CERTIFICATECONFORMITY" or "DECLARATIONCONFORMITY".
country drug code type	Unsupported Country Drug Code Type.	The error occurs if source is not supported.
inFilename, origFilename, origCompanyname, origFileDate, cntrlID	File <inFilename> is a potential duplicate match with file <origFilename> sent from <origCompanyname> received on <origFileDate>, based on both files having the same File Control Number <cntrlID>.	The error occurs if file is a duplicate.
item code type	Unsupported Packaging Item Code Type.	The error occurs if source is not supported.
paramcount (countrydrugcode, internalmaterialcode, packagingitemcode)	Incorrect number of item codes specified - found <n>, expected 1. format(paramcount.toString).	The error occurs if more than one item code is specified at a time (e.g. country drug code, internal material code, item code).

Data Element	Error Message	Description
persona credential	No API Key exists for user <username> of service <servicename>. format(user.getOrElse("null"),service.serviceName).	The error occurs if source is not found by service id.
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

Product Release Event (EPCIS v1.2)

Guidelines

Use this message to exchange data between a CMO and a Pharmaceutical Manufacturer. This message communicates Commission, Aggregation, and Product Release data in a single message.

This message uses the Park and Retry functionality. If a prerequisite condition for this message has not been met, TraceLink stops processing the task, returns the task to the queue, and then tries to process the task again every 15 minutes for up to 4 hours.

Message Type: SOM_PRODUCT_RELEASE_EVENT

Info Exchange Display Name: Product Release

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

⚠ NTINs *must* follow the [GS1 Guidance](#) standards as found on the GS1 website.

- Ex: urn:epc:id:sgtin:415001647778.0.100000000022
- Format: urn:epc:id:sgtin:[company prefix].[indicator digit][item ref].[serial number]

Information regarding NTINs cannot be exchanged with trade partners unless the specific format outlined above is followed. If using an NTIN without following this format, an outbound error occurs when passing data from TraceLink to a trade partner.

Data Element				Occurs Length	Type	Description
epcis:EPCISDocument				1...1 -	-	Required. EPCIS message root element.
	@schemaVersion			1...1 0/*	Decimal	Required. The version of the EPCIS schema used to populate the EPCIS document elements. Must equal 1.2. ¹
	@creationDate			1...1 1/*	DateTime	Required. Date the message was created. ²
	EPCISHeader			0...1 -	-	Required. XML file control header record. The following use cases are supported in this message: - Commission or Transformation + Aggregation + Product Release events: no Decommission/Destroy reported. - Commission or Transformation + Product Release events: product is not aggregated and no Decommission/Destroy reported. - Commission or Transformation + Product Release + Decommission/Destroy events: product is not aggregated, Decommission/Destroy events recorded. - Commission or Transformation + Aggregation + Decommission and/or Destroy + Product Release events: all events may be present.  Commission or Transformation and Product Release events are mandatory; all other events are optional.
	sbdh:StandardBusinessDocumentHeader			1...1 -	-	Required. Business header information including EPCIS Header Version, Sender, and Receiver information, along with the document identification.
		sbdh:HeaderVersion		1...1 0/*	String	Required. The version number of the SBDH standard used. The sbdh:HeaderVersion must equal 1.0. ³
		sbdh:Sender		1...* -	-	Required. A unique identification key for the Sender party of the message, representing the organization which created the standard business document. The sbdh:Sender element must be used only once with GS1 XML messages.
			sbdh:Identifier	1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type. ⁴ SGLN and all other party types should be sent with a GS1-conformant uri prefix. For example: urn:epc:id:sgln:088202.867701.0

¹1.2²2016-12-18T22:08:02Z³1.0⁴1100001014507

Data Element					Occurs Length	Type	Description
							http://epcis.gs1us.org/hc/dea/loc/10023141 ⓘ GLN will not have a urn/http prefix. See the MDPartyTypeAttributes enumeration list for valid values.
				@Authority	1...1 1/*	String	Required. The Authority was previously expected to be set to GLN for GS1 XML messages. Update made in December 2016 changed this to take additional values.¹ See the MDPartyTypeEnums enumeration list for valid values.
				sbdh:Receiver	1...* -	-	Required. A unique identification key for the direct Receiver party of the message, representing the organization which receives the standard business document. The sbdh:Receiver element must be used only once with GS1 XML messages.
				sbdh:Identifier	1...* -	String	Required. The value of the sbdh:Identifier element may be a GLN, SGLN, or any other supported business party type.² SGLN and all other party types should be sent with a GS1-conformant uri prefix. For example: urn:epc:id:sgln:088202.867701.0 http://epcis.gs1us.org/hc/dea/loc/10023141 ⓘ GLN will not have a urn/http prefix. See the MDPartyTypeAttributes enumeration list for valid values.
				@Authority	1...1 1/*	String	Required. The Authority was previously expected to be set to GLN for GS1 XML messages. Update made in December 2016 changed this to take additional values.³ See the MDPartyTypeEnums enumeration list for valid values.
				sbdh:DocumentIdentification	1...1 -	-	Required. Contains the identification group for the message.
				sbdh:Standard	1...1 0/*	String	Required. The name of the document standard contained in the payload. The sbdh:Standard value must equal EPCglobal.⁴
				sbdh:TypeVersion	1...1	String	Required. The version of the document included in the payload of SBDH. This is the "complete" version of the document itself

¹GLN²0614141123452³GLN⁴EPCglobal

Data Element				Occurs Length	Type	Description
						. The sbdh:TypeVersion must equal 1.0 . ¹
			sbdh:InstanceIdentifier	1...1 1/*	String	Required. Description which contains reference information which uniquely identifies this instance of the Standard Business Document between the Sender and the Receiver. This identifier identifies this document as being distinct from others. ²
			sbdh:Type	1...1 0/*	String	Required. This element identifies the type of the document. The sbdh:Type must equal Events . ³
			sbdh:CreationDateAndTime	1...1 0/*	DateTime	Required. Date and time of the SBDH document creation. ⁴
			extension	0...1 -	-	Header extension area with master data attributes.
			EPCISMasterData	0...1 -	-	Master data extension header. May contain product master data attributes for Commissioning event and/or location address information for Decommissioning and/or Destroy events. Optional. Valid values: - Product master data = urn:epcglobal:epcis:vtype:EPCClass - Party master data = urn:epcglobal:epcis:vtype:Location ❗ Full GS1-conformance requires that all product and party master data be stored in the EPCIS header extension EPCISMasterData VocabularyList Vocabulary VocabularyElementList VocabularyElement. It is strongly urged that all product master data for Commissioning and party address info for Decommissioning and Destroying events be sent in the VocabularyElement within the EPCISMasterData header extension.
			VocabularyList	1...1 -	-	Required. Vocabulary list group master data elements.
			Vocabulary	0...* -	-	Looping vocabulary element with discrete item master and/or party master data element groups. Vocabulary will occur only once for all item master entries present in message, if group is populated. Group is optional. If it does not appear in master data header extension, no error will be thrown.
			@type	1...1 0/*	String	Required. Vocabulary type identifying product master data elements. Product master data is defined by VocabularyElement @id .

¹1.0²201609201745200001³Events⁴2016-12-18T22:08:02Z

Data Element							Occurs Length	Type	Description
									Valid value: <code>urn:epcglobal:epcis:vtype:EPCClass</code> = product master data. ¹
						VocabularyElementList	0...1 -	-	List of vocabulary elements containing master data attributes for each unique product code.
						VocabularyElement	0...* -	-	Looping vocabulary element identifying each unique SGTIN, NTIN, or China Product Code for product master data embedded in the epc serial number in the Commissioning and Transformation events. SSCC codes not included in VocabularyElement product master data. i To conform with GS1 standards, master data attributes should be sent in the VocabularyElement. Each unique SGTIN, NTIN, or China Product Code embedded in Commissioning event epcList/epc serial numbers should be sent in one instance of VocabularyElement.
						@id	1...1 0/*	String	Required. Identifies the product code for which master data is being sent in the VocabularyElement loop.² VocabularyElement @id = SGTIN, NTIN, or China Product Code with GS1-conformant urn or http prefix. These are the only values supported in this element. All other product identifier types will be sent as additional trade item types. SSCC codes are not identified in any part of the VocabularyElement group. Must match the product code embedded within the serial number in the epc code in one or more commissioning events. SGTIN (strongly recommended for GS1-conformance) - Prefix: <code>urn:epc:idpat:sgtin:</code> - Example: <code>urn:epc:idpat:sgtin:0030001.0012345.*</code> China - Prefix: <code>http://epcis.tracelink.com/hc/cn-edmc/obj/</code> - Example: <code>http://epcis.tracelink.com/hc/cn-edmc/obj/10230.*</code>
						attribute(1)	1...1 1/*	String	Conditionally required if item master data attributes are sent in VocabularyElement. Instance 1 of attribute for packaging level value identified by @id attribute.³ See the PackagingLevel enumeration list for valid values.
						@id	1...1 0/*	String	Required. Attribute identifying packaging level. Valid value: <code>http://epcis.tracelink.com/mda/packageTypeCode</code>⁴ See the MDAttributes enumeration list for valid values.

¹urn:epcglobal:epcis:vtype:EPCClass²urn:epc:idpat:sgtin:0030001.0012345.*³UN⁴http://epcis.tracelink.com/mda/packageTypeCode

Data Element									Occurs Length	Type	Description
								attribute(2)	0...1 0/*	String	Instance 2 of attribute for internal material number in Pharmaceutical Manufacturer's internal system identified by @id attribute. Identified by the value in the next attribute element in the current loop = MANUFACTURER_PART_NUMBER. ¹
								@id	1...1 0/*	String	Required. Id attribute identifying internal material code. Valid value: urn:epcglobal:cbv:mda#additionalTradeItemIdentification ²
								attribute(3)	0...1 0/*	String	Conditionally required if the previous name/value pair attribute(2) @id is populated. Instance 3 of attribute for internal material number identifier type for the product. Id attribute identifying internal material code. Valid value: MANUFACTURER_PART_NUMBER³ Sequence of fields for internal material number is: 1. <code><attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">100335</attribute></code> 2. <code><attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">MANUFACTURER_PART_NUMBER</attribute></code>  If this sequence is not followed as documented above in the input file, the internal material number will not be mapped into the TraceLink system and no error will be thrown.
								@id	1...1 0/*	String	Required. Id attribute identifying internal material code. Valid value: urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode ⁴
								attribute(4)	0...1 0/*	String	Instance 4 of attribute for country drug code for all national drug code types, identified by the enum value in the next attribute element in the current loop and by the attribute @id value as an additional trade item. ⁵ Country drug code type defined by value in next attribute element where @id = urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode OR http://epcis.tracelink.com/mda/additionalTradeItemIdentificationTypeCode.
								@id	1...1 0/*	String	Required. Id attribute identifying internal material code. Valid value: urn:epcglobal:cbv:mda#additionalTradeItemIdentification ⁶

¹100335²urn:epcglobal:cbv:mda#additionalTradeItemIdentification³MANUFACTURER_PART_NUMBER⁴urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode⁵82025030221⁶urn:epcglobal:cbv:mda#additionalTradeItemIdentification

Data Element									Occurs Length	Type	Description
											Conditionally required if the previous name/value pair attribute @id is populated with the country drug code value. Instance 5 of attribute for Country drug code identifier type. Must follow attribute with country drug value. Id attribute identifying internal material code.¹ Sequence of fields for country drug code is: GS1: <code><attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">82025030221</attribute></code> <code><attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</attribute></code> TraceLink: <code><attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">82025030221</attribute></code> <code><attribute id="http://epcis.tracelink.com/mda/additionalTradeItemIdentificationTypeCode">US_NDC442</attribute></code>  If this sequence is not followed as documented above in the input file, the internal material number will not be mapped into the TraceLink system and no error will be thrown. The following qualifiers have been defined by GS1 as additional trade item types: <code>MANUFACTURER_PART_NUMBER</code> = Internal material number <code>FDA_NDC_11</code> = US NDC542 <code>DIN</code> = Canada Drug ID Number <code>PHARMACODE_CH</code> = Swiss Pharma Code <code>NAN</code> = Nordic Article Number To identify these material number types, use attribute @id string: <code>urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode.</code> For all other country drug code types, use attribute @id string: <code>http://epcis.tracelink.com/mda/additionalTradeItemIdentificationTypeCode.</code> See the CountryDrugCode enumeration list for valid values.

¹FDA_NDC_11

Data Element										Occurs Length	Type	Description
									@id	1...1 0/*	String	Required. Id attribute identifying internal material code. Valid values: ¹ <code>urn:epcglobal:cbv:mda#additionalTradeItemIdentification</code> (GS1 enums). <code>http://epcis.tracelink.com/mda/packageTypeCode</code> (TraceLink enums).
EPCISBody										1...1 -	-	Required. Contains all of the EPCIS events for this message.
		EventList								1...1 -	-	Required. The EventList includes the following events: ObjectEvent (1 or more for commissioning) ObjectEvent (0 or more for decommissioning) ObjectEvent (0 or more for destroying) AggregationEvent (0 or more for aggregation) ObjectEvent (1 for product release) - Transformation Event  The order of events is not enforced by the schema.
		choice%1								1...* -	-	Required. Only one of the following choice options may be selected in any one loop on EPCISBody EventList : AggregationEvent ObjectEvent (with commissioning extensions) ObjectEvent (with decommissioning extensions) ObjectEvent (with destroying extensions) ObjectEvent (with product release extensions)
		ObjectEvent								0...* -	-	Choice 1 for EventList . Data = ObjectEvent for the Commissioning Events. EventList = ObjectEvent Commissioning when all of the following is true: action = <code>ADD</code> bizStep = <code>urn:epcglobal:cbv:bizstep:commissioning</code> disposition = <code>urn:epcglobal:cbv:disp:active</code>

¹urn:epcglobal:cbv:mda#additionalTradeItemIdentification

Data Element				Occurs Length	Type	Description
			eventTime	1...1 1/*	DateTime	Required. Timestamp of date/time when the event occurred. Must include a time zone indicator as specified in Section 9.5 of [EPCIS1.0.1] in XML datetime format YYYY-MM-DDTHH:MM:SS.mmZ. ¹
			recordTime	0...1 0/*	dateTime	Not used.
			eventTimeZoneOffset	1...1 1/*	String	Required. Time zone offset in effect at time and place where the event occurred, consistent with what choice was made for eventTime . Per Section 7.2.8 of [EPCIS1.0.1]. ²
			epcList	1...1 -	-	Required. The EPCs of each item, case, and/or pallet commissioned.
			epc	1...* 1/*	String	Required. The EPC identifier in EPC Pure Identity URI format: ³ CN EDMC: • <a href="http://epcis.tracelink.com/hc/cn-edmc/obj/<serial number>">http://epcis.tracelink.com/hc/cn-edmc/obj/<serial number> • Ex: http://epcis.tracelink.com/hc/cn-edmc/obj/88102301100002005943 SGTIN: • <a href="urn:epc:id:sgtin:<company prefix>.<indicator digit + item reference>.<serial number>">urn:epc:id:sgtin:<company prefix>.<indicator digit + item reference>.<serial number> • Ex: urn:epc:id:sgtin:068202.0401034.11220207026272 SSCC: • <a href="urn:epc:id:sscc:<company prefix>.<extension digit + serial number>">urn:epc:id:sscc:<company prefix>.<extension digit + serial number> • Ex: urn:epc:id:sscc:030944.10105363280
			action	1...1 0/*	String	Required. The action value must equal ADD . ⁴
			bizStep	0...1 0/*	AnyURI	Required. The bizStep value must equal urn:epcglobal:cbv:bizstep:commissioning . ⁵

¹2016-10-01T22:08:02Z²-04:00³<urn:epc:id:sgtin:088202.5503022.100000000670>, <urn:epc:id:sscc:088202.002000000034>, <http://epcis.tracelink.com/obj/cn-edmc/88102321100002005943>, <http://epcis.tracelink.com/obj/ntin/4150.001647778.100000000002>⁴ADD⁵<urn:epcglobal:cbv:bizstep:commissioning>

Data Element					Occurs Length	Type	Description
				disposition	0...1 0/*	AnyURI	Required. The disposition value must equal <code>urn:epcglobal:cbv:disp:active</code> . ¹
				readPoint	0...1 -	-	The location where the commissioning event occurred. i To represent the facility where the commissioning event occurred, only use the SGLN representation. If no subLocation, third segment = 0. Optional for a commissioning event.
				id	1...1 0/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ² See the MDPartyTypeAttributes enumeration list for valid values.
				bizLocation	1...1 -	-	Required. Mandatory for a commissioning event.
				id	1...1 1/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ³
				extension	0...1 -	-	Main extension body for commission event.
				ilmd	0...1 -	-	Instance lot master data specific to product being commissioned.
				cbvmdata:lotNumber	0...1 0/*	String	The lot or batch code for the serialized item in an alphanumeric string. ⁴
				cbvmdata:itemExpirationDate	0...1 0/*	Date	The expiration date for the serialized item, formatted in YYYY-MM-DD format. ⁵
				tl:commissionEventExtensions	0...1 -	-	Extensions used for Commission ObjectEvent .

¹urn:epcglobal:cbv:disp:active²urn:epc:id:sgln:0614141.12345.RP1³urn:epc:id:sgln:0614141.12345.1400⁴ABC123⁵2017-12-31

Data Element							Occurs Length	Type	Description
						tl:filterValue	0...1 -	Integer	tl:filterValue is used only if it is mandatory by a trade partner to convert SSCC to GS1 HEX or Tag URI format. See the FilterValue enumeration list for valid values.
						tl:packagingLevel	0...1 0/*	String	The packaging level of the commissioned item using the supported enumeration values.¹  To be GS1 EPCIS-conformant, send this value in the VocabularyElement master data, unless current item has an SSCC code with associated product master data (i.e. homogenous pallet).  If packagingLevel is missing from both the VocabularyElement and commissioning event extensions, an error will be thrown. See the PackagingLevel enumeration list for valid values.
						tl:epcAttributes	0...* -	-	Supports optional inclusion of human readable barcode content associated with each epc number in a commission event.  Included only if provided in original commission event.
						@epc	1...1 1/*	String	Required. The EPC serial number to which the tl:barcodeContent is associated. The epc must be an EPC Pure Identity URI as specified in Section 6 of [TDS1.5].² - Item: SGTIN - Case: SGTIN or SSCC - Pallet: SSCC
						tl:barcodeContent	1...1 1/*	String	Required. The human readable barcode contents encoded in the 2D barcode WITH parentheses for the AI keys. ³
						tl:plantLocationId	0...1 0/*	String	Identifier of plant where products were commissioned. ⁴
						tl:productionLineId	0...1 1/*	String	Identifier of production line where products were commissioned. ⁵

¹EA²urn:epc:id:sgtin:068202.0401034.11220207026272³(01)50682020401034(21)11220207026272(17)170731(10)A312101(7004)0120⁴0614141.12345.1400⁵PW003

Data Element							Occurs Length	Type	Description
						tl:lineManagerName	0...1 0/*	String	Name of the person responsible as the production line manager for the commissioned products. ¹
						tl:internalMaterialCode	0...1 0/*	String	Internal material number for the product in the Pharmaceutical Manufacturer's internal systems (e.g. ERP). ² <i>i</i> To be GS1 EPCIS-conformant, send this value in the VocabularyElement master data, unless current item has an SSCC code with associated product master data (i.e. homogeneous pallet).
						tl:packagingItemCode	1...1 1/*	String	The product code for the commissioned item (e.g. GTIN-14). ³
						@type	1...1 1/*	String	Conditionally required if tl:packagingItemCode is populated. The product code type. Valid values: ⁴ - CN-RESCODE - GTIN-14 - NTIN See the ItemCode enumeration list for valid values.
						tl:countryDrugCode	0...1 0/*	String	The national drug code for the commissioned item (e.g. NDC number for US products). ⁵ <i>i</i> To be GS1 EPCIS-conformant, send this value in the VocabularyElement master data, unless current item has an SSCC code with associated product master data (i.e. homogeneous pallet).
						@type	0...1 0/*	String	The national drug code type using the supported enumeration values and any formatting instructions provided. ⁶ <i>i</i> To be GS1 EPCIS-conformant, send this value in the VocabularyElement master data, unless current item has an SSCC code with associated product master data (i.e. homogeneous pallet). See the CountryDrugCode enumeration list for valid values.

¹John Smith²100234³50300694220667⁴GTIN-14⁵0069-4220-66⁶US_NDC442

Data Element						Occurs Length	Type	Description
					tl:manufacturingDate	0...1 0/10	Date	The date of manufacture for the serialized item, formatted in YYYY-MM-DD format. ¹
					tl:extensionField	0...* -	-	Customer extension point to pass in 1 or more name/value pairs containing additional data attributes not already supported in this message. If this element group is populated both tl:fieldName and tl:fieldValue must be populated. These extensions are not stored by TraceLink and are used only for outbound mapping purposes when there is a requirement to provide additional data to a trade partner for this message, such as when a CMO is required to provide additional data fields to the brand owner. In this case, TraceLink would have a custom map for that trade partner to map these fields outbound. Different trade partners may have different field requirements and may therefore require that tl:extensionField be populated differently per trade partner.
					tl:fieldName	1...1 1/*	String	Conditionally required if the tl:extensionField element group is populated. Populate with the field name provided by the trade partner that will be receiving the mapped outbound message. The field name must match the field name provided by the trade partner exactly, including case, so it is properly detected in the outbound mapping.
					tl:fieldValue	1...1 1/*	String	Conditionally required if the tl:extensionField element group is populated. Populate with the field value content that corresponds to tl:fieldName .
				ObjectEvent		0...* -	-	ObjectEvent describing decommissioning events. EventList = ObjectEvent Decommissioning when all of the following is true: action = DELETE bizStep = urn:epcglobal:cbv:bizstep:decommissioning disposition = urn:epcglobal:cbv:disp:inactive
				eventTime		1...1 1/*	DateTime	Required. Timestamp of date/time when the event occurred. Must include a time zone indicator as specified in Section 9.5 of [EPCIS1.0.1] in XML datetime format YYYY-MM-DDTHH:MM:SS.mmZ. ²
				eventTimeZoneOffset		1...1 1/*	String	Required. Time zone offset in effect at time and place where the event occurred, consistent with what choice was made for eventTime . Per Section 7.2.8 of [EPCIS1.0.1]. ³
				epcList		1...1 -	-	Required. The EPCs of each item, case, and/or pallet decommissioned.
				epc		1...* 1/*	String	Required. The EPC identifier in EPC Pure Identity URI format: ⁴ CN EDMC:

¹2016-12-18²2017-01-30T08:30:21.32Z³-04:00⁴urn:epc:id:sgtin:068202.0401034.11220207026272, urn:epc:id:sscc:030944.10105363280, http://epcis.tracelink.com/obj/cn-edmc/88102321100002005943

Data Element					Occurs Length	Type	Description
							<a href="http://epcis.tracelink.com/hc/cn-edmc/obj/<serial number>">http://epcis.tracelink.com/hc/cn-edmc/obj/<serial number> - Ex: http://epcis.tracelink.com/hc/cn-edmc/obj/88102301100002005943 SGTIN: <a href="urn:epc:id:sgtin:<company prefix>.<indicator digit + item reference>.<serial number>">urn:epc:id:sgtin:<company prefix>.<indicator digit + item reference>.<serial number> - Ex: urn:epc:id:sgtin:068202.0401034.11220207026272 SSCC: <a href="urn:epc:id:sscc:<company prefix>.<extension digit + serial number>">urn:epc:id:sscc:<company prefix>.<extension digit + serial number> - Ex: urn:epc:id:sscc:030944.10105363280
			action		1...1 0/*	String	Required. The action value must equal DELETE . ¹
			bizStep		0...1 0/*	AnyURI	Required. The bizStep value must equal urn:epcglobal:cbv:bizstep:decommissioning . ²
			disposition		0...1 0/*	AnyURI	Required. The disposition value must equal urn:epcglobal:cbv:disp:inactive . ³
			readPoint		1...1 -	-	Required. Location where event occurred. Defined with GS1-conformant party identifier types with full urn or http prefix. SGLN is strongly preferred but other party types supported as well. Links to location party address data if present in VocabularyElement @id. If does not link to location identifier in VocabularyElement @id, readPoint used for master data lookup.
			id		1...1 0/*	AnyURI	Required. This location identifier links to the VocabularyElement @id if the location address info is populated in the EPCISMasterData header extension. If the location address is not present in VocabularyElement , the TraceLink system uses this identifier for master data lookup. ⁴ See the MDPartyTypeAttributes enumeration list for valid values.
			bizLocation		1...1 -	-	The location where the event occurred.
			id		1...1	AnyURI	The SGLN EPC of the location of where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier.

¹DELETE²<urn:epcglobal:cbv:bizstep:decommissioning>³<urn:epcglobal:cbv:disp:inactive>⁴<urn:epc:id:sgln:0614141.12345.1400>

Data Element					Occurs Length	Type	Description
					0...1 -	-	Conditionally required if at least one Target Market in Product Master Data = RU . Business transaction list group.
					1...* 0/*	AnyURI	Conditionally required if at least one Target Market in Product Master Data = RU . The transaction identifier associated with the released product. ¹
					1...1 1/*	String	Required. The transaction identifier type. Valid values: http://epcis.tracelink.com/hc/btt/destruction http://epcis.tracelink.com/hc/btt/removal urn:epcglobal:cbv:btt:rma  If at least one Target Market in Product Master Data = RU, one instance of bizTransaction @type with a value of http://epcis.tracelink.com/hc/btt/removal must be present.
					0...1 0/*	Date	Conditionally required if at least one Target Market in Product Master Data = RU . Transaction identifier date attribute in XML YYYY-MM-DD format. ²
					0...1 -	String	Serialized Operations Manager External Partner Location identifier. Type of identifier defined by @type enum below. ³ When transactions are submitted by an external Serialized Operations Manager Partner, the system uses the subscriber company integration user to perform the action and log this in the audit trail so that all transactions executed by the external Serialized Operations Manager Partner are attributed to that company.
					1...1 1/*	String	Conditionally required if locationId is populated. Attribute identifies the location types. See the LocationIdType enumeration list for valid values. ⁴
					0...1 -	-	Extensions used for ObjectEvent Decommissioning.
					0...1 0/*	Date	Date associated with the business transaction document in bizTransactionList in XML date format YYYY-MM-DD. This date may or may not be the same as the eventTime . ⁵

¹urn:epcglobal:cbv:bt:0333331013655:45006290016²2019-04-01³8888882028677⁴GLN⁵2017-01-31

Data Element					Occurs Length	Type	Description
				tl:disaggregateFromParent	0...1 -	Boolean	When set to true , instructs back end to disaggregate a serial number from its parent container (if it is aggregated) when setting the PackagingSerialNumberStatus of the serial number to DECOMMISSIONED or DESTROYED . ¹ If not set, or set to false , the back end operates in default mode, which is to generate an error when attempting to change the status of a serial number aggregated to a parent container. If source is not populated, target defaults to false .
				tl:marketCountryCode	0...1 0/2	String	Market country code. ²
				tl:businessPartyInfo	0...1 -	-	The address of the authorizing party for the decommissioning event. The readPoint contains the location.
				tl:businessId	0...* 0/*	String	The identifier associated with the authorizing party.
				@type	0...1 0/*	String	The type of the BusinessId identifier.
				tl:businessClassification	0...1 0/*	String	The classification of the business.
				tl:BusinessPartyDetail	0...1 -	-	Business name and address of the authorizing business entity.
				tl:businessName	1...1 0/*	String	Required. Business name of the entity that is authorizing the decommission of the serial numbers.
				tl:street1	1...1 0/*	String	Required. First line of the address for the company indicated in tl:businessName .
				tl:street2	0...1 0/*	String	Second line of the address for the company indicated in tl:businessName .
				tl:city	1...1 0/*	String	Required. City for the company indicated in tl:businessName .
				tl:village	0...1 0/*	String	Name of the village in which the company is located.
				tl:houseNumber	0...1	String	Building, house, or unit number of the company. House numbers are usually only separated from the street address in China.

¹false²US

Data Element							Occurs Length	Type	Description
									For all addresses outside of China, continue to enter the building, house, or unit number in tl:street1 .
						tl:township	0...1 0/*	String	Name of the township in which the company is located.
						tl:district	0...1 0/*	String	District code.  Must be a 3-digit numeric code.
						tl:stateOrRegion	1...1 0/*	String	Required. The state, province, or region of the business entity indicated in the businessName field, using the standard two-letter abbreviation specified in the ISO 3166-2:1998 country subdivision code.
						tl:postalCode	0...1 1/*	String	Postal code for the company indicated in tl:businessName .
						tl:country	1...1 0/*	String	Required. The country where the company indicated in the businessName field is located. The country uses the standard two-letter abbreviation specified in the ISO 3166-1alpha-2:1997 country code. See the ISOCountryCode enumeration list for valid values.
						tl:corporateFax	0...1 1/*	String	Company fax number.
						tl:addressObjectGUID	0...1 0/36	String	The global identifier assigned by the Russian Federation Information Address System (FIAS). ¹  Maximum of 36 characters, using the digits 0-9 and letters A-F
						tl:houseGUID	0...1 0/36	String	The global house identifier assigned by the Russian Federation Information Address System (FIAS). ²  Maximum of 36 characters, using the digits 0-9 and letters A-F
						tl:taxRegistrationCode	0...1 0/*	String	The code used to identify this entity for tax or other legal reporting purposes (e.g. a Russia KPP Registration Code).
						tl:premisesCode	0...1 0/*	String	Identifier representing a physical area within the company location (e.g. a location's second floor).

¹19406454-0022-000C-00B0-000000000152²986f2934-be05-438f-A30E-c15b90e15dbc

Data Element					Occurs Length	Type	Description
				tl:warehouseOperatorName	0...1 0/*	String	Name of the person responsible for warehouse operations. ¹
				tl:decommissionReasonCode	0...1 0/*	String	Conditionally required if at least one Target Market in Product Master Data = RU . Reason code for decommissioning. ² See the DecommissionReasonCode enumeration list for valid values.
				tl:reasonDescription	0...1 0/*	String	Description for decommission reason code. ³
				tl:destructionMethod	0...1 0/*	String	Conditionally required if at least one Target Market in Product Master Data = RU . Method of destruction. ⁴ See the DestructionMethod enumeration list for valid values.
			ObjectEvent		0...* -	-	ObjectEvent recording destroying events. EventList = ObjectEvent Destroy when all of the following is true: • action = DELETE • bizStep = urn:epcglobal:cbv:bizstep:destroying • disposition = urn:epcglobal:cbv:disp:destroyed
				eventTime	1...1 1/*	DateTime	Required. Timestamp of date/time when the event occurred. Must include a time zone indicator as specified in Section 9.5 of [EPCIS1.0.1] in XML datetime format YYYY-MM-DDTHH:MM:SS.mmZ. ⁵
				eventTimeZoneOffset	1...1 1/*	String	Required. Time zone offset in effect at time and place where the event occurred, consistent with what choice was made for eventTime . Per Section 7.2.8 of [EPCIS1.0.1]. ⁶
				epcList	1...1 -	-	Required. The EPCs of each item, case, and/or pallet commissioned.
				epc	1...* 1/*	String	Required. The EPC identifier in EPC Pure Identity URI format: ⁷ CN EDMC: • http://epcis.tracelink.com/hc/cn-edmc/obj/<serial number> • Ex: http://epcis.tracelink.com/hc/cn-edmc/obj/88102301100002005943

¹John Smith²PRODUCTION_DEFECT³Defect from production⁴LIQUID_DILUTION_DRAINAGE⁵2017-01-30T08:30:21.32Z⁶-04:00⁷urn:epc:id:sgtin:068202.0401034.11220207026272, urn:epc:id:sscc:030944.10105363280, http://epcis.tracelink.com/obj/cn-edmc/88102321100002005943

Data Element					Occurs Length	Type	Description
							SGTIN: <code>urn:epc:id:sgtin:<company prefix>.<indicator digit + item reference>.<serial number></code> - Ex: <code>urn:epc:id:sgtin:068202.0401034.11220207026272</code> SSCC: <code>urn:epc:id:sscc:<company prefix>.<extension digit + serial number></code> - Ex: <code>urn:epc:id:sscc:030944.10105363280</code>
				action	1...1 0/*	String	Required. The action value must equal <code>DELETE</code> . ¹
				bizStep	0...1 0/*	AnyURI	The bizStep value must equal <code>urn:epcglobal:cbv:bizstep:destroying</code> . ²
				disposition	0...1 0/*	AnyURI	The disposition value must equal <code>urn:epcglobal:cbv:disp:destroyed</code> . ³
				readPoint	1...1 -	-	Required. Location where event occurred. Defined with GS1-conformant party identifier types with full urn or http prefix. SGLN is strongly preferred but other party types supported. Links to location party address data if present in VocabularyElement @id . If does not link to location identifier in VocabularyElement @id , readPoint used for master data lookup.
				id	1...1 0/*	AnyURI	Required. The party identifier of the location where the decommissioning event occurred. SGLN is strongly preferred for GS1 conformance. This may be a site-level SGLN, or a finer-grain location identifier. ⁴ GS1-conformant supported prefixes are listed in MDPartyTypeAttributes lookup. See the MDPartyTypeAttributes enumeration list for valid values.
				bizLocation	0...1 -	-	The location where the event occurred.
				id	1...1 1/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ⁵

¹DELETE²`urn:epcglobal:cbv:bizstep:decommissioning`³`urn:epcglobal:cbv:disp:inactive`⁴`urn:epc:id:sgln:0614141.12345.1400`⁵`urn:epc:id:sgln:0614141.12345.1400`

Data Element				Occurs Length	Type	Description
			bizTransactionList	0...1 -	-	Conditionally required if at least one Target Market in Product Master Data = RU . Business transaction list group.
			bizTransaction	1...* 0/*	AnyURI	Conditionally required if at least one Target Market in Product Master Data = RU . The transaction identifier associated with the destroyed product. ¹
			@type	1...1 1/*	String	Required. The transaction identifier type. Valid values: http://epcis.tracelink.com/hc/btt/destruction http://epcis.tracelink.com/hc/btt/removal urn:epcglobal:cbv:btt:rma  If at least one Target Market in Product Master Data = RU, one instance of bizTransaction @type with a value of http://epcis.tracelink.com/hc/btt/removal must be present.
			@date	0...1 0/*	Date	Conditionally required if at least one Target Market in Product Master Data = RU . Transaction identifier date attribute in XML YYYY-MM-DD format. ²
			tl:locationId	0...1 -	String	Serialized Operations Manager External Partner Location identifier. Type of identifier defined by enum below. When messages are submitted by an external Serialized Operations Manager Partner, the system uses the partner company integration user to perform the action. This is logged in the audit trail so that all messages executed by the external Serialized Operations Manager Partner are attributed to that company. ³
			@type	1...1 1/*	String	Conditionally required if tl:locationId is populated. Attribute identifies the location types. ⁴ See the MessagePartyIDType enumeration list for valid values.
			tl:destroyEventExtensions	0...1 -	-	Extensions used for ObjectEvent Destroying.
			tl:transactionDate	0...1 0/*	Date	Date associated with the business transaction document in bizTransactionList in XML date format YYYY-MM-DD. This date may or may not be the same as the eventTime . ⁵

¹urn:epcglobal:cbv:bt:0333331013655:45006290016²2019-04-01³8888882028677⁴GLN⁵2017-02-18

Data Element					Occurs Length	Type	Description
				tl:disaggregateFromParent	0...1 -	Boolean	When set to true , instructs back end to disaggregate a serial number from its parent container (if it is aggregated) when setting the PackagingSerialNumberStatus of the serial number to DECOMMISSIONED or DESTROYED . ¹ If not set, or set to false , the back end operates in default mode, which is to generate an error when attempting to change the status of a serial number aggregated to a parent container. If source is not populated, target defaults to false .
				tl:marketCountryCode	0...1 0/2	String	Market country code. ²
				tl:businessPartyInfo	0...1 0/*	-	Authorizing party information for the destroying event.
				tl:businessId	1...* 0/*	String	Required. Identifier associated with the authorizing business entity.
				@type	1...1 0/*	String	Required. The business identifier type. See the BusinessAndLocationId enumeration list for valid values.
				tl:businessClassification	0...1 0/*	String	The classification of the business. See the BusinessClassification enumeration list for valid values.
				tl:BusinessPartyDetail	0...1 -	-	Business name and address of the authorizing business entity.
				tl:businessName	1...1 0/*	String	Required. Business name of the entity that is authorizing the destruction of the serial numbers.
				tl:street1	1...1 0/*	String	Required. First line of the address for the company indicated in tl:businessName .
				tl:street2	0...1 0/*	String	Second line of the address for the company indicated in tl:businessName .
				tl:city	1...1 0/*	String	Required. City for the company indicated in tl:businessName .
				tl:village	0...1 0/*	String	Name of the village in which the company is located.
				tl:houseNumber	0...1	String	Building, house, or unit number of the company. House numbers are usually only separated from the street address in China.

¹false²US

Data Element							Occurs Length	Type	Description
									For all addresses outside of China, continue to enter the building, house, or unit number in tl:street1 .
						tl:township	0...1 0/*	String	Name of the township in which the company is located.
						tl:district	0...1 0/*	String	District code.  Must be a 3-digit numeric code.
						tl:stateOrRegion	1...1 0/*	String	Required. The state, province, or region of the business entity indicated in the businessName field, using the standard two-letter abbreviation specified in the ISO 3166-2:1998 country subdivision code.
						tl:postalCode	0...1 1/*	String	Postal code for the company indicated in tl:businessName .
						tl:country	1...1 0/*	String	Required. The country where the company indicated in the businessName field is located. The country uses the standard two-letter abbreviation specified in the ISO 3166-1alpha-2:1997 country code. See the ISOCountryCode enumeration list for valid values.
						tl:corporateFax	0...1 1/*	String	Company fax number.
						tl:addressObjectGUID	0...1 0/36	String	The global identifier assigned by the Russian Federation Information Address System (FIAS). ¹  Maximum of 36 characters, using the digits 0-9 and letters A-F
						tl:houseGUID	0...1 0/36	String	The global House identifier assigned by the Russian Federation Information Address System (FIAS). ²  Maximum of 36 characters, using the digits 0-9 and letters A-F
						tl:taxRegistrationCode	0...1 0/*	String	The code used to identify this entity for tax or other legal reporting purposes (e.g. a Russia KPP Registration Code).
						tl:premisesCode	0...1 0/*	String	Identifier representing a physical area within the company location (e.g. a location's second floor).

¹19406454-0022-000C-00B0-000000000152²986f2934-be05-438f-A30E-c15b90e15dbc

Data Element					Occurs Length	Type	Description
				tl:warehouseOperatorName	0...1 0/*	String	Name of the person responsible for warehouse operations. ¹
				tl:decommissionReasonCode	0...1 0/*	String	Conditionally required if at least one Target Market in Product Master Data = RU . Reason code for decommissioning. ² See the DecommissionReasonCode enumeration list for valid values.
				tl:reasonDescription	0...1 0/*	String	Description for destroy reason code. ³
				tl:destructionMethod	0...1 0/*	String	Conditionally required if at least one Target Market in Product Master Data = RU . Method of destruction. ⁴ See the DestructionMethod enumeration list for valid values.
			AggregationEvent		0...* -	-	AggregationEvent is option 2 for the EventList choice for the Aggregation events. EventList = AggregationEvent when all of the following is true: action = ADD bizStep = urn:epcglobal:cbv:bizstep:packing disposition = urn:epcglobal:cbv:disp:in_progress
				eventTime	1...1 1/*	DateTime	Required. Timestamp of date/time when the event occurred. Must include a time zone indicator as specified in Section 9.5 of [EPCIS1.0.1] in XML datetime format YYYY-MM-DDTHH:MM:SS.mmZ. ⁵
				eventTimeZoneOffset	1...1 1/*	String	Required. Time zone offset in effect at time and place where the event occurred, consistent with what choice was made for eventTime . Per Section 7.2.8 of [EPCIS1.0.1]. ⁶
				parentID	1...1 1/*	AnyURI	Required. Identifier of the parent container in EPC Pure Identity URI format (e.g. f for an item-to-case aggregation, the EPC of the case. For a case-to-pallet aggregation, the EPC of the pallet). ⁷ CN EDMC: <a href="http://epcis.tracelink.com/hc/cn-edmc/obj/<serial number>">http://epcis.tracelink.com/hc/cn-edmc/obj/<serial number> - Ex: http://epcis.tracelink.com/hc/cn-edmc/obj/88102301100002005943 SGTIN:

¹John Smith²PRODUCTION_DEFECT³Defect from production⁴LIQUID_DILUTION_DRAINAGE⁵2013-10-01T22:10:02Z⁶-04:00⁷urn:epc:id:sgtin:088202.5503022.100000000670, urn:epc:id:sscc:088202.00200000034, <http://epcis.tracelink.com/obj/cn-edmc/88102321100002005943>,<http://epcis.tracelink.com/obj/ntin/4150.001647778.100000000002>

Data Element					Occurs Length	Type	Description
							• <code>urn:epc:id:sgtin:<company prefix>.<indicator digit + item reference>.<serial number></code> • Ex: <code>urn:epc:id:sgtin:068202.0401034.11220207026272</code> SSCC: • <code>urn:epc:id:sscc:<company prefix>.<extension digit + serial number></code> • Ex: <code>urn:epc:id:sscc:030944.10105363280</code>
			childEPCs		1...1 -	-	Required. List of identifiers of the child items in the parent container in EPC Pure Identity URI format (e.g. for an item-to-case aggregation, the EPCs of the items; for a case-to-pallet aggregation, the EPCs of the cases).
			epc		1...* 1/*	String	Required. Serial number expressed in the GS1 Application Identifier format without parentheses for the AI keys. Non-GS1 serial numbers (e.g. China) are expressed in native format. See EPC Pure Identifier Format Examples. Identifier of the child items in the parent container in EPC Pure Identity URI format.¹ CN EDMC: • <code>http://epcis.tracelink.com/hc/cn-edmc/obj/<serial number></code> • Ex: <code>http://epcis.tracelink.com/hc/cn-edmc/obj/88102321100002005943</code> SGTIN: • <code>urn:epc:id:sgtin:<company prefix>.<indicator digit + item reference>.<serial number></code> • Ex: <code>urn:epc:id:sgtin:068202.0401034.11220207026272</code> SSCC: • <code>urn:epc:id:sscc:<company prefix>.<extension digit + serial number></code> • Ex: <code>urn:epc:id:sscc:030944.10105363280</code>
			action		1...1 1/*	String	Required. The action value must equal ADD for the aggregation event. ²
			bizStep		0...1 0/*	AnyURI	The bizStep value must equal <code>urn:epcglobal:cbv:bizstep:packing</code> . ³

¹`urn:epc:id:sgtin:088202.5503022.100000000670`, `urn:epc:id:sscc:088202.002000000034`, `http://epcis.tracelink.com/obj/cn-edmc/88102321100002005943`,
`http://epcis.tracelink.com/obj/ntin/4150.001647778.100000000002`

²ADD

³`urn:epcglobal:cbv:bizstep:packing`

Data Element				Occurs Length	Type	Description
			disposition	0...1 0/*	AnyURI	The disposition value must equal <code>urn:epcglobal:cbv:disp:in_progress</code> . ¹
			readPoint	0...1 -	-	Location where the event occurred.  To represent the facility where the commissioning event occurred, only use the SGLN representation. If no subLocation, third segment = 0. Optional for AggregationEvent.
			id	1...1 0/*	AnyURI	Required. The SGLN EPC of the location of where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ²
			bizLocation	0...1 -	-	Required. The location where the event occurred.
			id	1...1 0/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ³
			tl:aggregationEventExtensions	0...1 -	-	Extensions used for Aggregation Event.
			tl:packedStatus	0...1 0/*	String	The packout of the item or container using the supported enumeration values.⁴ See the PackedStatus enumeration list for valid values.
			tl:quantity	0...1 -	Integer	The quantity of child serial numbers aggregated to the parent container in this aggregation. ⁵
			tl:resetContainerAggregation	0...1 -	Boolean	Reset container aggregation flag. ⁶
			ObjectEvent	1...1 -	-	Required.EventList. Data = ObjectEvent for Product Release Events. EventList = ObjectEvent Product Release when all of the following is true:

¹urn:epcglobal:cbv:disp:in_progress²urn:epc:id:sgln:1100001.12345.0³urn:epc:id:sgln:1100001.12345.0⁴FULL⁵48⁶false

Data Element				Occurs Length	Type	Description
						action = <code>OBSERVE</code> bizStep = <code>urn:epcglobal:cbv:bizstep:releasing</code> disposition = <code>urn:epcglobal:cbv:disp:released</code>
			eventTime	1...1 1/*	DateTime	Required. Timestamp of date/time when the event occurred. Must include a time zone indicator as specified in Section 9.5 of [EPCIS1.0.1] in XML datetime format YYYY-MM-DDTHH:MM:SS.mmZ. ¹
			eventTimeZoneOffset	1...1 1/*	String	Required. Time zone offset in effect at time and place where the event occurred, consistent with what choice was made for eventTime . Per Section 7.2.8 of [EPCIS1.0.1]. ²
			epcList	1...1 -	-	Required. List of the EPCs of top-most containers (e.g. pallets, cases) in the shipment.
			epc	1... 1/*	String	Required. The EPC identifier in EPC Pure Identity URI format. Will not be populated or processed for product release event.
			action	1...1 0/*	String	Required. The action value must equal <code>OBSERVE</code> . ³
			bizStep	0...1 0/*	AnyURI	Required. The bizStep value must equal <code>http://epcis.tracelink.com/bizstep/releasing</code> . ⁴
			disposition	0...1 0/*	AnyURI	Required. The disposition value must equal <code>http://epcis.tracelink.com/disp/released</code> . ⁵
			readPoint	0...1 -	-	Required. Refers to the location of where the commissioning event occurred. <i>ⓘ</i> To represent the facility where the commissioning event occurred, only use the SGLN representation. If no subLocation, third segment = <code>0</code>.
			id	1...1 0/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ⁶ See the MDPartyTypeAttributes enumeration list for valid values.

¹2013-10-01T22:08:02Z²-04:00³OBSERVE⁴urn:epcglobal:cbv:bizstep:releasing⁵urn:epcglobal:cbv:disp:released⁶urn:epc:id:sgln:0614141.12345.RP1

Data Element					Occurs Length	Type	Description
				bizTransactionList	0...1 -	-	Business transaction list group.  If populated, tl:qualityControlEntityId must also be populated.
				bizTransaction	1...* 0/*	AnyURI	The transaction identifier associated with the released product. ¹
				@type	1...1 1/*	String	Required. The transaction identifier type. Valid values: http://epcis.tracelink.com/hc/btt/certificateconformity http://epcis.tracelink.com/hc/btt/civilcirculation http://epcis.tracelink.com/hc/btt/declarationconformity http://epcis.tracelink.com/hc/btt/stateconfirmation
				@date	0...1 0/*	Date	Conditionally required if at least one Target Market in Product Master Data = RU and the lot was commissioned in Russia. Transaction identifier date attribute in XML YYYY-MM-DD format. ²
				extension	0...1 -	-	Main extension body for commission event.
				ilmd	1...1 -	-	Required. Instance lot master data specific to product being commissioned.
				cbvmda:lotNumber	1...1 0/*	String	Required. The lot number associated with the InternalMaterialCode or CountryDrugCode . ³
				tl:commissionEventExtensions	0...1 -	-	Extensions used for Commission ObjectEvent . Not populated in product release event.
				tl:productReleaseEventExtensions	1...1 -	-	Extensions used for TraceLink Product Release event.
				choice%1	1...1 -	-	Required. Only one of the following choice options must be selected: internalMaterialCode countryDrugCode and @type attribute

¹urn:epcglobal:cbv:bt:0333331013655:45006290016²2019-04-01³A12345

Data Element							Occurs Length	Type	Description
									An error will be thrown if neither of the two fields are populated. An error will also be thrown if both of the two option fields are populated.
						tl:internalMaterialCode	0...1 0/*	String	Conditionally required if tl:countryDrugCode is not populated. The internal material number configured in Product Master Data associated with the serialized items that are updated with the Product Release status. Specifying an internal material number will update all serial numbers at all packaging levels (e.g. item, case) that are linked to the internal material number and specified lot number. ¹
						tl:countryDrugCode	0...1 0/*	String	Conditionally required if tl:internalMaterialCode is not populated. The national drug code (e.g. NDC, Swissmedic, PZN, etc.) associated with the serialized items that will be updated with the Product Release status. Specifying a country drug code will update all serial numbers at all packaging levels (e.g. item, case) that are linked to the country drug code and specified lot number.
						@type	1...1 1/*	String	Required. The national drug code type using the supported enumeration values and any formatting instructions provided. See the CountryDrugCode enumeration list for valid values.
						tl:qualityControlEntityId	0...1 0/*	String	Conditionally required if tl:bizTransactionList in the ObjectEvent for Product Release Events is populated, or at least one Target Market in Product Master Data = RU and the lot was commissioned outside of Russia. Business or location identifier for the entity responsible for quality control. ²
						@type	1...1 1/*	String	Required. Business or location type of the quality control entity identifier. ³ See the BusinessAndLocationId enumeration list for valid values.
						tl:productionQty	0...* -	-	Production quantity element group.
						choice1	1...1 -	Choice	Required. Choice element of either tl:packagingItemCode or tl:companyPrefix .
						tl:packagingItemCode	0...1 0/*	String	Conditionally required if tl:companyPrefix is not populated. Option 1 for choice1 . Identifies the product using the packaging level item code configured in Product Master Data. ⁴
						@type	0...1 0/*	String	Required. Packaging item code type. ⁵ See the ItemCode enumeration list for valid values.

¹100234²0882028677010³GLN⁴50300694220667⁵GTIN-14

Data Element							Occurs Length	Type	Description
						tl:companyPrefix	0...1 0/*	String	Conditionally required if tl:packagingItemCode is not populated. Option 2 for choice1 . Identifies the company prefix assigned by GS1 for the released product. ¹
						tl:packagingLevel	1...1 1/*	String	Required. The packaging level of the commissioned item. ² See the PackagingLevel enumeration list for valid values.
						tl:quantityReported	1...1 -	Integer	Required. Reported quantity of the released product. ³
					extension		0...1 -	-	EPCIS body event extension point. Contains the TransformationEvent . TransformationEvent is option 3 in the EventList choice. This extension can appear before or after commissioning event.
					TransformationEvent		0...1 -	-	Use the TransformationEvent to commission repackaged products. It is similar to the CommissioningEvent, but includes source products as input, and the commissioned serial numbers are the output repackaged products. The standard ilmd (instance level master data) captures product attributes, lot, and expiry like in a standard commission event. The TransformationEvent parameters are the same as the CommissioningEvent except there is no action: bizStep = <code>urn:epcglobal:cbv:bizstep:commissioning</code> (optional). disposition = <code>urn:epcglobal:cbv:disp:active</code> (optional).  The source and repackaged products can only be primaries or eaches. Cases and innerpacks not permitted.
					eventTime		1...1 1/*	DateTime	Required. The date/time when the disposition assigned occurs with a time zone indicator as specified in Section 9.5 of (EPCIS1.0.1) in XML datetime format : YYYY-MM-DDTHH:MM:SS.mmZ. ⁴
					recordTime		0...1 0/*	DateTime	Not used.
					eventTimeZoneOffset		1...1 1/*	String	Required. The time zone offset in effect at time and place where the disposition assigned occurred, consistent with what choice was made for eventTime. Per Section 7.2.8 of [EPCIS1.0.1]. ⁵
					inputEPCList		0...1 -	-	Conditionally required if inputQuantityList is missing. The input EPC is the serial number of the source product that is transformed.

¹503006²EA³100⁴2017-03-29T22:10:02.31Z⁵-04:00

Data Element					Occurs Length	Type	Description
							Only primaries or eaches are allowed in Transformation Event EPC lists. One of either inputEPCList or inputQuantityList is mandatory. If both groups are missing, an error will be thrown. Both groups can be present.
				epc	0...* 1/*	String	Required. The EPC identifier in EPC Pure Identity URI format. Only SGTIN and NTIN supported as Transformation input.¹ SGTIN: - Format: <code>urn:epc:id:sgtin:<company prefix>.<indicator digit + item reference>.<serial number></code> - Example: <code>urn:epc:id:sgtin:068202.0401034.11220207026272</code>
				inputQuantityList	0...1 -	-	Conditionally required if inputEPCList is missing. Specifies non-serialized source products with packaging product code, lot number, and quantity. - For GTIN-based source product, GTIN + Lot is expressed as: <code>urn:epc:class:lgtn:030000.0000001.L12345</code> - For NTIN-based source product, NTIN + Lot is expressed as: <code>http://epcis.tracelink.com/hc/Intin/class/4150.001647778.L12345</code> The source products can only reference GTINs and NTINs for primaries or eaches. Cases and innerpacks not permitted. One of either inputEPCList or inputQuantityList is mandatory. If both groups are missing, an error will be thrown. Both groups may be present.
				quantityElement	1...* -	-	Required. Identifies a quantity of source products that are identified by a specific class-level 940 identifier in urn format.
				epcClass	1...1 1/*	String	Required. A class-level identifier for the source product in the inputQuantityList for which the quantity is provided.² Format: <code>urn:epc:idpat:ObjectIdentifierType:CompanyPrefix.ItemRefAndIndicator.*</code> For GTIN-based source product, GTIN + Lot is expressed as:

¹urn:epc:id:sgtin:030000.0000001.100000001020 http://epcis.tracelink.com/obj/ntin/4150.001647778.100000000002

²urn:epc:class:lgtn:030000.0000001.L12345

Data Element							Occurs Length	Type	Description
									<code>urn:epc:class:lgtn:030000.0000001.L12345</code> For NTIN-based source product, NTIN + Lot is expressed as: <code>http://epcis.tracelink.com/hc/lntin/class/4150.001647778.L12345</code>
					quantity		1...1 -	Integer	Required. A number that specifies how many or how much of the specified epcClass is denoted by this quantityElement . ¹
					uom		0...1 0/*	String	Unit of measure for the epcClass quantity.
					outputEPCList		1...1 -	-	Required. Provides the epc serial number for the transformed product. outputEPCList is mandatory if Transformation Event is populated. <i>i</i> Only primaries or eaches are allowed in Transformation Event EPC lists.
					epc		1...* 1/*	String	Required. Identifier of the child items in the parent container in EPC Pure Identifier URI format as specified in Section 6 of [TDS1.5]. ² CN EDMC: - Format: <code>http://epcis.tracelink.com/hc/cn-edmc/obj/<serial number></code> - Example: <code>http://epcis.tracelink.com/hc/cn-edmc/obj/88102301100002005943</code> SGTIN: - Format: <code>urn:epc:id:sgtin:<company prefix>.<indicator digit + item reference>.<serial number></code> - Example: <code>urn:epc:id:sgtin:068202.0401034.11220207026272</code> SSCC: - Format: <code>http://epcis.tracelink.com/hc/ntin/obj/<company prefix>.<item reference>.<serial number></code> - Example: <code>http://epcis.tracelink.com/hc/ntin/obj/4150.001647778.100000000002</code>
					transformationID		0...1 0/*	AnyURI	An identifier that links this event to other Transformation Events using an identical transformationID value. When specified, all inputs to all events sharing the same value of the transformationID may contribute to all outputs of all events sharing that value of transformationID .

¹10²urn:epc:id:sgtin:088202.5503022.100000000670 urn:epc:id:sscc:088202.002000000034 <http://epcis.tracelink.com/hc/cn-edmc/obj/88102301100002005943><http://epcis.tracelink.com/hc/ntin/obj/4150.001647778.100000000002>

Data Element					Occurs Length	Type	Description
				bizStep	0...1 0/*	AnyURI	The bizStep value must be set to <code>urn:epcglobal:cbv:bizstep:commissioning</code> . ¹
				disposition	0...1 0/*	AnyURI	The disposition value must be set to <code>urn:epcglobal:cbv:disp:active</code> . ²
				readPoint	0...1 -	-	Not used in Transformation Event.
				id	0...1 0/*	AnyURI	Not used in Transformation Event. ³
				bizLocation	1...1 -	-	Required. Refers to the location of the product after the Transformation Event has occurred.
				id	1...1 1/*	AnyURI	Required. The SGLN EPC of the location from where the commissioning occurred. This may be a site-level SGLN or a finer-grain location identifier. ⁴
				bizTransactionList	0...* 1/*	String	An unordered list of 0 or more business transactions that define the context of this event.
				ilmd	0...1 -	-	Instance lot master data specific to product being commissioned.
				cbvmdata:lotNumber	0...1 1/*	String	Required. The lot number associated with the tl:internalMaterialCode , tl:packagingItemCode , or tl:countryDrugCode specified above that is used to identify the serial numbers that will be updated. ⁵
				cbvmdata:itemExpirationDate	0...1 0/*	Date	The expiration date for the serialized item in YYYY-MM-DD format. ⁶
				tl:commissionEventExtensions	0...1 -	-	Required. Extensions used for Commission ObjectEvent .
				tl:filterValue	0...1 -	Integer	Not used.

¹urn:epcglobal:cbv:bizstep:commissioning²urn:epcglobal:cbv:disp:active³urn:epc:id:sgln:7777776.67345.0⁴urn:epc:id:sgln:7777776.67345.0⁵L120012⁶2019-12-31

Data Element							Occurs Length	Type	Description
						tl:packagingLevel	1...1 0/*	String	Conditionally required for GS1 EPCIS conformance. The packaging level of the commissioned item using the supported enumeration values. Valid value: EA = Each¹  To be GS1 EPCIS-conformant, send this value in the VocabularyElement master data, unless current item has an SSCC code with associated product master data.
						tl:epcAttributes	0...* -	-	Supports optional inclusion of human readable barcode content associated with each epc number in a commission event. Only included if provided in original commission event.
						@epc	1...1 1/*	String	The EPC serial number to which the tl:barcodeContent is associated. The epc must be an EPC Pure Identity URI as specified in Section 6 of [TDS1.5]. Valid value: SGTIN ²
						tl:barcodeContent	1...1 0/*	String	The human readable barcode contents encoded in the 2D barcode with parenthesis for the AI keys. ³
						tl:plantLocationId	0...1 0/*	String	Identifier of plant where products are commissioned. ⁴
						tl:productionLineId	0...1 1/*	String	Identifier of production line where products are commissioned. ⁵
						tl:lineManagerName	0...1 0/*	String	Name of the person responsible as the production line manager for the commissioned products. ⁶
						tl:companyPrefix	0...1 0/*	String	The GS1 Company Prefix.
						tl:internalMaterialCode	0...1 0/*	String	Conditionally required for GS1 EPCIS conformance. Internal material number for the product in the Pharmaceutical Manufacturer's internal systems (e.g. ERP). ⁷

¹EA²urn:epc:id:sgtin:088202.0503022.100000001020³(01)00882025030223(21)100000001020(17)190331(10)L120012⁴M0034⁵L009⁶John Smith⁷11002541210

Data Element							Occurs Length	Type	Description
									i To be GS1 EPCIS-conformant, send this value in the VocabularyElement master data, unless current item has an SSCC code with associated product master data.
						tl:packagingItemCode	0...1 0/*	String	Conditionally required for GS1 EPCIS conformance. The product code for the commissioned item (e.g. GTIN-14).¹ i To be GS1 EPCIS-conformant, send this value in the VocabularyElement master data, unless current item has an SSCC code with associated product master data.
						@type	1...1 1/*	String	Conditionally required if tl:packagingItemCode is populated. The product code type. Valid values:² - GTIN - 14 - NTIN
						tl:countryDrugCode	0...1 0/*	String	Conditionally required for GS1 EPCIS conformance. The national drug code for the commissioned item (e.g. NDC number for US products).³ i To be GS1 EPCIS-conformant, send this value in the VocabularyElement master data, unless current item has an SSCC code with associated product master data.
						@type	1...1 1/*	String	Conditionally required if tl:countryDrugCode is populated. The national drug code type using the supported enumeration values and any formatting instructions provided.⁴ i To be GS1 EPCIS-conformant, send this value in the VocabularyElement master data, unless current item has an SSCC code with associated product master data. See the CountryDrugCode enumeration list for valid values.
						tl:manufacturingDate	0...1 0/10	Date	The date of manufacture for the serialized item in YYYY-MM-DD format. ⁵

¹00882025030223²GTIN-14³8202503022⁴US_NDC442⁵2017-03-29

Data Element							Occurs Length	Type	Description
						tl:countryMarket	0...1 0/3	String	Conditionally required for master data reporting for EU countries reporting to EFPIA EMVS Hub. The country using the standard two or three-letter abbreviation specified in ISO 3166-1alpha-2:1997 country code. ¹
						tl:printedExpirationDate	0...1 0/10	Date	Expiration date printed on the label in YYYY-MM-DD format. ²
						tl:referenceDocuments	0...1 -	-	Reference document identifier associated with the commissioning activity.
						tl:poNumber	0...1 0/*	String	PO Number associated with serial number use.
						tl:poLine	0...1 0/*	String	PO Line number.
						tl:workOrderNumber	0...1 0/*	String	Work Order number associated with serial number use.
						tl:referenceIdentifier	0...1 0/*	String	Reference identifier (e.g. any type of identifier) associated with serial number use.
						tl:extensionField	0...* -	-	Customer extension point to supply one or more name/value pairs containing additional data attributes not already supported in this message.  If this element group is populated both tl:fieldName and tl:fieldValue elements must be populated.  These extensions are not stored by TraceLink and are only used for outbound mapping purposes when there is a requirement to provide additional data to a partner for this message, such as when a CMO is required to provide additional data fields to the brand owner. In this case, TraceLink would have a custom map for that partner to map these fields outbound. Different partners may have different field requirements and may therefore require that the ExtensionField be populated differently per trade partner.
						tl:fieldName	1...1 1/*	String	Required. The field name provided by the partner that will be receiving the mapped outbound message. ³

¹US²2017-03-29³POTENCY

Data Element								Occurs Length	Type	Description
										 The field name must match the field name provided by the trade partner exactly, including case, so that it can be properly detected in the outbound mapping.
							tl:fieldValue	1...1 1/*	String	Required. The field value content that corresponds to tl:fieldName . ¹
							extension	0...1 -	-	TransformationEvent extension.
							tl:decommissionSourceProduct	0...1 -	Boolean	When set to true , instructs system to implicitly decommission serial numbers used for repackaging. Saves a step in the repack operation so that separate decommission events do not need to be sent. ²
							tl:registerSourceProduct	0...1 -	Boolean	Triggers registration of serial numbers that are not known to the TraceLink system. Defaults to false if not populated. ³ If value = true , tl:repackInputAttributes element group must be populated.
							tl:repackInputAttributes	0...1 -	-	Conditionally required if cmn:registerSourceProduct = true . Repack input common attributes group with product info for input product.
							cbvmdata:lotNumber	1...1 0/*	String	Required. The lot or batch code for the transformation input product in an alphanumeric string of up to 20 characters. ⁴
							cbvmdata:itemExpirationDate	0...1 0/*	Date	Required. The expiration date for the transformation input product in YYYY-MM-DD format. ⁵

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<epcis:EPCISDocument xmlns:cbvmdata="urn:epcglobal:cbv:mda" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
xmlns:tl="http://epcis.tracelink.com/ns"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader" schemaVersion="1.2"
creationDate="2018-01-31T17:45:20.0Z">
  <EPCISHeader>
```

¹100 MG²true³true⁴B64894⁵2020-04-28

```

<sbdh:StandardBusinessDocumentHeader>
  <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
  <sbdh:Sender>
    <sbdh:Identifier Authority="GLN">0882028677019</sbdh:Identifier>
  </sbdh:Sender>
  <sbdh:Receiver>
    <sbdh:Identifier Authority="GLN">0333331013655</sbdh:Identifier>
  </sbdh:Receiver>
  <sbdh:DocumentIdentification>
    <sbdh:Standard>EPCglobal</sbdh:Standard>
    <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
    <sbdh:InstanceIdentifier>201801311745200001</sbdh:InstanceIdentifier>
    <sbdh:Type>Events</sbdh:Type>
    <sbdh:CreationDateAndTime>2018-01-31T17:45:20.0Z</sbdh:CreationDateAndTime>
  </sbdh:DocumentIdentification>
</sbdh:StandardBusinessDocumentHeader>
<extension>
  <EPCISMasterData>
    <VocabularyList>
      <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
        <VocabularyElementList>
          <VocabularyElement id="urn:epc:idpat:sgtin:0088202.503033.*">
            <attribute id="http://epcis.tracelink.com/mda/packageTypeCode">PX</attribute>
            <!-- Alternative product codes -->
            <!-- InternalMaterialCode -->
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">100335</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">MANUFACTURER_PART_NUMBER</attribute>
            <!-- US_NDC542 -->
            <attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">00069-
4220-66</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</attribute>
            <!-- CH_SWISSMEDIC -->
            <attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">00064-
2206-6</attribute>
            <attribute
id="http://epcis.tracelink.com/mda/additionalTradeItemIdentificationTypeCode">US_NDC541</attribute>
          </VocabularyElement>
        </VocabularyElementList>
      </Vocabulary>
    </EPCISMasterData>
  </extension>

```

```

        </VocabularyElementList>
      </Vocabulary>
    </VocabularyList>
  </EPCISMasterData>
</extension>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <ObjectEvent>
      <eventTime>2018-01-31T00:12:23.8307Z</eventTime>
      <eventTimeZoneOffset>+05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sscc:088202.00200000034</epc>
      </epcList>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
      <disposition>urn:epcglobal:cbv:disp:active</disposition>
      <bizLocation>
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      <eventTimeZoneOffset>+00:00</eventTimeZoneOffset>
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        <epc>urn:epc:id:sgtin:0088202.503033.100000000222</epc>
        <epc>urn:epc:id:sgtin:0088202.503033.100000000225</epc>
      </epcList>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
      <disposition>urn:epcglobal:cbv:disp:active</disposition>
      <bizLocation>
        <id>urn:epc:id:sgln:088202.867701.0</id>
      </bizLocation>
      <extension>
        <ilmd>
          <cbvmdata:lotNumber>L120012</cbvmdata:lotNumber>
          <cbvmdata:itemExpirationDate>2019-03-31</cbvmdata:itemExpirationDate>
          <tl:commissionEventExtensions>

```

```

        <tl:manufacturingDate>2018-01-31</tl:manufacturingDate>
      </tl:commissionEventExtensions>
    </ilmd>
  </extension>
</ObjectEvent>
<ObjectEvent>
  <eventTime>2018-01-31T00:12:25.830Z</eventTime>
  <eventTimeZoneOffset>+00:00</eventTimeZoneOffset>
  <epcList>
    <epc>urn:epc:id:sgtin:0088202.503033.100000001020</epc>
    <epc>urn:epc:id:sgtin:0088202.503033.100000001021</epc>
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    <epc>urn:epc:id:sgtin:0088202.503033.100000001023</epc>
    <epc>urn:epc:id:sgtin:0088202.503033.100000001024</epc>
    <epc>urn:epc:id:sgtin:0088202.503033.100000001025</epc>
  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <bizLocation>
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  </bizLocation>
  <extension>
    <ilmd>
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      <cbvmdata:itemExpirationDate>2019-03-31</cbvmdata:itemExpirationDate>
      <tl:commissionEventExtensions>
        <tl:manufacturingDate>2018-01-31</tl:manufacturingDate>
      </tl:commissionEventExtensions>
    </ilmd>
  </extension>
</ObjectEvent>
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  <eventTime>2018-01-31T00:12:25.830Z</eventTime>
  <eventTimeZoneOffset>+00:00</eventTimeZoneOffset>
  <epcList>
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    <epc>urn:epc:id:sgtin:0088202.503033.100000001021</epc>
    <epc>urn:epc:id:sgtin:0088202.503033.100000001022</epc>
    <epc>urn:epc:id:sgtin:0088202.503033.100000001023</epc>

```

```

        <epc>urn:epc:id:sgtin:0088202.503033.100000001024</epc>
        <epc>urn:epc:id:sgtin:0088202.503033.100000001025</epc>
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    <disposition>urn:epcglobal:cbv:disp:active</disposition>
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    </bizLocation>
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            <cbvmdata:itemExpirationDate>2019-03-31</cbvmdata:itemExpirationDate>
            <tl:commissionEventExtensions>
                <tl:manufacturingDate>2018-01-31</tl:manufacturingDate>
            </tl:commissionEventExtensions>
        </ilmd>
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        <epc>urn:epc:id:sgtin:088202.0503022.100000001021</epc>
    </epcList>
    <action>DELETE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:decommissioning</bizStep>
    <disposition>urn:epcglobal:cbv:disp:inactive</disposition>
    <readPoint>
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    </readPoint>
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        <tl:disaggregateFromParent>false</tl:disaggregateFromParent>
        <tl:marketCountryCode>RU</tl:marketCountryCode>
        <tl:businessPartyInfo>
            <tl:businessId type="SGLN">088202.867701.0</tl:businessId>
            <tl:businessClassification>DISTRIBUTOR</tl:businessClassification>
            <tl:BusinessPartyDetail>

```



```

        <tl:businessName>Russia Pharma</tl:businessName>
        <tl:street1>Bolshoy Devyatinsky Lane 8</tl:street1>
        <tl:city>Moskva</tl:city>
        <tl:stateOrRegion>Presnensky</tl:stateOrRegion>
        <tl:postalCode>121099</tl:postalCode>
        <tl:country>RU</tl:country>
        <tl:addressObjectGUID>19406454-0022-000C-00B0-000000000152</tl:addressObjectGUID>
        <tl:houseGUID>986f2934-be05-438f-A30E-c15b90e15dbc</tl:houseGUID>
    </tl:BusinessPartyDetail>
</tl:businessPartyInfo>
    <tl:warehouseOperatorName>John Smith</tl:warehouseOperatorName>
    <tl:decommissionReasonCode>PRODUCTION_DEFECT</tl:decommissionReasonCode>
    <tl:reasonDescription>Defect from production</tl:reasonDescription>
</tl:decommissionEventExtensions>
</ObjectEvent>
<ObjectEvent>
    <eventTime>2017-02-19T00:12:25.834Z</eventTime>
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        <epc>urn:epc:id:sgtin:088202.0503022.100000001021</epc>
    </epcList>
    <action>DELETE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:destroying</bizStep>
    <disposition>urn:epcglobal:cbv:disp:destroyed</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:088202.867702.0</id>
    </readPoint>
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        <tl:disaggregateFromParent>false</tl:disaggregateFromParent>
        <tl:marketCountryCode>RU</tl:marketCountryCode>
        <tl:businessPartyInfo>
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            <tl:businessClassification>DISTRIBUTOR</tl:businessClassification>
            <tl:BusinessPartyDetail>
                <tl:businessName>Russia Pharma</tl:businessName>
                <tl:street1>Bolshoy Devyatinsky Lane 8</tl:street1>
                <tl:city>Moskva</tl:city>
                <tl:stateOrRegion>Presnensky</tl:stateOrRegion>

```

```

        <tl:postalCode>121099</tl:postalCode>
        <tl:country>RU</tl:country>
        <tl:addressObjectGUID>19406454-0022-000C-00B0-000000000152</tl:addressObjectGUID>
        <tl:houseGUID>986f2934-be05-438f-A30E-c15b90e15dbc</tl:houseGUID>
    </tl:BusinessPartyDetail>
</tl:businessPartyInfo>
<tl:warehouseOperatorName/>
<tl:decommissionReasonCode>DAMAGED</tl:decommissionReasonCode>
<tl:reasonDescription/>
</tl:destroyEventExtensions>
</ObjectEvent>
<AggregationEvent>
    <eventTime>2016-08-31T00:12:27</eventTime>
    <eventTimeZoneOffset>-04:09</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:088202.00200000034</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:0088202.503033.100000000670</epc>
        <epc>urn:epc:id:sgtin:0088202.503033.100000000222</epc>
        <epc>urn:epc:id:sgtin:0088202.503033.100000000225</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <bizLocation>
        <id>urn:epc:id:sgln:088202.67345.0</id>
    </bizLocation>
</AggregationEvent>
<!-- Product Release -->
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    <eventTimeZoneOffset>+00:00</eventTimeZoneOffset>
    <epcList/>
    <action>OBSERVE</action>
    <bizStep>http://epcis.tracelink.com/bizstep/releasing</bizStep>
    <disposition>http://epcis.tracelink.com/disp/released</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:064202.867702.0</id>
    </readPoint>
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        <bizTransaction type="http://epcis.tracelink.com/hc/btt/certificateconformity" date="2019-03-

```

```

18">urn:epcglobal:cbv:bt:0882028677019:H9022413</bizTransaction>
    <bizTransaction type="http://epcis.tracelink.com/hc/btt/declarationconformity" date="2019-03-
18">urn:epcglobal:cbv:bt:0882028677019:D8125416</bizTransaction>
    </bizTransactionList>
    <extension>
      <ilmd>
        <cbvmdata:lotNumber>L120012</cbvmdata:lotNumber>
        <tl:productReleaseEventExtensions>
          <tl:internalMaterialCode>l1002-5412-1</tl:internalMaterialCode>
          <tl:countryDrugCode type="US_NDC541">0069-4220-66</tl:countryDrugCode>
          <tl:qualityControlEntityId type="GLN">0882028677010</tl:qualityControlEntityId>
          <tl:productionQty>
            <tl:packagingItemCode type="GTIN-14">50300694220667</tl:packagingItemCode>
            <!-- <tl:companyPrefix>503006</tl:companyPrefix> -->
            <tl:packagingLevel>EA</tl:packagingLevel>
            <tl:quantityReported>100</tl:quantityReported>
          </tl:productionQty>
        </tl:productReleaseEventExtensions>
      </ilmd>
    </extension>
  </ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

Errors

Data Element	Error Message	Description
Class 1		
sbdh:Sender sbdh:Identifier @Authority	Valid Sender/Identifier Authority is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
sbdh:Receiver sbdh:Identifier @Authority	Valid Receiver/Identifier Authority is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement @id	Item code is required in source VocabularyElement[@id] !!!	The error occurs if the source is empty or null.
	SGTIN or NTIN in VocabularyElement id is required !!!	The error occurs if the source is not an SGTIN or NTIN.
attribute	Valid packagingLevel code is required !!!	The error occurs if the source is present, but there is no matching entry

Data Element	Error Message	Description
		in the lookup file.
	Packaging Level is required if header master data is populated !!!	The error occurs if header master data is populated, but the source is empty or null.
	Only one country drug code is supported !!!	The error occurs if more than one country drug code is present.
VocabularyElement @id	GLN party type not supported. SGLN is required !!!	The error occurs if the source is not an SGLN.
	Valid decommissioning event location identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
attribute	Decommissioning event location business name is required !!!	The error occurs if the source is empty or null.
	Valid business classification code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Decommissioning event location street address is required !!!	The error occurs if the source is empty or null.
	Decommissioning event location city is required !!!	The error occurs if the source is empty or null.
	3-digit numeric District code required for country India !!!	The error occurs if the source is empty or null.
	Decommissioning event location state or region is required !!!	The error occurs if the source is empty or null.
	Decommissioning event location country is required !!!	The error occurs if the source is empty or null.
VocabularyElement @id	Valid destroy event location identifier type is required !!!	The error occurs if the source is empty or null.
attribute	Destroy event location business name is required !!!	The error occurs if the source is empty or null.
	Destroy event location street address is required !!!	The error occurs if the source is empty or null.
	Destroy event location city is required !!!	The error occurs if the source is empty or null.
	Destroy event location city is required !!!	The error occurs if the source is empty or null.
	Destroy event location state or region is required !!!	The error occurs if the source is empty or null.
	Destroy event location country is required !!!	The error occurs if the source is empty or null.
ObjectEvent (Commissioning Events)	At least one commissioning event is required !!!	The error occurs if the source is empty or null.
epcList epc	Invalid EPC format !!!	The error occurs if the source is invalid, empty, or null.
ObjectEvent (Commissioning Events) bizStep	bizStep urn:epcglobal:cbv:bizstep:commissioning is required for	The error occurs if the source does not equal

Data Element	Error Message	Description
	ObjectEvent commissioning !!!	"urn:epcglobal:cbv:bizstep:commissioning" for a commissioning event.
ObjectEvent (Commissioning Events) disposition	Disposition urn:epcglobal:cbv:disp:active is required for ObjectEvent commissioning !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:active".
ObjectEvent (Commissioning Events) bizLocation id	Event location in the commissioning event is required !!!	The error occurs if the source is empty or null.
cbvmdata:lotNumber	Lot number is required !!!	The error results if the source is GTIN or NTIN, but source is empty or null.
cbvmdata:itemExpirationDate	Expiration date is required !!!	The error results if the source is GTIN or NTIN, but source is empty or null.
tl:packagingLevel	Packaging Level is required !!!	The error results if the source is GTIN or NTIN, but source is empty or null.
	Valid packaging level code required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
tl:packagingItemCode @type	Packaging item code type required if packagingItemCode is populated !!!	The error occurs if source tl:packagingItemCode is populated, but the source is empty or null.
tl:countryDrugCode @type	Country drug code type is required if country drug code is populated !!!	The error occurs if tl:countryDrugCode is populated, but the source is empty or null.
tl:fieldName	Field name is required if ExtensionField group present in source !!!	The error occurs if tl:extensionField group is populated, but the source is empty or null.
tl:fieldValue	Field value is required if ExtensionField group present in source !!!	The error occurs if the source is empty or null.
	Field value is required !!!	The error occurs if the source is empty or null.
ObjectEvent (Decommissioning Events) action	Action DELETE is required for decommissioning !!!	The error occurs if the source does not equal "DELETE" for decommission.
ObjectEvent (Decommissioning Events) bizStep	bizStep urn:epcglobal:cbv:bizstep:decommissioning is required for decommissioning !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:decommissioning" for a decommissioning event.
ObjectEvent (Decommissioning Events) disposition	Disposition urn:epcglobal:cbv:disp:inactive is required for decommissioning !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:inactive".

Data Element	Error Message	Description
ObjectEvent (Decommissioning Events) readPoint id	Source read point ID is required !!!	The error occurs if the source is empty or null.
	Valid decommissioning event location identifier type is required !!!	The error occurs if the source is invalid.
bizTransaction @type	Valid bizTransaction type is required if bizTransaction is populated !!!	The error occurs if bizTransaction is populated but the source is empty or null, or if the source is not a valid value.
tl:marketCountryCode	Market Country Code must be at least two characters !!!	The error occurs if the source is populated, but is less than 2 characters.
tl:decommissionReasonCode	Valid reason code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
tl:destructionMethod	Valid destruction method code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
ObjectEvent (Destroying Events) action	Action DELETE is required for destroying !!!	The error occurs if the source does not equal "DELETE" for destroying.
ObjectEvent (Destroying Events) bizStep	bizStep urn:epcglobal:cbv:bizstep:destroying is required for destroying !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:destroying" for a destroying event.
ObjectEvent (Destroying Events) disposition	Disposition urn:epcglobal:cbv:disp:destroyed is required for destroying !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:destroyed".
ObjectEvent (Destroying Events) readPoint id	Source read point ID is required !!!	The error occurs if the source is empty or null.
	Valid destroy event location identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
AggregationEvent parentID	Invalid EPC format !!!	The error occurs if the source is invalid.
AggregationEvent bizStep	bizStep urn:epcglobal:cbv:bizstep:packing is required for the AggregationEvent !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:packing" for a aggregation event.
AggregationEvent disposition	Disposition urn:epcglobal:cbv:disp:in_progress is required for the AggregationEvent !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:in_progress", or is empty or null.
AggregationEvent bizLocation id	Event location in the aggregation event is required !!!	The error occurs if the source is empty or null.
ObjectEvent (Product Release Events)	Only one product release event is required !!!	The error occurs if more than one product release event is present.
	Product release event data is required !!!	The error occurs if the source is empty or null.
ObjectEvent (Product Release Events) bizStep	bizStep http://epcis.tracelink.com/bizstep/releasing is required for ObjectEvent product release !!!	The error occurs if the source does not equal "http://epcis.tracelink.com/bizstep/releasing" for a product release.

Data Element	Error Message	Description
ObjectEvent (Product Release Events) disposition	Disposition http://epcis.tracelink.com/disp/released is required for ObjectEvent product release !!!	The error occurs if the source does not equal "http://epcis.tracelink.com/disp/released".
ObjectEvent (Product Release Events) readPoint id	Event location in the product release event is required !!!	The error occurs if the source is empty or null.
tl:qualityControlEntityId	Quality control entity Id is required if bizTransaction is populated !!!	The error occurs if bizTransaction in the ObjectEvent for product release events is populated, but the source is empty or null.
tl:qualityControlEntityId @type	Valid quality control entity identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
choice1	Only one of either packaging item code or company prefix may be present !!!	The error occurs if both tl:packagingItemCode and tl:companyPrefix are populated, or both are empty or null.
tl:quantityReported	Quantity reported is required !!!	The error occurs if the source is empty or null.
inputEPCList	One of either inputEPCList OR inputQuantityList is required !!!	The error occurs if both inputQuantityList and the source are null or empty.
inputEPCList epc	Invalid EPC format !!!	The error occurs if the source is in a format other than SGTIN or NTIN.
	SSCC code is invalid in inputEPCList !!!	The error occurs if the source is not an SGTIN or NTIN.
quantityElement epcClass	Lot number is required !!!	The error occurs if the source is empty or null.
	Valid item code is required !!!	The error occurs if the source is invalid.
quantityElement quantity	Input quantity for epcClass is required !!!	The error occurs if inputQuantityList is populated, but the source is empty or null.
outputEPCList	Output epc list is required !!!	The error occurs if the source is empty or null.
outputEPCList epc	China resource code serial number is not supported. Serial number must be NTIN or SGTIN !!!	The error occurs if the source is not a NTIN or SGTIN.
	SSCC code is invalid in outputEPCList !!!	The error occurs if the source is invalid.
	epc serial number is required !!!	The error occurs if the source is empty or null.
	Invalid EPC format !!!	The error occurs if the source is invalid.
tl:repackInputAttributes	repackInputAttributes group is required if registerSourceProduct equals true !!!	The error occurs if tl:registerSourceProduct is set to true, but the source is empty or null.
cbvmda:itemExpirationDate	Item expiration date is required !!!	The error occurs if tl:repackInputAttributes is present but the source is

Data Element	Error Message	Description
		missing or null.
Class 2		
tl:decommissionReasonCode	Reason Code is required for products sold in Russia	The error occurs if a Target Market in Product Master Data for the decommissioned or destroyed product = "RU", but the source is empty or null.
tl:destructionMethod	Destruction Method is required for products sold in Russia	The error occurs if a Target Market in Product Master Data for the decommissioned or destroyed product = "RU", but the source is empty or null.
bizTransaction	A Transaction Identifier for either 'Declaration of Conformity' or 'Certificate of Conformity' is required for products that are commissioned and sold in Russia	The error occurs if a Target Market in Product Master Data for the released product = "RU" and the lot was commissioned and sold in Russia, but the source is empty or null.
bizTransaction @date	Transaction Identifier Date is required for products that are commissioned and sold in Russia	The error occurs if a Target Market in Product Master Data for the decommissioned or destroyed product = "RU" and the lot was commissioned in Russia, but the source is empty or null.
bizTransaction @type	Transaction Identifier for 'Removal from Circulation' is required for products sold in Russia	The error occurs if a Target Market in Product Master Data for the decommissioned or destroyed product = "RU", but the source does not equal "http://epcis.tracelink.com/hc/btt/removal".
tl:addressObjectGUID	AddressObjectGUID cannot be blank for Country RU.	The error occurs if tl:country = "RU", but the source is empty or null.
tl:qualityControlEntityId	Quality Control Entity ID is required for products that are commissioned outside of Russia and sold in Russia	The error occurs if a Target Market in Product Master Data for the released product = "RU" and the lot was commissioned outside of Russia, but the source is empty or null.
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

Release Product Request & Response (SOAP)

Release Product Request

Guidelines

Data Element					Occurs Length	Format	Description
soapenv:Envelope					1...1 -	-	Required. SOAP Envelope root element.
	soapenv:Header				1...1 -	-	Required. Not used by TraceLink. SOAP Message Header.
	soapenv:Body				1...1 -	-	Required. SOAP Message Body.
		urn:ReleaseProduct			1...1 -	-	Required. ReleaseProduct is a request message that sets all serial numbers in a lot to "quality released".
			LotQueryRequest		0...1 -	-	Required. Queries the serialization status of an ItemCode and Lot.
				ItemCode	1...1 1/*	String	Required. Packaging level item code value (e.g. 00882025030220).
				ItemCodeType	0...1 1/*	String	Identifies the packaging level item code type (e.g. GTIN14). See the ItemCode enumeration list for valid values.
				Lot	0...1 1/*	String	Lot Number associated with the designated serial numbers at time of the ReleaseProduct request (e.g. L201409132).
				EventDateTime	0...1 -	Date	Date and time of the event in XSD date time format in GMT (i.e. YYYY-MM-DDTHH:MM:SSZ). If empty or null, EventDateTime defaults to the current date time.
				QualityControlEntityID	0...1 1/*	String	Conditionally required if at least one Target Market in Product Master Data = RU and the lot was commissioned outside of Russia. Business or location identifier of the entity responsible for quality control.
					@identifiertype	0...1 1/*	Required. The business or location identifier type. See the BusinessAndLocationId enumeration list for valid values.
					@identifiervalue	0...1 1/*	Required. The value of the entity responsible for quality control.
				Transactions	0...1 -	-	Conditionally required if at least one Target Market in Product Master Data = RU and the lot was commissioned in Russia. The transaction identifier associated with the product being released.  If populated, QualityControlEntityID must also be populated.

Data Element						Occurs Length	Format	Description
					Transaction	1...* -	-	Required. List of one or more transaction identifiers.
					ItemID	0...1 1/*	String	Required. The transaction identifier associated with the status update.
					ItemType	0...1 1/*	String	Required. The transaction identifier type. Valid values: - CERTIFICATECONFORMITY - CIVILCIRCULATION - DECLARATIONCONFORMITY - STATECONFIRMATION
					Date	0...1 1/*	String	Conditionally required if at least one Target Market in Product Master Data = RU and the lot was commissioned in Russia. The date of the transaction in XML YYYY-MM-DD format.
					ProductionQuantity	0...* -	-	List of each aggregation hierarchy level. Used to optionally validate serial number quantities.
					PackagingItemCode	0...1 -	-	Conditionally required if CompanyPrefix is not populated. Identifies the product using the packaging level item code (e.g. GTIN-14) configured in Product Master Data.
					ItemCodeType	1...1 1/*	String	Required. The packaging level item code type. See the PackagingItemCodeType enumeration list for valid values.
					ItemCode	1...1 1/*	String	Required. The packaging level item code value.
					CompanyPrefix	0...1 0/*	String	Conditionally required if PackagingItemCode is not populated. The GS1 company prefix (e.g. 038522).
					PackagingLevel	1...1 1/*	String	Required. The packaging level of the commissioned item. See the PackagingLevel enumeration list for valid values.
					QuantityReported	1...1 1/*	Integer	Required. Quantity reported for the released product.

Example

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:urn="urn:tracelink:soap">
```

```

<soapenv:Header/>
<soapenv:Body>
  <urn:ReleaseProduct>
    <LotQueryRequest>
      <ItemCode>00882025030220</ItemCode>
      <ItemCodeType>GTIN14</ItemCodeType>
      <Lot>L201409132</Lot>
      <EventDateTime>2019-07-1609:22:01Z</EventDateTime>
      <QualityControlEntityID identifiertype="GLN" identifiervalue="6667771013655">
      <Transactions>
        <Transaction>
          <ItemID>INVOICE</ItemID>
          <ItemType>INV007</ItemType>
          <Date>2019-07-16</Date>
        </Transaction>
      </Transactions>
      <ProductionQuantity>
        <PackagingItemCode>
          <ItemCodeType>GTIN-14</ItemCodeType>
          <ItemCode>00992326050107</ItemCode>
        </PackagingItemCode>
        <CompanyPrefix>038522</CompanyPrefix>
        <PackagingLevel>EA</PackagingLevel>
        <QuantityReported>100</QuantityReported>
      </ProductionQuantity>
      </QualityControlEntityID>
    </LotQueryRequest>
  </urn:ReleaseProduct>
</soapenv:Body>
</soapenv:Envelope>

```

Errors

Exception Code	Exception Message
LOTALREADYRELEASED	Lot <lot number> for item <item number> has already been set to Quality Released.
LOTNOTFOUND	Lot <lot number> for item <item number> does not exist.

Exception Code	Exception Message
VALIDATION	The parameter itemCode is missing or has an invalid value.
	The parameter itemCodeType is missing or has an invalid value.
	The parameter lot is missing or has an invalid value.
QUALITYCONTROLENTITYRUSSIA	Quality Control Entity ID is required for products that are commissioned outside of Russia and sold in Russia.
TRANSACTIONIDRUSSIA	A Transaction Identifier for either 'Declaration of Conformity' or 'Certificate of Conformity' is required for products that are commissioned and sold in Russia.
	Transaction Identifier Date is required for products that are commissioned and sold in Russia.
PRODUCTIONQUANTITYVALIDATION	Product Release transaction processing failed due to serial number quantity verification failure. [quantity of commissioned serial number] at [packaging level] level found in the system but Product Release message reported lower quantity [QuantityReported] for [country drug code/Internal Material Number] [Product name in English if English is not available use the first language available alphabetically by language code] [packaging code /type] at [location].
	Product Release transaction processing failed due to serial number quantity verification failure. [Quantity of commissioned serial number] at [packaging level] level found in the system but Product Release message reported higher quantity [QuantityReported] for [country drug code/Internal Material Number] [Product name in English if English is not available use the first language available alphabetically by language code] [packaging code /type] at [location].
	Can not process Product Release transaction. The packaging level quantities in the transaction do not match the packaging level quantities in the aggregation hierarchy. Possibly the aggregation events have not yet been processed.

Release Product Response

Guidelines



Data Element			Occurs Length	Type	Description
S:Envelope			1...1 -	-	Required. SOAP Envelope root element.
	S:Body		1...1 -	-	Required. SOAP Message Body.
		ns2:ReleaseProductResponse	1...1	-	Required. Release Product response message.

Data Element						Occurs Length	Type	Description
					TLResponse	0...1 -	-	Required. TraceLink ReleaseProduct response.
					Success	0...1 -	-	Required. Indicates if the ReleaseProduct request successfully processed (e.g. true).
					ExceptionReturn	0...1 -	-	Conditionally required if Success = <code>false</code> . Error information.
					CallException	1...* -	-	Required. Contains error details.
					ExceptionCode	0...1 0/*	String	Required. Error code for exception.
					ExceptionMessage	0...1 0/*	String	Conditionally required. Message that further describes the error condition.

Example

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:ReleaseProductResponse xmlns:ns2="urn:tracelink:soap" xmlns:ns3="http://tracelink.com/som">
      <TLResponse>
        <Success>true</Success>
      </TLResponse>
    </ns2:ReleaseProductResponse>
  </S:Body>
</S:Envelope>
```

End of Batch APIs

Why do I use these messages?

Use the following messages to declare an End of Batch, which captures the quantity of serial numbers produced for a specific product and lot and confirms that the packaging line system correctly fulfilled the production request. TraceLink verifies that the quantity of serial numbers in the End of Batch matches the quantity that were commissioned for the lot and captured in a Disposition Assigned message (see the *Serial Number Exchange API Guide* for more information). TraceLink might also verify that the quantity of serial numbers falls within the expected batch yield threshold for the product, if configured in Product Master Data.

Which reports do these messages generate?

These messages generate the [OMS Domestic Utilisation](#) and [915 - Multi Pack](#) reports in the Russia Compliance application if their contents meet the report conditions.

End of Batch (XML)

Guidelines

This message uses the Park and Retry functionality. If a prerequisite condition for this message has not been met, TraceLink stops processing the task, returns the task to the queue, and then tries to process the task again every 15 minutes for up to 4 hours.

Message Type: SNX_END_OF_BATCH

Info Exchange Display Name: End of Batch Notification

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

Data Element	Occurs	Format	Length	Enum	Req	Description
snx:SNXEndOfBatchMessage	1..1	-	-	-	M	The message root.
snx:ControlFileHeader	1..1	-	-	-	M	The header fields for the message.

Data Element		Occurs	Format	Length	Enum	Req	Description
	cmn:FileSenderNumber	1...1	String	1/20	-	M	Identifies the sender of the message. When the sender is the TraceLink application owner, use this value in the application link key to identify the link. ¹
	cmn:FileReceiverNumber	1...1	String	1/*	-	M	Identifies the receiver of the message. When the receiver is the TraceLink application owner, use this value in the application link key to identify the link. ²
	cmn:FileControlNumber	1...1	String	1/*	-	M	The unique file identifier the sender assigns. ³
	cmn:FileDate	1...1	Date	10/10	-	M	The creation data of the file in XML date YYYY-MM-DD format. ⁴
	cmn:FileTime	1...1	Time	9/9	-	M	The time of the file's generation in XML HH:MM:SSZ format. ⁵
	snx:MessageBody	1...1	-	-	-	O	The End of Batch message details.
	choice%1	1...1	Choice	-	-	M	Choice 1 is mandatory within the Message Body.  Populate either InternalMaterialCode or CountryDrugCode. An error results if neither option is set.
	cmn:InternalMaterialCode	0...1	String	1/*	-	C	The internal material number for the product in the batch. ⁶  Mandatory if cmn:CountryDrugCode is not populated.
	cmn:CountryDrugCode	0...1	String	1/*	-	C	The National Drug Code (NDC) for the product in the batch. ⁷  Mandatory if cmn:InternalMaterialNumber is not populated.
	@type	1...1	String	1/*	CountryDrugCode	M	The NDC type using the supported enumeration values.
	cmn:LotNumber	1...1	String	0/*	-	M	The lot or batch code for the serialized item in an alphanumeric string. ⁸
	cmn:ProductionQuantity	1...*	-	-	-	M	The production quantities in the batch. This is a looping group with reported production quantities.

¹7777776067344²8888884043588³0000000004⁴2017-02-16⁵06:30:32Z⁶9859263⁷100006302⁸QA454687

Data Element				Occurs	Format	Length	Enum	Req	Description
									A minimum of one entry is required for the Each (EA) packaging level. All other packaging levels are optional.
			choice%1	1...1	Choice	-	-	M	Choice 1 is mandatory within the ProductionQuantity element. ⚠️ Populate either InternalMaterialCode or CountryDrugCode. An error results if neither option is set.
			cmn:PackagingItemCode	0...1	String	1/*	-	C	The packaging level product code (e.g. GTIN-14) for the packaging level. ¹ ⚠️ Mandatory if cmn:CompanyPrefix is not populated.
			@type	1...1	String	1/*	PackagingItemCode	C	The product code type using the supported enumeration values (e.g. GTIN-14). Required if cmn:PackagingItemCode is populated.
			cmn:CompanyPrefix	0...1	String	0/*	-	C	The GS1 company prefix. ² ⚠️ Mandatory if cmn:PackagingItemCode is not populated.
			cmn:PackagingLevel	1...1	String	1/*	PackagingLevel	M	The packaging level associated with the PackagingItemCode using the supported enumeration values. Minimally one Each per Product Code must be provided. All other aggregation levels are optional.
			cmn:QuantityReported	1...1	Integer	-	-	M	The reported serial number quantity from the packaging location that commissioned the packaging level. ³ • Mandatory for EA packaging level. • Optional for all other levels. If not submitted with the EA Packaging Level, an error results.

Examples

Internal Material Code and Packaging Item Code Example

```
<?xml version="1.0" encoding="UTF-8"?>
<snx:SNXEndOfBatchMessage xmlns:snx="urn:tracelink:mapper:sl:serial_number_exchange"
xmlns:cmn="urn:tracelink:mapper:sl:commontypes">
```

¹07008522880081

²038522

³10000


```

<snx:ControlFileHeader>
  <cmn:FileSenderNumber>8888882028655</cmn:FileSenderNumber>
  <cmn:FileReceiverNumber>8888882028655</cmn:FileReceiverNumber>
  <cmn:FileControlNumber>0000000004</cmn:FileControlNumber>
  <cmn:FileDate>2020-08-17</cmn:FileDate>
  <cmn:FileTime>11:43:32Z</cmn:FileTime>
</snx:ControlFileHeader>
<snx:MessageBody>
  <cmn:InternalMaterialCode>133661</cmn:InternalMaterialCode>
  <cmn:LotNumber>LOT17</cmn:LotNumber>
  <snx:ProductionQuantity>
    <cmn:PackagingItemCode type="GTIN-14">00992326050107</cmn:PackagingItemCode>
    <cmn:PackagingLevel>EA</cmn:PackagingLevel>
    <cmn:QuantityReported>10000</cmn:QuantityReported>
  </snx:ProductionQuantity>
</snx:MessageBody>
</snx:SNXEndOfBatchMessage>

```

Internal Material Code and Company Prefix Example

```

<?xml version="1.0" encoding="UTF-8"?>
<snx:SNXEndOfBatchMessage xmlns:snx="urn:tracelink:mapper:sl:serial_number_exchange"
xmlns:cmn="urn:tracelink:mapper:sl:commontypes">
  <snx:ControlFileHeader>
    <cmn:FileSenderNumber>8888882028655</cmn:FileSenderNumber>
    <cmn:FileReceiverNumber>8888882028655</cmn:FileReceiverNumber>
    <cmn:FileControlNumber>0000000004</cmn:FileControlNumber>
    <cmn:FileDate>2020-08-17</cmn:FileDate>
    <cmn:FileTime>11:43:32Z</cmn:FileTime>
  </snx:ControlFileHeader>
  <snx:MessageBody>
    <cmn:InternalMaterialCode>133661</cmn:InternalMaterialCode>
    <cmn:LotNumber>LOT17</cmn:LotNumber>
    <snx:ProductionQuantity>
      <cmn:CompanyPrefix>038522</cmn:CompanyPrefix>
      <cmn:PackagingLevel>EA</cmn:PackagingLevel>
      <cmn:QuantityReported>10000</cmn:QuantityReported>
    </snx:ProductionQuantity>
  </snx:MessageBody>

```

```
</snx:SNXEndOfBatchMessage>
```

Country Drug Code and Packaging Item Code Example

```
<?xml version="1.0" encoding="UTF-8"?>
<snx:SNXEndOfBatchMessage xmlns:snx="urn:tracelink:mapper:sl:serial_number_exchange"
xmlns:cmn="urn:tracelink:mapper:sl:commontypes">
  <snx:ControlFileHeader>
    <cmn:FileSenderNumber>8888882028655</cmn:FileSenderNumber>
    <cmn:FileReceiverNumber>8888882028655</cmn:FileReceiverNumber>
    <cmn:FileControlNumber>0000000004</cmn:FileControlNumber>
    <cmn:FileDate>2020-08-17</cmn:FileDate>
    <cmn:FileTime>11:43:32Z</cmn:FileTime>
  </snx:ControlFileHeader>
  <snx:MessageBody>
    <cmn:CountryDrugCode type="US_NDC542">05552-5500-10</cmn:CountryDrugCode>
    <cmn:LotNumber>LOT17</cmn:LotNumber>
    <snx:ProductionQuantity>
      <cmn:PackagingItemCode type="GTIN-14">00992326050107</cmn:PackagingItemCode>
      <cmn:PackagingLevel>EA</cmn:PackagingLevel>
      <cmn:QuantityReported>10000</cmn:QuantityReported>
    </snx:ProductionQuantity>
  </snx:MessageBody>
</snx:SNXEndOfBatchMessage>
```

Country Drug Code and Company Prefix Example

```
<?xml version="1.0" encoding="UTF-8"?>
<snx:SNXEndOfBatchMessage xmlns:snx="urn:tracelink:mapper:sl:serial_number_exchange"
xmlns:cmn="urn:tracelink:mapper:sl:commontypes">
  <snx:ControlFileHeader>
    <cmn:FileSenderNumber>8888882028655</cmn:FileSenderNumber>
    <cmn:FileReceiverNumber>8888882028655</cmn:FileReceiverNumber>
    <cmn:FileControlNumber>0000000004</cmn:FileControlNumber>
    <cmn:FileDate>2020-08-17</cmn:FileDate>
    <cmn:FileTime>11:43:32Z</cmn:FileTime>
  </snx:ControlFileHeader>
  <snx:MessageBody>
    <cmn:CountryDrugCode type="US_NDC542">05552-5500-10</cmn:CountryDrugCode>
```

```

<cmn:LotNumber>LOT17</cmn:LotNumber>
<snx:ProductionQuantity>
  <cmn:CompanyPrefix>038522</cmn:CompanyPrefix>
  <cmn:PackagingLevel>EA</cmn:PackagingLevel>
  <cmn:QuantityReported>10000</cmn:QuantityReported>
</snx:ProductionQuantity>
</snx:MessageBody>
</snx:SNXEndOfBatchMessage>

```

Errors

Data Element	Error Message	Description
Class 1 Errors		
snx:MessageBody choice1	Either internal material code or country drug code is required !!!	The error occurs if both InternalMaterialCode and CountryDrugCode are empty or null.
cmn:CountryDrugCode @type	Country drug code type is required if country drug code is populated !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
cmn:LotNumber	Lot number is required !!!	The error occurs if the source is empty or null.
cmn:ProductionQuantity choice1	Either packaging item code or company prefix is required !!!	The error occurs if both cmn:CompanyPrefix and the source are empty or null.
	Only one of packaging item code or company prefix is required !!!	The error occurs if both cmn:CompanyPrefix and the source are populated.
cmn:PackagingItemCode @type	Packaging item code type required if packaging item code is populated !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
cmn:PackagingLevel	Valid packaging level is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
	At least one packaging level EA is required !!!	The error occurs if the source does not contain at least one Packaging Level Each (EA).
cmn:QuantityReported	Quantity report for packaging level EA is required !!!	The error occurs if PackagingLevel = EA, but source is empty or null.
Class 2 Errors		
cmn:PackagingLevel	(Processing Code 400): End of Batch transaction processing failed because Serial number quantity for packaging level EACH is missing for [country drug code/Internal Material Number] [Product name in English if English is not available use the first language available alphabetically by language code] [packaging code /type] at [location]	The error occurs if quantities are not reported at the "each" level.

Data Element	Error Message	Description
cmn:QuantityReported in relation to commission data in the TraceLink system	(Processing Code 400): End of Batch transaction processing failed due to serial number quantity verification failure. [Quantity of commissioned serial number] at [packaging level] level found in the system but End of Batch message reported higher quantity [QuantityReported] for [country drug code/Internal Material Number] [Product name in English if English is not available use the first language available alphabetically by language code] [packaging code /type] at [location].	The error occurs if the quantity of commissioned serial numbers in the End of Batch is more than the quantity in the TraceLink system.  The system first parks/retries the End of Batch message to accommodate scenarios where Serial Number Exchange Disposition Assigned transmissions are still under process, or if they have not yet arrived. If the discrepancy still exists after the park/retry, the error occurs.
	(Processing Code 400): End of Batch transaction processing failed due to serial number quantity verification failure. [quantity of commissioned serial number] at [packaging level] level found in the system but End of Batch message reported lower quantity [QuantityReported] for [country drug code/Internal Material Number] [Product name in English if English is not available use the first language available alphabetically by language code] [packaging code /type] at [location]	The error occurs if the quantity of commissioned serial numbers in the End of Batch is less than the quantity in the TraceLink system.
cmn:QuantityReported in relation to the batch yield threshold settings configured in Product Master Data.	(Processing Code 400): End of Batch transaction processing failed due to serial number quantity verification failure. [quantity of commissioned serial number] at [packaging level] level found in the system but End of Batch message reported lower quantity [QuantityReported] for [country drug code/Internal Material Number] [Product name in English if English is not available use the first language available alphabetically by language code] [packaging code /type] at [location]	The error occurs if the reported quantity of serial numbers in the End of Batch is below the batch yield threshold set in Product Master Data.
	(Processing Code 400): End of Batch transaction processing failed due to batch yield verification failure. [quantity of commissioned serial number at EACH packaging level] at end of Batch fell below Minimum Batch Yield [MinimumYield]% ([MinimumYield in quantity]) for [country drug code/Internal Material Number] [Product name in English if English is not available use the first language available alphabetically by language code] [packaging code /type] at [location]	The error occurs if the commissioned serial number quantity in the End of Batch is less than the minimum batch yield threshold setting in Product Master Data.
	(Processing Code 400): End of Batch transaction processing failed due to batch yield verification failure. [quantity of commissioned serial number at EACH packaging level] at end of Batch is above Maximum Batch Size ([MaxBatchSize]) for [country drug code/Internal Material Number] [Product name in English if English is not available use the first language available alphabetically by language code] [packaging code /type] at [location]	The error occurs if the commissioned serial number quantity in the End of Batch is more than the maximum batch size setting in Product Master Data.
cmn:QuantityReported	(Processing Code 400): End of Batch transaction processing failed because Serial number quantity for packaging level EACH is missing for [country drug code/Internal Material Number] [Product name in English if English is not available use the first language available alphabetically by language code]	The error occurs if quantities are not reported at the "each" level.

Data Element	Error Message	Description
	[packaging code /type] at [location]	
Also see the <i>Settings > Serial Number Exchange Online Help</i> for a list of success and failure email notifications regarding End of Batch. Users must opt into these notifications to receive them. Also see <i>Serial Number Exchange Online Help</i> for additional success and warning messages found in Info Exchange and Serial Number Exchange UI.		
Class 3 Errors		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

End of Batch Event (EPCIS v1.2)

Guidelines

CMOs use this message to declare an End of Batch on behalf of the product's MAH, which records the End of Batch in the MAH's system and sends commission and aggregation data to the system. This message communicates Commission, Aggregation, and End of Batch data from the CMO to the MAH.

Message Type: SOM_END_OF_BATCH_EVENT

Info Exchange Display Name: End of Batch Event

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

⚠ NTINs *must* follow the [GS1 Guidance](#) standards as found on the GS1 website.

- Ex: urn:epc:id:sgtin:415001647778.0.100000000022
- Format: urn:epc:id:sgtin:[company prefix].[indicator digit][item ref].[serial number]

Information regarding NTINs cannot be exchanged with trade partners unless the specific format outlined above is followed. If using an NTIN without following this format, an outbound error occurs when passing data from TraceLink to a trade partner.

Data Element	Occurs Length	Type	Description
epcis:EPCISDocument	1...1	-	Required. EPCIS message root element.

Data Element				Occurs Length	Type	Description
@schemaVersion				1...1 0/*	Decimal	Required. The version of the EPCIS schema used to populate the EPCIS document elements. Must equal 1.2. ¹
@creationDate				1...1 1/*	DateTime	Required. The date and time of the SBDH document's creation. GMT create date and time for the EPCIS message. The system expects the Z to be appended; however, if it is not included, the system assumes that the time is GMT and therefore appends the Z. ²
EPCISHeader				0...1 -	-	Required. The XML file control header. The following use cases are supported in this message: 1. Commission or Transformation + Aggregation + End of Batch events: No Decommission/Destroy reported. 2. Commission or Transformation + End of Batch events: Product is not aggregated and no Decommission/Destroy reported. 3. Commission or Transformation + End of Batch + Decommission/Destroy events: Product is not aggregated. Decommission and/or destroy events recorded. <i>ⓘ</i> Commissioning or Transformation and End of Batch events are mandatory, all other events are optional.
sbdh:StandardBusinessDocumentHeader				1...1 -	-	Required. Business header information including EPCIS Header Version, Sender, and Receiver information, along with the document identification.
sbdh:HeaderVersion				1...1 0/*	String	Required. Version of the Standard Business Document Header (SBDH). The HeaderVersion must be set to 1.0. ³
sbdh:Sender				1...* -	-	Required. A unique identification key for the Sender party of the message, representing the organization that created the standard business document. The Sender element must be used only once with GS1 XML messages.
sbdh:Identifier				1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type. ⁴ SGLN and all other party types should be sent with a GS1-conformant uri prefix. For example: • urn:epc:id:sgln:088202.867701.0 • http://epcis.gs1us.org/hc/dea/loc/10023141 <i>ⓘ</i> GLN will not have a urn/http prefix.

¹1.2²2017-05-19T22:08:02Z³1.0⁴1100001014507

Data Element					Occurs Length	Type	Description
							See the MDPartyTypeAttributes enumeration list for valid values. Business header information including EPCIS Header Version, Sender, and Receiver information, along with the document identification.
				@Authority	1...1 1/*	String	Required. The sender identifier type. The Authority was previously expected to be set to GLN for GS1 XML messages. An update made in December 2016 changed this to accept additional values. ¹ See the MDPartyTypeEnums enumeration list for valid values.
			sbdh:Receiver		1...* -	-	Required. A unique identification key for the Receiver party of the message, representing the organization that created the standard business document. The sbdh:Receiver element must be used only once with GS1 XML messages.
			sbdh:Identifier		1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type. ² SGLN and all other party types should be sent with a GS1-conformant uri prefix. For example: <code>urn:epc:id:sgln:088202.867701.0</code> <code>http://epcis.gs1us.org/hc/dea/loc/10023141</code>  GLN will not have a urn/http prefix. See the MDPartyTypeAttributes enumeration list for valid values.
			@Authority		1...1 1/*	String	The sender identifier type. The Authority was previously expected to be set to GLN for GS1 XML messages. An update made in December 2016 changed this to accept additional values. ³ See the MDPartyTypeEnums enumeration list for valid values.
			sbdh:DocumentIdentification		1...1 -	-	Required. Contains the identification group for the message.
			sbdh:Standard		1...1 0/*	String	Required. Name of the document standard contained in the file or message. The standard value for this field is EPCglobal . ⁴
			sbdh:TypeVersion		1...1 0/*	String	Required. Reflects the version of the document included. This is the complete version of the document itself and is different from the HeaderVersion as these are hard-coded values. The TypeVersion is set to 1.0 . ⁵

¹GLN²0614141123452³GLN⁴EPCglobal⁵1.0

Data Element								Occurs Length	Type	Description
							sbdh:InstanceIdentifier	1...1 1/*	String	Required. Reference information that uniquely identifies this instance of the Standard Business Document between the Sender and the Receiver. This identifier confirms this document as being distinct from others. ¹
							sbdh:Type	1...1 0/*	String	Required. The type of the document. The sbdh:Type value must be set to Events . ²
							sbdh:CreationDateAndTime	1...1 0/*	DateTime	Required. The date and time of the SBDH document's creation. GMT create date and time for the EPCIS message. The system expects the Z to be appended; however, if it is not included, the system assumes that the time is GMT and therefore appends the Z . ³
							extension	0...1 -	-	Header extension area with master data attributes.
							EPCISMasterData	0...1 -	-	Master data extension header. May contain product master data attributes for Commissioning event and/or location address information for Decommissioning and/or Destroy events. Optional. <i>ⓘ</i> Full GS1-conformance requires that all product and party master data be stored in the EPCIS header extension EPCISMasterData VocabularyList Vocabulary VocabularyElementList VocabularyElement.
							VocabularyList	1...1 -	-	Required. Vocabulary list group master data elements.
							Vocabulary	0...* -	-	Looping vocabulary element with discrete item master data element groups. Vocabulary will occur only once for all item master entries present in message, if group is populated. Group is optional. If it does not appear in master data header extension, no error will be thrown.
							@type	1...1 0/*	String	Required. Vocabulary type identifying product master data elements. Product master data is defined by VocabularyElement @id. Valid value: urn:epcglobal:epcis:vtype:EPCClass = product master data. ⁴
							VocabularyElementList	0...1 -	-	List of vocabulary elements containing master data attributes for each unique product code.
							VocabularyElement	0...* -	-	Looping vocabulary element identifying each unique SGTIN, or NTIN for product master data embedded in the epc serial number in the Commissioning and Transformation events.

¹201705191745200001²Events³2017-05-12T22:08:02Z⁴urn:epcglobal:epcis:vtype:EPCClass

Data Element								Occurs Length	Type	Description
										SSCC codes not included in VocabularyElement product master data. <i>①</i> To conform with GS1 standards, master data attributes should be sent in the VocabularyElement. Each unique SGTIN, NTIN, or China Product Code embedded in Commissioning event epcList epc should be sent in one instance of VocabularyElement.
							@id	1...1 0/*	String	Required. Identifies the product code for which master data is being sent in the VocabularyElement loop.¹ VocabularyElement @id = SGTIN, or NTIN with GS1-conformant urn or http prefix. These are the only values supported in this element. All other product identifier types will be sent as additional trade item types. SSCC codes are not identified in any part of the VocabularyElement group. Must match the product code embedded within the serial number in the epc code in one or more commissioning events. SGTIN (strongly recommended for GS1 conformance) - Prefix: <code>urn:epc:idpat:sgtin:</code> - Example: <code>urn:epc:idpat:sgtin:0030001.0012345.*</code>
							attribute(1)	1...1 1/*	String	Conditionally required if master data attributes were sent in VocabularyElement. Instance 1 of attribute for packaging level value identified by @id attribute.² See the PackagingLevel enumeration list for valid values.
							@id	1...1 0/*	String	Required. Attribute identifying packaging level. Valid value: <code>http://epcis.tracelink.com/mda/packageTypeCode</code>³
							attribute(2)	0...1 0/*	String	Instance 2 of attribute for internal material number in Pharmaceutical Manufacturer's internal system identified by @id attribute. Identified by the value in the next attribute element in the current loop = <code>MANUFACTURER_PART_NUMBER</code>.⁴
							@id	1...1 0/*	String	Required. Id attribute identifying internal material code. Valid value: <code>urn:epcglobal:cbv:mda#additionalTradeItemIdentification</code>⁵
							attribute(3)	0...1 0/*	String	Conditionally required if the previous name/value pair attribute(2) @id is populated. Instance 3 of attribute for internal material number identifier type for the product. Id attribute identifying internal material code. Valid value: <code>MANUFACTURER_PART_NUMBER</code>⁶

¹urn:epc:idpat:sgtin:0030001.0012345.*²UN³http://epcis.tracelink.com/mda/packageTypeCode⁴100335⁵urn:epcglobal:cbv:mda#additionalTradeItemIdentification⁶MANUFACTURER_PART_NUMBER

Data Element										Occurs Length	Type	Description
												Sequence of fields for internal material number is: <code><attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">100335</attribute></code> <code><attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">MANUFACTURER_PART_NUMBER</attribute></code>  If this sequence is not followed as documented above in the input file, the internal material number will not be mapped into the TraceLink system and no error will be thrown.
								@id		1...1 0/*	String	Required. Id attribute identifying internal material code. Valid value: <code>urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode</code>¹
								attribute(4)		0...1 0/*	String	Instance 4 of attribute for country drug code for all national drug code types, identified by the enum value in the next attribute element in the current loop and by the attribute @id value as an additional trade item.² Country drug code type defined by value in next sequential attribute element where attribute @id = <code>urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode</code> OR <code>http://epcis.tracelink.com/mda/additionalTradeItemIdentificationTypeCode</code>
								@id		1...1 0/*	String	Required. Id attribute identifying country drug code. Valid value: <code>urn:epcglobal:cbv:mda#additionalTradeItemIdentification</code>³
								attribute(5)		0...1 0/*	String	Conditionally required if the previous name/value pair attribute(4) @id is populated with the country drug code value. Instance 5 of attribute for Country drug code identifier type. Must follow attribute with country drug value. Id attribute identifying internal material code.⁴ Sequence of fields for country drug code is: GS1: <code><attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">82025030221</attribute></code> <code><attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_</code>

¹urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode²82025030221³urn:epcglobal:cbv:mda#additionalTradeItemIdentification⁴FDA_NDC_11

Data Element										Occurs Length	Type	Description
												<code>11</attribute></code> TraceLink: 1. <code><attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">82025030221</attribute></code> 2. <code><attribute id="http://epcis.tracelink.com/mda/additionalTradeItemIdentificationTypeCode">US_NDC442</attribute></code>  If this sequence is not followed as documented above in the input file, the internal material number will not be mapped into the TraceLink system and no error will be thrown. The following qualifiers have been defined by GS1 as additional trade item types: <code>MANUFACTURER_PART_NUMBER</code> = Internal material number <code>FDA_NDC_11</code> = US NDC542 <code>DIN</code> = Canada Drug ID Number <code>PHARMACODE_CH</code> = Swiss Pharma Code <code>NAN</code> = Nordic Article Number To identify these material number types, use attribute <code>@id</code> string: <code>urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode</code>. For all other country drug code types, use attribute <code>@id</code> string: <code>http://epcis.tracelink.com/mda/additionalTradeItemIdentificationTypeCode</code>. See the CountryDrugCode enumeration list for valid values.
									@id	1...1 0/*	String	Required. Id attribute identifying internal material code. Valid value: ¹ <code>urn:epcglobal:cbv:mda#additionalTradeItemIdentification</code> (GS1 enums). <code>http://epcis.tracelink.com/mda/packageTypeCode</code> (TraceLink enums).
										0...* -		Looping vocabulary with discrete master data element groups. Vocabulary will occur once each for sold from, ship from, sold to, and ship to parties.

¹urn:epcglobal:cbv:mda#additionalTradeItemIdentification

Data Element							Occurs Length	Type	Description
									 Group is optional. If it does not appear in master data header extension, no error will be thrown.
						@type	1...1 0/*	String	Required. Vocabulary type identifying location master data elements. Master data type defined by VocabularyElement @id. Valid value:¹ <code>urn:epcglobal:epcis:vtype:Location</code> = location master data  Location address info for Decommissioning and/or Destroying events should be sent in header master data.
						VocabularyElementList	0...1 -	-	List of vocabulary elements that includes all location master information. Location party identifiers and address info are stored in instances of the looping group VocabularyElement .
						VocabularyElement	1...* -	-	Required. Looping group header for data elements that identify all location master data, including identifiers, identifier types, and address info. VocabularyElement repeats once for each party type: Decommission/Destroy Event: Location party (optional).
						@id	1...1 0/*	String	Required. SGLN or other partner identifier and type for party master data in VocabularyElement. Must match sourceList or destinationList owning or location party in shipping event from:² - ObjectEvent extension sourceList source (transfer from, carrier) OR - ObjectEvent extension destinationList destination (transfer to) For Decommissioning and Destroying event, must match location party identifier in: ObjectEvent readPoint id The identifier value is mandatory for regulatory reporting. The identifier type must include a valid urn or http string prefix. Valid prefix formats include by namespace: - GS1: <code>urn:epc:id:sgln:[CompanyPrefix].[LocationReference].[Extension]</code> - GS1 USHC: <code>http://epcis.gs1us.org/hc/[identifierType]/loc/[identificationValue]</code> - TraceLink: <code>http://epcis.tracelink.com/hc/[identifierType]/loc/[identificationValue]</code> Only SGLN is supported—not GLN. Different countries require different values as noted below: See the MDPartyTypeAttributes enumeration list for valid values.

¹urn:epcglobal:epcis:vtype:Location²urn:epc:id:sgln:088202.867701.0

Data Element									Occurs Length	Type	Description
								attribute(1)	1...1 0/*	String	Conditionally required if attribute(2) is present. Looping Name/Value pairs identifying partner address master data elements. This is the value element in the Name/Value pair attribute @id. Stores master data item value defined by @id.¹ Partner master data items currently supported for shipping event: • Business name - Mandatory if address populated in VocabularyElement. • Business classification - Optional. • Street address 1 - Mandatory if address populated. • Street address 2 - Optional. • City - Required if address populated. • District - Optional • State/Province/Region - Mandatory if address populated. • Postal code - Optional. • Country code - Required if address populated.
								@id	1...1 0/*	String	Conditionally required if attribute(1) is populated. The name in the Name/Value pair attribute @id. Identifies the master data value stored in the attribute value element, using urn or http prefix. Valid values:² • <code>urn:epcglobal:cbv:mda#name</code> • <code>urn:epcglobal:cbv:mda#streetAddressOne</code> • <code>urn:epcglobal:cbv:mda#streetAddressTwo</code> • <code>urn:epcglobal:cbv:mda#streetAddressThree</code> • <code>urn:epcglobal:cbv:mda#state</code> • <code>urn:epcglobal:cbv:mda#postalCode</code> • <code>urn:epcglobal:cbv:mda#countryCode</code> • <code>http://epcis.tracelink.com/mda/AddressObjectGUID</code> • <code>http://epcis.tracelink.com/mda/HouseGUID</code> • <code>http://epcis.tracelink.com/mda/partyRoleCode</code>
								attribute(2)	0...*	String	Conditionally required if attribute(1) is present. Looping Name/Value pairs identifying additional party identifier elements.

¹Kendall Pharma²urn:epcglobal:cbv:mda#name

Data Element										Occurs Length	Type	Description
												. Stores additional party identifiers and identifier types defined by @id.¹ Partner master data items currently supported: • Additional party identifier -- Optional (1 or more supported) • Additional party identifier type -- Optional (1 or more supported) Create one instance of the Name/Value pair attribute @id for each master data element returned. Additional party identifiers must be sent in a double attribute combination. The sequence must be: • Attribute 1 identifies and provides the party identifier value. • Attribute 2 identifies the party identifier type. For example: <pre><attribute id="http://epcis.tracelink.com/mda/additionalPartyIdentificationValue">10023141</at tribute> <attribute id="http://epcis.tracelink.com/mda/additionalPartyIdentificationTypeCode">DUNS_PLUS_ FOUR</attribute></pre>  If this sequence of double attributes is not followed for additional party identifiers, the additional party identifier will not be mapped to the TraceLink system and no error will be thrown. See the BusinessAndLocationId enumeration list for valid values.
								@id		1...1 0/*	String	Conditionally required if attribute(2) is populated. The name in the Name/Value pair attribute @id. Identifies the master data value stored in the attribute value element, using urn or http prefix. Valid values:² • http://epcis.tracelink.com/mda/additionalPartyIdentificationValue • http://epcis.tracelink.com/mda/additionalPartyIdentificationTypeCode
EPCISBody										1...1 -	-	Required. Contains all of the EPCIS events for this message.
	EventList									1...1 -	-	Required. The EventList includes the following events: • ObjectEvent - 0 or more for Commissioning (Conditional, Commission, or Transformation is mandatory). • ObjectEvent - 0 or more for Decommissioning. • ObjectEvent - 0 or more for Destroying.

¹10023141²<http://epcis.tracelink.com/mda/additionalPartyIdentificationValue>

Data Element				Occurs Length	Type	Description
						• AggregationEvent - 0 or more for Aggregation. • ObjectEvent - 1 for End of Batch. • TransformationEvent - 0 or more for Transformation (Conditional, Commission, or Transformation is mandatory). The order of events is not enforced.
		choice%1		1...* -	-	Required. Only one of the following choice options may be selected in any one loop on EPCISBody EventList: • ObjectEvent with commissioning extensions • ObjectEvent with decommissioning extensions • ObjectEvent with destroying extensions • AggregationEvent • ObjectEvent with End of Batch extension • TransformationEvent
		ObjectEvent		1...* -	-	Required. Choice 1 for EventList. Data = ObjectEvent for the Commissioning Events EventList = ObjectEvent Commissioning when: • bizStep = <code>urn:epcglobal:cbv:bizstep:commissioning</code> • action = <code>ADD</code> • disposition = <code>urn:epcglobal:cbv:disp:active</code>
		eventTime		1...1 1/*	DateTime	Required. Timestamp of date/time when the event occurred. ¹
		recordTime		0...1 0/*	DateTime	Not used.
		eventTimeZoneOffset		1...1 1/*	String	Required. Time zone offset in effect at the time and place where the event occurred, consistent with the choice made for eventTime . ²
		epcList		1...1 -	-	Required. The EPCs of each item, case, and/or pallet commissioned.

¹2017-05-19T22:08:02Z²-04:00

Data Element					Occurs Length	Type	Description
				epc	1...* 1/*	String	Required. The EPC identifier in EPC Pure Identity URI format:¹ SGTIN Format: <code>urn:epc:id:sgtin:<company prefix>.<indicator digit + item reference>.<serial number></code> - Ex: <code>urn:epc:id:sgtin:068202.0401034.11220207026272</code> SSCC Format: <code>urn:epc:id:sscc:<company prefix>.<extension digit + serial number></code> - Ex: <code>urn:epc:id:sscc:030944.10105363280</code>
				action	1...1 0/*	String	Required. The action value must be set to <code>ADD</code> . ²
				bizStep	0...1 0/*	AnyURI	Required. The bizStep value must be set to <code>urn:epcglobal:cbv:bizstep:commissioning</code> . ³
				disposition	0...1 0/*	AnyURI	The disposition value must be set to <code>urn:epcglobal:cbv:disp:active</code> . ⁴
				readPoint	0...1 -	-	The location where the commissioning event occurred.  To represent the facility where the commissioning event occurred, only use the SGLN representation. If no subLocation, third segment = 0. Read point is optional in commissioning event.
				id	1...1 0/*	AnyURI	Required. The SGLN EPC of the location where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ⁵
				extension	0...1	-	Not used.

¹urn:epc:id:sgtin:088202.5503022.1000000000670

urn:epc:id:sscc:088202.002000000034

http://epcis.tracelink.com/obj/cn-edmc/88102321100002005943

http://epcis.tracelink.com/obj/ntin/4150.001647778.1000000000002

²ADD³urn:epcglobal:cbv:bizstep:commissioning⁴urn:epcglobal:cbv:disp:active⁵urn:epc:id:sgln:0614141.12345.RP1

Data Element						Occurs Length	Type	Description
					bizLocation	0...1 -	-	Conditionally required for a commissioning event. The location where the event occurred.
					id	1...1 1/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ¹
					bizTransactionList	0...1 -	-	Not used.
					extension	0...1	-	Main extension body for commission event.
					ilmd	0...1 -	-	Instance lot master data specific to product being commissioned.
					cbvmdata:lotNumber	0...1 0/*	String	The lot or batch code for the serialized item in an alphanumeric string of up to 20 characters. ²
					cbvmdata:itemExpirationDate	0...1 0/*	Date	The expiration date for the serialized item, in YYYY-MM-DD format. ³
					tl:commissionEventExtensions	0...1 -	-	Extensions used for Commission ObjectEvent .
					tl:filterValue	0...1 -	Int	Only use if it is required by a trade partner to convert SSCC to GS1 HEX or Tag URI format. See the FilterValue enumeration list for valid values.
					tl:packagingLevel	0...1 0/*	String	Conditionally required if packagingLevel is not included in the commissioning event extensions. The packaging level of the commissioned item using the supported enumeration values.⁴  To be GS1 EPCIS-conformant, send this value in the VocabularyElement master data, unless current item has an SSCC code with associated product master data (i.e. homogenous pallet). See the PackagingLevel enumeration list for valid values.
					tl:epcAttributes	0...*	-	Supports optional inclusion of human readable barcode content associated with each epc number in a commission event.

¹urn:epc:id:sgln:0614141.12345.1400²ABC123³2020-12-31⁴EA

Data Element								Occurs Length	Type	Description
										Included only if provided in original commission event.
						@epc		1...1 1/*	String	Required. The EPC serial number to which tl:barcodeContent is associated. The epc must be an EPC Pure Identity URI as specified in Section 6 of [TDS1.5]: ¹ - Item: SGTIN - Case: SGTIN or SSCC - Pallet: SSCC.
						tl:barcodeContent		1...1 1/*	String	Required. The human readable barcode contents encoded in the 2D barcode with parentheses for the AI keys. ²
						tl:plantLocationId		0...1 0/*	String	Identifier of plant where products were commissioned. ³
						tl:productionLineId		0...1 1/*	String	Identifier of production line where products were commissioned. ⁴
						tl:lineManagerName		0...1 0/*	String	Name of the person responsible as the production line manager for the commissioned products. ⁵
						tl:companyPrefix		0...1 0/*	String	Not used.
						tl:internalMaterialCode		0...1 0/*	String	Internal material number for the product in the Pharmaceutical Manufacturer's internal systems (e.g. ERP). ⁶
						tl:packagingItemCode		0...1 0/*	String	The product code for the commissioned item (e.g. GTIN-14). ⁷
						@type		1...1 1/*	String	Required. Valid values: ⁸

¹urn:epc:id:sgtin:068202.0401034.11220207026272²(01)50682020401034(21)11220207026272(17)170731(10)A312101(7004)0120³0614141.12345.1400⁴PW003⁵John Smith⁶100234⁷50300694220667⁸GTIN-14

Data Element								Occurs Length	Type	Description
										• GTIN-14 • NTIN
						tl:countryDrugCode		0...1 0/*	String	The national drug code for the commissioned item (e.g. NDC number for US products).¹ i To be GS1 EPCIS-conformant, send this value in the VocabularyElement master data, unless current item has an SSCC code with associated product master data.
						@type		0...1 0/*	String	The national drug code type using the supported enumeration values and any formatting instructions provided.² i To be GS1 EPCIS-conformant, send this value in the VocabularyElement master data, unless current item has an SSCC code with associated product master data. See the CountryDrugCode enumeration list for valid values.
						tl:manufacturingDate		0...1 0/10	Date	The date of manufacture for the serialized item, in YYYY-MM-DD format. ³
						tl:countryMarket		0...1 0/3	String	The 2-letter ISO code for the country market for which the product was manufactured. ⁴
						tl:printedExpirationDate		0...1 0/*	String	Formatted batch expiration date as per the market requirements as it appears printed on the package. ⁵
						tl:referenceDocuments		0...1 0/*	-	Reference document identifier associated with the commissioning activity.
						tl:poNumber		0...1 0/*	String	PO number associated with the serial number. ⁶
						tl:poLine		0...1	String	PO line number. ⁷

¹0069-4220-66²FDA_NDC_11³2017-05-19⁴US⁵2019-03-31⁶1001764⁷000010

Data Element								Occurs Length	Type	Description
							tl:workOrderNumber	0...1 0/*	String	Work order number associated with the serial number. ¹
							tl:referenceIdentifier	0...1 0/*	String	Reference identifier associated with the serial number. ²
							tl:extensionField	0...* -	-	Extension point to pass in one or more name/value pairs containing additional data attributes not already supported in this message. If this element group is populated, both tl:fieldName and tl:fieldValue must be populated. ⓘ These extensions are not stored by TraceLink. They are used only for outbound mapping purposes when there is a requirement to provide additional data to a trade partner for this message, such as when a CMO is required to provide additional data fields to the Pharmaceutical Manufacturer. Different trade partners may have different field requirements and may therefore require that the tl:extensionField be populated differently per trade partner.
							tl:fieldName	1...1 1/*	String	Required. The field name provided by the trade partner receiving the mapped outbound message. The field name must match the field name provided by the trade partner exactly - including case - so that it is properly detected in the outbound mapping.
							tl:fieldValue	1...1 1/*	String	Required. The field value content that corresponds to tl:fieldName .
						ObjectEvent		0...* -	-	ObjectEvent describing decommissioning events. EventList = ObjectEvent Decommissioning when all of the following is true: bizStep = <code>urn:epcglobal:cbv:bizstep:decommissioning</code> action = <code>DELETE</code> disposition = <code>urn:epcglobal:cbv:disp:inactive</code>
				eventTime				1...* 1/*	DateTime	Required. Timestamp of date/time when the event occurred in YYYY-MM-DDTHH:MM:SS.mmZ format. ³
				eventTimeZoneOffset				1...1 1/*	String	Required. Time zone offset in effect at the time and place where the event occurred, consistent with the choice made for eventTime . Per Section 7.2.8 of [EPCIS1.0.1]. ⁴

¹1001764-00²A100352³2017-05-19T08:30:21.32Z⁴-04:00

Data Element				Occurs Length	Type	Description
			epcList	1...1 -	-	Required. The EPCs of each item, case, and/or pallet decommissioned.
			epc	1...* 1/*	String	Required. The EPC identifier in EPC Pure Identity URI format. ¹ SGTIN Format: • <code>urn:epc:id:sgtin:<company prefix>.<indicator digit + item reference>.<serial number></code> • Ex: <code>urn:epc:id:sgtin:068202.0401034.11220207026272</code> SSCC Format: • <code>urn:epc:id:sscc:<company prefix>.<extension digit + serial number></code> • Ex: <code>urn:epc:id:sscc:030944.10105363280</code>
			action	1...1 0/*	String	Required. The action value must be set to <code>DELETE</code> . ²
			bizStep	0...1 0/*	AnyURI	Required. The bizStep value must be set to <code>urn:epcglobal:cbv:bizstep:decommissioning</code> . ³
			disposition	0...1 0/*	AnyURI	Required. The disposition value must be set to <code>urn:epcglobal:cbv:disp:inactive</code> . ⁴
			readPoint	0...1 -	-	Required. Location where the event occurred. Defined with GS1-conformant party identifier types with full urn or http prefix. SGLN is strongly preferred. Links to the location party address data if present in the VocabularyElement I @id.
			id	1...1 0/*	AnyURI	Required. The party identifier of the location where the decommissioning event occurred. SGLN is strongly preferred for GS1 conformance. This may be a site-level SGLN, or a finer-grain location identifier. ⁵ See the MDPartyTypeAttributes enumeration list for valid values.
			bizLocation	1...1 -	-	-

¹urn:epc:id:sgtin:068202.0401034.11220207026272

urn:epc:id:sscc:030944.10105363280

http://epcis.tracelink.com/obj/cn-edmc/88102321100002005943

²DELETE³urn:epcglobal:cbv:bizstep:decommissioning⁴urn:epcglobal:cbv:disp:inactive⁵urn:epc:id:sgln:0614141.12345.1400

Data Element					Occurs Length	Type	Description
				id	1...1 1/*	AnyURI	The SGLN EPC of the location where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier.
				bizTransactionList	0...1 -	-	Required. Business transaction list group.
				bizTransaction	1...* 0/*	AnyURI	Required. The transaction identifier associated with the decommissioned product. ¹
				@type	1...1 1/1	String	Required. The transaction identifier type. Valid values: ² http://epcis.tracelink.com/hc/btt/destruction http://epcis.tracelink.com/hc/btt/removal urn:epcglobal:cbv:btt:rma
				@date	0...1 0/*	Date	Required. Transaction identifier date attribute in YYYY-MM-DD XML date format. ³
				tl:locationId	0...1 -	String	Serialized Operations Manager External Partner Location identifier. Type of identifier defined by @type . When messages are submitted by an external Serialized Operations Manager Partner, the system uses the subscriber company integration user to perform the action and log this in the audit trail so that all messages executed by the external Serialized Operations Manager Partner are attributed to that company. ⁴
				@type	1...1 1/*	String	Required. Attribute that identifies the location types. ⁵ See the MessagePartyIDType enumeration list for valid values.
				tl:decommissionEventExtensions	0...1 -	-	Extensions used for ObjectEvent Decommissioning.
				tl:transactionDate	0...1 0/*	Date	Date associated with the business transaction document in bizTransactionList in YYYY-MM-DD format. This date may or may not be the same as the eventTime . ⁶

¹urn:epcglobal:cbv:bt:0333331013655:45006290016²<http://epcis.tracelink.com/hc/btt/removal>³2019-04-01⁴8888882028677⁵GLN⁶2017-05-19

Data Element					Occurs Length	Type	Description
				tl:disaggregateFromParent	0...1 -	Boolean	When set to true , instructs back end to disaggregate a serial number from its parent container (if it is aggregated) when setting the PackagingSerialNumberStatus of the serial number to DECOMMISSIONED or DESTROYED . ¹ If not set, or set to false , the back end operates in default mode, which generates an error when attempting to change the status of a serial number aggregated to a parent container. If source is not populated, target defaults to false .
				tl:marketCountryCode	0...1 0/2	String	Market country code. ²
				tl:businessPartyInfo	0...1 -	-	Address for the party authorizing the decommissioning event.
				tl:businessId	0... 0/*	String	The identifier associated with the authorizing business entity.
				@type	0...1 0/*	String	The type of the BusinessId identifier.
				tl:businessClassification	0...1 0/*	String	The classification of the business.
				tl:BusinessPartyDetail	0...1 -	-	Populated with the business name and address of the sold from or transfer from business entity.
				tl:businessName	0...1 0/*	String	The business name of the trading partner.
				tl:street1	0...1 0/*	String	The first line of the street address.
				tl:street2	0...1 0/*	String	The second line of the street address.
				tl:city	0...1 0/*	String	The city.
				tl:village	0...1 0/*	String	Name of the village in which the company is located.

¹false²US

Data Element							Occurs Length	Type	Description
						tl:houseNumber	0...1 0/*	String	Building, house, or unit number of the company. House numbers are usually only separated from the street address in China. For all addresses outside of China, continue to enter the building, house, or unit number in tl:street1 .
						tl:township	0...1 0/*	String	Name of the township in which the company is located.
						tl:district	0...1 0/*	String	District Code.  Must be a 3-digit numeric code.
						tl:stateOrRegion	0...1 0/*	String	The state, province, or region using the standard two-letter abbreviation specified in ISO 3166-2:1998 country subdivision code.
						tl:postalCode	0...1 1/*	String	The ZIP or other postal code.
						tl:country	0...1 0/*	String	The country using the standard two-letter abbreviation specified in ISO 3166-1 alpha-2:1997 country code.
						tl:corporateFax	0...1 1/*	String	Company fax number.
						tl:addressObjectGUID	0...1 0/*	String	The global identifier assigned by the Russian Federation Information Address System (FIAS). ¹  Maximum of 36 characters, using the digits 0-9 and letters A-F
						tl:houseGUID	0...1 0/*	String	The global house identifier assigned by the Russian Federation Information Address System (FIAS). ²  Maximum of 36 characters, using the digits 0-9 and letters A-F
						tl:taxRegistrationCode	0...1 0/*	String	The code used to identify this entity for tax or other legal reporting purposes (e.g. a Russia KPP Registration Code).
						tl:premisesCode	0...1 0/*	String	Identifier representing a physical area within the company location (e.g. a location's second floor).

¹19406454-0022-000C-00B0-000000000152²986f2934-be05-438f-A30E-c15b90e15dbc

Data Element					Occurs Length	Type	Description
				tl:warehouseOperatorName	0...1 0/*	String	Name of the person responsible for warehouse operations. ¹
				tl:decommissionReasonCode	0...1 0/*	String	Reason code for decommissioning. ² See the DecommissionReasonCode enumeration list for valid values.
				tl:destructionMethod	0...1 0/*	String	Destruction method of the product. ³ See the DestructionMethod enumeration list for valid values.
				tl:reasonDescription	0...1 0/*	String	Description for decommission reason code. ⁴
			ObjectEvent		0...* -	-	ObjectEvent recording destroying events. EventList = ObjectEvent Destroy when all of the following is true: • bizStep = <code>urn:epcglobal:cbv:bizstep:destroying</code> • action = <code>DELETE</code> • disposition = <code>urn:epcglobal:cbv:disp:destroyed</code>
				eventTime	1...1 1/*	DateTime	Required. Timestamp of date/time when the event occurred in YYYY-MM-DDTHH:MM:SS.mmZ format. ⁵
				eventTimeZoneOffset	1...1 1/*	String	Required. Time zone offset in effect at the time and place where the event occurred, consistent with the choice made for eventTime . ⁶
				epcList	1...1 -	-	Required. The EPCs of each item, case, and/or pallet commissioned.
				epc	1...* 1/*	String	Required. The EPC identifier in EPC Pure Identity URI format. ⁷ SGTIN Format:

¹John Smith²PRODUCTION_DEFECT³LIQUID_DILUTION_DRAINAGE⁴Defect from production⁵2017-05-19T08:30:21.32Z⁶-04:00⁷urn:epc:id:sgtin:068202.0401034.11220207026272

urn:epc:id:sscc:030944.10105363280

http://epcis.tracelink.com/obj/cn-edmc/88102321100002005943

Data Element					Occurs Length	Type	Description
							- urn:epc:id:sgtin:<company prefix>.<indicator digit + item reference>.<serial number> - Ex: urn:epc:id:sgtin:068202.0401034.11220207026272 SSCC Format: - urn:epc:id:sscc:<company prefix>.<extension digit + serial number> - Ex: urn:epc:id:sscc:030944.10105363280
				action	1...1 0/*	String	Required. The action value must be set to DELETE . ¹
				bizStep	1...1 0/*	AnyURI	The bizStep value must be set to urn:epcglobal:cbv:bizstep:destroying . ²
				disposition	1...1 0/*	AnyURI	The disposition value must be set to urn:epcglobal:cbv:disp:destroyed . ³
				readPoint	0...1 -	-	The location of where the commissioning event occurred.  To represent the facility where the commissioning event occurred, only use the SGLN representation. If no subLocation, third segment = 0.
				id	1...1 0/*	AnyURI	The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier.⁴ See the MDPartyTypeReadpoint enumeration list for valid values.
				bizLocation	1...1 -	-	Required. The location where the event occurred.
				id	1...1 1/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ⁵
				bizTransactionList	0...1	-	Required. Business transaction list group.

¹DELETE²urn:epcglobal:cbv:bizstep:destroying³urn:epcglobal:cbv:disp:destroyed⁴urn:epc:id:sgln:0614141.12345.1400⁵urn:epc:id:sgln:0614141.12345.1400

Data Element					Occurs Length	Type	Description
				bizTransaction	1...* 0/*	AnyURI	Required. The transaction identifier associated with the destroyed product. ¹
				@type	1...1 1/1	String	Required. The transaction identifier type. Valid values: ² http://epcis.tracelink.com/hc/btt/destruction http://epcis.tracelink.com/hc/btt/removal urn:epcglobal:cbv:btt:rma
				@date	0...1 0/*	Date	Required. Transaction identifier date attribute in YYYY-MM-DD XML format. ³
				tl:locationId	0...1 -	String	Serialized Operations Manager External Partner Location identifier. Type of identifier defined by @type . When transactions are submitted by an external Serialized Operations Manager Partner, the system uses the partner company integration user to perform the action and log this in the audit trail so that all messages executed by the external Serialized Operations Manager Partner are attributed to that company. ⁴
				@type	1...1 1/*	String	Required. Attribute that identifies the location types. ⁵ See the MessagePartyIDType enumeration list for valid values.
				tl:destroyEventExtensions	0...1 -	-	Extensions used for ObjectEvent Destroying.
				tl:transactionDate	0...1 0/*	Date	Date associated with the business transaction document in bizTransactionList in YYYY-MM-DD format. This date may or may not be the same as the eventTime . ⁶
				tl:disaggregateFromParent	0...1 -	Boolean	When set to true , instructs back end to disaggregate a serial number from its parent container (if it is aggregated) when setting the PackagingSerialNumberStatus of the serial number to DECOMMISSIONED or DESTROYED . ⁷ If not set, or set to false , the back end operates in default mode, which is to generate an error when attempting to change the status of a serial number aggregated to a parent container.

¹urn:epcglobal:cbv:bt:0333331013655:45006290016²<http://epcis.tracelink.com/hc/btt/removal>³2019-04-01⁴8888882028677⁵GLN⁶2017-05-19⁷false

Data Element						Occurs Length	Type	Description
								If source is not populated, target defaults to <code>false</code> .
					tl:marketCountryCode	0...1 0/2	String	Market country code. ¹
					tl:businessPartyInfo	0...1 -	-	Address for the party authorizing the destroy event.
					tl:businessId	0... 0/*	String	Required. The identifier associated with authorizing from business entity.
					@type	0...1 0/*	String	The type of the BusinessId identifier.
					tl:businessClassification	0...1 0/*	String	The classification of the business.
					tl:BusinessPartyDetail	0...1 -	-	Populated with the business name and address of the sold from or transfer from business entity. Optional group.
					tl:businessName	0...1 0/*	String	The business name of the trading partner.
					tl:street1	0...1 0/*	String	The first line of the street address.
					tl:street2	0...1 0/*	String	The second line of the street address.
					tl:city	0...1 0/*	String	The city.
					tl:village	0...1 0/*	String	Name of the village in which the company is located.
					tl:houseNumber	0...1 0/*	String	Building, house, or unit number of the company. House numbers are usually only separated from the street address in China. For all addresses outside of China, continue to enter the building, house, or unit number in tl:street1 .
					tl:township	0...1 0/*	String	Name of the township in which the company is located.

¹US

Data Element							Occurs Length	Type	Description
						tl:district	0...1 0/*	String	District Code. ⓘ Must be a 3-digit numeric code.
						tl:stateOrRegion	0...1 0/*	String	The state, province, or region using the standard two-letter abbreviation specified in ISO 3166-2:1998 country subdivision code.
						tl:postalCode	0...1 1/*	String	The ZIP or other postal code.
						tl:country	0...1 0/*	String	The country using the standard two-letter abbreviation specified in ISO 3166-1 alpha-2:1997 country code.
						tl:corporateFax	0...1 1/*	String	Company fax number.
						tl:addressObjectGUID	0...1 0/*	String	The global identifier assigned by the Russian Federation Information Address System (FIAS). ¹ ⓘ Maximum of 36 characters, using the digits 0-9 and letters A-F
						tl:houseGUID	0...1 0/*	String	The global house identifier assigned by the Russian Federation Information Address System (FIAS). ² ⓘ Maximum of 36 characters, using the digits 0-9 and letters A-F
						tl:taxRegistrationCode	0...1 0/*	String	The code used to identify this entity for tax or other legal reporting purposes (e.g. a Russia KPP Registration Code).
						tl:premisesCode	0...1 0/*	String	Identifier representing a physical area within the company location (e.g. a location's second floor).
						tl:warehouseOperatorName	0...1 0/*	String	Name of the person responsible for warehouse operations. ³

¹19406454-0022-000C-00B0-000000000152²986f2934-be05-438f-A30E-c15b90e15dbc³John Smith

Data Element					Occurs Length	Type	Description
				tl:decommissionReasonCode	0...1 0/*	String	Reason code for destroying. ¹ See the DecommissionReasonCode enumeration list for valid values.
				tl:reasonDescription	0...1 0/*	String	Description for destroy reason code. ²
				tl:destructionMethod	0...1 0/*	String	Destruction method of the product. ³ See the DestructionMethod enumeration list for valid values.
			AggregationEvent		0..* -	-	AggregationEvent is option 2 for the EventList choice for the Aggregation events. EventList = AggregationEvent when: bizStep = <code>urn:epcglobal:cbv:bizstep:packing</code> action = <code>ADD</code> disposition = <code>urn:epcglobal:cbv:disp:in_progress</code>
				eventTime	1...1 1/*	DateTime	Required. Timestamp of date/time when the event occurred. ⁴
				recordTime	0...1 0/*	DateTime	Not used.
				eventTimeZoneOffset	1...1 1/*	String	Required. Time zone offset in effect at the time and place where the event occurred, consistent with the choice made for eventTime . Per Section 7.2.8 of [EPCIS1.0.1]. ⁵
				parentID	1...1 1/*	AnyURI	Required. Identifier of the parent container in EPC Pure Identity URI format. ⁶ Example: - For an item-to-case aggregation, the EPC of the case. - For a case-to-pallet aggregation, the EPC of the pallet.

¹PRODUCTION_DEFECT²Defect from production³LIQUID_DILUTION_DRAINAGE⁴2017-05-19T22:10:02Z⁵-04:00⁶urn:epc:id:sgtin:088202.5503022.100000000670

urn:epc:id:sscc:088202.002000000034

http://epcis.tracelink.com/obj/cn-edmc/88102321100002005943

http://epcis.tracelink.com/obj/ntin/4150.001647778.100000000002

Data Element				Occurs Length	Type	Description
						SGTIN: <code>urn:epc:id:sgtin:<company prefix>.<indicator digit + item reference>.<serial number></code>
			childEPCs	1...1 -	-	Required. List of identifiers of the child items in the parent container in EPC Pure Identity URI format. Example: - For an item-to-case aggregation, the EPCs of the items. - For a case-to-pallet aggregation, the EPCs of the cases.
			epc	1... 1/*	String	Required. Identifier of the child items in the parent container in EPC Pure Identity URI format. ¹ SGTIN: <code>urn:epc:id:sgtin:<company prefix>.<indicator digit + item reference>.<serial number></code> - Ex: <code>urn:epc:id:sgtin:068202.0401034.11220207026272</code> SSCC: <code>urn:epc:id:sscc:<company prefix>.<extension digit + serial number></code> - Ex: <code>urn:epc:id:sscc:030944.10105363280</code>
			action	1...1 1/*	String	Required. The action value must be set to <code>ADD</code> for the aggregation event. ²
			bizStep	0...1 0/*	AnyURI	The bizStep value must be set to <code>urn:epcglobal:cbv:bizstep:packing</code> . ³
			disposition	0...1 0/*	AnyURI	The disposition value must be set to <code>urn:epcglobal:cbv:disp:in_progress</code> . ⁴
			readPoint	0...1 -	-	Optional for AggregationEvent .

¹`urn:epc:id:sgtin:088202.5503022.1000000000670``urn:epc:id:sscc:088202.002000000034``http://epcis.tracelink.com/obj/cn-edmc/88102321100002005943``http://epcis.tracelink.com/obj/ntin/4150.001647778.1000000000002`<sup>2</sup>`ADD`<sup>3</sup>`urn:epcglobal:cbv:bizstep:packing`<sup>4</sup>`urn:epcglobal:cbv:disp:in_progress`

Data Element					Occurs Length	Type	Description
				id	1...1 0/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ¹
				bizLocation	0...1 -	-	Required. Mandatory for AggregationEvent .
				id	1...1 0/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ²
				bizTransactionList	0...1 -	-	Not used.
				tl:aggregationEventExtensions	0...1 -	-	Extensions used for Aggregation Event.
				tl:packedStatus	0...1 0/*	String	The packout of the item or container using the supported enumeration values. ³ See the PackedStatus enumeration list for valid values.
				tl:quantity	0...1 -	Int	The quantity of child serial numbers aggregated to the parent container in this aggregation. ⁴
				tl:resetContainerAggregation	0...1 -	boolean	Reset container aggregation flag. ⁵
				ObjectEvent	0...* -	-	EventList. Data = ObjectEvent for End of Batch Events EventList = ObjectEvent End of Batch when all of the following is true: • bizStep = http://epcis.tracelink.com/bizstep/batch_closing • action = OBSERVE • disposition = http://epcis.tracelink.com/disp/closed
				eventTime	1...1 1/*	DateTime	Required. Timestamp of date/time when the event occurred. Must include a time zone indicator. ⁶

¹urn:epc:id:sgln:1100001.12345.0²urn:epc:id:sgln:1100001.12345.0³FULL⁴48⁵false⁶2017-05-19T22:08:02Z

Data Element				Occurs Length	Type	Description
			recordTime	0...1 0/*	DateTime	Not used.
			eventTimeZoneOffset	1...1 1/*	String	Required. Time zone offset in effect at the time and place where the event occurred, consistent with the choice made for eventTime . ¹
			epcList	1...1 -	-	Required. List of the EPCs of topmost containers (e.g. pallets, cases) in the shipment. An empty tag is present for this field.
			epc	0... 1/*	String	The EPC identifier in EPC Pure Identity URI format. Is not populated or processed for End of Batch events.
			action	1...1 0/*	String	Required. The action value must be set to OBSERVE . ²
			bizStep	0...1 0/*	AnyURI	Required. The bizStep value must be set to http://epcis.tracelink.com/bizstep/batch_closing . ³
			disposition	0...1 0/*	AnyURI	Required. The disposition value must be set to http://epcis.tracelink.com/disp/closed . ⁴
			readPoint	0...1 -	-	Required. Location where the event occurred.
			id	1...1 0/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ⁵
			bizLocation	0...1 -	-	Not used.
			id	1...1 1/*	AnyURI	Required. Not used. ⁶
			bizTransactionList	1... 0/*	AnyURI	Not used in End of Batch events.

¹04:00²OBSERVE³http://epcis.tracelink.com/bizstep/batch_closing⁴<http://epcis.tracelink.com/disp/closed>⁵urn:epc:id:sgln:0614141.12345.RP1⁶urn:epc:id:sgln:0614141.12345.1400

Data Element						Occurs Length	Type	Description
					bizTransaction	1...1 1/*	String	Required. The business transaction identifiers.
					@type	1...1 1/*	String	Required. The transaction identifier type using the supported enumeration values. ¹
					extension	1...1 -	-	Required. Main extension body for commission event.
					ilmd	1...1 -	-	Required. Instance lot master data specific to product being commissioned.
					cbvmdata:lotNumber	1...1 0/*	String	Required. The lot number associated with the tl:internalMaterialCode or tl:countryDrugCode . ²
					tl:endOfBatchEventExtensions	1...1 -	-	Extensions used for End of Batch event.
					tl:internalMaterialCode	0...1 0/*	Decimal	Conditionally required if tl:countryDrugCode is not populated. The internal material number configured in Product Master Data associated with the serialized items updated with the End of Batch message.³ Specifying an internal material number updates all serial numbers at all packaging levels (e.g. item, case) that are linked to the internal material number and specified lot number. One or both of the following options must be sent: • tl:internalMaterialCode • tl:countryDrugCode and @type An error will be thrown if neither of the two fields are populated.
					tl:countryDrugCode	0...1 0/*	String	Conditionally required if tl:internalMaterialCode is not populated. The national drug code (e.g. NDC, Swissmedic, PZN, etc.) associated with the serialized items updated with the End of Batch message.⁴ Specifying a country drug code updates all serial numbers at all packaging levels (e.g. item, case) that are linked to the country drug code and specified lot number. One or both of the following options must be sent: • tl:internalMaterialCode

¹urn:epcglobal:cbv:bt:desadv²ABC123³11002541210⁴0069-4220-66

Data Element							Occurs Length	Type	Description
									tl:countryDrugCode and @type An error will be thrown if neither of the two fields are populated.
						@type	1...1 1/*	String	Required. The national drug code type using the supported enumeration values and any formatting instructions provided. ¹ See the CountryDrugCode enumeration list for valid values.
						tl:productionQuantity	1...* -	-	Required. Production quantities. Looping group with reported production quantities. Minimum of one entry required for the Each packaging level. All other packaging levels are optional. Error thrown if group is not populated for Each level.
						choice1	1...1 -	Choice	Required. Mandatory choice1 within cmn:productionQuantity. One of either cmn:packagingItemCode OR cmn:companyPrefix must be populated. Error thrown if neither is populated or if both are populated.
						tl:packagingItemCode	0...1 0/*	String	Conditionally required if cmn:companyPrefix is not populated. The packaging level product code (e.g. GTIN-14) for the packaging level. Either cmn:packagingItemCode or cmn:companyPrefix must be populated. ²
						@type	1...1 1/*	String	Required. The product code type using the supported enumeration values (e.g. GTIN-14).³ See the ItemCode enumeration list for valid values.
						tl:companyPrefix	0...1 0/*	String	Conditionally required if cmn:packagingItemCode is not populated. GS1 company prefix.
						tl:packagingLevel	1...1 1/*	String	Required. The packaging level associated with cmn:packagingItemCode.⁴ See the PackagingLevel enumeration list for valid values.
						tl:quantityReported	1...1 -	Int	Required. Quantity of serial numbers reported commissioned for the packaging level. ⁵
						extension	0...1 -	-	EPCIS body event extension point. Contains the TransformationEvent . TransformationEvent is option 3 in the EventList choice. This extension can appear before or after Commissioning Event.
						TransformationEvent	0...1 -	-	Use the TransformationEvent to commission repackaged products. It is similar to the CommissioningEvent, but includes source products as input, and the commissioned serial numbers are the output repackaged products. The standard ilmd (instance level master data) captures product attributes, lot, and expiry like in a standard commission

¹US_NDC541²00882025030223³GTIN-14⁴EA⁵10

Data Element					Occurs Length	Type	Description
							event. The TransformationEvent parameters are the same as the CommissioningEvent except there is no action: • bizStep = <code>urn:epcglobal:cbv:bizstep:commissioning</code> (optional). • disposition = <code>urn:epcglobal:cbv:disp:active</code> (optional).  The source and repackaged products can only be Primaries or Eaches. Cases and Inner Packs are not permitted.
				eventTime	1...1 1/*	DateTime	Required. The date/time when the disposition assigned occurs with a time zone indicator as specified in Section 9.5 of (EPCIS1.0.1) in YYYY-MM-DDTHH:MM:SS.mmZ format. ¹
				recordTime	0...1 0/*	DateTime	Not used.
				eventTimeZoneOffset	1...1 1/*	String	Required. The time zone offset in effect at time and place where the disposition assigned occurred, consistent with the choice made for eventTime . Per Section 7.2.8 of [EPCIS1.0.1]. ²
				inputEPCList	0...1 -	-	Conditionally required if inputQuantityList is not present. The input EPC is the serial number of the source product that is transformed.  Only primaries or eaches are allowed in Transformation Event EPC lists.  One of either inputEPCList or inputQuantityList is mandatory. If both groups are missing, an error will be thrown. Both groups may be present.
				epc	0...* 1/*	String	Required. The EPC identifier in EPC Pure Identity URI format:³ SGTIN: • Format: <code>urn:epc:id:sgtin:<company prefix>.<indicator digit + item reference>.<serial number></code> • Example: <code>urn:epc:id:sgtin:068202.0401034.11220207026272</code>
				inputQuantityList	0...1	-	Conditionally required if inputEPCList is not present. Specifies non-serialized source products with packaging product

¹2017-03-29T22:10:02.31Z²-04:00³urn:epc:id:sgtin:030000.0000001.100000001020 http://epcis.tracelink.com/obj/ntin/4150.001647778.1000000000002

Data Element						Occurs Length	Type	Description
								code, lot number, and quantity. - For GTIN-based source product, GTIN + Lot is expressed as: <code>urn:epc:class:lgtin:030000.0000001.L12345</code> - For NTIN-based source product, NTIN + Lot is expressed as: <code>http://epcis.tracelink.com/hc/lntin/class/4150.001647778.L12345</code> The source products can only reference GTINs and NTINs for Primaries or Eaches. Cases and Inner Packs are not permitted. One of either inputEPCList or inputQuantityList is mandatory. If both groups are missing, an error will be thrown. Both groups may be present.
					quantityElement	1...* -	-	Required. Identifies a quantity of source products that are identified by a specific class-level 940 identifier in urn format.
					epcClass	1...1 1/*	String	Required. A class level identifier for the source product in inputQuantityList for which the quantity is provided.¹ Format: <code>urn:epc:idpat:ObjectIdentifierType:CompanyPrefix.ItemRefAndIndicator.*</code> - For GTIN based source product, GTIN + Lot is expressed as: <code>urn:epc:class:lgtin:030000.0000001.L12345</code> - For NTIN based source product, NTIN + Lot is expressed as: <code>http://epcis.tracelink.com/hc/lntin/class/4150.001647778.L12345</code>
					quantity	1...1 -	Integer	Required. A number that specifies how many or how much of the specified epcClass is denoted by this quantityElement . ²
					uom	0...1 0/*	String	Unit of measure for the epcClass quantity.
					outputEPCList	1...1 -	-	Required. Provides the epc serial number for the transformed product. outputEPCList is mandatory if Transformation Event is populated. An error will be thrown if outputEPCList is missing.

¹urn:epc:class:lgtin:030000.0000001.L12345²10

Data Element					Occurs Length	Type	Description
							 Only Primaries or Eaches are allowed in Transformation Event EPC lists. Output EPCS list provides the EPC serial number for the transformed product.
				epc	1...* 1/*	String	Required. Identifier of the child items in the parent container in EPC Pure Identifier URI format as specified in Section 6 of [TDS1.5]. ¹ SGTIN: - Format: <code>urn:epc:id:sgtin:<company prefix>.<indicator digit + item reference>.<serial number></code> - Example: <code>urn:epc:id:sgtin:068202.0401034.11220207026272</code> SSCC: - Format: <code>http://epcis.tracelink.com/hc/ntin/obj/<company prefix>.<item reference>.<serial number></code> - Example: <code>http://epcis.tracelink.com/hc/ntin/obj/4150.001647778.100000000002</code>
				transformationID	0...1 0/*	AnyURI	An identifier that links this event to other Transformation Events using an identical transformationID value. When specified, all inputs to all events sharing the same value of the transformationID may contribute to all outputs of all events sharing that value of transformationID .
				bizStep	0...1 0/*	AnyURI	The bizStep value must be set to <code>urn:epcglobal:cbv:bizstep:commissioning</code> . ²
				disposition	0...1 0/*	AnyURI	The disposition value must be set to <code>urn:epcglobal:cbv:disp:active</code> .
				readPoint	0...1 -	-	Not used in Transformation Event.
				id	0...1 0/*	AnyURI	Not used in Transformation Event. ³
				bizLocation	1...1 -	-	Required. Refers to the location of the product after the Transformation Event has occurred.

¹urn:epc:id:sgtin:088202.5503022.100000000670 urn:epc:id:sscc:088202.002000000034 http://epcis.tracelink.com/hc/cn-edmc/obj/88102301100002005943

http://epcis.tracelink.com/hc/ntin/obj/4150.001647778.100000000002

²urn:epcglobal:cbv:bizstep:commissioning

³urn:epc:id:sgln:7777776.67345.0

Data Element								Occurs Length	Type	Description
						id		1...1 1/*	AnyURI	Required. The SGLN EPC of the location from where the commissioning occurred. This may be a site-level SGLN or a finer-grain location identifier. ¹
						bizTransactionList		0...* 1/*	String	The business transaction identifiers provide an unordered list of 0 or more business transactions that define the context of this event.
						ilmd		0...1 -	-	Instance lot master data specific to product being commissioned.
						cbvmda:lotNumber		0...1 1/*	String	Required. The lot number associated with the tl:internalMaterialCode , tl:packagingItemCode , or tl:countryDrugCode that is used to identify the serial numbers that will be updated. ²
						cbvmda:itemExpirationDate		0...1 0/*	Date	The expiration date for the serialized item in YYYY-MM-DD format. ³
						tl:commissionEventExtensions		0...1 -	-	Required. Extensions used for Commission ObjectEvent .
						tl:filterValue		0...1 -	Integer	Not used.
						tl:packagingLevel		1...1 0/*	String	Conditionally required for GS1 EPCIS conformance. The packaging level of the commissioned item using the supported enumeration values. Valid value: EA = Each⁴  To be GS1 EPCIS-conformant, send this value in the VocabularyElement master data, unless current item has an SSCC code with associated product master data.
						tl:epcAttributes		0...* -	-	Supports optional inclusion of human readable barcode content associated with each epc number in a commission event. Only included if provided in original commission event.
						@epc		1...1 1/*	String	The EPC serial number to which the tl:barcodeContent is associated. The epc must be an EPC Pure Identity URI as specified in Section 6 of [TDS1.5]. Valid value: SGTIN ⁵

¹urn:epc:id:sgln:7777776.67345.0²L120012³2019-12-31⁴EA⁵urn:epc:id:sgtin:088202.0503022.100000001020

Data Element								Occurs Length	Type	Description
							tl:barcodeContent	1...1 0/*	String	The human-readable barcode contents encoded in the 2D barcode with parentheses for the AI keys. ¹
							tl:plantLocationId	0...1 0/*	String	Identifier of the plant where products are commissioned. ²
							tl:productionLineId	0...1 1/*	String	Identifier of the production line where products are commissioned. ³
							tl:lineManagerName	0...1 0/*	String	Name of the person responsible as the production line manager for the commissioned products. ⁴
							tl:companyPrefix	0...1 0/*	String	The GS1 Company Prefix.
							tl:internalMaterialCode	0...1 0/*	String	Conditionally required for GS1 EPCIS conformance. Internal material number for the product in the Pharmaceutical Manufacturer's internal systems (e.g. ERP).⁵  To be GS1 EPCIS-conformant, send this value in the VocabularyElement master data, unless current item has an SSCC code with associated product master data.
							tl:packagingItemCode	0...1 0/*	String	Conditionally required for GS1 EPCIS conformance. The product code for the commissioned item (e.g. GTIN-14).⁶  To be GS1 EPCIS-conformant, send this value in the VocabularyElement master data, unless current item has an SSCC code with associated product master data.
							@type	1...1	String	Required. The product code type. Valid values: ⁷

1

(01)00882025030223

(21)100000001020

(17)190331(10)L120012

2M0034

3L009

4John Smith

511002541210

600882025030223

7GTIN-14

Data Element								Occurs Length	Type	Description
										• GTIN-14 • NTIN
						tl:countryDrugCode		0...1 0/*	String	Conditionally required for GS1 EPCIS conformance. The national drug code for the commissioned item (e.g. NDC number for US products).¹ ⓘ To be GS1 EPCIS-conformant, send this value in the VocabularyElement master data, unless current item has an SSCC code with associated product master data.
						@type		1...1 1/*	String	Required. The national drug code type using the supported enumeration values and any formatting instructions provided.² ⓘ To be GS1 EPCIS-conformant, send this value in the VocabularyElement master data, unless current item has an SSCC code with associated product master data. See the CountryDrugCode enumeration list for valid values.
						tl:manufacturingDate		0...1 0/10	Date	The date of manufacture for the serialized item in YYYY-MM-DD format. ³
						tl:countryMarket		0...1 0/3	String	The country using the standard two- or three-letter abbreviation specified in ISO 3166-1alpha-2:1997 country code. ⁴
						tl:printedExpirationDate		0...1 0/10	Date	Expiration date printed on label in YYYY-MM-DD format. ⁵
						tl:referenceDocuments		0...1 -	-	Reference document identifier associated with the commissioning activity.
						tl:poNumber		0...1 0/*	String	PO Number associated with serial number use.
						tl:poLine		0...1 0/*	String	PO Line number.

¹M8202503022²US_NDC442³2017-03-29⁴US⁵2017-03-29

Data Element								Occurs Length	Type	Description
							tl:workOrderNumber	0...1 0/*	String	Work Order number associated with serial number use.
							tl:referenceIdentifier	0...1 0/*	String	Reference identifier (e.g. any type of identifier) associated with serial number use.
							tl:extensionField	0...* -	-	Customer extension point to supply one or more name/value pairs containing additional data attributes not already supported in this message.  If this element group is populated, both tl:fieldName and tl:fieldValue elements must be populated.  These extensions are not stored by TraceLink and are only used for outbound mapping purposes when there is a requirement to provide additional data to a partner for this message, such as when a CMO is required to provide additional data fields to the brand owner. In this case, TraceLink would have a custom map for that partner to map these fields outbound. Different partners may have different field requirements and may therefore require that the ExtensionField be populated differently per trade partner.
							tl:fieldName	1...1 1/*	String	Required. The field name provided by the partner that will be receiving the mapped outbound message.¹  The field name must match the field name provided by the trade partner exactly, including case so that it can be properly detected in the outbound mapping.
							tl:fieldValue	1...1 1/*	String	Required. The field value content that corresponds to tl:fieldName . ²
							extension	0...1 -	-	TransformationEvent extension.
							tl:decommissionSourceProduct	0...1 -	Boolean	When set to true , instructs system to implicitly decommission serial numbers used for repackaging. Saves a step in the repack operation so that separate decommission events do not need to be sent. ³
							tl:registerSourceProduct	0...1 -	Boolean	Triggers registration of serial numbers that are not known to the TraceLink system. Defaults to false if not populated. ⁴ If value = true , tl:repackInputAttributes element group must be populated.

¹POTENCY²100 MG³true⁴true

Data Element							Occurs Length	Type	Description
						tl:repackInputAttributes	0...1 -	-	Conditionally required if cmn:registerSourceProduct = true . Repack input common attributes group with product info for input product.
						cbvmdata:lotNumber	1...1 0/20	String	Required. The lot or batch code for the transformation input product in an alphanumeric string of up to 20 characters. ¹
						cbvmdata:itemExpirationDate	0...1 0/*	Date	Required. The expiration date for the transformation input product in YYYY-MM-DD format. ²

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<epcis:EPCISDocument xmlns:tl="http://epcis.tracelink.com/ns"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:cbvmdata="urn:epcglobal:cbv:mda" xmlns:epcis="urn:epcglobal:epcis:xsd:1" schemaVersion="1.2"
creationDate="2018-01-31T17:45:20Z">
  <EPCISHeader>
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      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier Authority="GLN">0882028677019</sbdh:Identifier>
      </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier Authority="GLN">0333331013655</sbdh:Identifier>
      </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>201801311745200001</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2018-01-31T17:45:20Z</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
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      <EPCISMasterData>
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¹B64894²2020-04-28

```

    <VocabularyList>
      <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
        <VocabularyElementList>
          <VocabularyElement id="urn:epc:idpat:sgtin:0088202.503033.*">
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            <attribute id="urn:epcglobal:cbv:mda#additionalTradeItem">
            <attribute id="urn:epcglobal:cbv:mda#additionalTradeItem">
          </VocabularyElement>
        </VocabularyElementList>
      </Vocabulary>
    </VocabularyList>
  </EPCISMasterData>
</extension>
</EPCISHeader>
<EPCISBody>
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      <eventTimeZoneOffset>+05:00</eventTimeZoneOffset>
      <epcList>
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      <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
      <disposition>urn:epcglobal:cbv:disp:active</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:088202.867701.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:088202.867701.0</id>
      </bizLocation>
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      <eventTimeZoneOffset>+00:00</eventTimeZoneOffset>
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        <epc>urn:epc:id:sgtin:0088202.503033.1000000000222</epc>
        <epc>urn:epc:id:sgtin:0088202.503033.1000000000225</epc>
      </epcList>

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```

<action>ADD</action>
<bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
<disposition>urn:epcglobal:cbv:disp:active</disposition>
<readPoint>
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</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:088202.867701.0</id>
</bizLocation>
<extension>
  <ilmd>
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    <cbvmdata:itemExpirationDate>2019-03-31</cbvmdata:itemExpirationDate>
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      <tl:manufacturingDate>2018-01-31</tl:manufacturingDate>
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</ObjectEvent>
<ObjectEvent>
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  <eventTimeZoneOffset>+00:00</eventTimeZoneOffset>
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  <disposition>urn:epcglobal:cbv:disp:active</disposition>
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  </readPoint>
  <bizLocation>
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  </bizLocation>
  <extension>

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        <ilmd>
            <cbvmdata:lotNumber>L120012</cbvmdata:lotNumber>
            <cbvmdata:itemExpirationDate>2019-03-31</cbvmdata:itemExpirationDate>
            <tl:commissionEventExtensions>
                <tl:manufacturingDate>2018-01-31</tl:manufacturingDate>
            </tl:commissionEventExtensions>
        </ilmd>
    </extension>
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<ObjectEvent>
    <eventTime>2018-01-31T00:12:25.830Z</eventTime>
    <eventTimeZoneOffset>+00:00</eventTimeZoneOffset>
    <epcList>
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        <epc>urn:epc:id:sgtin:0088202.503033.100000001025</epc>
    </epcList>
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    </readPoint>
    <bizLocation>
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    </bizLocation>
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            <cbvmdata:itemExpirationDate>2019-03-31</cbvmdata:itemExpirationDate>
            <tl:commissionEventExtensions>
                <tl:manufacturingDate>2018-01-31</tl:manufacturingDate>
            </tl:commissionEventExtensions>
        </ilmd>
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</ObjectEvent>
<ObjectEvent>

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<eventTimeZoneOffset>+00:00</eventTimeZoneOffset>
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</epcList>
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<disposition>urn:epcglobal:cbv:disp:inactive</disposition>
<readPoint>
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</readPoint>
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  <tl:disaggregateFromParent>false</tl:disaggregateFromParent>
  <tl:marketCountryCode>US</tl:marketCountryCode>
  <tl:warehouseOperatorName>John Smith</tl:warehouseOperatorName>
  <tl:decommissionReasonCode>PRODUCTION_DEFECT</tl:decommissionReasonCode>
  <tl:reasonDescription>Defect from production</tl:reasonDescription>
</tl:decommissionEventExtensions>
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  <disposition>urn:epcglobal:cbv:disp:destroyed</disposition>
  <readPoint>
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  </readPoint>
  <tl:destroyEventExtensions>
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    <tl:disaggregateFromParent>false</tl:disaggregateFromParent>
    <tl:marketCountryCode>US</tl:marketCountryCode>
    <tl:decommissionReasonCode>DAMAGED</tl:decommissionReasonCode>
  </tl:destroyEventExtensions>

```

```

</ObjectEvent>
<AggregationEvent>
  <eventTime>2018-01-31T00:12:26.830Z</eventTime>
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  <parentID>urn:epc:id:sgtin:0088202.503033.100000000670</parentID>
  <childEPCs>
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    <epc>urn:epc:id:sgtin:0088202.503033.100000001021</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:088202.67345.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:088202.67345.0</id>
  </bizLocation>
</AggregationEvent>
<AggregationEvent>
  <eventTime>2018-01-31T00:12:27.00Z</eventTime>
  <eventTimeZoneOffset>-04:09</eventTimeZoneOffset>
  <parentID>urn:epc:id:sgtin:0088202.503033.100000000221</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:0088202.503033.100000001022</epc>
    <epc>urn:epc:id:sgtin:0088202.503033.100000001023</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:088202.67345.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:088202.67345.0</id>
  </bizLocation>
</AggregationEvent>
<AggregationEvent>
  <eventTime>2018-01-31T00:12:27.00Z</eventTime>
  <eventTimeZoneOffset>-04:09</eventTimeZoneOffset>

```



```

<parentID>urn:epc:id:sgtin:0088202.503033.100000000225</parentID>
<childEPCs>
  <epc>urn:epc:id:sgtin:0088202.503033.100000001024</epc>
  <epc>urn:epc:id:sgtin:0088202.503033.100000001025</epc>
</childEPCs>
<action>ADD</action>
<bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
<disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
<readPoint>
  <id>urn:epc:id:sgln:088202.67345.0</id>
</readPoint>
<bizLocation>
  <id>urn:epc:id:sgln:088202.67345.0</id>
</bizLocation>
</AggregationEvent>
<AggregationEvent>
  <eventTime>2016-08-31T00:12:27.00Z</eventTime>
  <eventTimeZoneOffset>-04:09</eventTimeZoneOffset>
  <parentID>urn:epc:id:sscc:088202.00200000034</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:0088202.503033.100000000670</epc>
    <epc>urn:epc:id:sgtin:0088202.503033.100000000222</epc>
    <epc>urn:epc:id:sgtin:0088202.503033.100000000225</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <readPoint>
    <id>urn:epc:id:sgln:088202.67345.0</id>
  </readPoint>
  <bizLocation>
    <id>urn:epc:id:sgln:088202.67345.0</id>
  </bizLocation>
</AggregationEvent>
<ObjectEvent>
  <eventTime>2018-01-31T00:12:27.837Z</eventTime>
  <eventTimeZoneOffset>+00:00</eventTimeZoneOffset>
  <epcList>
    <epc/>
  </epcList>

```

```

<action>OBSERVE</action>
<bizStep>http://epcis.tracelink.com/bizstep/batch_closing</bizStep>
<disposition>http://epcis.tracelink.com/disp/closed</disposition>
<readPoint>
  <id>urn:epc:id:sgln:064202.867702.0</id>
</readPoint>
<extension>
  <ilmd>
    <cbvmdata:lotNumber>L120012</cbvmdata:lotNumber>
    <tl:endOfBatchEventExtensions>
      <tl:internalMaterialCode>11002-5412-11</tl:internalMaterialCode>
      <tl:countryDrugCode type="FDA_NDC_11">US</tl:countryDrugCode>
      <tl:productionQuantity>
        <tl:packagingItemCode type="GTIN-14">00882025030223</tl:packagingItemCode>
        <tl:packagingLevel>EA</tl:packagingLevel>
        <tl:quantityReported>100</tl:quantityReported>
      </tl:productionQuantity>
    </tl:endOfBatchEventExtensions>
  </ilmd>
</extension>
</ObjectEvent>
<extension>
  <TransformationEvent>
    <eventTime>2017-02-19T00:12:27.837Z</eventTime>
    <eventTimeZoneOffset>+00:00</eventTimeZoneOffset>
    <inputEPCList>
      <epc>urn:epc:id:sgtin:088202.5503023.100000000670</epc>
      <epc>urn:epc:id:sgtin:088202.5503023.100000000671</epc>
      <epc>urn:epc:id:sgtin:088202.5503023.100000000672</epc>
    </inputEPCList>
    <outputEPCList>
      <epc>urn:epc:id:sgtin:088202.0503022.100000001020</epc>
    </outputEPCList>
    <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
    <disposition>urn:epcglobal:cbv:disp:active</disposition>
    <bizLocation>
      <id>urn:epc:id:sgln:7777776.67345.0</id>
    </bizLocation>
    <ilmd>
      <cbvmdata:lotNumber>L120012</cbvmdata:lotNumber>

```

```

        <cbvmdata:itemExpirationDate>2020-03-29</cbvmdata:itemExpirationDate>
        <tl:commissionEventExtensions>
            <tl:packagingLevel>EA</tl:packagingLevel>
            <tl:plantLocationId>M0034</tl:plantLocationId>
            <tl:productionLineId>L009</tl:productionLineId>
            <tl:lineManagerName>John Smith</tl:lineManagerName>
            <tl:packagingItemCode type="GTIN-14">00882025030223</tl:packagi
            <tl:manufacturingDate>2018-03-14</tl:manufacturingDate>
            <tl:countryMarket>US</tl:countryMarket>
        </tl:commissionEventExtensions>
    </ilmd>
    <extension>
        <tl:decommissionSourceProduct>true</tl:decommissionSourceProduct>
        <tl:registerSourceProduct>true</tl:registerSourceProduct>
        <tl:repackInputAttributes>
            <cbvmdata:lotNumber>B64894</cbvmdata:lotNumber>
            <cbvmdata:itemExpirationDate>2020-03-29</cbvmdata:itemExpirationDate>
        </tl:repackInputAttributes>
    </extension>
</TransformationEvent>
</extension>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

Errors

Data Element	Error Message	Description
Class 1 Errors		
sbdh:Sender sbdh:Identifier @Authority	Valid Sender/Identifier Authority is required !!!	The error occurs if the source is empty or null.
sbdh:Receiver sbdh:Identifier @Authority	Valid Receiver/Identifier Authority is required !!!	The error occurs if the source is empty or null.
VocabularyElement @id	Item code is required in source VocabularyElement[@id] !!!	The error occurs if the source is empty or null.
	SGTIN or NTIN in VocabularyElement id is required !!!	The error occurs if master data is present in header extension, but the source is not an SGTIN or NTIN.
VocabularyElement attribute	Packaging Level is required if header master data is populated !!!	The error occurs if header master data is populated, but packaging level

Data Element	Error Message	Description
		is missing.
	Either internal material code or country drug code is required !!!	The error occurs if neither tl:internalMaterialCode or tl:countryDrugCode are present.
	Only one country drug code is supported !!!	The error occurs if more than one country drug code is present in the source.
VocabularyElement @id	GLN Party type not supported. SGLN is required !!!	The error occurs if the source is not an SGLN.
	Valid decommissioning event location identifier type is required !!!	The error occurs if the source is invalid.
VocabularyElement attribute	Decommissioning event location business name is required !!!	The error occurs if the source is empty or null.
	Valid business classification code is required !!!	The error occurs if the source is invalid.
	Decommissioning event location street address is required !!!	The error occurs if the source is empty or null.
	Decommissioning event location city is required !!!	The error occurs if the source is empty or null.
	3-digit numeric District code required for country India !!!	The error occurs if country = "IN" and the source is empty or null.
	Decommissioning event location state or region is required !!!	The error occurs if the source is empty or null.
	Decommissioning event location country is required !!!	The error occurs if the source is empty or null. The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement @id	Valid destroy location party lookup identifier type is required !!!	The error occurs if the source is invalid.

Data Element	Error Message	Description
VocabularyElement attribute	Valid business classification code is required !!!	The error occurs if the source is empty or null.
	Destroy event location business name is required !!!	The error occurs if the source is empty or null.
	Destroy event location street address is required !!!	The error occurs if the source is empty or null.
	Destroy event location city is required !!!	The error occurs if the source is empty or null.
	3-digit numeric District code required for country India !!!	The error occurs if country = "IN" and the source is empty or null.
	Destroy event location state or region is required !!!	The error occurs if the source is empty or null.
	Destroy event location country is required !!!	The error occurs if the source is empty or null. The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement attribute	Valid packagingLevel code required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
ObjectEvent (Commissioning Events)	At least one commissioning event is required !!!	The error occurs if both the TransformationEvent and the source are empty or null.
epc	Invalid EPC format !!!	The error occurs if the source is invalid.
ObjectEvent (Commissioning Events) action	Action ADD is required for ObjectEvent commissioning !!!	The error occurs if the source does not equal ADD.
ObjectEvent (Commissioning Events) bizStep	bizStep urn:epcglobal:cbv:bizstep:commissioning is required for ObjectEvent commissioning !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:commissioning".
ObjectEvent (Commissioning Events) disposition	Disposition urn:epcglobal:cbv:disp:active is required for ObjectEvent commissioning !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:active".
ObjectEvent (Commissioning Events) bizLocation id	Event location in the commissioning event is required !!!	The error occurs if the source is empty or null.
cbvmdata:lotNumber	Lot number is required !!!	The error occurs if the source is empty or null. (optional for SSCC commissioned serial numbers)
cbvmdata:itemExpirationDate	Expiration date is required !!!	The error occurs if the source is empty or null. (optional for SSCC commissioned serial numbers)
tl:packagingLevel	Valid packaging level is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Packaging Level is required !!!	The error occurs if the source is empty or null. (optional for SSCC)

Data Element	Error Message	Description
		commissioned serial numbers)
tl:packagingItemCode @type	Packaging item code type required if packagingItemCode is populated !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
tl:countryDrugCode @type	Country drug code type is required if country drug code is populated !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
tl:fieldName	Field name is required if ExtensionField group present in source !!!	The error occurs if the source is empty or null.
tl:fieldValue	Field value is required if ExtensionField group present in source !!!	The error occurs if the source is empty or null.
ObjectEvent (Decommissioning Events) action	Action DELETE is required for decommissioning !!!	The error occurs if the source does not equal DELETE.
ObjectEvent (Decommissioning Events) bizStep	bizStep urn:epcglobal:cbv:bizstep:decommissioning is required for decommissioning !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:decommissioning".
ObjectEvent (Decommissioning Events) disposition	Disposition urn:epcglobal:cbv:disp:inactive is required for decommissioning !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:inactive".
readPoint id	Source read point ID is required !!!	The error occurs if the source is empty or null.
	Valid decommissioning event location identifier type is required !!!	
tl:businessId @type	Valid business identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Party type attribute is required when BusinessId is populated !!!	The error occurs if the source is empty or null.
tl:businessClassification	Valid business classification value is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
tl:businessName	Transfer from business party name is required !!!	The error occurs if the source is empty or null.
tl:street1	Transfer from business party street address is required !!!	The error occurs if the source is empty or null.
tl:city	Transfer from business party city is required !!!	The error occurs if the source is empty or null.
tl:stateOrRegion	Transfer from business party state or region is required !!!	The error occurs if the source is empty or null.
tl:country	Transfer from business party country is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
tl:decommissionReasonCode	Valid reason code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.

Data Element	Error Message	Description
ObjectEvent (Destroying Events) action	Action DELETE is required for destroying !!!	The error occurs if the source does not equal DELETE.
ObjectEvent (Destroying Events) bizStep	bizStep urn:epcglobal:cbv:bizstep:destroying is required for destroying !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:destroying".
ObjectEvent (Destroying Events) disposition	Disposition urn:epcglobal:cbv:disp:destroyed is required for destroying !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:destroyed".
readPoint id	Valid destroy event location identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
parentID	Invalid EPC format !!!	The error occurs if the source is invalid.
AggregationEvent bizStep	bizStep urn:epcglobal:cbv:bizstep:packing is required for the AggregationEvent !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:packing".
AggregationEvent disposition	Disposition urn:epcglobal:cbv:disp:in_progress is required for the AggregationEvent !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:in_progress".
AggregationEvent bizLocation id	Event location in the aggregation event is required !!!	The error occurs if the source is empty or null.
ObjectEvent (End of Batch Events)	End of Batch event data is required !!!	The error occurs if the source is empty or null.
ObjectEvent (End of Batch Events) action	Action OBSERVE is required for ObjectEvent end of batch !!!	The error occurs if the source does not equal OBSERVE.
ObjectEvent (End of Batch Events) bizStep	bizStep http://epcis.tracelink.com/bizstep/batch_closing is required for ObjectEvent end of batch !!!	The error occurs if the source does not equal "http://epcis.tracelink.com/bizstep/batch_closing".
ObjectEvent (End of Batch Events) disposition	Disposition http://epcis.tracelink.com/disp/closed is required for ObjectEvent end of batch !!!	The error occurs if the source does not equal "http://epcis.tracelink.com/disp/closed".
readPoint id	Event location in the end of batch event is required !!!	The error occurs if the source is empty or null.
tl:internalMaterialCode	Either internal material code or country drug code is required !!!	The error occurs if neither tl:internalMaterialCode or tl:countryDrugCode are populated.
tl:productionQuantity choice1	Either packaging item code or company prefix is required !!!	The error occurs if neither tl:packagingItemCode or tl:companyPrefix are populated.
	Only one of packaging item code or company prefix is required !!!	The error occurs if both tl:packagingItemCode and tl:companyPrefix are present.
tl:quantityReported	Quantity report for packaging level EA is required !!!	The error occurs if tl:packagingLevel = EA and source is null or empty.

Data Element	Error Message	Description
inputEPCList	One of either inputEPCList OR inputQuantityList is required !!!	The error occurs if the source is empty or null.
inputEPCList epc	Invalid EPC format !!!	The error occurs if the source value could not be translated or is in a format other than SGTIN or NTIN.
	SSCC code is invalid in inputEPCList !!!	The error occurs if the source is not a SGTIN or NTIN.
quantityElement epcClass	Valid item code is required !!!	The error occurs if the source is invalid.
	Lot number is required !!!	The error occurs if the source is empty or null.
quantityElement quantity	Input quantity for epcClass is required !!!	The error occurs if inputQuantityList is populated, but the source is empty or null.
outputEPCList	Output epc list is required !!!	The error occurs if the source is empty or null.
outputEPCList epc	epc list is required !!!	The error occurs if the source is empty or null.
	SSCC code is invalid in outputEPCList !!!	The error occurs if the source is invalid.
	China resource code serial number is not supported. Serial number must be NTIN or SGTIN !!!	The error occurs if the source is not a NTIN or SGTIN.
	Invalid EPC format !!!	The error occurs if the source is invalid.
bizLocation id	Event location in the commissioning event is required !!!	The error occurs if the source is empty or null.
tl:fieldName	Field name is required !!!	The error occurs if the source is empty or null.
tl:fieldValue	Field value is required !!!	The error occurs if the source is empty or null.
tl:repackInputAttributes	repackInputAttributes group is required if registerSourceProduct equals true !!!	The error occurs if tl:registerSourceProduct is set to true, but the source is empty or null.
Class 2 Errors		
-	-	-
Class 3 Errors		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered..		

Aggregation APIs

Why do I use these messages?

Use these messages to capture the aggregation of serial numbers to a parent container.

Which reports do these messages generate?

These messages generate [911 - Unit Pack](#) and [914 - Unit Append](#) reports in the Russia Compliance application if the items being aggregated have a target market of Russia. TraceLink submits the appropriate report to MDLP, based on which report MDLP is prepared to accept.

ESM Aggregation (EPCIS v1.2)

Guidelines

This message uses the Park and Retry functionality. If a prerequisite condition for this message has not been met, TraceLink stops processing the task, returns the task to the queue, and then tries to process the task again every 15 minutes for up to 2 hours.

Message Type: SOM_ESM_AGGREGATE

Info Exchange Display Name: ESM Aggregate

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

⚠ NTINs *must* follow the [GS1 Guidance](#) standards as found on the GS1 website.

- Ex: urn:epc:id:sgtin:415001647778.0.100000000022
- Format: urn:epc:id:sgtin:[company prefix].[indicator digit][item ref].[serial number]

Information regarding NTINs cannot be exchanged with trade partners unless the specific format outlined above is followed. If using an NTIN without following this format, an outbound error occurs when passing data from TraceLink to a trade partner.

Data Element					Occurs Length	Type	Description
epcis:EPCISDocument					1...1 -	-	Required. EPCIS message root element.
@schemaVersion					1...1 0/*	Decimal	Required. The version of the EPCIS schema used to populate the EPCIS document elements. Must equal 1.2. ¹
@creationDate					1...1 1/*	DateTime	Required. Date the message was created in YYYY-MM-DDTHH:MM:SS:mmZ format. ²
EPCISHeader					0...1 -	-	Required. The XML file control header.
sbdh:StandardBusinessDocumentHeader					1...1 -	-	Required. Business header information including EPCIS Header Version, Sender, and Receiver information, along with the document identification.
sbdh:HeaderVersion					1...1 0/*	String	Required. Version of the Standard Business Document Header (SBDH). The HeaderVersion must be set to 1.0. ³
sbdh:Sender					1...*	-	Required. A unique identification key for the Sender party of the message, representing the organization that created the standard business document. The Sender element must be used only once with GS1 XML messages.
sbdh:Identifier					1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type. ⁴ Send SGLN and all other party types with the GS1-conformant uri prefix, for example: - urn:epc:id:sgln:088202.867701.0 - http://epcis.gs1us.org/hc/dea/loc/10023141 <i>i</i> GLNs do not have a urn/http prefix.
@Authority					1...1 1/*	String	Required. The sender identifier type. The Authority was previously expected to be set to GLN for GS1 XML messages. An update made in December 2016 changed this to accept additional values. ⁵ See the BusinessAndLocationId enumeration list for valid values.
sbdh:Receiver					1...*	-	Required. Indicates a unique identification key for the direct Receiver party of the message, representing the

¹1.2²2013-10-01T22:08:02Z³1.0⁴1100001014507⁵GLN

Data Element				Occurs Length	Type	Description
						organization that receives the standard business document. The Receiver element is used only once with GS1 XML messages.
			sbdh:Identifier	1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type.¹ Send SGLN and all other party types with the GS1-conformant uri prefix, for example: • urn:epc:id:sgln:088202.867701.0 • http://epcis.gs1us.org/hc/dea/loc/10023141  GLNs do not have a urn/http prefix.
			@Authority	1...1 1/*	String	Required. The receiver identifier type. The Authority was previously expected to be set to GLN for GS1 XML messages. An update made in December 2016 changed this to accept additional values.² See the BusinessAndLocationId enumeration list for valid values.
			sbdh:DocumentIdentification	1...1 -	-	Required. Contains the identification group for the message.
			sbdh:Standard	1...1 0/*	String	Required. Name of the document standard contained in the file or message. The standard value for this field is EPCglobal.³
			sbdh:TypeVersion	1...1 0/*	String	Required. Reflects the version of the document included. This is the complete version of the document itself and is different from the HeaderVersion as these are hard-coded values. The TypeVersion is set to 1.0.⁴
			sbdh:InstanceIdentifier	1...1 1/*	String	Required. Reference information that uniquely identifies this instance of the Standard Business Document between the Sender and the Receiver. This identifier confirms this document as being distinct from others.⁵
			sbdh:Type	1...1 0/*	String	Required. Document type. Value is set to Events for an aggregation event.⁶
			sbdh:CreationDateAndTime	1...1 0/*	DateTime	Required. The date and time of the SBDH document's creation. GMT create date and time for the EPCIS message. The system expects the Z to be appended; however, if it is not included, the system assumes that the time is GMT

¹0614141123452²GLN³EPCglobal⁴1.0⁵000001⁶Events

Data Element					Occurs Length	Type	Description
							. ¹
	EPCISBody				1...1 -	-	Required. Contains all of the EPCIS events for the aggregation message.
		EventList			1...1 -	-	Required. The EventList must contain one or more AggregationEvent data elements for an aggregation message.
			AggregationEvent		0...* -	-	The AggregationEvent is used in the EventList and indicates an aggregation event when: • action = ADD • bizStep = urn:epcglobal:cbv:bizstep:packing • disposition = urn:epcglobal:cbv:disp:in_progress
				eventTime	1...1 1/*	DateTime	Required. The time stamp of date/time when the event occurred. Must include a time zone indicator as specified in Section 9.5 of [EPCIS1.0.1]. The system expects the Z to be appended; however if it is not included, the system assumes that the time is GMT and therefore appends the Z . ²
				eventTimeZoneOffset	1...1 1/*	String	Required. The time zone offset in the place where the event occurred, consistent with what choice was made for eventTime . A time offset is an amount of time subtracted from or added to UTC (Coordinated Universal Time) to get the current civil time - whether it is standard time or daylight saving time, per Section 7.2.8 of [EPCIS1.0.1]. ³
				parentID	0...1 0/*	AnyURI	Identifier of the parent container in EPC Pure Identity URI format (e.g. for an item-to-case aggregation, the EPC is of the case; for a case-to-pallet aggregation, the EPC is of the pallet). See EPC Pure Identifier Format Examples . ⁴
				childEPCs	1...1 -	-	Required. Contains a list of identifiers, including the child items, in the parent container in EPC Pure Identity URI format (e.g. for an item-to-case aggregation, the EPCs are of the items; for a case-to-pallet aggregation, the EPCs are of the cases).
				epc	1...* 1/*	String	Required. Identifier of the child items in the parent container in EPC Pure Identity URI format. See EPC Pure Identifier Format Examples . ⁵
				action	1...1 0/*	String	Required. The action taken in the message. The action value must equal ADD for an aggregation event. ⁶ See the ActionType enumeration list for valid values.

¹2013-10-01T22:08:02Z²2013-10-01T22:08:02Z³-04:00⁴urn:epc:id:sgtin:088202.5503022.1000000000670⁵urn:epc:id:sscc:088202.002000000034⁶ADD

Data Element					Occurs Length	Type	Description
				bizStep	1...1 0/*	String	Required. The business step taken in the event. The bizStep value must equal urn:epcglobal:cbv:bizstep:packing for an aggregation event. ¹
				disposition	1...1 0/*	String	Required. The status of the message. It is grouped with the bizStep and action fields to define the message event. The disposition value must equal urn:epcglobal:cbv:disp:in_progress for an aggregation event. ²
				readPoint	0...1 -	-	Location where the event occurred, i.e. the warehouse SGLN location ID and storage location (shelf, bin, etc.) in URN format, that recorded the aggregation event.
				id	1...1 0/*	AnyURI	The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ³
				bizLocation	1...1 -	-	Required. Location of item after the event has occurred.
				id	1...1 1/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN or a finer-grain location identifier. ⁴
				extension	0...1 -	-	Not used - GS1 Reserved.
				tl:locationId	0...1 0/*	String	Location to associate the aggregation. ⁵
				@type	0...1 0/*	String	Required. Attribute that identifies the location types. ⁶ See the LocationIdType enumeration list for valid values.
				tl:aggregationEventExtensions	0...1 -	-	Contains the extensions used for the aggregation event.
				tl:packedStatus	0...1 0/*	String	Packed status of the item or container using the supported enumeration values. ⁷ See the PackedStatus enumeration list for valid values.

¹urn:epcglobal:cbv:bizstep:packing²urn:epcglobal:cbv:disp:in_progress³urn:epc:id:sgln:0614141.12345.RP1⁴urn:epc:id:sgln:0614141.12345.1400⁵urn:epc:id:sgln:0614141.12345.1400⁶GLN⁷FULL

Data Element						Occurs Length	Type	Description
					tl:quantity	0...* –	Integer	The quantity of child serial numbers aggregated to the parent container in this aggregation event. ¹
					tl:resetContainerAggregation	0...1 –	Boolean	Triggers backend processing on aggregation that will disaggregate existing child items from parent container that are not present in the new childEPC list, and aggregate new child items that are present in the new childEPC list. Default value is <code>false</code> . If this field is not populated, TL will not trigger the backend reset of the aggregation. The logic will only be triggered if resetContainerAggregation is set to <code>true</code> . ²
					tl:extensionField	0...* –	–	Customer extension point to pass in 1 or more name/value pairs containing additional data attributes not already supported in this message. If this element group is populated, both the FieldName and FieldValue elements must be populated.  These extensions are not stored by TraceLink and are used only for outbound mapping purposes when there is a requirement to provide additional data to a trade partner for this message, such as when a CMO is required to provide additional data fields to the brand owner. Different trade partners may have different field requirements and may therefore require that the ExtensionField be populated differently per trade partner.
					tl:fieldName	1...1 1/*	String	Required. Field name provided by the trade partner that will be receiving the mapped outbound message. The field name must match the field name provided by the trade partner exactly, including case, so that it can be properly detected in the outbound mapping. ³
					tl:fieldValue	1...1 1/*	String	Required. Field value content that corresponds to the FieldName . ⁴

Example

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<epcis:EPCISDocument xmlns:epcis="urn:epcglobal:epcis:xsd:1" xmlns:tl="http://epcis.tracelink.com/ns"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
  xmlns:epcglobal="urn:epcglobal:xsd:1" schemaVersion="1.2" creationDate="2018-04-30T22:08:02Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
```

¹100²false³NDC_CODE⁴12345678901

```

<sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
<sbdh:Sender>
  <sbdh:Identifier Authority="GLN">6667771013655</sbdh:Identifier>
</sbdh:Sender>
<sbdh:Receiver>
  <sbdh:Identifier Authority="GLN">8887771013655</sbdh:Identifier>
</sbdh:Receiver>
<sbdh:DocumentIdentification>
  <sbdh:Standard>EPCglobal</sbdh:Standard>
  <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
  <sbdh:InstanceIdentifier>2019-06-14T18:45:20.0Z</sbdh:InstanceIdentifier>
  <sbdh:Type>Events</sbdh:Type>
  <sbdh:CreationDateAndTime>2019-06-14T18:45:20.0Z</sbdh:CreationDateAndTime>
</sbdh:DocumentIdentification>
</sbdh:StandardBusinessDocumentHeader>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <AggregationEvent>
      <eventTime>2019-06-14T18:45:20.0Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <parentID>urn:epc:id:sscc:088202.0401034.00200000034</parentID>
      <childEPCs>
        <epc>urn:epc:id:sgtin:005434.40000000019</epc>
      </childEPCs>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
      <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:6667771.01365.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:6667771.01365.0</id>
      </bizLocation>
      <tl:locationId type="DUNS">810040867</tl:locationId>
      <tl:aggregationEventExtensions>
        <tl:packedStatus>FULL</tl:packedStatus>
        <tl:quantity>1000</tl:quantity>
        <tl:resetContainerAggregation>false</tl:resetContainerAggregation>
        <tl:extensionField>

```

```

        <tl:fieldName>NDC_CODE</tl:fieldName>
        <tl:fieldValue>12345678901</tl:fieldValue>
    </tl:extensionField>
</tl:aggregationEventExtensions>
</AggregationEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

Errors

Data Element	Error Message	Description
Class 1		
action	Action ADD is required for is required for the AggregationEvent !!!	The error occurs if the source does not equal "ADD".
bizLocation id	Event location in the aggregation event is required !!!	The error occurs if the source is empty or null.
bizStep	bizStep urn:epcglobal:cbv:bizstep:packing is required for the AggregationEvent !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:packing".
EventList	At least one object for aggregation is required !!!	The error occurs if no Object Event is present.
tl:locationId @type	Valid location identifier type is required if location ID is populated !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
disposition	Disposition urn:epcglobal:cbv:disp:in_progress is required for the AggregationEvent !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:in_progress".
epc	Invalid EPC format !!!	The error occurs if the source could not be translated.
	Invalid EPC format !!!	The error occurs if the source is invalid.
parentID	Invalid EPC format !!!	The error occurs if the source cannot be translated.
	Invalid EPC format !!!	The error occurs if the source is invalid.
sbdh:Receiver sbdh:Identifier @Authority	Valid Receiver/Identifier Authority is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
sbdh:Sender sbdh:Identifier @Authority	Valid Sender/Identifier Authority is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
tl:fieldName	Field name is required if ExtensionField group present in source !!!	The error occurs if the source is empty or null.

Data Element	Error Message	Description
tl:fieldValue	Field value is required if ExtensionField group present in source !!!	The error occurs if the source is empty or null.
Class 2		
-	-	-
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

Aggregate (SOAP)

Aggregate Request

Guidelines

❗ When sending multiple aggregation events (i.e. aggregations, disaggregations, or a combination thereof) at the same time, use the [Aggregation Update](#) message instead of individual Aggregation or Disaggregation messages.

❗ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

The following data is sent in the request to TraceLink:

Data Element	Occurs Length	Type	Description
soapenv:Envelope	1...1 -	-	Required. SOAP Envelope root element.
soapenv:Header	1...1 -	-	Required. SOAP Message Header. Not used by TraceLink.
soapenv:Body	1...1 -	-	Required. SOAP Message Body.
urn:Aggregate	1...1	-	Required. Aggregate Message.

Data Element				Occurs Length	Type	Description
			AggregateRequest	0...1 -	-	Required. The aggregate request message to associate child serial numbers to a parent container. See the Strict element at the bottom of the table for important configuration information. - If true, then the aggregated item(s) must not already have a parent. If they do, an error is returned. - If false, items are re-associated to the new parent and the previous aggregations are adjusted (the system performs an implicit disaggregation and then aggregates the items).
			Container	1...1 -	-	Required. Parent container serial information. If the container is specified, all items must currently be a child of the specified container.
			@sn	1...1 1/*	String	Required. The parent container's serial number. See Serial Number Data Examples .
			@namespace	0...1 1/*	String	Not currently supported by TraceLink. Leave this field blank.
			Items	1...1 -	-	Required. Child serial information.
			Item	1... -	-	Required. A list of one or more child serial numbers to aggregate to the parent container's serial number.
			@sn	1...1 1/*	String	Required. A child serial number. See Serial Number Data Examples .
			@namespace	0...1 1/*	String	Not currently supported by TraceLink. Leave this field blank.
			EventDateTime	0...1 -	Date	The date and time of the aggregation event in XSD Date format in GMT. If omitted, the system will record the current date-time.
			LocationType	0...1 1/*	String	The type of location where the event occurred. See the LocationId enumeration list for valid values.
			Location	0...1 1/*	String	The site-level location identifier where the event occurred.  In most cases, this value is an SGLN, the format for which must be the numeric component only, with the urn prefix stripped (e.g. 8888882.02867.0 instead of urn:epc:id:sgln:8888882.02867.0 typically found in EPCIS events).
			Strict	1...1 -	Boolean	Required. A flag that determines if the system performs an implicit disaggregation and then aggregates the items:

Data Element					Occurs Length	Type	Description
							- If true, then the aggregated item(s) must not already have a parent. If they do, an error will be returned. - If false, then the items are re-associated to the new parent and the items' previous aggregations are adjusted.
				ResetAggregation	0...1 -	Boolean	A flag indicating to disaggregate all existing items in a container and aggregate the new set of items into that container. - If true, TraceLink disaggregates all existing items in the specified container and aggregates the new set of items into that container. - If false (default), TraceLink does not disaggregate all existing items in the specified container.

Example

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:urn="urn:tracelink:soap">
  <soapenv:Header/>
  <soapenv:Body>
    <urn:Aggregate>
      <AggregateRequest>
        <Container sn="00008820200000047506"/>
        <Items>
          <Item sn="015088202503022521100000090109"/>
          <Item sn="015088202503022521100000090110"/>
        </Items>
        <EventDateTime>2015-06-01T17:10:16Z</EventDateTime>
        <LocationType>SGLN</LocationType>
        <Location>8888882.02867.0</Location>
        <Strict>>false</Strict>
      </AggregateRequest>
    </urn:Aggregate>
  </soapenv:Body>
</soapenv:Envelope>
```

Errors

Exception Code	Exception Message
AGGREGATIONUOMFAILURE	Cannot aggregate serial number <serial number> with UOM <unit of measure> into serial number <serial number> with UOM <unit of measure>.

Exception Code	Exception Message
ALREADYAGGREGATED	Serial number <serial number> is already aggregated to <serial number>.
BADAGGREAGTEDATE	Operation could not be performed because event time stamp is earlier than the commission date for serial number <serial number>.
BADITEMSTATE	Cannot perform operation on serial number <serial number> with item state <item state> This operation can only be performed when the serial number is <item state>.
EVENTTIMEAFTERNOW	Event time stamp must not be in the future.
EVENTTIMEBEFORELASTEVENT	Event time stamp is earlier than the last event for serial number <serial number>.
INTERNALERROR	Found more than one serial number for <serial number>.
INTERNALERROR	Internal error from server: <server information>.
NOTCOMMISSIONED	Serial Number <serial number> is not commissioned.
NOTCOMMISSIONEDLOCATION	Serial Number <serial number> was not commissioned at this location.
NOTVALIDLOCATION	Location <location> was not valid for serial number <serial number>.
SNNOTFOUND	Serial Number <serial number> does not exist.
SOMDUPLICATESNS	The following serial numbers were listed more than once: <serial number>.

Aggregate Response

Guidelines

The following data is included in the message response:

Data Element	Occurs Length	Type	Description
S:Envelope	1...1 -	-	Required. SOAP Envelope root element.
S:Body	1...1 -	-	Required. SOAP Message Body.
ns2:AggregateResponse	1...1 -	-	Required. Aggregate response message.
TLResponse	0...1	-	Required. The TraceLink response.

Data Element						Occurs Length	Type	Description
					Success	0...1 -	-	Required. Indicates if the Aggregation request successfully processed. ¹
					ExceptionReturn	0...1 -	-	Conditionally required if Success = false ; omitted otherwise. Error information.
					CallException	1...* -	-	Required. Error information including the exception code and error message if available.
					ExceptionCode	0...1 0/*	String	Required. Error code.
					ExceptionMessage	0...1 0/*	String	Conditionally required if error condition is available. Message that further describes error condition.

Example

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:AggregateResponse xmlns:ns2="urn:tracelink:soap" xmlns:ns3="http://tracelink.com/som">
      <TLResponse>
        <Success>true</Success>
      </TLResponse>
    </ns2:AggregateResponse>
  </S:Body>
</S:Envelope>
```

Aggregation Update (XML)

Guidelines

Use this message to capture both aggregation and disaggregation events simultaneously. If the items being disaggregated have a Russia target market, this message initiates the [913 - Unit Extract](#) report in addition to the [911 - Unit Pack](#) and [914 - Unit Append](#) reports.

¹true

This message uses the Park and Retry functionality. If a prerequisite condition for this message has not been met, TraceLink stops processing the task, returns the task to the queue, and then tries to process the task again every 15 minutes for up to 2 hours.

Message Type: SOM_AGGREGATE_UPDATE

Info Exchange Display Name: Aggregate Update

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

❗ The MDLP Bulk API currently has a limit of 20 events per message.

Data Element			Occurs Length	Type	Description
som:SOMAggregationUpdateMessage			1...1 -	-	Required. The TL XML message root element.
	som:ControlFileHeader		1...1 -	-	Required. The message document's header information.
		cmn:FileSenderNumber	1...1 1/20	String	Required. The company identifier of the file's sender. ¹
		cmn:FileReceiverNumber	1...1 1/20	String	Required. The company identifier of the file's recipient. ²
		cmn:FileControlNumber	1...1 1/*	String	Required. The message's unique file control ID number. A file control ID number is mandatory for all messages. ³
		cmn:FileDate	1...1 1/*	Date	Required. The date that the message is sent in YYYY-MM-DD format. Date and times must be in GMT. ⁴

¹8888882028655

²8888882028677

³20190920-LD3

⁴2019-09-20

Data Element			Occurs Length	Type	Description
		cmn:FileTime	1...1 1/*	Time	Required. Time file generated in XML in HH:MM:SSZ format. The system expects the Z to be appended; however, if it is not included, the system assumes that the time is GMT and therefore appends the Z . ¹
	som:MessageBody		1...1 -	-	Required. Aggregation Update message details.
		choice%1	1...* -	-	Required. Looping choice element. At least one instance of either cmn:Aggregation or cmn:Disaggregation is required.
		cmn:Aggregation	0...1 -	-	Conditionally required if cmn:Disaggregation is not present. Aggregation group header.
		cmn:EventDateTime	1...1 0/*	DateTime	Required. Timestamp of the date and time of the product release with the UTC time zone indicator in YYYY-MM-DDThh:mm:ss.sZ format. ²
		cmn:EventTimeZoneOffset	1...1 6/6	String	Required. The time zone offset in effect where the packaging occurs. Default value is "+00:00". ³
		cmn:EventLocation	1...1 0/34	String	Required. Business or location identifier for the entity that is importing the products. ⁴
		cmn:EventLocationType	1...1 1/*	String	Required. Business or location type for the entity that is importing the product. ⁵ See the BusinessAndLocationId enumeration list for valid values.
		cmn:PlantLocationId	0...1 0/34	String	Plant location identifier if present. ⁶
		cmn:ProductionLineId	0...1 0/*	String	The name of the production line where the packaging occurs. ⁷
		cmn:LineManagerName	0...1 0/*	String	The name of the line or production manager who is on shift when the batch is produced. ⁸

¹04:30:32Z²2019-09-20T04:30:32.12Z³+00:00⁴0333331013655⁵GLN⁶0333331013655⁷12436587⁸Fred Bobbit

Data Element				Occurs Length	Type	Description
			cmn:ParentSerial	1...1 1/*	String	Required. Parent serial number for aggregation expressed in GS1 Application Identifier format, without parentheses, for the AI keys. AI(01)(21) formatted serial numbers for GTINs or AI(00) formatted serial number for SSCCs, without parentheses. Express non-GS1 serial numbers (e.g. China) in native format. ¹
			@companyPrefix	0...1 0/*	String	Conditionally required if commissioning a new SSCC. The GS1 Company Prefix used in GTIN-14 and SSCC serial numbers.
			@filterValue	0...1 0/*	String	Conditionally required if commissioning a new SSCC. The filter value used in GTIN-14 and SSCC serial numbers.
			@format	0...1 0/*	String	Conditionally required if commissioning a new SSCC. Identifies the serial number format. See the Format enumeration list for valid values.
			cmn:PackedStatus	0...1 0/*	String	The packed status of the item or container. ² See the PackedStatus enumeration list for valid values.
			cmn:PackagingLevel	0...1 0/*	String	The packaging level of the item. ³ See the PackagingLevel enumeration list for valid values.
			cmn:Quantity	0...1 -	Integer	Quantity of serial numbers reported. ⁴
			cmn:NumberList	1...1 -	-	Required. List of serial numbers for the items in the parent container.
			cmn:Serial	1...* 1/*	String	Required. Serial number expressed in GS1 Application Identifier format, without parentheses, for the AI keys. AI(01)(21) formatted serial numbers for GTINs or AI(00) formatted serial number for SSCCs, without parentheses. Express non-GS1 serial numbers (e.g. China) in native format. ⁵
			@companyPrefix	0...1 0/*	String	The GS1 Company Prefix used in GTIN-14 and SSCC serial numbers.
			@filterValue	0...1 0/*	String	The filter value used in GTIN-14 and SSCC serial numbers.

¹015088202501033321100000060001²FULL³CA⁴10⁵015088202501033321100000060002

Data Element						Occurs Length	Type	Description
					@format	0...1 0/*	String	Identifies the serial number format. See the Format enumeration list for valid values.
					@packedStatus	0...1 0/*	String	The packed status of the item or container. ¹ See the PackedStatus enumeration list for valid values.
			cmn:ResetContainerAggregation			0...1 -	Boolean	Flag that tells TraceLink what to do if serial numbers already exist in the parent container. Valid values: ² true – The existing child items that are not present in the new cmn:NumberList are disaggregated from their parent container. false (default) – The existing child items that are not present in the new cmn:NumberList are retained in the parent container.
			cmn:DisaggregateFromParent			1...1 -	Boolean	Required. Flag that tells TraceLink whether or not to automatically disaggregate child serial numbers from their existing parent container. Valid values: ³ true – The existing aggregation of the child items is adjusted and the items are aggregated to the new parent container. false – The existing aggregation of the child items is not adjusted and the items are not disaggregated from their parent container.
			cmn:ExtensionField			0...* -	-	Extension to pass one or more name value pairs containing additional data attributes that are not already supported in this message.  The tl:extensionField element group is not stored by TraceLink, and is used only when a trade partner requires additional information (e.g. when a CMO is required to provide additional data fields to the Pharmaceutical Manufacturer).
				cmn:FieldName		1...1 1/*	String	Required. Populate with the field name provided by the trade partner that receives the outbound message.  cmn:FieldName is case sensitive and must match the field name provided by the trade partner exactly.

¹FULL²true³true

Data Element					Occurs Length	Type	Description
				cmn:FieldValue	1...1 1/*	String	Required. The field value that corresponds to cmn:FieldName .
		cmn:Disaggregation			0...1 -	-	Disaggregation group header.
				cmn:EventDateTime	1...1 0/*	DateTime	Required. Timestamp of the date and time of the product release with the UTC time zone indicator in YYYY-MM-DDThh:mm:ss.sZ format. ¹
				cmn:EventTimeZoneOffset	1...1 6/6	String	Required. The time zone offset in effect where the packaging occurs. Default value is "+00:00". ²
				cmn:EventLocation	1...1 0/34	String	Required. Business or location identifier for the entity that is importing the products. ³
				cmn:EventLocationType	1...1 1/*	String	Required. Business or location type for the entity that is importing the products. ⁴ See the BusinessAndLocationId enumeration list for valid values.
				cmn:ParentSerial	0...1 0/*	String	Parent serial number for aggregation expressed in GS1 Application Identifier format, without parentheses, for the AI keys. AI (01)AI(21) formatted serial numbers for GTINs or AI(00) formatted serial number for SSCCs, without parentheses. Express non-GS1 serial numbers (e.g. China) in native format. ⁵
				@companyPrefix	0...1 0/*	String	The GS1 Company Prefix used in GTIN-14 and SSCC serial numbers.
				@filterValue	0...1 0/*	String	The filter value used in GTIN-14 and SSCC serial numbers.
				@format	0...1 0/*	String	Identifies the serial number format. See the Format enumeration list for valid values.
				cmn:NumberList	1...1 -	-	Required. List of serial numbers for the items in the parent container.

¹2019-09-20T06:30:32.12Z²+00:00³0333331013655⁴GLN⁵015088202501033321100000060030

Data Element					Occurs Length	Type	Description
				cmn:Serial	1...* 1/*	String	Required. Serial number expressed in the GS1 Application Identifier format without parenthesis for the AI keys. AI(01)(21) formatted serial number for GTINs or AI(00) formatted serial number for SSCCs. Non-GS1 serial numbers (e.g. China) are expressed in native format. ¹
				@companyPrefix	0...1 0/*	String	The GS1 Company Prefix used in GTIN-14 and SSCC serial numbers.
				@filterValue	0...1 0/*	String	The filter value used in GTIN-14 and SSCC serial numbers.
				@format	0...1 0/*	String	Identifies the serial number format. See the Format enumeration list for valid values.
				@packedStatus	0...1 0/*	String	The packed status of the item or container. ² See the PackedStatus enumeration list for valid values.
				cmn:ExtensionField	0...* -	-	Extension to pass one or more name value pairs containing additional data attributes that are not already supported in this message.  The tl:extensionField element group is not stored by TraceLink, and is used only when a trade partner requires additional information (e.g. when a CMO is required to provide additional data fields to the Pharmaceutical Manufacturer).
				cmn:FieldName	1...1 1/*	String	Required. Populate with the field name provided by the trade partner that receives the outbound message.  cmn:FieldName is case sensitive and must match the field name provided by the trade partner exactly.
				cmn:FieldValue	1...1 1/*	String	Required. The field value that corresponds to cmn:FieldName .

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<som:SOMAggregationUpdateMessage xmlns:som="urn:tracelink:mapper:sl:serialized_operations_manager"
xmlns:cmn="urn:tracelink:mapper:sl:commontypes">
  <som:ControlFileHeader>
```

¹015088202501033321100000060031

²FULL

```

<cmn:FileSenderNumber>8888882028644</cmn:FileSenderNumber>
<cmn:FileReceiverNumber>8888882028677</cmn:FileReceiverNumber>
<cmn:FileControlNumber>20130821065245</cmn:FileControlNumber>
<cmn:FileDate>2019-09-20</cmn:FileDate>
<cmn:FileTime>06:52:45.02Z</cmn:FileTime>
</som:ControlFileHeader>
<som:MessageBody>
  <som:Aggregation>
    <cmn:EventDateTime>2019-09-20T06:30:32.12Z</cmn:EventDateTime>
    <cmn:EventTimeZoneOffset>+04:00</cmn:EventTimeZoneOffset>
    <cmn:EventLocation>0333331013655</cmn:EventLocation>
    <cmn:EventLocationType>GLN</cmn:EventLocationType>
    <cmn:PlantLocationId>0333331013655</cmn:PlantLocationId>
    <cmn:ProductionLineId>12436587</cmn:ProductionLineId>
    <cmn:LineManagerName>Fred Bobbit</cmn:LineManagerName>
    <cmn:ParentSerial>015088202501033321100000060001</cmn:ParentSerial>
    <cmn:PackedStatus>FULL</cmn:PackedStatus>
    <cmn:PackagingLevel>CA</cmn:PackagingLevel>
    <cmn:Quantity>20</cmn:Quantity>
    <cmn:NumberList>
      <cmn:Serial>015088202501033321100000060002</cmn:Serial>
      <cmn:Serial>015088202501033321100000060003</cmn:Serial>
      <cmn:Serial>015088202501033321100000060004</cmn:Serial>
      <cmn:Serial>015088202501033321100000060005</cmn:Serial>
      <cmn:Serial>015088202501033321100000060006</cmn:Serial>
      <cmn:Serial>015088202501033321100000060007</cmn:Serial>
      <cmn:Serial>015088202501033321100000060008</cmn:Serial>
      <cmn:Serial>015088202501033321100000060009</cmn:Serial>
    </cmn:NumberList>
    <cmn:ResetContainerAggregation>true</cmn:ResetContainerAggregation>
    <cmn:DisaggregateFromParent>true</cmn:DisaggregateFromParent>
  </som:Aggregation>
  <som:Aggregation>
    <cmn:EventDateTime>2019-09-20T06:30:32.12Z</cmn:EventDateTime>
    <cmn:EventTimeZoneOffset>+04:00</cmn:EventTimeZoneOffset>
    <cmn:EventLocation>0333331013655</cmn:EventLocation>
    <cmn:EventLocationType>GLN</cmn:EventLocationType>
    <cmn:PlantLocationId>0333331013655</cmn:PlantLocationId>
    <cmn:ProductionLineId>12436587</cmn:ProductionLineId>
    <cmn:LineManagerName>Fred Bobbit</cmn:LineManagerName>

```

```

<cmn:ParentSerial>015088202501033321100000060010</cmn:ParentSerial>
<cmn:PackedStatus>FULL</cmn:PackedStatus>
<cmn:PackagingLevel>CA</cmn:PackagingLevel>
<cmn:Quantity>20</cmn:Quantity>
<cmn:NumberList>
  <cmn:Serial>015088202501033321100000060011</cmn:Serial>
  <cmn:Serial>015088202501033321100000060012</cmn:Serial>
  <cmn:Serial>015088202501033321100000060013</cmn:Serial>
  <cmn:Serial>015088202501033321100000060014</cmn:Serial>
  <cmn:Serial>015088202501033321100000060015</cmn:Serial>
  <cmn:Serial>015088202501033321100000060016</cmn:Serial>
  <cmn:Serial>015088202501033321100000060017</cmn:Serial>
  <cmn:Serial>015088202501033321100000060018</cmn:Serial>
</cmn:NumberList>
<cmn:ResetContainerAggregation>true</cmn:ResetContainerAggregation>
<cmn:DisaggregateFromParent>true</cmn:DisaggregateFromParent>
</som:Aggregation>
<som:Aggregation>
  <cmn:EventDateTime>2019-09-20T06:30:32.12Z</cmn:EventDateTime>
  <cmn:EventTimeZoneOffset>+04:00</cmn:EventTimeZoneOffset>
  <cmn:EventLocation>0333331013655</cmn:EventLocation>
  <cmn:EventLocationType>GLN</cmn:EventLocationType>
  <cmn:PlantLocationId>0333331013655</cmn:PlantLocationId>
  <cmn:ProductionLineId>12436587</cmn:ProductionLineId>
  <cmn:LineManagerName>Fred Bobbit</cmn:LineManagerName>
  <cmn:ParentSerial>015088202501033321100000060051</cmn:ParentSerial>
  <cmn:PackedStatus>FULL</cmn:PackedStatus>
  <cmn:PackagingLevel>CA</cmn:PackagingLevel>
  <cmn:Quantity>20</cmn:Quantity>
  <cmn:NumberList>
    <cmn:Serial>015088202501033321100000060052</cmn:Serial>
    <cmn:Serial>015088202501033321100000060053</cmn:Serial>
    <cmn:Serial>015088202501033321100000060054</cmn:Serial>
    <cmn:Serial>015088202501033321100000060055</cmn:Serial>
    <cmn:Serial>015088202501033321100000060056</cmn:Serial>
    <cmn:Serial>015088202501033321100000060057</cmn:Serial>
    <cmn:Serial>015088202501033321100000060058</cmn:Serial>
    <cmn:Serial>015088202501033321100000060059</cmn:Serial>
  </cmn:NumberList>
  <cmn:ResetContainerAggregation>true</cmn:ResetContainerAggregation>

```

```

    <cmn:DisaggregateFromParent>true</cmn:DisaggregateFromParent>
  </som:Aggregation>
  <som:Disaggregation>
    <cmn:EventDateTime>2019-09-20T06:30:32.12Z</cmn:EventDateTime>
    <cmn:EventTimeZoneOffset>+04:00</cmn:EventTimeZoneOffset>
    <cmn:EventLocation>0333331013655</cmn:EventLocation>
    <cmn:EventLocationType>GLN</cmn:EventLocationType>
    <cmn:ParentSerial>015088202501033321100000060020</cmn:ParentSerial>
    <cmn:NumberList>
      <cmn:Serial>015088202501033321100000060021</cmn:Serial>
      <cmn:Serial>015088202501033321100000060022</cmn:Serial>
    </cmn:NumberList>
  </som:Disaggregation>
  <som:Disaggregation>
    <cmn:EventDateTime>2019-09-20T06:30:32.12Z</cmn:EventDateTime>
    <cmn:EventTimeZoneOffset>+04:02</cmn:EventTimeZoneOffset>
    <cmn:EventLocation>0333331013655</cmn:EventLocation>
    <cmn:EventLocationType>GLN</cmn:EventLocationType>
    <cmn:ParentSerial>015088202501033321100000060030</cmn:ParentSerial>
    <cmn:NumberList>
      <cmn:Serial>015088202501033321100000060031</cmn:Serial>
      <cmn:Serial>015088202501033321100000060032</cmn:Serial>
    </cmn:NumberList>
  </som:Disaggregation>
</som:MessageBody>
</som:SOMAggregationUpdateMessage>

```

Errors

Data Element	Error Message	Description
Class 1		
choice%1	At least one instance of either Aggregation or Disaggregation is required !!!	The error occurs if cmn:Aggregation and cmn:Disaggregation are both empty or null.
cmn:Aggregation cmn:EventLocation	Event location is required !!!	The error occurs if the source is empty or null.
cmn:Aggregation cmn:EventLocationType	Valid event location type is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
cmn:Aggregation cmn:ParentSerial	Parent serial number is required !!!	The error occurs if the source is empty or null.

Data Element	Error Message	Description
cmn:Aggregation cmn:ParentSerial @format	Valid format code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:Aggregation cmn:ParentSerial cmn:PackedStatus	Valid packaging level code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:PackagingLevel	Valid packaging level code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:Aggregation cmn:NumberList cmn:Serial	Serial number is required !!!	The error occurs if the source is empty or null.
cmn:Aggregation cmn:NumberList cmn:Serial @format	Valid format code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:Aggregation cmn:ExtensionField cmn:FieldName	Field name is required if extension field group present !!!	The error occurs if cmn:ExtensionField is populated, but the source is empty or null.
cmn:Aggregation cmn:ExtensionField cmn:FieldValue	Field value is required if extension field group present !!!	The error occurs if cmn:ExtensionField is populated, but the source is empty or null.
cmn:Disaggregation cmn:EventLocation	Event location is required !!!	The error occurs if the source is empty or null.
cmn:Disaggregation cmn:EventLocationType	Valid event location type is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
cmn:Disaggregation cmn:ParentSerial @format	Valid format code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:Disaggregation cmn:ParentSerial cmn:PackedStatus	Valid packaging level code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:Disaggregation cmn:NumberList cmn:Serial	Serial number is required !!!	The error occurs if the source is empty or null.
cmn:Disaggregation cmn:NumberList cmn:Serial @format	Valid format code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:Disaggregation cmn:ExtensionField cmn:FieldName	Field name is required if extension field group present !!!	The error occurs if cmn:ExtensionField is populated, but the source is empty or null.
cmn:Disaggregation cmn:ExtensionField cmn:FieldValue	Field value is required if extension field group present !!!	The error occurs if cmn:ExtensionField is populated, but the source is empty or null.
Class 2		
cmn:Aggregation cmn:EventDateTime	Event timestamp is earlier than the last event for serial number <Serial	The error occurs if the source is before the commission event time for

Data Element	Error Message	Description
	Number>.	cmn:Aggregation cmn:NumberList cmn:Serial .
cmn:Aggregation cmn:ParentSerial	Serial number <Serial Number> does not exist.	The error occurs if the source does not exist in TraceLink.
	Parent Serial Number <ParentSerial> was not commissioned at this location.	The error occurs if the source was not commissioned at this subscriber location.
cmn:Aggregation cmn:NumberList cmn:Serial	Serial number <Serial Number> does not exist.	The error occurs if the source does not exist in TraceLink.
	Serial Number <Serial> cannot be aggregated because it was not commissioned for this location.	The error occurs if the source was not commissioned at this subscriber location.
	Cannot aggregate Serial number <Serial> with UOM <PackagingLevelUOM> into Serial Number <ParentSerial> with UOM <PackagingLevelUOM>.	The error occurs if the source packaging level is larger than the packaging level for cmn:ParentSerial.
cmn:Disaggregation cmn:EventDateTime	Event timestamp is earlier than the aggregation date for serial number <Serial>.	The error occurs if the source is before the aggregation event time for cmn:Disaggregation cmn:NumberList cmn:Serial .
cmn:Disaggregation cmn:EventLocation	Authorization Response from server: Credentials are required to access this resource.	The error occurs if the source cannot be found.
cmn:Disaggregation cmn:ParentSerial	Serial number <Serial Number> does not exist.	The error occurs if the source does not exist in TraceLink.
	Serial number <Serial Number> not commissioned.	The error occurs if the source was not commissioned at this subscriber location.
	Cannot perform operation on serial number [Serial Number] with item state [Serial Number Status]. This operation can only be performed when the serial number is Available or Blocked or Picked.	The error occurs if the source is not in an available, blocked, or picked state.
	Serial number <Serial Number> does not have any items aggregated to it.	The error occurs if the source has no child serial numbers.
cmn:Disaggregation cmn:NumberList cmn:Serial	Serial Number <Serial> cannot be disaggregated because it was not previously aggregated to <ParentSerial>.	The error occurs if the source is not a child of cmn:Disaggregation cmn:ParentSerial .
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

Aggregation Update (EPCIS v1.2)

Guidelines

Use this message to capture both aggregation and disaggregation events simultaneously. If the items being disaggregated have a Russia target market, this message initiates the [913 - Unit Extract](#) report in addition to the [911 - Unit Pack](#) and [914 - Unit Append](#) reports.

This message uses the Park and Retry functionality. If a prerequisite condition for this message has not been met, TraceLink stops processing the task, returns the task to the queue, and then tries to process the task again every 15 minutes for up to 2 hours.

Message Type: SOM_AGGREGATE_UPDATE

Info Exchange Display Name: Aggregate Update

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

❗ The MDLP Bulk API currently has a limit of 20 events per message.

Data Element	Occurs Length	Type	Description
epcis:EPCISDocument	1...1 -	-	Required. EPCIS message root element.
@schemaVersion	1...1 0/*	Decimal	Required. The version of the EPCIS schema used to populate the EPCIS document elements. Must equal 1.2 . ¹
@creationDate	1...1 1/*	DateTime	Date the message was created in YYYY-MM-DDTHH:MM:SS:mmZ format. ²
EPCISHeader	0...1 -	-	Required. The XML file control header.

¹1.2

²2019-10-18T22:08:02Z

Data Element					Occurs Length	Type	Description
				sbdh:StandardBusinessDocumentHeader	1...1 -	-	Required. Business header information including EPCIS Header Version, Sender, and Receiver information, along with the document identification.
				sbdh:HeaderVersion	1...1 0/*	String	Required. Version of the Standard Business Document Header (SBDH). The HeaderVersion must be set to 1.0 . ¹
				sbdh:Sender	1...* -	-	Required. A unique identification key for the Sender party of the message, representing the organization that created the standard business document. The Sender element must be used only once with GS1 XML messages.
				sbdh:Identifier	1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type. Send SGLN and all other party types with the GS1-conformant URI prefix. For example:² http://epcis.gs1us.org/hc/dea/loc/10023141 urn:epc:id:sgln:088202.867701.0  GLNs do not have a urn or http prefix.
				@Authority	1...1 1/*	String	Required. The sender identifier type. The Authority was previously expected to be set to GLN for GS1 XML messages. An update made in December 2016 changed this to accept additional values.³ See the BusinessAndLocationId enumeration list for valid values.
				sbdh:Receiver	1...* -	-	Required. Indicates a unique identification key for the direct Receiver party of the message, representing the organization that receives the standard business document. The Receiver element is used only once with GS1 XML messages.
				sbdh:Identifier	1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type. Send SGLN and all other party types with the GS1-conformant URI prefix. For example:⁴ http://epcis.gs1us.org/hc/dea/loc/10023141 urn:epc:id:sgln:088202.867701.0  GLNs do not have a urn or http prefix.

¹1.0²1100001014507³GLN⁴0614141123452

Data Element						Occurs Length	Type	Description	
					@Authority	1...1 1/*	String	Required. The receiver identifier type. The Authority was previously expected to be set to GLN for GS1 XML messages. An update made in December 2016 changed this to accept additional values. ¹ See the BusinessAndLocationId enumeration list for valid values.	
			sbdh:DocumentIdentification			1...1	-	Required. Contains the identification group for the message.	
				sbdh:Standard			1...1 0/*	String	Required. Name of the document standard contained in the file or message. The standard value for this field is EPCglobal . ²
				sbdh:TypeVersion			1...1 0/*	String	Required. Reflects the version of the document included. This is the complete version of the document itself and is different from the HeaderVersion as these are hard-coded values. The TypeVersion is set to 1.0 . ³
				sbdh:InstanceIdentifier			1...1 1/*	String	Required. Reference information that uniquely identifies this instance of the Standard Business Document between the Sender and the Receiver. This identifier confirms this document as being distinct from others. ⁴
				sbdh:Type			1...1 0/*	String	Required. This element identifies the type of the document. The Type must equal Events . ⁵
				sbdh:CreationDateAndTime			1...1 0/*	DateTime	Required. The date and time of the SBDH document's creation. GMT create date and time for the EPCIS message. The system expects the Z to be appended; however, if it is not included, the system assumes that the time is GMT and therefore appends the Z . ⁶
	EPCISBody					1...1 -	-	Required. Contains all of the EPCIS events for this message.	
		EventList				1...1 -	-	Required. The EventList supports the following events: • AggregationEvent for aggregation • AggregationEvent for disaggregation	
			AggregationEvent			0...* -	-	Required. AggregationEvent is used for both aggregation and disaggregation events. The type of event is defined by the following: • For an aggregation event, the following must be true:	

¹GLN²EPCglobal³1.0⁴000001⁵Events⁶2019-10-18T22:08:02Z

Data Element				Occurs Length	Type	Description
						• action = ADD • bizStep = urn:epcglobal:cbv:bizstep:packing • disposition = urn:epcglobal:cbv:in_progress • For a disaggregation event, the following must be true: • action = DELETE • bizStep = urn:epcglobal:cbv:bizstep:unpacking • disposition = urn:epcglobal:cbv:disp:in_progress
			eventTime	1...1 1/*	DateTime	Required. The time stamp of the date or time when the event occurred in YYYY-MM-DDTHH:MM:SS.mm or YYYY-MM-DDTHH:MM:SS.mmm format. Must include a time zone indicator as specified in Section 9.5 of EPCIS1.0.1. The system expects the Z to be appended to the time zone indicator; if it is not present, TraceLink assumes that the time is GMT and therefore appends the Z. ¹
			eventTimeZoneOffset	1...1 0/*	DateTime	Required. The time zone offset in effect where the packaging occurs. Default value is +00:00 .
			parentID	1...1 1/*	String	Conditionally required for an aggregation event when aggregating, i.e. when the following is true: • action = ADD • bizStep = urn:epcglobal:cbv:bizstep:packing • disposition = urn:epcglobal:cbv:in_progress Identifier of the parent container in EPC Pure Identity URI format. Examples:² • For an item-to-case aggregation, the EPC of the case. • For a case-to-pallet aggregation, the EPC of the pallet.
			childEPCs	1...1 -	-	Required. List of identifiers of the child items in the parent container in EPC Pure Identity URI format. Examples:

¹2019-10-18T22:08:02Z²urn:epc:id:sgtin:088202.5503022.100000000670

urn:epc:id:sscc:088202.002000000034

http://epcis.tracelink.com/hc/cn-edmc/obj/88102301100002005943

http://epcis.tracelink.com/hc/ntin/obj/4150.001647778.100000000002

Data Element					Occurs Length	Type	Description
							- For an item-to-case aggregation, the EPCs of the items. - For a case-to-pallet aggregation, the EPCs of the cases.
				epc	0...* 0/*	AnyURI	Required. Identifier of the child items in the parent container in EPC Pure Identity URI format. ¹
				action	1...1 1/*	String	Required. The action taken. ² - For an aggregation event, action must equal ADD. - For a disaggregation event, action must equal DELETE.
				bizStep	0...1 0/*	AnyURI	Required. The business step. ³ - For an aggregation event, bizStep must equal urn:epcglobal:cbv:bizstep:packing. - For a disaggregation event, bizStep must equal urn:epcglobal:cbv:bizstep:unpacking.
				disposition	0...1 0/*	AnyURI	Required. The status of the message. ⁴ - For an aggregation event, disposition must equal urn:epcglobal:cbv:disp:in_progress. - For a disaggregation event, disposition must equal urn:epcglobal:cbv:disp:in_progress.
				readPoint	0...1 -	-	Refers to the location of where the event occurs.
				id	0...1 0/*	AnyURI	The SGLN EPC of the location from where the event occurs. ⁵
				bizLocation	1...1 -	-	Required. Location of the business.

¹urn:epc:id:sgtin:088202.5503022.100000000670

urn:epc:id:sscc:088202.002000000034

http://epcis.tracelink.com/hc/cn-edmc/obj/88102301100002005943

http://epcis.tracelink.com/hc/ntin/obj/4150.001647778.100000000002

²ADD³urn:epcglobal:cbv:bizstep:packing⁴urn:epcglobal:cbv:disp:in_progress⁵urn:epc:id:sgln:1100001.12345.0

Data Element						Occurs Length	Type	Description
					id	1...1 1/*	AnyURI	Required. The SGLN EPC of the location where the objects are following the event. ¹
				tl:aggregationEventExtensions		0...1 -	-	Extensions for AggregationEvent .
					tl:packedStatus	0...1 0/*	String	The packed status of the item or container.² See the PackedStatus enumeration list for valid values. i Use for only an aggregation event when aggregating, i.e. when the following is true: action = "ADD" bizStep = "urn:epcglobal:cbv:bizstep:packing" disposition = "urn:epcglobal:cbv:disp:in_progress"
					tl:quantity	0...1 -	Int	The quantity of child serial numbers aggregated to the parent container.³ i Use for only an aggregation event when aggregating, i.e. when the following is true: action = "ADD" bizStep = "urn:epcglobal:cbv:bizstep:packing" disposition = "urn:epcglobal:cbv:disp:in_progress"
					tl:filterValue	0...1 0/*	String	Conditionally required if commissioning a new SSCC. The filter value used in GTIN-14 and SSCC serial numbers. ⁴
					tl:packagingLevel	0...1 0/*	String	The packaging level of the commissioned item.⁵ See the PackagingLevel enumeration list for valid values. i Use for only an aggregation event when aggregating, i.e. when the following is true:

¹urn:epc:id:sgln:1100001.12345.0²FULL³48⁴1⁵CA

Data Element					Occurs Length	Type	Description
							• action = "ADD" • bizStep = "urn:epcglobal:cbv:bizstep:packing" • disposition = "urn:epcglobal:cbv:disp:in_progress"
				tl:resetContainerAggregation	0...1 -	Boolean	If set to true, existing child items that are not present in the new childEPCs are disaggregated from their parent container. New child items that are present in the new childEPCs are then aggregated to the parent container.¹ If a value is not specified, defaults to false. i Use for only an aggregation event when aggregating, i.e. when the following is true: • action = "ADD" • bizStep = "urn:epcglobal:cbv:bizstep:packing" • disposition = "urn:epcglobal:cbv:disp:in_progress"
				tl:disaggregateFromParent	1...1 -	Boolean	Required. If set to true, the existing aggregation of the child items is adjusted and the items are aggregated to the new parent container (i.e. TraceLink performs an implicit disaggregation and then aggregates the items).²
				tl:plantLocationId	0...1 0/*	String	Plant location identifier.³ i Use for only an aggregation event when aggregating, i.e. when the following is true: • action = "ADD" • bizStep = "urn:epcglobal:cbv:bizstep:packing" • disposition = "urn:epcglobal:cbv:disp:in_progress"
				tl:productionLineId	0...1 0/*	String	The name of the production line where the packaging occurs.⁴ i Use for only an aggregation event when aggregating, i.e. when the following is true:

¹true²true³0333331013655⁴12436587

Data Element						Occurs Length	Type	Description
								action = "ADD" bizStep = "urn:epcglobal:cbv:bizstep:packing" disposition = "urn:epcglobal:cbv:disp:in_progress"
					tl:lineManagerName	0...1 0/*	String	The name of the line or production manager who is on shift when the batch is produced.¹ ❗ Use for only an aggregation event when aggregating, i.e. when the following is true: action = "ADD" bizStep = "urn:epcglobal:cbv:bizstep:packing" disposition = "urn:epcglobal:cbv:disp:in_progress"
					tl:extensionField	0...* -	-	Extension to pass 1 or more name value pairs containing additional data attributes that are not already supported in this message. ❗ The tl:extensionField element group is not stored by TraceLink, and is used only when a trade partner requires additional information (e.g. when a CMO is required to provide additional data fields to the Pharmaceutical Manufacturer).
					tl:fieldName	1...1 1/*	String	Required. Populate with the field name provided by the trade partner that receives the outbound message. ❗ tl:fieldName is case sensitive and must match the field name provided by the trade partner exactly.
					tl:fieldValue	1...1 1/*	String	Required. The field value that corresponds to the tl:fieldName.

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
xmlns:tl="http://epcis.tracelink.com/ns" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader" schemaVersion="1.2"
creationDate="2019-10-18T17:45:20.00Z">
  <EPCISHeader>
```

¹Fred Bobbit


```

<sbdh:StandardBusinessDocumentHeader>
  <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
  <sbdh:Sender>
    <sbdh:Identifier Authority="GLN">0882028677019</sbdh:Identifier>
  </sbdh:Sender>
  <sbdh:Receiver>
    <sbdh:Identifier Authority="GLN">0333331013655</sbdh:Identifier>
  </sbdh:Receiver>
  <sbdh:DocumentIdentification>
    <sbdh:Standard>EPCglobal</sbdh:Standard>
    <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
    <sbdh:InstanceIdentifier>201901311745200001</sbdh:InstanceIdentifier>
    <sbdh:Type>Events</sbdh:Type>
    <sbdh:CreationDateAndTime>2019-10-18T17:45:20.00Z</sbdh:CreationDateAndTime>
  </sbdh:DocumentIdentification>
</sbdh:StandardBusinessDocumentHeader>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <AggregationEvent>
      <eventTime>2019-10-18T22:08:02Z</eventTime>
      <eventTimeZoneOffset>+00:00</eventTimeZoneOffset>
      <parentID>urn:epc:id:sscc:088202.00200000034</parentID>
      <childEPCs>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060001</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060002</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060003</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060004</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060005</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060006</epc>
      </childEPCs>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
      <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
      <bizLocation>
        <id>urn:epc:id:sgln:7777776.67345.0</id>
      </bizLocation>
      <tl:aggregationEventExtensions>
        <tl:packedStatus>FULL</tl:packedStatus>
        <tl:quantity>50</tl:quantity>
      </tl:aggregationEventExtensions>
    </AggregationEvent>
  </EventList>
</EPCISBody>
</EPCIS>

```

```

        <tl:packagingLevel>CA</tl:packagingLevel>
        <tl:resetContainerAggregation>true</tl:resetContainerAggregation>
        <tl:disaggregateFromParent>true</tl:disaggregateFromParent>
        <tl:plantLocationId>0333331013655</tl:plantLocationId>
        <tl:productionLineId>12436587</tl:productionLineId>
        <tl:lineManagerName>Fred Bobbit</tl:lineManagerName>
    </tl:aggregationEventExtensions>
</AggregationEvent>
<AggregationEvent>
    <eventTime>2019-10-18T22:08:02Z</eventTime>
    <eventTimeZoneOffset>+00:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:088202.00200000034</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060007</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060008</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060009</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060010</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060011</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060012</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <bizLocation>
        <id>urn:epc:id:sgln:7777776.67345.0</id>
    </bizLocation>
    <tl:aggregationEventExtensions>
        <tl:packedStatus>FULL</tl:packedStatus>
        <tl:quantity>50</tl:quantity>
        <tl:packagingLevel>CA</tl:packagingLevel>
        <tl:resetContainerAggregation>true</tl:resetContainerAggregation>
        <tl:disaggregateFromParent>true</tl:disaggregateFromParent>
        <tl:plantLocationId>0333331013655</tl:plantLocationId>
        <tl:productionLineId>12436587</tl:productionLineId>
        <tl:lineManagerName>Fred Bobbit</tl:lineManagerName>
    </tl:aggregationEventExtensions>
</AggregationEvent>
<AggregationEvent>
    <eventTime>2019-10-18T22:08:02Z</eventTime>
    <eventTimeZoneOffset>+00:00</eventTimeZoneOffset>

```

```

<parentID>urn:epc:id:sscc:088202.00200000035</parentID>
<childEPCs>
  <epc>urn:epc:id:sgtin:0882025.501033.100000060107</epc>
  <epc>urn:epc:id:sgtin:0882025.501033.100000060108</epc>
  <epc>urn:epc:id:sgtin:0882025.501033.100000060109</epc>
  <epc>urn:epc:id:sgtin:0882025.501033.100000060110</epc>
</childEPCs>
<action>DELETE</action>
<bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
<disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
<bizLocation>
  <id>urn:epc:id:sgln:7777776.67345.0</id>
</bizLocation>
</AggregationEvent>
<AggregationEvent>
  <eventTime>2019-10-18T22:08:02Z</eventTime>
  <eventTimeZoneOffset>+00:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sscc:088202.00200000035</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:0882025.501033.100000060013</epc>
    <epc>urn:epc:id:sgtin:0882025.501033.100000060014</epc>
    <epc>urn:epc:id:sgtin:0882025.501033.100000060015</epc>
    <epc>urn:epc:id:sgtin:0882025.501033.100000060016</epc>
    <epc>urn:epc:id:sgtin:0882025.501033.100000060017</epc>
    <epc>urn:epc:id:sgtin:0882025.501033.100000060018</epc>
  </childEPCs>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <bizLocation>
    <id>urn:epc:id:sgln:7777776.67345.0</id>
  </bizLocation>
  <tl:aggregationEventExtensions>
    <tl:packedStatus>FULL</tl:packedStatus>
    <tl:quantity>50</tl:quantity>
    <tl:packagingLevel>CA</tl:packagingLevel>
    <tl:resetContainerAggregation>true</tl:resetContainerAggregation>
    <tl:disaggregateFromParent>true</tl:disaggregateFromParent>
    <tl:plantLocationId>0333331013655</tl:plantLocationId>
    <tl:productionLineId>12436587</tl:productionLineId>
  </tl:aggregationEventExtensions>

```

```

        <tl:lineManagerName>Fred Bobbit</tl:lineManagerName>
    </tl:aggregationEventExtensions>
</AggregationEvent>
<AggregationEvent>
    <eventTime>2019-10-18T22:08:02Z</eventTime>
    <eventTimeZoneOffset>+00:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:088202.00200001035</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060207</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060208</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060209</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060210</epc>
    </childEPCs>
    <action>DELETE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <bizLocation>
        <id>urn:epc:id:sgln:7777776.67345.0</id>
    </bizLocation>
</AggregationEvent>
<AggregationEvent>
    <eventTime>2019-10-18T22:08:02Z</eventTime>
    <eventTimeZoneOffset>+00:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:088202.00200002035</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060307</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060308</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060309</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060310</epc>
    </childEPCs>
    <action>DELETE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <bizLocation>
        <id>urn:epc:id:sgln:7777776.67345.0</id>
    </bizLocation>
</AggregationEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

Errors

Data Element	Error Message	Description
Class 1		
AggregationEvent	At least one aggregation event is required !!!	The error occurs if no AggregationEvent is present.
parentID	Invalid EPC format !!!	The error occurs if the source is invalid.
epc	Invalid EPC format !!!	The error occurs if the source is invalid or is empty or null.
action	Action ADD is required for aggregation !!!	The error occurs if the source does not equal "ADD" for an aggregation event.
	Action DELETE is required for disaggregation !!!	The error occurs if the source does not equal "DELETE" for a disaggregation event.
bizStep	bizStep urn:epcglobal:cbv:bizstep:packing is required for aggregation !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:packing" for an aggregation event.
	bizStep urn:epcglobal:cbv:bizstep:unpacking is required for disaggregation !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:unpacking" for a disaggregation event.
disposition	Disposition urn:epcglobal:cbv:disp:in_progress is required for aggregation !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:in_progress" for an aggregation event.
	Disposition urn:epcglobal:cbv:disp:in_progress is required for disaggregation !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:in_progress" for a disaggregation event.
bizLocation id	Business location is required !!!	The error occurs if the source is empty or null.
	Valid business location identifier type is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
tl:packedStatus	Valid packed status is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
tl:packagingLevel	Valid packaging level code is required !!!	The error occurs if the source is invalid.
tl:fieldName	Field name is required if extension field group is present !!!	The error occurs if tl:extensionField is populated, but the source is empty or null.
tl:fieldValue	Field value is required if extension field group present !!!	The error occurs if tl:extensionField is populated, but the source is empty or null.

Data Element	Error Message	Description
Class 2		
AggregationEvent (aggregation event) eventTime	Event timestamp is earlier than the last event for serial number <Serial Number>.	The error occurs if the source is before the commission event time for AggregationEvent (aggregation event) parentID .
AggregationEvent (disaggregation event) eventTime	Event timestamp is earlier than the aggregation date for serial number <Serial>.	The error occurs if the source is before the aggregation event time for AggregationEvent (disaggregation event) parentID .
AggregationEvent (aggregation event) parentID	Serial number <Serial Number> does not exist.	The error occurs if the source does not exist in TraceLink.
	Parent Serial Number <ParentSerial> was not commissioned at this location.	The error occurs if the source was not commissioned at this subscriber location.
AggregationEvent (disaggregation event) parentID	Serial number <Serial Number> does not exist.	The error occurs if the source does not exist in TraceLink.
	Serial number <Serial Number> not commissioned.	The error occurs if the source was not commissioned at this subscriber location.
	Cannot perform operation on serial number [Serial Number] with item state [Serial Number Status]. This operation can only be performed when the serial number is Available or Blocked or Picked.	The error occurs if the source is not in an available, blocked, or picked status.
	Serial number <Serial Number> does not have any items aggregated to it.	The error occurs if the source has no child serial numbers.
Aggregation Event (aggregation event) childEPCs epc	Serial number <Serial Number> does not exist.	The error occurs if the source does not exist in TraceLink.
	Serial Number <Serial> cannot be aggregated because it was not commissioned for this location.	The error occurs if the source was not commissioned at this subscriber location.
	Cannot aggregate Serial number <Serial> with UOM <PackagingLevelUOM> into Serial Number <ParentSerial> with UOM <PackagingLevelUOM>.	The error occurs if the source packaging level is larger than the packaging level for AggregationEvent (aggregation event) parentID .
Aggregation Event (disaggregation event) childEPCs epc	Serial Number <Serial> cannot be disaggregated because it was not previously aggregated to <ParentSerial>.	The error occurs if the source is not aggregated to AggregationEvent (disaggregation event) parentID .
AggregationEvent (disaggregation event) bizLocation id	Authorization Response from server: Credentials are required to access this resource.	The error occurs if the source cannot be found.
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

Aggregation Update (SOAP)

Aggregation Update Request

Guidelines

The Aggregation Update message allows Pharmaceutical Manufacturer Owners to report the aggregation and disaggregation of product simultaneously to account for warehouse packing activities. Each message can contain multiple aggregations or disaggregations.

ⓘ When sending multiple aggregation events (i.e. aggregations, disaggregations, or a combination thereof) at the same time, use this message instead of individual Aggregation or Disaggregation messages.

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

⚠ The MDLP Bulk API currently has a limit of 20 events per message.

The following data is sent in the request to TraceLink:

Elements			Occurs Length	Type	Notes
soapenv:Envelope			1...1 -	-	Required. The SOAP envelope root element.
	soapenv:Header		1...1 -	-	Required. Not used. The SOAP message header.
	soapenv:Body		1...1 -	-	Required. The SOAP message body.
		urn:AggregateUpdate	1...1 -	-	Required. Aggregation Update message.
		AggregationUpdateRequest	0...1 -	-	Required. Aggregate request to associate child serial numbers to a parent container.

Elements						Occurs Length	Type	Notes
				Aggregations		0...* -	-	Aggregation group element.
				Aggregation		0...* -	-	Required. Aggregation event. See the Aggregation Strict element for important configuration information.
				Container		1...1 -	-	Required. Parent container serial information. If the Aggregation Container is specified, all items must currently be a child of the specified container.
					@sn	1...1 1/*	String	Required. Parent container's serial number. ¹
					@namespace	0...1 0/*	String	Not used.
				Items		1...1 -	-	Required. Child serial information.
					Item	1...* -	-	Required. List of one or more child serial numbers to aggregate to parent container's serial number.
					@sn	1...1 1/*	String	Required. Child serial number in one of the following formats: - AI(01)+AI(21) formatted numbers are: 01 + [GTIN14] + 21 + [serial number] Ex: 015088202503022521100000090109 - AI(00) formatted numbers are: 00 + [SSCC18 code] Ex: 00008820200000047506 - CN-EDMC formatted serial numbers are: 20 digit China EDMC code Ex: 81530070000022519351
					@namespace	0...1 1/*	String	Not used.
				EventDateTime		0...1 -	Date	Timestamp of the date and time of the aggregation event with the UTC time zone indicator in YYYY-MM-DDThh:mm:ss.sZ format. If omitted, the system will record the current date and time. ²

¹00008820200000047506²2021-12-21T11:16:52.575Z

Elements						Occurs Length	Type	Notes
					Location	0...1 1/*	String	Site-level SGLN of the location where the event occurred. The SGLN format is the numeric component only, with urn prefix stripped (e.g. 8888882.02867.0 instead of urn:epc:id:sgln:8888882.02867.0 typically found in EPCIS events). ¹
					Strict	1...1 -	Boolean	Required. Flag that determines if the system performs an implicit disaggregation and then aggregates the items. Valid values: - If true, the aggregated item(s) must not already have a parent. If they do, an error will be returned. - If false, the items are re-associated to the new parent and the items' previous aggregations are adjusted.
					ResetAggregation	0...1 -	Boolean	Flag indicating to disaggregate all existing items in a container and aggregate the new set of items into that container. Valid values: - If true, TraceLink disaggregates all existing items in the specified container and aggregates the new set of items into that container. - If false (default), TraceLink does not disaggregate all existing items in the specified container.
					ParentCompanyPrefix	0...1 -	String	Conditionally required if the container serial number is unknown to TraceLink and must be commissioned. The GS1 Company Prefix used in GTIN-14 and SSCC serial numbers.
					ParentFilterValue	0...1 -	String	The filter value used in GTIN-14 and SSCC serial numbers.
					ParentFormat	0...1 -	String	Conditionally required if the container serial number is unknown to TraceLink and must be commissioned. The format of the parent serial numbers. Valid values: AI(01)+AI(21) AI(00) CN-EDMC
					ParentPackagingLevel	0...1	String	The packaging level of the commissioned item using the supported enumeration values. ²

¹8888882.02867.0²PL

Elements							Occurs Length	Type	Notes
									See the PackLevel enumeration list for valid values.
				Disaggregations			0...* -	-	Disaggregation group header.
					Disaggregation		1...* -	-	Required. Disaggregation event.
					Container		0...* -	-	Conditionally required if Disaggregation Strict is set to true . Parent container serial number. If Disaggregation Container is specified, all items must currently be a child of the specified container. If omitted, Disaggregation Strict must be set to false .
						@sn	1...1 1/*	String	Required. Parent serial number. ¹
						@namespace	0...1 1/*	String	Not used.
					Items		1...1 -	-	Required. Child serial numbers.
						Item	1...* -	-	Required. List of one or more child serial numbers to disaggregate from the parent container serial number.
						@sn	1...1 1/*	String	Required. Child serial number in one of the following formats: - AI(01)+AI(21) formatted numbers are: 01 + [GTIN14] + 21 + [serial number] Ex: 015088202503022521100000090109 - AI(00) formatted numbers are: 00 + [SSCC18 code] Ex: 00008820200000047506 - CN-EDMC formatted serial numbers are: 20 digit China EDMC code Ex: 81530070000022519351
						@namespace	0...1 1/*	String	Not used.
					EventDateTime		0...1 -	Date	Required. Timestamp of the date and time of the disaggregation event with the UTC time zone indicator in YYYY-MM-DDThh:mm:ss.sZ format. If omitted, the system will record the current date and time. ²

¹00008820200000047506²2021-12-21T11:16:52.575Z

Elements						Occurs Length	Type	Notes
					Location	0...1 1/*	String	Required. Site-level SGLN of the location where the event occurred. SGLN format is the numeric component only, with urn prefix stripped (e.g. <code>8888882.02867.0</code> instead of <code>urn:epc:id:sgln:8888882.02867.0</code> typically found in EPCIS events). ¹
					Strict	1...1 -	Boolean	Flag that determines whether Disaggregation Container must be provided. - If <code>true</code>, the parent container must be specified. - If <code>false</code>, the parent container is not specified and the child serial numbers are implicitly disaggregated from their parent containers.

Example

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:urn="urn:tracelink:soap">
  <soapenv:Header/>
  <soapenv:Body>
    <urn:AggregateUpdate>
      <AggregationUpdateRequest>
        <completed>false</completed>
        <Aggregations>
          <Aggregation>
            <Container sn="016862905203607821100000000030"/>
            <Items>
              <Item sn="018862905202566321100000000005"/>
            </Items>
            <EventDateTime>2020-12-31T11:16:52.575Z</EventDateTime>
            <Location>86290520.4996.0</Location>
            <Strict>true</Strict>
            <ResetAggregation>false</ResetAggregation>
            <IsCommissionSSCC>false</IsCommissionSSCC>
          </Aggregation>
        </Aggregations>
        <Disaggregations>
          <Disaggregation>
            <Container sn="016862905203607821100000000030"/>
            <Items>
```

¹8888882.02867.0

```

        <Item sn="018862905202566321100000000005"/>
      </Items>
      <EventDateTime>2020-12-31T11:18:53.193Z</EventDateTime>
      <Location>86290520.4996.0</Location>
      <Strict>true</Strict>
    </Disaggregation>
  </Disaggregations>
</AggregationUpdateRequest>
</urn:AggregateUpdate>
</soapenv:Body>
</soapenv:Envelope>

```

Errors

Exception Code	Exception Message
VALIDATION	Serial number <Serial Number> does not exist.
	Cannot aggregate Serial number <Serial> with UOM <PackagingLevelUOM> into Serial Number <ParentSerial> with UOM <PackagingLevelUOM>.
	Serial number <Serial Number> is already aggregated to <Actual Parent Serial Number>.
	Cannot perform operation on serial number [Serial Number] with item state [Serial Number Status]. This operation can only be performed when the serial number is Available or Blocked or Picked.
	Serial Number <Serial> cannot be disaggregated because it was not previously aggregated to <ParentSerial>.
	Event timestamp is earlier than the aggregation date for serial number <Serial>.

Aggregation Update Response

Guidelines

⚠ The MDLP Bulk API currently has a limit of 20 events per message.

The following data is included in the message response:

Data Element					Occurs Length	Type	Description
S:Envelope					1...1 -	-	Required. The SOAP Envelope root element.
S:Body					1...1 -	-	Required. The SOAP Message Body.
ns2:AggregateResponse					1...1 -	-	Required. The Aggregation Update response message.
TLResponse					1...1 -	-	Required. The TraceLink response.
Success					1...1 -	-	Required. Indicates if the Aggregation Update request successfully processed. ¹
ExceptionReturn					0...1 -	-	Conditionally required if Success = <code>false</code> . Populated with error information only if Success = <code>false</code> , otherwise omitted.
CallException					1...* -	-	Required. Contains error information including the exception code and error message, if available.
ExceptionCode					1...1 0/*	String	Required. Error code.
ExceptionMessage					0...1 0/*	String	Conditionally required if an error occurred. Message that further describes error condition, if available.

Example

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns3:AggregateUpdateResponse xmlns:ns2="http://tracelink.com/som" xmlns:ns3="urn:tracelink:soap">
      <TLResponse>
        <Success>true</Success>
      </TLResponse>
    </ns3:AggregateUpdateResponse>
  </S:Body>
</S:Envelope>
```

¹true

Disaggregation APIs

Why do I use these messages?

Use the following messages to capture the disaggregation of serial numbers from a parent container.

Which report do these messages generate?

These messages generate [913 - Unit Extract](#) report in the Russia Compliance application if the items being disaggregated have a target market of Russia.

ESM Disaggregate (EPCIS v1.2)

Guidelines

Use this message to notify upstream partners about disaggregation.

Message Type: SOM_ESM_DISAGGREGATE

Info Exchange Display Name: ESM Disaggregate

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

⚠ NTINs *must* follow the [GS1 Guidance](#) standards as found on the GS1 website.

- Ex: urn:epc:id:sgtin:415001647778.0.100000000022
- Format: urn:epc:id:sgtin:[company prefix].[indicator digit][item ref].[serial number]

Information regarding NTINs cannot be exchanged with trade partners unless the specific format outlined above is followed. If using an NTIN without following this format, an outbound error occurs when passing data from TraceLink to a trade partner.

Data Element	Occurs Length	Type	Description
epcis:EPCISDocument	1...1	-	Required. EPCIS message root element.

Data Element				Occurs Length	Type	Description
	@schemaVersion			1...1 0/*	Decimal	Required. The version of the EPCIS schema used to populate the EPCIS document elements. Must equal 1.2. ¹
	@creationDate			1...1 1/*	DateTime	Required. Date the message was created in YYYY-MM-DDTHH:MM:SS:mmZ format. ²
	EPCISHeader			1...1 -	-	Required. The XML file control header.
		sbdh:StandardBusinessDocumentHeader		1...1 -	-	Required. Business header information including EPCIS Header Version, Sender, and Receiver information, along with the document identification.
			sbdh:HeaderVersion	1...1 0/*	String	Required. Version of the Standard Business Document Header (SBDH). The HeaderVersion must be set to 1.0. ³
			sbdh:Sender	1...* -	-	Required. A unique identification key for the Sender party of the message, representing the organization that created the standard business document. The Sender element must be used only once with GS1 XML messages.
			sbdh:Identifier	1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type. ⁴ Send SGLN and all other party types with the GS1-conformant uri prefix, for example: - urn:epc:id:sgln:088202.867701.0 - http://epcis.gs1us.org/hc/dea/loc/10023141  GLNs do not have an urn/http prefix.
			@Authority	1...1 1/*	String	Required. The sender identifier type. The Authority was previously expected to be set to GLN for GS1 XML messages. An update made in December 2016 changed this to accept additional values. ⁵
			sbdh:Receiver	1...* -	-	Required. Indicates a unique identification key for the direct Receiver party of the message, representing the organization that receives the standard business document. The Receiver element is used only once with GS1 XML messages.

¹1.2²2016-12-18T22:08:02Z³1.0⁴1100001014507⁵GLN

Data Element					Occurs Length	Type	Description
				sbdh:Identifier	1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type.¹ Send SGLN and all other party types with the GS1-conformant uri prefix, for example: <code>urn:epc:id:sgln:088202.867701.0</code> <code>http://epcis.gs1us.org/hc/dea/loc/10023141</code>  GLNs do not have an urn/http prefix.
				@Authority	1...1 1/*	String	Required. The receiver identifier type. The Authority was previously expected to be set to <code>GLN</code> for GS1 XML messages. An update made in December 2016 changed this to accept additional values.²
			sbdh:DocumentIdentification		1...1 -	-	Required. Contains the identification group for the message.
				sbdh:Standard	1...1 0/*	String	Required. Name of the document standard contained in the file or message. The standard value for this field is <code>EPCglobal</code>.³
				sbdh:TypeVersion	1...1 0/*	String	Required. Reflects the version of the document included. This is the complete version of the document itself and is different from the HeaderVersion as these are hard-coded values. The TypeVersion is set to <code>1.0</code>.⁴
				sbdh:InstanceIdentifier	1...1 1/*	String	Required. Reference information that uniquely identifies this instance of the Standard Business Document between the Sender and the Receiver. This identifier confirms this document as being distinct from others.⁵
				sbdh:Type	1...1 0/*	String	Required. Identifies the document type. The Type value is set to <code>Events</code> for a disaggregation event.⁶
				sbdh:CreationDateAndTime	1...1 0/*	DateTime	Required. The date and time of the SBDH document's creation. GMT create date and time for the EPCIS message. The system expects the <code>Z</code> to be appended; however, if it is not included, the system assumes that the time is GMT and therefore appends the <code>Z</code>.
		EPCISBody			1...1 -	-	Required. Contains all of the EPCIS events for the disaggregation message.

¹0614141123452²GLN³EPCglobal⁴1.0⁵201609201745200001⁶Events

Data Element					Occurs Length	Type	Description	
		EventList			1...1 –	-	Required. The EventList must contain one or more AggregationEvent data elements for a disaggregation message.	
			AggregationEvent		0...* –	-	The AggregationEvent is used in the EventList and indicates a disaggregation event when all of the following is true: action = DELETE bizStep = urn:epcglobal:cbv:bizstep:unpacking disposition = urn:epcglobal:cbv:disp:in_progress	
				eventTime	1...11/* 1/*	DateTime	Required. The time stamp of the date/time when the event occurred in YYYY-MM-DDTHH:MM:SS.mm or YYYY-MM-DDTHH:MM:SS.mmm format. Must include a time zone indicator as specified in Section 9.5 of [EPCIS1.0.1]. The system expects the Z to be appended if it is not included; however, the system assumes that the time is GMT and therefore appends the Z. ¹  eventTime can include 2 or 3 milliseconds.	
				eventTimeZoneOffset	1...1 1/*	String	Required. The time zone offset in the place where the event occurred, consistent with what choice was made for eventTime . A time offset is an amount of time subtracted from or added to UTC (Coordinated Universal Time) to get the current civil time - whether it is standard time or daylight saving time, per Section 7.2.8 of [EPCIS1.0.1]. ²	
				parentID	0...1 0/*	AnyURI	Identifier of the parent container in EPC Pure Identity URI format (e.g. for an item-to-case aggregation, the EPC is of the case; for a case-to-pallet aggregation, the EPC is of the pallet). See EPC Pure Identifier Format Examples . ³	
				childEPCs	1...1 –	-	Required. Contains a list of identifiers, including the child items, in the parent container in EPC Pure Identity URI format (e.g. for an item-to-case aggregation, the EPCs is of the items; for a case-to-pallet aggregation, the EPCs is of the cases).	
					epc	1...* 1/*	String	Required. Identifier of the child items in the parent container in EPC Pure Identity URI format. See EPC Pure Identifier Format Examples . ⁴
				action	1...1 0/*	String	Required. The action taken in the message, e.g. an action value is set to ADD for a commissioning event and to DELETE for a decommission event. The action value must equal DELETE . ⁵	
				bizStep	1...1	String	Required. The business step taken in the event. The bizStep value must equal	

¹2013-10-01T22:08:02Z²-04:00³urn:epc:id:sgtin:088202.5503022.100000000670⁴urn:epc:id:sgtin:088202.5503022.100000000670⁵DELETE

Data Element					Occurs Length	Type	Description
							. ¹
				disposition	1...1 0/*	String	Required. Status of the transaction, which is grouped with the bizStep and action fields to define the message event. The disposition value must equal urn:epcglobal:cbv:disp:in_progress . ²
				bizLocation	1...1 -	-	Required. The SGLN EPC of the location where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier.
				id	1...1 1/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN or a finer-grain location identifier. ³
				tl:locationId	0...1 0/*	String	External Subscriber Location identifier. ⁴
				@type	0...1 0/*	String	Required. Identifies the location types. See the BusinessAndLocationId enumeration list for valid values. ⁵

Example

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<epcis:EPCISDocument xmlns:epcis="urn:epcglobal:epcis:xsd:1" xmlns:tl="http://epcis.tracelink.com/ns"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:epcglobal="urn:epcglobal:xsd:1" schemaVersion="1" creationDate="2014-02-28T19:12:53Z"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:epcglobal:epcis:xsd:1
../../../../workspace-git/maps_xml_schema/release-obstruction/xmlSchema/pt_serialization/transaction/TL_EPCIS_SOM_
EPCglobal-epcis-1_2.xsd">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier Authority="GLN">8779891013658</sbdh:Identifier>
      </sbdh:Sender>
      <sbdh:Receiver>
```

¹urn:epcglobal:cbv:bizstep:unpacking

²urn:epcglobal:cbv:disp:in_progress

³urn:epc:id:sgln:0614141.12345.1400

⁴urn:epc:id:sgln:0614141.12345.1400

⁵GLN

```

    <sbdh:Identifier Authority="GLN">8889991013658</sbdh:Identifier>
  </sbdh:Receiver>
  <sbdh:DocumentIdentification>
    <sbdh:Standard>EPCglobal</sbdh:Standard>
    <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
    <sbdh:InstanceIdentifier>2019-06-17</sbdh:InstanceIdentifier>
    <sbdh:Type>Events</sbdh:Type>
    <sbdh:CreationDateAndTime>2019-06-17T18:45:20.0Z</sbdh:CreationDateAndTime>
  </sbdh:DocumentIdentification>
</sbdh:StandardBusinessDocumentHeader>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <AggregationEvent>
      <eventTime>2019-06-17T18:45:20.0Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <parentID>urn:epc:id:sscc:088202.00200000034</parentID>
      <childEPCs>
        <epc>urn:epc:id:sgtin:068202.0401034.11220207024597</epc>
        <epc>urn:epc:id:sgtin:068202.0401034.11220207024598</epc>
      </childEPCs>
      <action>DELETE</action>
      <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
      <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:9997777.01994.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:8889991.01365.0</id>
      </bizLocation>
      <tl:locationId type="DUNS">710040977</tl:locationId>
    </AggregationEvent>
  </EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

Errors

Data Element	Error Message	Description
Class 1		
action	Action DELETE is required for disaggregation !!!	The error occurs if the source does not equal "DELETE".
AggregationEvent	AggregationEvent is required for disaggregation !!!	The error occurs if the source is empty or null.
bizLocation id	Event location in the aggregation event is required !!!	The error occurs if the source is empty or null.
bizStep	bizStep urn:epcglobal:cbv:bizstep:unpacking is required for disaggregation !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:unpacking".
disposition	Disposition urn:epcglobal:cbv:disp:in_progress is required for disaggregation !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:in_progress".
epc	System will return error if source missing.	The error occurs if the source is empty or null.
	Invalid EPC format !!!	The error occurs if the source cannot be translated.
	Invalid EPC format !!!	The error occurs if the source is invalid.
parentID	System will return error if source missing.	The error occurs if the source is empty or null.
	Invalid EPC format !!!	The error occurs if the source is invalid.
	Invalid EPC format !!!	The error occurs if the source cannot be translated.
sbdh:Receiver sbdh:Identifier @Authority	Valid Receiver/Identifier Authority is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
sbdh:Sender sbdh:Identifier @Authority	Valid Sender/Identifier Authority is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
tl:locationId @type	Required if source locationId is populated. System will throw error if [@type] attribute missing.	The error occurs if the source is empty or null.
	Valid location identifier type is required if location ID is populated !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
Class 2		
-	-	-
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

Disaggregate (SOAP)

Disaggregation Request

Guidelines

❶ When sending multiple aggregation events (i.e. aggregations, disaggregations, or a combination thereof) at the same time, use the [Aggregation Update](#) message instead of individual Aggregation or Disaggregation messages.

❷ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

The following data is sent in the request to TraceLink:

Data Element					Occurs Length	Type	Description
soapenv:Envelope					1...1 -	-	Required. SOAP Envelope root element.
soapenv:Header					1...1 -	-	Not used by TraceLink.
soapenv:Body					1...1 -	-	Required. SOAP Message Body.
urn:Disaggregate					1...1 -	-	Required. Disaggregate message.
DisaggregateRequest					0...1 -	-	Required. The disaggregate request message to disassociate child serial numbers from a parent container.
Container					0...1 -	-	The parent container's serial number. If Container is specified, all items must currently be a child of the specified container. If omitted, Strict must be set to <code>false</code> .

Data Element						Occurs Length	Type	Description
					@sn	1...1 1/*	String	Required. The parent serial number. See Serial Number Format Examples . ¹
					@namespace	0...1 1/*	String	Not currently supported by TraceLink. Leave this field blank.
				Items		1...1 -	-	Required. Child serial information.
				Item		1...* -	-	Required. A list of one or more child serial numbers to disaggregate from the parent container serial number.
					@sn	1...1 1/*	String	Required. A child serial number. See Serial Number Format Examples . ²
					@namespace	0...1 1/*	String	Not currently supported by TraceLink. Leave this field blank.
				EventDateTime		0...1 -	Date	The date and time of the disaggregation event in XSD GMT date format. If omitted, the system will record the current date-time. ³
				LocationType		1...1 1/*	String	The type of location where the event occurred. See the LocationId enumeration list for valid values.
				Location		1...1 1/*	String	The site-level location identifier where the event occurred.⁴ i In most cases, this value is an SGLN, the format for which must be the numeric component only, with the urn prefix stripped (e.g. <code>8888882.02867.0</code> instead of <code>urn:epc:id:sgln:8888882.02867.0</code> typically found in EPCIS events).
				Strict		1...1 -	Boolean	- If <code>true</code>, the parent container must be specified.⁵ - If <code>false</code>, the parent container is not specified and the child serial numbers are implicitly disaggregated from their parent containers.

¹00008820200000047506²015088202503022521100000090109³2015-06-01T17:10:16Z⁴8888882.02867.0⁵true

Example

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:urn="urn:tracelink:soap">
  <soapenv:Header/>
  <soapenv:Body>
    <urn:Disaggregate>
      <DisaggregateRequest>
        <Container sn="00008820200000047506"/>
        <Items>
          <Item sn="015088202503022521100000090109"/>
          <Item sn="015088202503022521100000090110"/>
        </Items>
        <EventDateTime>2015-06-01T17:10:16Z</EventDateTime>
        <LocationType>SGLN</LocationType>
        <Location>8888882.02867.0</Location>
        <Strict>true</Strict>
      </DisaggregateRequest>
    </urn:Disaggregate>
  </soapenv:Body>
</soapenv:Envelope>
```

Errors

Exception Code	Exception Message
BADITEMSTATE	Cannot perform operation on serial number <serial number> with item state <item state>. This operation can only be performed when the serial number is <item state>.
EVENTTIMEAFTERNOW	Event time stamp must not be in the future.
EVENTTIMEBEFORELASTEVENT	Event time stamp is earlier than the last event for serial number <serial number>.
INTERNALERROR	Found more than one serial number for Internal error from server: <server information>.
NOSOMSERVICE	No Serialized Operations Manager service found.
NOTAGGREGATED	Serial number <serial number> is not aggregated to any container.
NOTAGGREGATEDTOPARENT	Serial number <serial number> is not aggregated to <parent serial number>.
NOTCOMMISSIONED	Serial number <serial number> is not commissioned.

Exception Code	Exception Message
NOTVALIDLOCATION	Location <location identifier> was not valid for serial number <serial number>.
SNNOTFOUND	Serial number <serial number> does not exist.
SOMDUPLICATESNS	The following serial numbers were listed more than once: <serial number>.
THROUGHPUT_EXCEEDED	Throughput has been exceeded. Please retry your message again. If this error continues, consider reducing the size of your operation or contact TraceLink support.
VALIDATION	The parameter <Container> is missing or had an invalid value.

Disaggregation Response

Guidelines

The following data is included in the message response:

Data Element					Occurs Length	Type	Description
S:Envelope					1...1 -	-	Required. SOAP Envelope root element.
	S:Body				1...1 -	-	Required. SOAP Message Body.
		ns2:DisaggregateResponse			1...1 -	-	Required. Disaggregate response message.
			TLResponse		0...1 -	-	Required. TraceLink response.
				Success	0...1 -	-	Required. Indicates if the disaggregate request successfully processed. ¹
				ExceptionReturn	0...1 -	-	Conditionally required if Success = false , otherwise omitted. Contains error information.
				CallException	1...* -	-	Required. Contains error details such as exception code and error message, if available.

¹true

Data Element							Occurs Length	Type	Description
						ExceptionCode	0...1 0/*	String	Required. Error code. ¹
						ExceptionMessage	0...1 0/*	String	Conditionally required if exception message exists. Message that further describes the error condition.

Example

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:DisaggregateResponse xmlns:ns2="urn:tracelink:soap" xmlns:ns3="http://tracelink.com/som">
      <TLResponse>
        <Success>true</Success>
      </TLResponse>
    </ns2:DisaggregateResponse>
  </S:Body>
</S:Envelope>
```

Aggregation Update (XML)

Guidelines

Use this message to capture both aggregation and disaggregation events simultaneously. If the items being disaggregated have a Russia target market, this message initiates the [911 - Unit Pack](#) and [914 - Unit Append](#) reports in addition to the [913 - Unit Extract](#) report.

This message uses the Park and Retry functionality. If a prerequisite condition for this message has not been met, TraceLink stops processing the task, returns the task to the queue, and then tries to process the task again every 15 minutes for up to 2 hours.

Message Type: SOM_AGGREGATE_UPDATE

Info Exchange Display Name: Aggregate Update

¹SNOTFOUND

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

❗ The MDLP Bulk API currently has a limit of 20 events per message.

Data Element			Occurs Length	Type	Description
som:SOMAggregationUpdateMessage			1...1 -	-	Required. The TL XML message root element.
	som:ControlFileHeader		1...1 -	-	Required. The message document's header information.
		cmn:FileSenderNumber	1...1 1/20	String	Required. The company identifier of the file's sender. ¹
		cmn:FileReceiverNumber	1...1 1/20	String	Required. The company identifier of the file's recipient. ²
		cmn:FileControlNumber	1...1 1/*	String	Required. The message's unique file control ID number. A file control ID number is mandatory for all messages. ³
		cmn:FileDate	1...1 1/*	Date	Required. The date that the message is sent in YYYY-MM-DD format. Date and times must be in GMT. ⁴
		cmn:FileTime	1...1 1/*	Time	Required. Time file generated in XML in HH:MM:SSZ format. The system expects the Z to be appended; however, if it is not included, the system assumes that the time is GMT and therefore appends the Z . ⁵
	som:MessageBody		1...1 -	-	Required. Aggregation Update message details.
		choice%1	1...* -	-	Required. Looping choice element. At least one instance of either cmn:Aggregation or cmn:Disaggregation is required.

¹8888882028655

²8888882028677

³20190920-LD3

⁴2019-09-20

⁵04:30:32Z

Data Element				Occurs Length	Type	Description
		cmn:Aggregation		0...1 -	-	Conditionally required if cmn:Disaggregation is not present. Aggregation group header.
			cmn:EventDateTime	1...1 0/*	DateTime	Required. Timestamp of the date and time of the product release with the UTC time zone indicator in YYYY-MM-DDThh:mm:ss.sZ format. ¹
			cmn:EventTimeZoneOffset	1...1 6/6	String	Required. The time zone offset in effect where the packaging occurs. Default value is "+00:00". ²
			cmn:EventLocation	1...1 0/34	String	Required. Business or location identifier for the entity that is importing the products. ³
			cmn:EventLocationType	1...1 1/*	String	Required. Business or location type for the entity that is importing the product. ⁴ See the BusinessAndLocationId enumeration list for valid values.
			cmn:PlantLocationId	0...1 0/34	String	Plant location identifier if present. ⁵
			cmn:ProductionLineId	0...1 0/*	String	The name of the production line where the packaging occurs. ⁶
			cmn:LineManagerName	0...1 0/*	String	The name of the line or production manager who is on shift when the batch is produced. ⁷
			cmn:ParentSerial	1...1 1/*	String	Required. Parent serial number for aggregation expressed in GS1 Application Identifier format, without parentheses, for the AI keys. AI(01)(21) formatted serial numbers for GTINs or AI(00) formatted serial number for SSCCs, without parentheses. Express non-GS1 serial numbers (e.g. China) in native format. ⁸
			@companyPrefix	0...1 0/*	String	Conditionally required if commissioning a new SSCC. The GS1 Company Prefix used in GTIN-14 and SSCC serial numbers.
			@filterValue	0...1	String	Conditionally required if commissioning a new SSCC. The filter value used in GTIN-14 and SSCC serial numbers.

¹2019-09-20T04:30:32.12Z²+00:00³0333331013655⁴GLN⁵0333331013655⁶12436587⁷Fred Bobbit⁸015088202501033321100000060001

Data Element					Occurs Length	Type	Description
				@format	0...1 0/*	String	Conditionally required if commissioning a new SSCC. Identifies the serial number format. See the Format enumeration list for valid values.
			cmn:PackedStatus		0...1 0/*	String	The packed status of the item or container. ¹ See the PackedStatus enumeration list for valid values.
			cmn:PackagingLevel		0...1 0/*	String	The packaging level of the item. ² See the PackagingLevel enumeration list for valid values.
			cmn:Quantity		0...1 -	Integer	Quantity of serial numbers reported. ³
			cmn:NumberList		1...1 -	-	Required. List of serial numbers for the items in the parent container.
				cmn:Serial	1...* 1/*	String	Required. Serial number expressed in GS1 Application Identifier format, without parentheses, for the AI keys. AI(01)(21) formatted serial numbers for GTINs or AI(00) formatted serial number for SSCCs, without parentheses. Express non-GS1 serial numbers (e.g. China) in native format. ⁴
				@companyPrefix	0...1 0/*	String	The GS1 Company Prefix used in GTIN-14 and SSCC serial numbers.
				@filterValue	0...1 0/*	String	The filter value used in GTIN-14 and SSCC serial numbers.
				@format	0...1 0/*	String	Identifies the serial number format. See the Format enumeration list for valid values.
				@packedStatus	0...1 0/*	String	The packed status of the item or container. ⁵ See the PackedStatus enumeration list for valid values.
			cmn:ResetContainerAggregation		0...1	Boolean	Flag that tells TraceLink what to do if serial numbers already exist in the parent container.

¹FULL²CA³10⁴015088202501033321100000060002⁵FULL

Data Element				Occurs Length	Type	Description
						Valid values: ¹ true – The existing child items that are not present in the new cmn:NumberList are disaggregated from their parent container. false (default) – The existing child items that are not present in the new cmn:NumberList are retained in the parent container.
			cmn:DisaggregateFromParent	1..1 -	Boolean	Required. Flag that tells TraceLink whether or not to automatically disaggregate child serial numbers from their existing parent container. Valid values: ² true – The existing aggregation of the child items is adjusted and the items are aggregated to the new parent container. false – The existing aggregation of the child items is not adjusted and the items are not disaggregated from their parent container.
			cmn:ExtensionField	0..* -	-	Extension to pass one or more name value pairs containing additional data attributes that are not already supported in this message.  The tl:extensionField element group is not stored by TraceLink, and is used only when a trade partner requires additional information (e.g. when a CMO is required to provide additional data fields to the Pharmaceutical Manufacturer).
			cmn:FieldName	1..1 1/*	String	Required. Populate with the field name provided by the trade partner that receives the outbound message.  cmn:FieldName is case sensitive and must match the field name provided by the trade partner exactly.
			cmn:FieldValue	1..1 1/*	String	Required. The field value that corresponds to cmn:FieldName .
			cmn:Disaggregation	0..1 -	-	Disaggregation group header.
			cmn:EventDateTime	1..1 0/*	DateTime	Required. Timestamp of the date and time of the product release with the UTC time zone indicator in YYYY-MM-DDThh:mm:ss.sZ format. ³

¹true²true³2019-09-20T06:30:32.12Z

Data Element				Occurs Length	Type	Description
			cmn:EventTimeZoneOffset	1...1 6/6	String	Required. The time zone offset in effect where the packaging occurs. Default value is "+00:00". ¹
			cmn:EventLocation	1...1 0/34	String	Required. Business or location identifier for the entity that is importing the products. ²
			cmn:EventLocationType	1...1 1/*	String	Required. Business or location type for the entity that is importing the products. ³ See the BusinessAndLocationId enumeration list for valid values.
			cmn:ParentSerial	0...1 0/*	String	Parent serial number for aggregation expressed in GS1 Application Identifier format, without parentheses, for the AI keys. AI (01)AI(21) formatted serial numbers for GTINs or AI(00) formatted serial number for SSCCs, without parentheses. Express non-GS1 serial numbers (e.g. China) in native format. ⁴
			@companyPrefix	0...1 0/*	String	The GS1 Company Prefix used in GTIN-14 and SSCC serial numbers.
			@filterValue	0...1 0/*	String	The filter value used in GTIN-14 and SSCC serial numbers.
			@format	0...1 0/*	String	Identifies the serial number format. See the Format enumeration list for valid values.
			cmn:NumberList	1...1 -	-	Required. List of serial numbers for the items in the parent container.
			cmn:Serial	1...* 1/*	String	Required. Serial number expressed in the GS1 Application Identifier format without parenthesis for the AI keys. AI(01)(21) formatted serial number for GTINs or AI(00) formatted serial number for SSCCs. Non-GS1 serial numbers (e.g. China) are expressed in native format. ⁵
			@companyPrefix	0...1 0/*	String	The GS1 Company Prefix used in GTIN-14 and SSCC serial numbers.
			@filterValue	0...1 0/*	String	The filter value used in GTIN-14 and SSCC serial numbers.

¹+00:00²0333331013655³GLN⁴015088202501033321100000060030⁵015088202501033321100000060031

Data Element						Occurs Length	Type	Description
					@format	0...1 0/*	String	Identifies the serial number format. See the Format enumeration list for valid values.
					@packedStatus	0...1 0/*	String	The packed status of the item or container. ¹ See the PackedStatus enumeration list for valid values.
			cmn:ExtensionField			0...* -	-	Extension to pass one or more name value pairs containing additional data attributes that are not already supported in this message.  The tl:extensionField element group is not stored by TraceLink, and is used only when a trade partner requires additional information (e.g. when a CMO is required to provide additional data fields to the Pharmaceutical Manufacturer).
				cmn:FieldName		1...1 1/*	String	Required. Populate with the field name provided by the trade partner that receives the outbound message.  cmn:FieldName is case sensitive and must match the field name provided by the trade partner exactly.
				cmn:FieldValue		1...1 1/*	String	Required. The field value that corresponds to cmn:FieldName .

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<som:SOMAggregationUpdateMessage xmlns:som="urn:tracelink:mapper:sl:serialized_operations_manager"
xmlns:cmn="urn:tracelink:mapper:sl:commontypes">
  <som:ControlFileHeader>
    <cmn:FileSenderNumber>8888882028644</cmn:FileSenderNumber>
    <cmn:FileReceiverNumber>8888882028677</cmn:FileReceiverNumber>
    <cmn:FileControlNumber>20130821065245</cmn:FileControlNumber>
    <cmn:FileDate>2019-09-20</cmn:FileDate>
    <cmn:FileTime>06:52:45.02Z</cmn:FileTime>
  </som:ControlFileHeader>
  <som:MessageBody>
    <som:Aggregation>
      <cmn:EventDateTime>2019-09-20T06:30:32.12Z</cmn:EventDateTime>
      <cmn:EventTimeZoneOffset>+04:00</cmn:EventTimeZoneOffset>
    </som:Aggregation>
  </som:MessageBody>
</som:SOMAggregationUpdateMessage>
```

¹FULL

```

<cmn:EventLocation>0333331013655</cmn:EventLocation>
<cmn:EventLocationType>GLN</cmn:EventLocationType>
<cmn:PlantLocationId>0333331013655</cmn:PlantLocationId>
<cmn:ProductionLineId>12436587</cmn:ProductionLineId>
<cmn:LineManagerName>Fred Bobbit</cmn:LineManagerName>
<cmn:ParentSerial>015088202501033321100000060001</cmn:ParentSerial>
<cmn:PackedStatus>FULL</cmn:PackedStatus>
<cmn:PackagingLevel>CA</cmn:PackagingLevel>
<cmn:Quantity>20</cmn:Quantity>
<cmn:NumberList>
  <cmn:Serial>015088202501033321100000060002</cmn:Serial>
  <cmn:Serial>015088202501033321100000060003</cmn:Serial>
  <cmn:Serial>015088202501033321100000060004</cmn:Serial>
  <cmn:Serial>015088202501033321100000060005</cmn:Serial>
  <cmn:Serial>015088202501033321100000060006</cmn:Serial>
  <cmn:Serial>015088202501033321100000060007</cmn:Serial>
  <cmn:Serial>015088202501033321100000060008</cmn:Serial>
  <cmn:Serial>015088202501033321100000060009</cmn:Serial>
</cmn:NumberList>
<cmn:ResetContainerAggregation>true</cmn:ResetContainerAggregation>
<cmn:DisaggregateFromParent>true</cmn:DisaggregateFromParent>
</som:Aggregation>
<som:Aggregation>
  <cmn:EventDateTime>2019-09-20T06:30:32.12Z</cmn:EventDateTime>
  <cmn:EventTimeZoneOffset>+04:00</cmn:EventTimeZoneOffset>
  <cmn:EventLocation>0333331013655</cmn:EventLocation>
  <cmn:EventLocationType>GLN</cmn:EventLocationType>
  <cmn:PlantLocationId>0333331013655</cmn:PlantLocationId>
  <cmn:ProductionLineId>12436587</cmn:ProductionLineId>
  <cmn:LineManagerName>Fred Bobbit</cmn:LineManagerName>
  <cmn:ParentSerial>015088202501033321100000060010</cmn:ParentSerial>
  <cmn:PackedStatus>FULL</cmn:PackedStatus>
  <cmn:PackagingLevel>CA</cmn:PackagingLevel>
  <cmn:Quantity>20</cmn:Quantity>
  <cmn:NumberList>
    <cmn:Serial>015088202501033321100000060011</cmn:Serial>
    <cmn:Serial>015088202501033321100000060012</cmn:Serial>
    <cmn:Serial>015088202501033321100000060013</cmn:Serial>
    <cmn:Serial>015088202501033321100000060014</cmn:Serial>
    <cmn:Serial>015088202501033321100000060015</cmn:Serial>
  </cmn:NumberList>
</som:Aggregation>

```



```

        <cmn:Serial>015088202501033321100000060016</cmn:Serial>
        <cmn:Serial>015088202501033321100000060017</cmn:Serial>
        <cmn:Serial>015088202501033321100000060018</cmn:Serial>
    </cmn:NumberList>
    <cmn:ResetContainerAggregation>true</cmn:ResetContainerAggregation>
    <cmn:DisaggregateFromParent>true</cmn:DisaggregateFromParent>
</som:Aggregation>
<som:Aggregation>
    <cmn:EventDateTime>2019-09-20T06:30:32.12Z</cmn:EventDateTime>
    <cmn:EventTimeZoneOffset>+04:00</cmn:EventTimeZoneOffset>
    <cmn:EventLocation>0333331013655</cmn:EventLocation>
    <cmn:EventLocationType>GLN</cmn:EventLocationType>
    <cmn:PlantLocationId>0333331013655</cmn:PlantLocationId>
    <cmn:ProductionLineId>12436587</cmn:ProductionLineId>
    <cmn:LineManagerName>Fred Bobbit</cmn:LineManagerName>
    <cmn:ParentSerial>015088202501033321100000060051</cmn:ParentSerial>
    <cmn:PackedStatus>FULL</cmn:PackedStatus>
    <cmn:PackagingLevel>CA</cmn:PackagingLevel>
    <cmn:Quantity>20</cmn:Quantity>
    <cmn:NumberList>
        <cmn:Serial>015088202501033321100000060052</cmn:Serial>
        <cmn:Serial>015088202501033321100000060053</cmn:Serial>
        <cmn:Serial>015088202501033321100000060054</cmn:Serial>
        <cmn:Serial>015088202501033321100000060055</cmn:Serial>
        <cmn:Serial>015088202501033321100000060056</cmn:Serial>
        <cmn:Serial>015088202501033321100000060057</cmn:Serial>
        <cmn:Serial>015088202501033321100000060058</cmn:Serial>
        <cmn:Serial>015088202501033321100000060059</cmn:Serial>
    </cmn:NumberList>
    <cmn:ResetContainerAggregation>true</cmn:ResetContainerAggregation>
    <cmn:DisaggregateFromParent>true</cmn:DisaggregateFromParent>
</som:Aggregation>
<som:Disaggregation>
    <cmn:EventDateTime>2019-09-20T06:30:32.12Z</cmn:EventDateTime>
    <cmn:EventTimeZoneOffset>+04:00</cmn:EventTimeZoneOffset>
    <cmn:EventLocation>0333331013655</cmn:EventLocation>
    <cmn:EventLocationType>GLN</cmn:EventLocationType>
    <cmn:ParentSerial>015088202501033321100000060020</cmn:ParentSerial>
    <cmn:NumberList>
        <cmn:Serial>015088202501033321100000060021</cmn:Serial>

```

```

        <cmn:Serial>015088202501033321100000060022</cmn:Serial>
    </cmn:NumberList>
</som:Disaggregation>
<som:Disaggregation>
    <cmn:EventDateTime>2019-09-20T06:30:32.12Z</cmn:EventDateTime>
    <cmn:EventTimeZoneOffset>+04:02</cmn:EventTimeZoneOffset>
    <cmn:EventLocation>0333331013655</cmn:EventLocation>
    <cmn:EventLocationType>GLN</cmn:EventLocationType>
    <cmn:ParentSerial>015088202501033321100000060030</cmn:ParentSerial>
    <cmn:NumberList>
        <cmn:Serial>015088202501033321100000060031</cmn:Serial>
        <cmn:Serial>015088202501033321100000060032</cmn:Serial>
    </cmn:NumberList>
</som:Disaggregation>
</som:MessageBody>
</som:SOMAggregationUpdateMessage>

```

Errors

Data Element	Error Message	Description
Class 1		
choice%1	At least one instance of either Aggregation or Disaggregation is required !!!	The error occurs if cmn:Aggregation and cmn:Disaggregation are both empty or null.
cmn:Aggregation cmn:EventLocation	Event location is required !!!	The error occurs if the source is empty or null.
cmn:Aggregation cmn:EventLocationType	Valid event location type is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
cmn:Aggregation cmn:ParentSerial	Parent serial number is required !!!	The error occurs if the source is empty or null.
cmn:Aggregation cmn:ParentSerial @format	Valid format code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:Aggregation cmn:ParentSerial cmn:PackedStatus	Valid packaging level code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:PackagingLevel	Valid packaging level code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:Aggregation cmn:NumberList cmn:Serial	Serial number is required !!!	The error occurs if the source is empty or null.

Data Element	Error Message	Description
cmn:Aggregation cmn:NumberList cmn:Serial @format	Valid format code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:Aggregation cmn:ExtensionField cmn:FieldName	Field name is required if extension field group present !!!	The error occurs if cmn:ExtensionField is populated, but the source is empty or null.
cmn:Aggregation cmn:ExtensionField cmn:FieldValue	Field value is required if extension field group present !!!	The error occurs if cmn:ExtensionField is populated, but the source is empty or null.
cmn:Disaggregation cmn:EventLocation	Event location is required !!!	The error occurs if the source is empty or null.
cmn:Disaggregation cmn:EventLocationType	Valid event location type is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
cmn:Disaggregation cmn:ParentSerial @format	Valid format code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:Disaggregation cmn:ParentSerial cmn:PackedStatus	Valid packaging level code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:Disaggregation cmn:NumberList cmn:Serial	Serial number is required !!!	The error occurs if the source is empty or null.
cmn:Disaggregation cmn:NumberList cmn:Serial @format	Valid format code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:Disaggregation cmn:ExtensionField cmn:FieldName	Field name is required if extension field group present !!!	The error occurs if cmn:ExtensionField is populated, but the source is empty or null.
cmn:Disaggregation cmn:ExtensionField cmn:FieldValue	Field value is required if extension field group present !!!	The error occurs if cmn:ExtensionField is populated, but the source is empty or null.
Class 2		
cmn:Aggregation cmn:EventDateTime	Event timestamp is earlier than the last event for serial number <Serial Number>.	The error occurs if the source is before the commission event time for cmn:Aggregation cmn:NumberList cmn:Serial .
cmn:Aggregation cmn:ParentSerial	Serial number <Serial Number> does not exist.	The error occurs if the source does not exist in TraceLink.
	Parent Serial Number <ParentSerial> was not commissioned at this location.	The error occurs if the source was not commissioned at this subscriber location.

Data Element	Error Message	Description
cmn:Aggregation cmn:NumberList cmn:Serial	Serial number <Serial Number> does not exist.	The error occurs if the source does not exist in TraceLink.
	Serial Number <Serial> cannot be aggregated because it was not commissioned for this location.	The error occurs if the source was not commissioned at this subscriber location.
	Cannot aggregate Serial number <Serial> with UOM <PackagingLevelUOM> into Serial Number <ParentSerial> with UOM <PackagingLevelUOM>.	The error occurs if the source packaging level is larger than the packaging level for cmn:ParentSerial.
cmn:Disaggregation cmn:EventDateTime	Event timestamp is earlier than the aggregation date for serial number <Serial>.	The error occurs if the source is before the aggregation event time for cmn:Disaggregation cmn:NumberList cmn:Serial .
cmn:Disaggregation cmn:EventLocation	Authorization Response from server: Credentials are required to access this resource.	The error occurs if the source cannot be found.
cmn:Disaggregation cmn:ParentSerial	Serial number <Serial Number> does not exist.	The error occurs if the source does not exist in TraceLink.
	Serial number <Serial Number> not commissioned.	The error occurs if the source was not commissioned at this subscriber location.
	Cannot perform operation on serial number [Serial Number] with item state [Serial Number Status]. This operation can only be performed when the serial number is Available or Blocked or Picked.	The error occurs if the source is not in an available, blocked, or picked state.
	Serial number <Serial Number> does not have any items aggregated to it.	The error occurs if the source has no child serial numbers.
cmn:Disaggregation cmn:NumberList cmn:Serial	Serial Number <Serial> cannot be disaggregated because it was not previously aggregated to <ParentSerial>.	The error occurs if the source is not a child of cmn:Disaggregation cmn:ParentSerial .
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

Aggregation Update (EPCIS v1.2)

Guidelines

Use this message to capture both aggregation and disaggregation events simultaneously. If the items being disaggregated have a Russia target market, this message initiates the [911 - Unit Pack](#) and [914 - Unit Append](#) reports in addition to the [913 - Unit Extract](#) report.

This message uses the Park and Retry functionality. If a prerequisite condition for this message has not been met, TraceLink stops processing the task, returns the task to the queue, and then tries to process the task again every 15 minutes for up to 2 hours.

ⓘ When choosing to send multiple aggregation events (aggregations, disaggregations, or a combination thereof) at the same time, use the Aggregation Update message instead of individual Aggregation or Disaggregation messages.

Message Type: SOMAggregateUpdate

Info Exchange Display Name: Aggregate Update

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

❗ The MDLP Bulk API currently has a limit of 20 events per message.

Data Element		Occurs Length	Type	Description
epcis:EPCISDocument		1...1 -	-	Required. EPCIS message root element.
@schemaVersion		1...1 0/*	Decimal	Required. The version of the EPCIS schema used to populate the EPCIS document elements. Must equal 1.2. ¹
@creationDate		1...1 1/*	DateTime	Date the message was created in YYYY-MM-DDTHH:MM:SS:mmZ format. ²
EPCISHeader		0...1 -	-	Required. The XML file control header.
	sbdh:StandardBusinessDocumentHeader	1...1 -	-	Required. Business header information including EPCIS Header Version, Sender, and Receiver information, along with the document identification.

¹1.2

²2019-10-18T22:08:02Z

Data Element				Occurs Length	Type	Description
			sbdh:HeaderVersion	1...1 0/*	String	Required. Version of the Standard Business Document Header (SBDH). The HeaderVersion must be set to 1.0 . ¹
			sbdh:Sender	1...* -	-	Required. A unique identification key for the Sender party of the message, representing the organization that created the standard business document. The Sender element must be used only once with GS1 XML messages.
			sbdh:Identifier	1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type. Send SGLN and all other party types with the GS1-conformant URI prefix. For example: ² http://epcis.gs1us.org/hc/dea/loc/10023141 urn:epc:id:sgln:088202.867701.0  GLNs do not have a urn or http prefix.
			@Authority	1...1 1/*	String	Required. The sender identifier type. The Authority was previously expected to be set to GLN for GS1 XML messages. An update made in December 2016 changed this to accept additional values. ³ See the BusinessAndLocationId enumeration list for valid values.
			sbdh:Receiver	1...* -	-	Required. Indicates a unique identification key for the direct Receiver party of the message, representing the organization that receives the standard business document. The Receiver element is used only once with GS1 XML messages.
			sbdh:Identifier	1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type. Send SGLN and all other party types with the GS1-conformant URI prefix. For example: ⁴ http://epcis.gs1us.org/hc/dea/loc/10023141 urn:epc:id:sgln:088202.867701.0  GLNs do not have a urn or http prefix.
			@Authority	1...1 1/*	String	Required. The receiver identifier type. The Authority was previously expected to be set to GLN for GS1 XML messages. An update made in December 2016 changed this to accept additional values. ⁵

¹1.0²1100001014507³GLN⁴0614141123452⁵GLN

Data Element						Occurs Length	Type	Description
								See the BusinessAndLocationId enumeration list for valid values.
			sbdh:DocumentIdentification			1...1	-	Required. Contains the identification group for the message.
				sbdh:Standard		1...1 0/*	String	Required. Name of the document standard contained in the file or message. The standard value for this field is EPCglobal . ¹
				sbdh:TypeVersion		1...1 0/*	String	Required. Reflects the version of the document included. This is the complete version of the document itself and is different from the HeaderVersion as these are hard-coded values. The TypeVersion is set to 1.0 . ²
				sbdh:InstanceIdentifier		1...1 1/*	String	Required. Reference information that uniquely identifies this instance of the Standard Business Document between the Sender and the Receiver. This identifier confirms this document as being distinct from others. ³
				sbdh:Type		1...1 0/*	String	Required. This element identifies the type of the document. The Type must equal Events . ⁴
				sbdh:CreationDateAndTime		1...1 0/*	DateTime	Required. The date and time of the SBDH document's creation. GMT create date and time for the EPCIS message. The system expects the Z to be appended; however, if it is not included, the system assumes that the time is GMT and therefore appends the Z . ⁵
	EPCISBody					1...1 -	-	Required. Contains all of the EPCIS events for this message.
		EventList				1...1 -	-	Required. The EventList supports the following events: • AggregationEvent for aggregation • AggregationEvent for disaggregation
			AggregationEvent			0...* -	-	Required. AggregationEvent is used for both aggregation and disaggregation events. The type of event is defined by the following: • For an aggregation event, the following must be true: • action = ADD • bizStep = urn:epcglobal:cbv:bizstep:packing • disposition = urn:epcglobal:cbv:in_progress

¹EPCglobal²1.0³0000001⁴Events⁵2019-10-18T22:08:02Z

Data Element				Occurs Length	Type	Description
						- For a disaggregation event, the following must be true: action = <code>DELETE</code> bizStep = <code>urn:epcglobal:cbv:bizstep:unpacking</code> disposition = <code>urn:epcglobal:cbv:disp:in_progress</code>
			eventTime	1...1 1/*	DateTime	Required. The time stamp of the date or time when the event occurred in YYYY-MM-DDTHH:MM:SS.mm or YYYY-MM-DDTHH:MM:SS.mmm format. Must include a time zone indicator as specified in Section 9.5 of EPCIS1.0.1. The system expects the Z to be appended to the time zone indicator; if it is not present, TraceLink assumes that the time is GMT and therefore appends the Z. ¹
			eventTimeZoneOffset	1...1 0/*	DateTime	Required. The time zone offset in effect where the packaging occurs. Default value is <code>+00:00</code> .
			parentID	1...1 1/*	String	Conditionally required for an aggregation event when aggregating, i.e. when the following is true: action = <code>ADD</code> bizStep = <code>urn:epcglobal:cbv:bizstep:packing</code> disposition = <code>urn:epcglobal:cbv:in_progress</code> Identifier of the parent container in EPC Pure Identity URI format. Examples: ² - For an item-to-case aggregation, the EPC of the case. - For a case-to-pallet aggregation, the EPC of the pallet.
			childEPCs	1...1 -	-	Required. List of identifiers of the child items in the parent container in EPC Pure Identity URI format. Examples: - For an item-to-case aggregation, the EPCs of the items. - For a case-to-pallet aggregation, the EPCs of the cases.

¹2019-10-18T22:08:02Z²urn:epc:id:sgtin:088202.5503022.100000000670

urn:epc:id:sscc:088202.00200000034

http://epcis.tracelink.com/hc/cn-edmc/obj/88102301100002005943

http://epcis.tracelink.com/hc/ntin/obj/4150.001647778.100000000002

Data Element						Occurs Length	Type	Description
					epc	0... 0/*	AnyURI	Required. Identifier of the child items in the parent container in EPC Pure Identity URI format. ¹
					action	1...1 1/*	String	Required. The action taken. ² - For an aggregation event, action must equal ADD. - For a disaggregation event, action must equal DELETE.
					bizStep	0...1 0/*	AnyURI	Required. The business step. ³ - For an aggregation event, bizStep must equal urn:epcglobal:cbv:bizstep:packing. - For a disaggregation event, bizStep must equal urn:epcglobal:cbv:bizstep:unpacking.
					disposition	0...1 0/*	AnyURI	Required. The status of the message. ⁴ - For an aggregation event, disposition must equal urn:epcglobal:cbv:disp:in_progress. - For a disaggregation event, disposition must equal urn:epcglobal:cbv:disp:in_progress.
					readPoint	0...1 -	-	Refers to the location of where the event occurs.
					id	0...1 0/*	AnyURI	The SGLN EPC of the location from where the event occurs. ⁵
					bizLocation	1...1 -	-	Required. Location of the business.
					id	1...1 1/*	AnyURI	Required. The SGLN EPC of the location where the objects are following the event. ⁶
					tl:aggregationEventExtensions	0...1	-	Extensions for AggregationEvent .

¹urn:epc:id:sgtin:088202.5503022.100000000670

urn:epc:id:sscc:088202.00200000034

http://epcis.tracelink.com/hc/cn-edmc/obj/88102301100002005943

http://epcis.tracelink.com/hc/ntin/obj/4150.001647778.100000000002

²ADD³urn:epcglobal:cbv:bizstep:packing⁴urn:epcglobal:cbv:disp:in_progress⁵urn:epc:id:sgln:1100001.12345.0⁶urn:epc:id:sgln:1100001.12345.0

Data Element					Occurs Length	Type	Description
				tl:packedStatus	0...1 0/*	String	The packed status of the item or container.¹ See the PackedStatus enumeration list for valid values. i Use for only an aggregation event when aggregating, i.e. when the following is true: action = "ADD" bizStep = "urn:epcglobal:cbv:bizstep:packing" disposition = "urn:epcglobal:cbv:disp:in_progress"
				tl:quantity	0...1 -	Int	The quantity of child serial numbers aggregated to the parent container.² i Use for only an aggregation event when aggregating, i.e. when the following is true: action = "ADD" bizStep = "urn:epcglobal:cbv:bizstep:packing" disposition = "urn:epcglobal:cbv:disp:in_progress"
				tl:filterValue	0...1 0/*	String	Conditionally required if commissioning a new SSCC. The filter value used in GTIN-14 and SSCC serial numbers.³
				tl:packagingLevel	0...1 0/*	String	The packaging level of the commissioned item.⁴ See the PackagingLevel enumeration list for valid values. i Use for only an aggregation event when aggregating, i.e. when the following is true: action = "ADD" bizStep = "urn:epcglobal:cbv:bizstep:packing" disposition = "urn:epcglobal:cbv:disp:in_progress"

¹FULL²48³1⁴CA

Data Element					Occurs Length	Type	Description
				tl:resetContainerAggregation	0...1 -	Boolean	If set to true, existing child items that are not present in the new childEPCs are disaggregated from their parent container. New child items that are present in the new childEPCs are then aggregated to the parent container.¹ If a value is not specified, defaults to false. Use for only an aggregation event when aggregating, i.e. when the following is true: action = "ADD" bizStep = "urn:epcglobal:cbv:bizstep:packing" disposition = "urn:epcglobal:cbv:disp:in_progress"
				tl:disaggregateFromParent	1...1 -	Boolean	Required. If set to true, the existing aggregation of the child items is adjusted and the items are aggregated to the new parent container (i.e. TraceLink performs an implicit disaggregation and then aggregates the items).²
				tl:plantLocationId	0...1 0/*	String	Plant location identifier.³ Use for only an aggregation event when aggregating, i.e. when the following is true: action = "ADD" bizStep = "urn:epcglobal:cbv:bizstep:packing" disposition = "urn:epcglobal:cbv:disp:in_progress"
				tl:productionLineId	0...1 0/*	String	The name of the production line where the packaging occurs.⁴ Use for only an aggregation event when aggregating, i.e. when the following is true: action = "ADD" bizStep = "urn:epcglobal:cbv:bizstep:packing" disposition = "urn:epcglobal:cbv:disp:in_progress"

¹true²true³0333331013655⁴12436587

Data Element						Occurs Length	Type	Description
					tl:lineManagerName	0...1 0/*	String	The name of the line or production manager who is on shift when the batch is produced.¹  Use for only an aggregation event when aggregating, i.e. when the following is true: action = "ADD" bizStep = "urn:epcglobal:cbv:bizstep:packing" disposition = "urn:epcglobal:cbv:disp:in_progress"
					tl:extensionField	0...* -	-	Extension to pass 1 or more name value pairs containing additional data attributes that are not already supported in this message.  The tl:extensionField element group is not stored by TraceLink, and is used only when a trade partner requires additional information (e.g. when a CMO is required to provide additional data fields to the Pharmaceutical Manufacturer).
					tl:fieldName	1...1 1/*	String	Required. Populate with the field name provided by the trade partner that receives the outbound message.  tl:fieldName is case sensitive and must match the field name provided by the trade partner exactly.
					tl:fieldValue	1...1 1/*	String	Required. The field value that corresponds to the tl:fieldName .

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
xmlns:tl="http://epcis.tracelink.com/ns" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader" schemaVersion="1.2"
creationDate="2019-10-18T17:45:20.00Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier Authority="GLN">0882028677019</sbdh:Identifier>
      </sbdh:Sender>
    </EPCISHeader>
  </EPCISDocument>
```

¹Fred Bobbit

```

<sbdh:Receiver>
  <sbdh:Identifier Authority="GLN">0333331013655</sbdh:Identifier>
</sbdh:Receiver>
<sbdh:DocumentIdentification>
  <sbdh:Standard>EPCglobal</sbdh:Standard>
  <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
  <sbdh:InstanceIdentifier>201901311745200001</sbdh:InstanceIdentifier>
  <sbdh:Type>Events</sbdh:Type>
  <sbdh:CreationDateAndTime>2019-10-18T17:45:20.00Z</sbdh:CreationDateAndTime>
</sbdh:DocumentIdentification>
</sbdh:StandardBusinessDocumentHeader>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <AggregationEvent>
      <eventTime>2019-10-18T22:08:02Z</eventTime>
      <eventTimeZoneOffset>+00:00</eventTimeZoneOffset>
      <parentID>urn:epc:id:sscc:088202.00200000034</parentID>
      <childEPCs>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060001</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060002</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060003</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060004</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060005</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060006</epc>
      </childEPCs>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
      <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
      <bizLocation>
        <id>urn:epc:id:sgln:7777776.67345.0</id>
      </bizLocation>
      <tl:aggregationEventExtensions>
        <tl:packedStatus>FULL</tl:packedStatus>
        <tl:quantity>50</tl:quantity>
        <tl:packagingLevel>CA</tl:packagingLevel>
        <tl:resetContainerAggregation>true</tl:resetContainerAggregation>
        <tl:disaggregateFromParent>true</tl:disaggregateFromParent>
        <tl:plantLocationId>0333331013655</tl:plantLocationId>
        <tl:productionLineId>12436587</tl:productionLineId>
      </tl:aggregationEventExtensions>
    </AggregationEvent>
  </EventList>
</EPCISBody>
</EPCIS>

```

```

        <tl:lineManagerName>Fred Bobbit</tl:lineManagerName>
    </tl:aggregationEventExtensions>
</AggregationEvent>
<AggregationEvent>
    <eventTime>2019-10-18T22:08:02Z</eventTime>
    <eventTimeZoneOffset>+00:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:088202.00200000034</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060007</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060008</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060009</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060010</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060011</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060012</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <bizLocation>
        <id>urn:epc:id:sgln:7777776.67345.0</id>
    </bizLocation>
    <tl:aggregationEventExtensions>
        <tl:packedStatus>FULL</tl:packedStatus>
        <tl:quantity>50</tl:quantity>
        <tl:packagingLevel>CA</tl:packagingLevel>
        <tl:resetContainerAggregation>true</tl:resetContainerAggregation>
        <tl:disaggregateFromParent>true</tl:disaggregateFromParent>
        <tl:plantLocationId>0333331013655</tl:plantLocationId>
        <tl:productionLineId>12436587</tl:productionLineId>
        <tl:lineManagerName>Fred Bobbit</tl:lineManagerName>
    </tl:aggregationEventExtensions>
</AggregationEvent>
<AggregationEvent>
    <eventTime>2019-10-18T22:08:02Z</eventTime>
    <eventTimeZoneOffset>+00:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:088202.00200000035</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060107</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060108</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060109</epc>

```

```

        <epc>urn:epc:id:sgtin:0882025.501033.100000060110</epc>
    </childEPCs>
    <action>DELETE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <bizLocation>
        <id>urn:epc:id:sgln:7777776.67345.0</id>
    </bizLocation>
</AggregationEvent>
<AggregationEvent>
    <eventTime>2019-10-18T22:08:02Z</eventTime>
    <eventTimeZoneOffset>+00:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:088202.002000000035</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060013</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060014</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060015</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060016</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060017</epc>
        <epc>urn:epc:id:sgtin:0882025.501033.100000060018</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <bizLocation>
        <id>urn:epc:id:sgln:7777776.67345.0</id>
    </bizLocation>
    <tl:aggregationEventExtensions>
        <tl:packedStatus>FULL</tl:packedStatus>
        <tl:quantity>50</tl:quantity>
        <tl:packagingLevel>CA</tl:packagingLevel>
        <tl:resetContainerAggregation>true</tl:resetContainerAggregation>
        <tl:disaggregateFromParent>true</tl:disaggregateFromParent>
        <tl:plantLocationId>0333331013655</tl:plantLocationId>
        <tl:productionLineId>12436587</tl:productionLineId>
        <tl:lineManagerName>Fred Bobbit</tl:lineManagerName>
    </tl:aggregationEventExtensions>
</AggregationEvent>
<AggregationEvent>
    <eventTime>2019-10-18T22:08:02Z</eventTime>

```

```

<eventTimeZoneOffset>+00:00</eventTimeZoneOffset>
<parentID>urn:epc:id:sscc:088202.00200001035</parentID>
<childEPCs>
  <epc>urn:epc:id:sgtin:0882025.501033.100000060207</epc>
  <epc>urn:epc:id:sgtin:0882025.501033.100000060208</epc>
  <epc>urn:epc:id:sgtin:0882025.501033.100000060209</epc>
  <epc>urn:epc:id:sgtin:0882025.501033.100000060210</epc>
</childEPCs>
<action>DELETE</action>
<bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
<disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
<bizLocation>
  <id>urn:epc:id:sgln:7777776.67345.0</id>
</bizLocation>
</AggregationEvent>
<AggregationEvent>
  <eventTime>2019-10-18T22:08:02Z</eventTime>
  <eventTimeZoneOffset>+00:00</eventTimeZoneOffset>
  <parentID>urn:epc:id:sscc:088202.00200002035</parentID>
  <childEPCs>
    <epc>urn:epc:id:sgtin:0882025.501033.100000060307</epc>
    <epc>urn:epc:id:sgtin:0882025.501033.100000060308</epc>
    <epc>urn:epc:id:sgtin:0882025.501033.100000060309</epc>
    <epc>urn:epc:id:sgtin:0882025.501033.100000060310</epc>
  </childEPCs>
  <action>DELETE</action>
  <bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep>
  <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
  <bizLocation>
    <id>urn:epc:id:sgln:7777776.67345.0</id>
  </bizLocation>
</AggregationEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```


Aggregation Update (SOAP)

Aggregation Update Request

Guidelines

The Aggregation Update message allows Pharmaceutical Manufacturer Owners to report the aggregation and disaggregation of product simultaneously to account for warehouse packing activities. Each message can contain multiple aggregations or disaggregations.

ⓘ When sending multiple aggregation events (i.e. aggregations, disaggregations, or a combination thereof) at the same time, use this message instead of individual Aggregation or Disaggregation messages.

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

⚠ The MDLP Bulk API currently has a limit of 20 events per message.

The following data is sent in the request to TraceLink:

Elements			Occurs Length	Type	Notes
soapenv:Envelope			1...1 -	-	Required. The SOAP envelope root element.
	soapenv:Header		1...1 -	-	Required. Not used. The SOAP message header.
	soapenv:Body		1...1 -	-	Required. The SOAP message body.
		urn:AggregateUpdate	1...1 -	-	Required. Aggregation Update message.
		AggregationUpdateRequest	0...1 -	-	Required. Aggregate request to associate child serial numbers to a parent container.

Elements						Occurs Length	Type	Notes
				Aggregations		0...* -	-	Aggregation group element.
				Aggregation		0...* -	-	Required. Aggregation event. See the Aggregation Strict element for important configuration information.
				Container		1...1 -	-	Required. Parent container serial information. If the Aggregation Container is specified, all items must currently be a child of the specified container.
					@sn	1...1 1/*	String	Required. Parent container's serial number. ¹
					@namespace	0...1 0/*	String	Not used.
				Items		1...1 -	-	Required. Child serial information.
					Item	1...* -	-	Required. List of one or more child serial numbers to aggregate to parent container's serial number.
					@sn	1...1 1/*	String	Required. Child serial number in one of the following formats: - AI(01)+AI(21) formatted numbers are: 01 + [GTIN14] + 21 + [serial number] Ex: 015088202503022521100000090109 - AI(00) formatted numbers are: 00 + [SSCC18 code] Ex: 00008820200000047506 - CN-EDMC formatted serial numbers are: 20 digit China EDMC code Ex: 81530070000022519351
					@namespace	0...1 1/*	String	Not used.
				EventDateTime		0...1 -	Date	Timestamp of the date and time of the aggregation event with the UTC time zone indicator in YYYY-MM-DDThh:mm:ss.sZ format. If omitted, the system will record the current date and time. ²

¹00008820200000047506²2021-12-21T11:16:52.575Z

Elements						Occurs Length	Type	Notes
					Location	0...1 1/*	String	Site-level SGLN of the location where the event occurred. The SGLN format is the numeric component only, with urn prefix stripped (e.g. 8888882.02867.0 instead of urn:epc:id:sgln:8888882.02867.0 typically found in EPCIS events). ¹
					Strict	1...1 -	Boolean	Required. Flag that determines if the system performs an implicit disaggregation and then aggregates the items. Valid values: - If true, the aggregated item(s) must not already have a parent. If they do, an error will be returned. - If false, the items are re-associated to the new parent and the items' previous aggregations are adjusted.
					ResetAggregation	0...1 -	Boolean	Flag indicating to disaggregate all existing items in a container and aggregate the new set of items into that container. Valid values: - If true, TraceLink disaggregates all existing items in the specified container and aggregates the new set of items into that container. - If false (default), TraceLink does not disaggregate all existing items in the specified container.
					ParentCompanyPrefix	0...1 -	String	Conditionally required if the container serial number is unknown to TraceLink and must be commissioned. The GS1 Company Prefix used in GTIN-14 and SSCC serial numbers.
					ParentFilterValue	0...1 -	String	The filter value used in GTIN-14 and SSCC serial numbers.
					ParentFormat	0...1 -	String	Conditionally required if the container serial number is unknown to TraceLink and must be commissioned. The format of the parent serial numbers. Valid values: AI(01)+AI(21) AI(00) CN-EDMC
					ParentPackagingLevel	0...1	String	The packaging level of the commissioned item using the supported enumeration values. ²

¹8888882.02867.0²PL

Elements							Occurs Length	Type	Notes
									See the PackLevel enumeration list for valid values.
				Disaggregations			0...* -	-	Disaggregation group header.
					Disaggregation		1...* -	-	Required. Disaggregation event.
					Container		0...* -	-	Conditionally required if Disaggregation Strict is set to true . Parent container serial number. If Disaggregation Container is specified, all items must currently be a child of the specified container. If omitted, Disaggregation Strict must be set to false .
						@sn	1...1 1/*	String	Required. Parent serial number. ¹
						@namespace	0...1 1/*	String	Not used.
					Items		1...1 -	-	Required. Child serial numbers.
						Item	1...* -	-	Required. List of one or more child serial numbers to disaggregate from the parent container serial number.
						@sn	1...1 1/*	String	Required. Child serial number in one of the following formats: - AI(01)+AI(21) formatted numbers are: 01 + [GTIN14] + 21 + [serial number] Ex: 015088202503022521100000090109 - AI(00) formatted numbers are: 00 + [SSCC18 code] Ex: 00008820200000047506 - CN-EDMC formatted serial numbers are: 20 digit China EDMC code Ex: 81530070000022519351
						@namespace	0...1 1/*	String	Not used.
					EventDateTime		0...1 -	Date	Required. Timestamp of the date and time of the disaggregation event with the UTC time zone indicator in YYYY-MM-DDThh:mm:ss.sZ format. If omitted, the system will record the current date and time. ²

¹00008820200000047506²2021-12-21T11:16:52.575Z

Elements						Occurs Length	Type	Notes
					Location	0...1 1/*	String	Required. Site-level SGLN of the location where the event occurred. SGLN format is the numeric component only, with urn prefix stripped (e.g. <code>8888882.02867.0</code> instead of <code>urn:epc:id:sgln:8888882.02867.0</code> typically found in EPCIS events). ¹
					Strict	1...1 -	Boolean	Flag that determines whether Disaggregation Container must be provided. - If <code>true</code>, the parent container must be specified. - If <code>false</code>, the parent container is not specified and the child serial numbers are implicitly disaggregated from their parent containers.

Example

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:urn="urn:tracelink:soap">
  <soapenv:Header/>
  <soapenv:Body>
    <urn:AggregateUpdate>
      <AggregationUpdateRequest>
        <completed>false</completed>
        <Aggregations>
          <Aggregation>
            <Container sn="016862905203607821100000000030"/>
            <Items>
              <Item sn="018862905202566321100000000005"/>
            </Items>
            <EventDateTime>2020-12-31T11:16:52.575Z</EventDateTime>
            <Location>86290520.4996.0</Location>
            <Strict>true</Strict>
            <ResetAggregation>false</ResetAggregation>
            <IsCommissionSSCC>false</IsCommissionSSCC>
          </Aggregation>
        </Aggregations>
        <Disaggregations>
          <Disaggregation>
            <Container sn="016862905203607821100000000030"/>
            <Items>
```

¹8888882.02867.0

```

        <Item sn="018862905202566321100000000005"/>
      </Items>
      <EventDateTime>2020-12-31T11:18:53.193Z</EventDateTime>
      <Location>86290520.4996.0</Location>
      <Strict>true</Strict>
    </Disaggregation>
  </Disaggregations>
</AggregationUpdateRequest>
</urn:AggregateUpdate>
</soapenv:Body>
</soapenv:Envelope>

```

Errors

Exception Code	Exception Message
VALIDATION	Serial number <Serial Number> does not exist.
	Cannot aggregate Serial number <Serial> with UOM <PackagingLevelUOM> into Serial Number <ParentSerial> with UOM <PackagingLevelUOM>.
	Serial number <Serial Number> is already aggregated to <Actual Parent Serial Number>.
	Cannot perform operation on serial number [Serial Number] with item state [Serial Number Status]. This operation can only be performed when the serial number is Available or Blocked or Picked.
	Serial Number <Serial> cannot be disaggregated because it was not previously aggregated to <ParentSerial>.
	Event timestamp is earlier than the aggregation date for serial number <Serial>.

Aggregation Update Response

Guidelines

⚠ The MDLP Bulk API currently has a limit of 20 events per message.

The following data is included in the message response:

Data Element					Occurs Length	Type	Description
S:Envelope					1...1 -	-	Required. The SOAP Envelope root element.
S:Body					1...1 -	-	Required. The SOAP Message Body.
ns2:AggregateResponse					1...1 -	-	Required. The Aggregation Update response message.
TLResponse					1...1 -	-	Required. The TraceLink response.
Success					1...1 -	-	Required. Indicates if the Aggregation Update request successfully processed. ¹
ExceptionReturn					0...1 -	-	Conditionally required if Success = <code>false</code> . Populated with error information only if Success = <code>false</code> , otherwise omitted.
CallException					1...* -	-	Required. Contains error information including the exception code and error message, if available.
ExceptionCode					1...1 0/*	String	Required. Error code.
ExceptionMessage					0...1 0/*	String	Conditionally required if an error occurred. Message that further describes error condition, if available.

Example

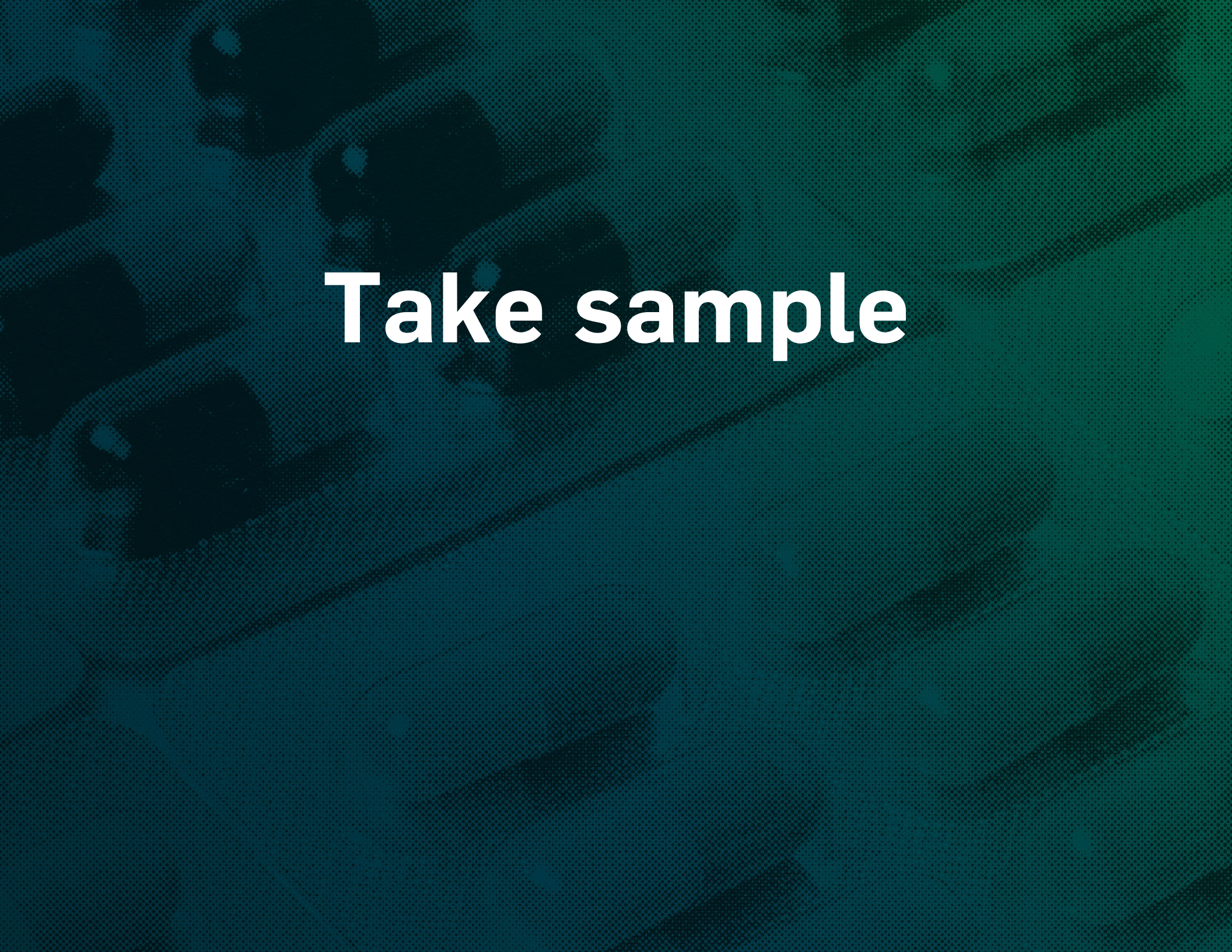
```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns3:AggregateUpdateResponse xmlns:ns2="http://tracelink.com/som" xmlns:ns3="urn:tracelink:soap">
      <TLResponse>
        <Success>true</Success>
      </TLResponse>
    </ns3:AggregateUpdateResponse>
  </S:Body>
</S:Envelope>
```

¹true

Errors

Data Element	Error Message	Description
Class 1		
AggregationEvent	At least one aggregation event is required !!!	The error occurs if no AggregationEvent is present.
parentID	Invalid EPC format !!!	The error occurs if the source is invalid.
epc	Invalid EPC format !!!	The error occurs if the source is invalid or is empty or null.
action	Action ADD is required for aggregation !!!	The error occurs if the source does not equal "ADD" for an aggregation event.
	Action DELETE is required for disaggregation !!!	The error occurs if the source does not equal "DELETE" for a disaggregation event.
bizStep	bizStep urn:epcglobal:cbv:bizstep:packing is required for aggregation !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:packing" for an aggregation event.
	bizStep urn:epcglobal:cbv:bizstep:unpacking is required for disaggregation !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:unpacking" for a disaggregation event.
disposition	Disposition urn:epcglobal:cbv:disp:in_progress is required for aggregation !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:in_progress" for an aggregation event.
	Disposition urn:epcglobal:cbv:disp:in_progress is required for disaggregation !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:in_progress" for a disaggregation event.
bizLocation id	Business location is required !!!	The error occurs if the source is empty or null.
	Valid business location identifier type is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
tl:packedStatus	Valid packed status is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
tl:packagingLevel	Valid packaging level code is required !!!	The error occurs if the source is invalid.
tl:fieldName	Field name is required if extension field group is present !!!	The error occurs if tl:extensionField is populated, but the source is empty or null.
tl:fieldValue	Field value is required if extension field group present !!!	The error occurs if tl:extensionField is populated, but the source is empty or null.

Data Element	Error Message	Description
Class 2		
AggregationEvent (aggregation event) eventTime	Event timestamp is earlier than the last event for serial number <Serial Number>.	The error occurs if the source is before the commission event time for AggregationEvent (aggregation event) parentID .
AggregationEvent (disaggregation event) eventTime	Event timestamp is earlier than the aggregation date for serial number <Serial>.	The error occurs if the source is before the aggregation event time for AggregationEvent (disaggregation event) parentID .
AggregationEvent (aggregation event) parentID	Serial number <Serial Number> does not exist.	The error occurs if the source does not exist in TraceLink.
	Parent Serial Number <ParentSerial> was not commissioned at this location.	The error occurs if the source was not commissioned at this subscriber location.
AggregationEvent (disaggregation event) parentID	Serial number <Serial Number> does not exist.	The error occurs if the source does not exist in TraceLink.
	Serial number <Serial Number> not commissioned.	The error occurs if the source was not commissioned at this subscriber location.
	Cannot perform operation on serial number [Serial Number] with item state [Serial Number Status]. This operation can only be performed when the serial number is Available or Blocked or Picked.	The error occurs if the source is not in an available, blocked, or picked status.
	Serial number <Serial Number> does not have any items aggregated to it.	The error occurs if the source has no child serial numbers.
Aggregation Event (aggregation event) childEPCs epc	Serial number <Serial Number> does not exist.	The error occurs if the source does not exist in TraceLink.
	Serial Number <Serial> cannot be aggregated because it was not commissioned for this location.	The error occurs if the source was not commissioned at this subscriber location.
	Cannot aggregate Serial number <Serial> with UOM <PackagingLevelUOM> into Serial Number <ParentSerial> with UOM <PackagingLevelUOM>.	The error occurs if the source packaging level is larger than the packaging level for AggregationEvent (aggregation event) parentID .
Aggregation Event (disaggregation event) childEPCs epc	Serial Number <Serial> cannot be disaggregated because it was not previously aggregated to <ParentSerial>.	The error occurs if the source is not aggregated to AggregationEvent (disaggregation event) parentID .
AggregationEvent (disaggregation event) bizLocation id	Authorization Response from server: Credentials are required to access this resource.	The error occurs if the source cannot be found.
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		



Take sample

Take sample APIs

Why do I use these messages?

Use the following messages to mark product as sampled for quality assurance or inspection by government authorities.

Which report do these messages generate?

These messages generate the [552 - Withdrawal](#) report in the Russia Compliance application if their contents meet the report conditions.

 TraceLink disaggregates the sampled product if the serial numbers are aggregated to parent containers, which prompts a disaggregation event and initiates the [913 - Unit Extract](#) report.

Take Product Sample (XML)

Guidelines

Message Type: SOM_TAKE_SAMPLE

Info Exchange Display Name: Take Product Sample

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

Data Element		Occurs Length	Type	Description
som:SOMTakeSampleMessage		1...1 -	-	Required. The root element of the Take Product Sample message.
	som:ControlFileHeader	1...1 -	-	Required. The message document's header information. ¹

¹1.2

Data Element					Occurs Length	Type	Description
		cmn:FileSenderNumber			1...1 1/20	String	Required. The company identifier of the file's sender. ¹
		cmn:FileReceiverNumber			1...1 1/20	String	Required. The company identifier of the file's recipient. ²
		cmn:FileControlNumber			1...1 1/20	String	Required. The message's unique file control ID number. A file control ID number is mandatory for all messages. ³
		cmn:FileDate			1...1 10/10	Date	Required. The date that the message is sent in YYYY-MM-DD format. Date and times must be in GMT. ⁴
		cmn:FileTime			1...1 9/9	Time	Required. Time file generated in XML in HH:MM:SSZ format. The system expects the Z to be appended; however, if it is not included, the system assumes that the time is GMT and therefore appends the Z . ⁵
	som:MessageBody			1...1 -	-	Required. Contains the main body of the message.	
		cmn:EventDateTime			1...1 0/*	Datetime	Required. Timestamp of the date and time when the serial number is commissioned to the object with the UTC time zone indicator in XML YYYY-MM-DDTHH:MM:SS:mmZ format. ⁶
		cmn:EventTimeZoneOffset			1...1 0/*	String	Required. Event time zone offset. Default value is +00:00 if the source is not populated. ⁷
		cmn:NumberList			1...1 1/*	String	Required. Contains the list of serial numbers whose statuses are being updated.
			cmn:Serial		1...* 1/*	String	Required. Serial number expressed in the GS1 Application Identifier format without parentheses for the AI keys. AI(01)(21) formatted serial number for GTINs. Non-GS1 serial numbers (e.g. China) are expressed in native format. ⁸
				@companyPrefix	0...1	String	The GS1 Company Prefix used in GTIN-14 and SSCC serial numbers.

¹8888882028655²8888882028677³2019-03-21T06:31:32Z⁴2019-03-21⁵06:31:32Z⁶2019-03-21T06:31:32Z⁷+00:00⁸015088202501033321100000060001

Data Element					Occurs Length	Type	Description
				@filterValue	0...1 0/*	String	The filter value used in GTIN-14 serial numbers.
				@format	0...1 1/*	String	Identifies the format of the serial numbers. Valid values: - AI (01) + AI (21) - CN - EDMC
		cmn:EventLocation			0...1 0/34	String	Site-level SGLN or another party type of the location where the event occurs. SGLN and other party type formats are the numeric component only. If there is an urn prefix, it is stripped (e.g. 8888882.02867.0 instead of urn:epc:id:sgln:8888882.02867.0 typically found in EPCIS events. ¹
		cmn:EventLocationType			0...1 0/*	String	Conditionally required if cmn:EventLocation is present. Business or location type of the event location identifier. ² See the BusinessAndLocationId enumeration list for valid values.
		cmn:TakeSampleReasonCode			0...1 0/*	String	Required. Reason identifying why a serial number status is updated. ³ See the TakeSampleReasonCode enumeration list for valid values.
		cmn:ReasonDescription			0...1 0/*	String	Text description of the reason for status update. ⁴
		cmn:InspectionCountryCode			0...1 1/*	String	The country where the inspection is being performed using the standard two-letter abbreviation specified in ISO 3166-1alpha-2:1997 country code. ⁵ See the ISOCountryCode enumeration list for valid values.
		cmn:SamplingPartyId			0...1 0/*	String	Required. The business or location identifier for the entity performing the sampling. ⁶

¹8888882028655²GLN³QUALITY_CONTROL⁴Released by Quality⁵US⁶0882028677010

Data Element				Occurs Length	Type	Description
			@type	1..1 1/*	String	Required. The business or location type for the quality control entity identifier. ¹ See the BusinessAndLocationId enumeration list for valid values.

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<som:SOMTakeSampleMessage xmlns:som="urn:tracelink:mapper:sl:serialized_operations_manager"
xmlns:cmn="urn:tracelink:mapper:sl:commontypes">
  <som:ControlFileHeader>
    <cmn:FileSenderNumber>8888882028655</cmn:FileSenderNumber>
    <cmn:FileReceiverNumber>8888882028677</cmn:FileReceiverNumber>
    <cmn:FileControlNumber>0000000001</cmn:FileControlNumber>
    <cmn:FileDate>2019-03-21</cmn:FileDate>
    <cmn:FileTime>06:31:32Z</cmn:FileTime>
  </som:ControlFileHeader>
  <som:MessageBody>
    <cmn:EventDateTime>2019-03-21T06:31:32Z</cmn:EventDateTime>
    <cmn:EventTimeZoneOffset>+00:00</cmn:EventTimeZoneOffset>
    <cmn:NumberList>
      <cmn:Serial companyPrefix="1508820" filterValue="1" format="AI(01)+AI
(21)">015088202501033321100000060001</cmn:Serial>
      <cmn:Serial companyPrefix="1508820" filterValue="1" format="AI(01)+AI
(21)">015088202501033321100000060002</cmn:Serial>
      <cmn:Serial companyPrefix="1508820" filterValue="1" format="AI(01)+AI
(21)">015088202501033321100000060003</cmn:Serial>
      <cmn:Serial companyPrefix="1508820" filterValue="1" format="AI(01)+AI
(21)">015088202501033321100000060004</cmn:Serial>
      <cmn:Serial companyPrefix="1508820" filterValue="1" format="AI(01)+AI
(21)">015088202501033321100000060005</cmn:Serial>
    </cmn:NumberList>
    <cmn:EventLocation>8888882028655</cmn:EventLocation>
    <cmn:EventLocationType>GLN</cmn:EventLocationType>
  </som:MessageBody>
</som:SOMTakeSampleMessage>
```

¹GLN

```

    <cmn:TakeSampleReasonCode>SELECTIVE_CONTROL</cmn:TakeSampleReasonCode>
    <cmn:ReasonDescription>Released by Quality</cmn:ReasonDescription>
    <cmn:InspectionCountryCode>US</cmn:InspectionCountryCode>
    <cmn:SamplingPartyId type="GLN">0882028677010</cmn:SamplingPartyId>
  </som:MessageBody>
</som:SOMTakeSampleMessage>

```

Errors

Data Element	Error Message	Description
Class 1		
cmn:EventDateTime	Event date time is required !!!	The error occurs if the source is empty or null.
cmn:NumberList	At least one serial number is required !!!	The error occurs if the source is empty or null.
cmn:Serial	At least one serial number is required !!!	The error occurs if the source is empty or null.
cmn:EventLocationType	Valid event location type is required !!!	The error occurs if the source is empty or null.
cmn:TakeSampleBusinessCode	Valid take sample reason code required !!!	The error occurs if the source is empty or null.
cmn:InspectionCountryCode	Inspection Country Code must be two characters !!!	The error occurs if the source is present, but the length does not equal two characters.
cmn:SamplingPartyId @type	Valid sampling party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Valid sampling party identifier type is required !!!	The error occurs if the source is empty or null.
Class 2		
cmn:ReasonDescription	Reason Code is required for products sampled in Russia	The error occurs if cmn:InspectionCountryCode = "RU" but the source is empty or null.

Data Element	Error Message	Description
cmn:Serial	Serial Number <SerialNumber> does not exist.	The error occurs if the source is empty or null.
	Serial number <Serial Number> is not commissioned.	The error occurs if Status is not Commissioned.
	Serial number <Serial Number> is not associated with Location <Location Name>.	The error occurs if the source is associated with a company or location that differs from the transaction company or location.
	Cannot update the status on serial number <Serial Number> with UOM <PackagingLevelUOM>. Serial numbers must be Eaches.	The error occurs if the epc packaging level being sampled is not an Each.
	Operation could not be performed because serial number <Serial Number> is not empty.	The error occurs if packaging level UOM is not set, but the EPC has child EPCs.
cmn:SamplingPartyId	Field is not populated and Country of Inspection = RU ("Russia")	The error occurs if cmn:InspectionCountryCode = "RU" but the source is empty or null.
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

Take Product Sample (EPCIS v1.2)

Guidelines

Message Type: SOM_TAKE_SAMPLE

Info Exchange Display Name: Take Product Sample

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

Data Element	Occurs Length	Type	Description
epcis:EPCISDocument	1...1 -	-	Required. EPCIS message root element.

Data Element					Occurs Length	Type	Description
@schemaVersion					1...1 0/*	Decimal	Required. The version of the EPCIS schema used to populate the EPCIS document elements. Must equal 1.2 . ¹
@creationDate					1...1 1/*	DateTime	Required. Date the message was created in YYYY-MM-DDTHH:MM:SS:mmZ format. ²
EPCISHeader					0...1 -	-	Required. The XML file control header.
sbdh:StandardBusinessDocumentHeader					1...1 -	-	Required. Business header information including EPCIS Header Version, Sender, and Receiver information, along with the document identification.
sbdh:HeaderVersion					1...1 0/*	String	Required. Version of the Standard Business Document Header (SBDH). The HeaderVersion must be set to 1.0 . ³
sbdh:Sender					1...* -	-	Required. A unique identification key for the Sender party of the message, representing the organization that created the standard business document. The Sender element must be used only once with GS1 XML messages.
sbdh:Identifier					1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type.⁴ Send SGLN and all other party types with the GS1-conformant uri prefix, for example: urn:epc:id:sgln:088202.867701.0 http://epcis.gs1us.org/hc/dea/loc/10023141 See the MDPartyTypeAttributes enumeration list for valid values.  GLNs do not have an urn/http prefix.
@Authority					1...1 1/*	String	Required. The sender identifier type. The Authority was previously expected to be set to GLN for GS1 XML messages. An update made in December 2016 changed this to accept additional values.⁵ See the MDPartyTypeEnums enumeration list for valid values.
sbdh:Receiver					1...* -	-	Required. Indicates a unique identification key for the direct Receiver party of the message, representing the organization that receives the standard business document. The Receiver element is used only once with GS1 XML messages.

¹1.2²2019-03-31T22:08:02Z³1.0⁴1100001014507⁵GLN

Data Element					Occurs Length	Type	Description
				sbdh:Identifier	1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type.¹ Send SGLN and all other party types with the GS1-conformant uri prefix, for example: <code>urn:epc:id:sgln:088202.867701.0</code> <code>http://epcis.gs1us.org/hc/dea/loc/10023141</code> See the MDPartyTypeAttributes enumeration list for valid values.  GLNs do not have an urn/http prefix.
				@Authority	1...1 1/*	String	Required. The receiver identifier type. The Authority was previously expected to be set to "GLN" for GS1 XML messages. An update made in December 2016 changed this to accept additional values.² See the MDPartyTypeEnum enumeration list for valid values.
			sbdh:DocumentIdentification		1...1 -	-	Required. Contains the identification group for the message.
				sbdh:Standard	1...1 0/*	String	Required. Name of the document standard contained in the file or message. The standard value for this field is <code>EPCglobal</code>.³
				sbdh:TypeVersion	1...1 0/*	String	Required. Reflects the version of the document included. This is the complete version of the document itself and is different from the HeaderVersion as these are hard-coded values. The TypeVersion is set to <code>1.0</code>.⁴
				sbdh:InstanceIdentifier	1...1 1/*	String	Required. Reference information that uniquely identifies this instance of the Standard Business Document between the Sender and the Receiver. This identifier confirms this document as being distinct from others.⁵
				sbdh:Type	1...1 0/*	String	Required. The document type. The Type value is set to "Events" for a take product sample event.⁶
				sbdh:CreationDateAndTime	1...1 0/*	DateTime	Required. The date and time of the SBDH document's creation. GMT create date and time for the EPCIS message. The system expects the <code>Z</code> to be appended; however, if it is not included, the system assumes that the time is GMT and therefore appends the <code>Z</code>.⁷

¹0614141123452²GLN³EPCglobal⁴1.0⁵000001⁶Events⁷2018-04-30T22:08:02Z

Data Element					Occurs Length	Type	Description
EPCISBody					1...1 -	-	Required. Contains all of the EPCIS events for this message.
EventList					1...1 -	-	Required. Includes the ObjectEvent with tl:takeProductSampleEventExtensions .
choice%1					1... *	-	Required. Choice element. Only the ObjectEvent is present.
ObjectEvent					1... *	-	Required. ObjectEvent is the only choice within choice%1. Indicates a take product sample event when all of the following is true: • action = OBSERVE • bizStep = https://epcis.tracelink.com/bizStep/sampling • disposition = https://epcis.tracelink.com/disp/sampled
eventTime					1...1 1/*	DateTime	Required. The time stamp of the date/time when the event occurred in YYYY-MM-DDTHH:MM:SS.mm or YYYY-MM-DDTHH:MM:SS.mmm format. Must include a time zone indicator as specified in Section 9.5 of [EPCIS1.0.1]. The system expects the Z to be appended if it is not included; however, the system assumes that the time is GMT and therefore appends the Z. ¹
eventTimeZoneOffset					1...1 1/*	String	Required. Time zone offset in effect at the time and place where the event occurred, consistent with the choice made for eventTime, per Section 7.2.8 of [EPCIS1.0.1]. ²
epcList					1...1 -	-	Required. List of the EPCs of the topmost commissioned containers (e.g. pallets, cases).
epc					0... * 0/*	String	Required. Identifier of the parent container in EPC Pure Identity URI format. ³ See the EPCPureIdentifierFormat enumeration list for valid values.
action					1...1 0/*	String	Required. The action type of the event. The action value must equal OBSERVE . ⁴

¹2019-03-31T22:08:02Z²-04:00³urn:epc:id:sgtin:088202.5503022.100000000670

urn:epc:id:sscc:088202.002000000034

<http://epcis.tracelink.com/hc/cn-edmc/obj/88102301100002005943><http://epcis.tracelink.com/hc/ntin/obj/4150.001647778.100000000000>⁴OBSERVE

Data Element					Occurs Length	Type	Description
				bizStep	0...1 0/*	AnyURI	Required. The business step taken in the event. The bizStep value must equal http://epcis.tracelink.com/bizstep/sampling . ¹
				disposition	0...1 0/*	AnyURI	Required. The status of the message. The disposition value must equal http://epcis.tracelink.com/disp/sampled . ²
				readPoint	0...1 -	-	The location where the event occurs.
				id	1...1 0/*	AnyURI	The SGLN EPC pure identifier of the location where the event occurs. ³
				bizLocation	0...1 -	-	Not used.
				id	1...1 1/*	AnyURI	Not used.
				bizTransactionList	0...1 -	-	Not used.
				tl:locationId	0...1 0/*	String	Serialized Operations Manager external partner location identifier. When an external Serialized Operations Manager partner submits a message, TraceLink uses the subscriber company integration user to perform the action and log this in the audit trail. This causes all messages executed by the external Serialized Operations Manager subscriber to be attributed to that company. ⁴
				@type	0...1 0/*	String	Attribute identifying the location type. See the BusinessAndLocationId enumeration list for valid values. ⁵
				tl:takeProductSampleEventExtensions	0...1 -	-	Take product sample event extensions group.
				tl:takeSampleReasonCode	0...1 0/*	String	Required. if tl:InspectionCountryCode = RU . Reason identifying why a serial number status was updated. ⁶ See the TakeSampleReasonCode enumeration list for valid values.

¹<http://epcis.tracelink.com/bizstep/sampling>²<http://epcis.tracelink.com/disp/sampled>³urn:epc:id:sgln:7777776.67345.0⁴8888882028677⁵GLN⁶QUALITY_CONTROL

Data Element						Occurs Length	Type	Description
					tl:reasonDescription	0...1 0/*	String	Text description of the reason for the status update. ¹
					tl:inspectionCountryCode	0...1 0/*	String	The country where the inspection is being performed using the standard two-letter abbreviation specified in ISO 3166-1alpha-2:1997 country code. ² See the ISOCountryCode enumeration list for valid values.
					tl:samplingPartyId	0...1 0/*	String	Required. if tl:InspectionCountryCode = RU . Business or location identifier for the entity performing the sampling. ³
					@type	1...1 1/*	String	Required. Business or location type for the quality control entity identifier. ⁴ See the BusinessAndLocationId enumeration list for valid values.

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<epcis:EPCISDocument xmlns:tl="http://epcis.tracelink.com/ns"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
  xmlns:cbvmda="urn:epcglobal:cbv:mda" xmlns:epcis="urn:epcglobal:epcis:xsd:1" schemaVersion="1.2"
creationDate="2017-02-20T17:45:20Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier Authority="GLN">8779891013658</sbdh:Identifier>
      </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier Authority="GLN">8811891013778</sbdh:Identifier>
      </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>201907251745200001</sbdh:InstanceIdentifier>
```

¹Released by Quality

²US

³0882028677010

⁴GLN

```

        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2019-07-25T21:57:20Z</sbdh:CreationDateAndTime>
    </sbdh:DocumentIdentification>
</sbdh:StandardBusinessDocumentHeader>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <ObjectEvent>
            <eventTime>2019-07-25T21:57:20Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:068202.0401034.11220207024596</epc>
            </epcList>
            <action>OBSERVE</action>
            <bizStep>http://epcis.tracelink.com/bizstep/sampling</bizStep>
            <disposition>http://epcis.tracelink.com/disp/sampled</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:9297187.01994.0</id>
            </readPoint>
            <bizLocation>
                <id/>
            </bizLocation>
            <tl:locationId type="GLN">8811891013778</tl:locationId>
            <tl:takeProductSampleEventExtensions>
                <tl:takeSampleReasonCode>SELECTIVE_CONTROL</tl:takeSampleReasonCode>
                <tl:reasonDescription>Released by Quality</tl:reasonDescription>
                <tl:inspectionCountryCode>US</tl:inspectionCountryCode>
                <tl:samplingPartyId type="GLN">8811891013778</tl:samplingPartyId>
            </tl:takeProductSampleEventExtensions>
        </ObjectEvent>
    </EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

Errors

Data Element	Error Message	Description
Class 1		
sbdh:Sender sbdh:Identifier @Authority	Valid Sender/Identifier Authority is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
sbdh:Receiver sbdh:Identifier @Authority	Valid Receiver/Identifier Authority is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
ObjectEvent	Object event for take product sample is required !!!	The error occurs if the source is empty or null.
epc	Invalid EPC format !!!	The error occurs if the source is invalid.
bizStep	bizStep "http://epcis.tracelink.com/bizstep/sampling" is required for ObjectEvent take product sample !!!	The error occurs if the source does not equal "http://epcis.tracelink.com/bizstep/sampling".
disposition	Disposition "http://epcis.tracelink.com/disp/sampled" is required for ObjectEvent take product sample !!!	The error occurs if the source does not equal "http://epcis.tracelink.com/disp/sampled".
readPoint id	Valid readPoint identifier type is required !!!	The error occurs if the source is invalid.
tl:takeSampleReasonCode	Valid take sample reason code required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
tl:samplingPartyId @type	Valid sampling party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
Class 2		
epc	Serial Number <SerialNumber> does not exist.	The error occurs if the source is empty or null.
	Serial number <Serial Number> is not commissioned.	The error occurs if the serial number status is not Commissioned.
	Serial number <Serial Number> is not associated with Location <Location Name>.	The error occurs if the source is not associated with the correct tl:locationId.
	Cannot update the status on serial number <Serial Number> with UOM <PackagingLevelUOM>. Serial numbers must be Eaches.	The error occurs if the source packaging level is not an each.
	Operation could not be performed because serial number <Serial Number> is not empty.	The error occurs if the source packaging level is not set, but has child serial numbers.
tl:takeSampleReasonCode	Reason Code is required for products sampled in Russia	The error occurs if tl:inspectionCountryCode = "RU" but the source is empty or null.
tl:samplingPartyId	Field is not populated and Country of Inspection = RU ("Russia")	The error occurs if tl:inspectionCountryCode = "RU" but the source is

Data Element	Error Message	Description
		empty or null.
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

Take Product Sample Event (EPCIS v1.2)

Guidelines

Message Types:

- SOM_TAKE_SAMPLE_EVENT
- SOM_TAKE_SAMPLE_EVENT_IB

Info Exchange Display Name: Take Product Sample

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

Data Element	Occurs Length	Type	Description
epcis:EPCISDocument	1...1 -	-	Required. EPCIS message root element.
@schemaVersion	1...1 0/*	Decimal	Required. The version of the EPCIS schema used to populate the EPCIS document elements. Must equal 1.2 . ¹
@creationDate	1...1 1/*	DateTime	Required. The date and time of the SBDH document's creation. GMT create date and time for the EPCIS message. The system expects the Z to be appended; however, if it is not included, the system assumes that the time is GMT and therefore appends the Z . ²

¹1.2

²2017-05-19T22:08:02Z

Data Element					Occurs Length	Type	Description
	EPCISHeader				0...1 –	–	Required. The XML file control header.
		sbdh:StandardBusinessDocumentHeader			1...1 –	–	Required. Business header information including EPCIS Header Version, Sender, and Receiver information, along with the document identification.
			sbdh:HeaderVersion		1...1 0/*	String	Required. Version of the Standard Business Document Header (SBDH). The HeaderVersion must be set to 1.0 . ¹
			sbdh:Sender		1...* –	–	Required. A unique identification key for the Sender party of the message, representing the organization that created the standard business document. The Sender element must be used only once with GS1 XML messages.
			sbdh:Identifier		1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type.² SGLN and all other party types should be sent with a GS1-conformant uri prefix. For example: urn:epc:id:sgln:088202.867701.0 http://epcis.gs1us.org/hc/dea/loc/10023141  GLN will not have a urn/http prefix. See the MDPartyTypeAttributes enumeration list for valid values.
				@Authority	1...1 1/*	String	Required. The sender identifier type. The Authority was previously expected to be set to GLN for GS1 XML messages. An update made in December 2016 changed this to accept additional values.³ See the MDPartyTypeEnums enumeration list for valid values.
			sbdh:Receiver		1...* –	–	Required. A unique identification key for the Receiver party of the message, representing the organization that created the standard business document. The Receiver element must be used only once with GS1 XML messages.
			sbdh:Identifier		1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type.⁴ SGLN and all other party types should be sent with a GS1-conformant uri prefix. For example:

¹1.0²1100001014507³GLN⁴0614141123452

Data Element					Occurs Length	Type	Description
							• urn:epc:id:sgln:088202.867701.0 • http://epcis.gs1us.org/hc/dea/loc/10023141  GLN will not have a urn/http prefix. See the MDPartyTypeAttributes enumeration list for valid values.
				@Authority	1..1 1/*	String	Required. The sender identifier type. The Authority was previously expected to be set to GLN for GS1 XML messages. An update made in December 2016 changed this to accept additional values.¹ See the MDPartyTypeEnums enumeration list for valid values.
			sbdh:DocumentIdentification		1..1 -	-	Required. Contains the identification group for the message.
				sbdh:Standard	1..1 0/*	String	Required. Name of the document standard contained in the file or message. The standard value for this field is EPCglobal . ²
				sbdh:TypeVersion	1..1 0/*	String	Required. Reflects the version of the document included. This is the complete version of the document itself and is different from the HeaderVersion as these are hard-coded values. The TypeVersion is set to 1.0 . ³
				sbdh:InstanceIdentifier	1..1 1/*	String	Required. Reference information that uniquely identifies this instance of the Standard Business Document between the Sender and the Receiver. This identifier confirms this document as being distinct from others. ⁴
				sbdh:Type	1..1 0/*	String	Required. This element identifies the type of the document. The Type value must be set to "Events". ⁵
				sbdh:CreationDateAndTime	1..1 0/*	DateTime	Required. The date and time of the SBDH document's creation. GMT create date and time for the EPCIS message. The system expects the Z to be appended; however, if it is not included, the system assumes that the time is GMT and therefore appends the Z . ⁶

¹GLN²EPCglobal³1.0⁴201705191745200001⁵Events⁶2017-05-12T22:08:02Z

Data Element				Occurs Length	Type	Description
EPCISBody				1...1 -	-	Required. Contains all of the EPCIS events for this message.
EventList				1...1 -	-	Required. Includes the ObjectEvent with tl:takeProductSampleEventExtensions .
choice%1				1...* -	-	Required. Choice element. Only the ObjectEvent is present.
ObjectEvent				1...* -	-	Required. ObjectEvent is the only choice within choice%1 . Indicates a take product sample event when all of the following is true: action = OBSERVE bizStep = https://epcis.tracelink.com/bizStep/sampling disposition = https://epcis.tracelink.com/disp/sampled
eventTime				1...1 1/*	DateTime	Required. The time stamp of the date/time when the event occurred in YYYY-MM-DDTHH:MM:SS.mm or YYYY-MM-DDTHH:MM:SS.mmm format. Must include a time zone indicator as specified in Section 9.5 of [EPCIS1.0.1]. The system expects the Z to be appended if it is not included; however, the system assumes that the time is GMT and therefore appends the Z. ¹
eventTimeZoneOffset				1...1 1/*	String	Required. Time zone offset in effect at the time and place where the event occurred, consistent with what choice was made for eventTime . Per Section 7.2.8 of [EPCIS1.0.1]. ²
epcList				1...1 -	-	Required. List of the EPCs of the topmost commissioned containers (e.g. pallets, cases).
epc				0...* 0/*	String	Required. Identifier of the parent container in EPC Pure Identity URI format. ³ See the EPCPureIdentifierFormat numeration list for valid values.
action				1...1 0/*	String	Required. The action type of the event. The action value must equal OBSERVE . ⁴

¹2019-03-31T22:08:02Z²-04:00³urn:epc:id:sgtin:088202.5503022.100000000670, urn:epc:id:sscc:088202.00200000034, <http://epcis.tracelink.com/hc/cn-edmc/obj/88102301100002005943>, <http://epcis.tracelink.com/hc/ntin/obj/4150.001647778.10000000000>⁴OBSERVE

Data Element					Occurs Length	Type	Description
				bizStep	0...1 0/*	AnyURI	Required. The business step taken in the event. The bizStep value must equal http://epcis.tracelink.com/bizstep/sampling . ¹
				disposition	0...1 0/*	AnyURI	Required. The status of the message. The disposition value must equal http://epcis.tracelink.com/disp/sampled . ²
				readPoint	0...1 –	–	The location where the event occurs.
				id	1...1 0/*	AnyURI	Required. The SGLN EPC pure identifier of the location where the event occurs. ³ See the MDBusinessPartyTypeAttributes enumeration list for valid values.
				bizLocation	1...1 –	–	Not used.
				id	1...1 1/*	AnyURI	Not used.
				bizTransactionList	0...1 –	–	Not used.
				tl:locationId	0...1 0/*	String	Serialized Operations Manager External partner location identifier. When an external Serialized Operations Manager partner submits a message, TraceLink uses the subscriber company integration user to perform the action and log this in the audit trail. This causes all messages executed by the external Serialized Operations Manager subscriber to be attributed to that company. ⁴
				@type	0...1 0/*	String	Attribute identifying the location type. ⁵ See the LocationIdType enumeration list for valid values.
				tl:takeProductSampleEventExtensions	0...1 –	–	Take product sample event extensions group.
				tl:takeSampleReasonCode	0...1 0/*	String	Required. Reason identifying why a serial number status was updated. ⁶ See the TakeSampleReasonCode enumeration list for valid values.

¹<http://epcis.tracelink.com/bizstep/sampling>²<http://epcis.tracelink.com/disp/sampled>³urn:epc:id:sgln:7777776.67345.0⁴8888882028677⁵GLN⁶QUALITY_CONTROL

Data Element						Occurs Length	Type	Description
					tl:reasonDescription	0...1 0/*	String	Text description of the reason for the status update. ¹
					tl:inspectionCountryCode	0...1 0/*	String	The country where the inspection is being performed using the standard two-letter abbreviation specified in ISO 3166-1 alpha-2:1997 country code. ² See the ISOCountryCode enumeration list for valid values.
					tl:samplingPartyId	0...1 0/*	String	Required. Business or location identifier for the entity performing the sampling. ³
					@type	1...1 1/*	String	Required. Business or location type for the quality control entity identifier. ⁴ See the BusinessAndLocationId enumeration list for valid values.

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<epcis:EPCISDocument xmlns:tl="http://epcis.tracelink.com/ns"
  xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
  xmlns:cbvmda="urn:epcglobal:cbv:mda" xmlns:epcis="urn:epcglobal:epcis:xsd:1" schemaVersion="1.2"
  creationDate="2017-02-20T17:45:20Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier Authority="GLN">8779891024769</sbdh:Identifier>
      </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier Authority="GLN">8779891013658</sbdh:Identifier>
      </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
  </EPCISHeader>
</epcis:EPCISDocument>
```

¹Released by Quality

²US

³0882028677010

⁴GLN

```

        <sbdh:InstanceIdentifier>2019120210090032</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2019-12-02T10:09:32Z</sbdh:CreationDateAndTime>
    </sbdh:DocumentIdentification>
</sbdh:StandardBusinessDocumentHeader>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <ObjectEvent>
            <eventTime>2019-12-02T10:09:32Z</eventTime>
            <eventTimeZoneOffset>-04:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:088202.5503022.100000000670</epc>
            </epcList>
            <action>OBSERVE</action>
            <bizStep>https://epcis.tracelink.com/bizStep/sampling</bizStep>
            <disposition>https://epcis.tracelink.com/disp/sampled</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:9997777.02449.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:9997777.02449.0</id>
            </bizLocation>
            <tl:locationId type="GLN">8888882028677</tl:locationId>
            <tl:takeProductSampleEventExtensions>
                <tl:takeSampleReasonCode>QUALITY_CONTROL</tl:takeSampleReasonCode>
                <tl:reasonDescription>Released by Quality</tl:reasonDescription>
                <tl:inspectionCountryCode>US</tl:inspectionCountryCode>
                <tl:samplingPartyId type="GLN">8888882028677</tl:samplingPartyId>
            </tl:takeProductSampleEventExtensions>
        </ObjectEvent>
    </EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

Errors

Data Element	Error Message	Description	Inbound / Outbound
Class 1			
sbdh:Sender sbdh:Identifier	Source message sender is required !!!	The error occurs if the source is empty or null.	OB
sbdh:Sender sbdh:Identifier @Authority	Valid Sender/Identifier Authority is required !!!	The error occurs if the source is invalid.	IB
	Partner type in source type attribute is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.	OB
sbdh:Receiver sbdh:Identifier	Source message receiver is required !!!	The error occurs if the source is empty or null.	OB
sbdh:Receiver sbdh:Identifier @Authority	Valid Receiver/Identifier Authority is required !!!	The error occurs if the source is invalid.	IB
	Partner type in source type attribute is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.	OB
ObjectEvent	Object event for take product sample is required !!!	The error occurs if the source is empty or null.	
	At least one take product sample event is required !!!	The error occurs if the source is empty or null.	OB
epc	Invalid EPC format !!!	The error occurs if the source is invalid.	IB
	Serial number is required !!!	The error occurs if the source is empty or null.	OB
	Valid serial number format is required !!!	The error occurs if the source is invalid.	OB
bizStep	bizStep http://epcis.tracelink.com/bizstep/sampling is required for ObjectEvent take product sample !!!	The error occurs if the source does not equal "http://epcis.tracelink.com/bizstep/sampling".	IB
disposition	Disposition http://epcis.tracelink.com/disp/sampled is required for ObjectEvent take product sample !!!	The error occurs if the source does not equal "http://epcis.tracelink.com/disp/sampled".	IB
readPoint id	Valid readPoint identifier type is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.	IB
	Valid event location identifier type is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.	OB
cmn:EventLocation	Valid readPoint identifier type is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.	IB
tl:takeSampleReasonCode	Valid take sample reason code required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.	IB/OB

Data Element	Error Message	Description	Inbound / Outbound
tl:samplingPartyId @type	Valid sampling party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.	IB/OB
Class 2			
-	-	-	-
Class 3			
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.			

ESM Take Product Sample (EPCIS v1.2)

Guidelines

Message Type: SOM_ESM_TAKE_SAMPLE

Info Exchange Display Name: ESM Take Product Sample

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

Data Element	Occurs Length	Format	Description
epcis:EPCISDocument	1...1 -	-	Required. EPCIS message root element.
@schemaVersion	1...1 0/*	Decimal	Required. The version of the EPCIS schema used to populate the EPCIS document elements. Must equal 1.2 . ¹

¹1.2

Data Element				Occurs Length	Format	Description
			@creationDate	1...1 1/*	DateTime	Required. Date the message was created in YYYY-MM-DDTHH:MM:SS:mmZ format. ¹
			EPCISHeader	0...1 -	-	Required. The XML file control header.
			sbdh:StandardBusinessDocumentHeader	1...1 -	-	Required. Business header information including EPCIS Header Version, Sender, and Receiver information, along with the document identification.
			sbdh:HeaderVersion	1...1 0/*	String	Required. Version of the Standard Business Document Header (SBDH). The HeaderVersion must be set to 1.0 . ²
			sbdh:Sender	1...* -	-	Required. A unique identification key for the Sender party of the message, representing the organization that created the standard business document. The Sender element must be used only once with GS1 XML messages.
			sbdh:Identifier	1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type.³ Send SGLN and all other party types with the GS1-conformant uri prefix, for example: - urn:epc:id:sgln:088202.867701.0 - http://epcis.gs1us.org/hc/dea/loc/10023141  GLNs do not have an urn/http prefix. See the MDPartyTypeAttributes enumeration list for valid values.
			@Authority	1...1 1/*	String	Required. The sender identifier type. The Authority was previously expected to be set to GLN for GS1 XML messages. An update made in December 2016 changed this to accept additional values.⁴ See the MDPartyTypeEnums enumeration list for valid values.
			sbdh:Receiver	1...* -	-	Required. Indicates a unique identification key for the direct Receiver party of the message, representing the organization that receives the standard business document. The Receiver element is used only once with GS1 XML messages.
			sbdh:Identifier	1...1	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type. ⁵

¹2016-12-18T22:08:02Z²1.0³1100001014507⁴GLN⁵0614141123452

Data Element					Occurs Length	Format	Description
							Send SGLN and all other party types with the GS1-conformant uri prefix, for example: <code>urn:epc:id:sgln:088202.867701.0</code> <code>http://epcis.gs1us.org/hc/dea/loc/10023141</code>  GLNs do not have an urn/http prefix. See the MDPartyTypeAttributes enumeration list for valid values.
				@Authority	1...1 1/*	String	Required. The receiver identifier type. The Authority was previously expected to be set to GLN for GS1 XML messages. An update made in December 2016 changed this to accept additional values.¹ See the MDPartyTypeEnums enumeration list for valid values.
			sbdh:DocumentIdentification		1...1 —	-	Required. Contains the identification group for the message.
				sbdh:Standard	1...1 0/*	String	Required. Name of the document standard contained in the file or message. The standard value for this field is EPCglobal . ²
				sbdh:TypeVersion	1...1 0/*	String	Required. Reflects the version of the document included. This is the complete version of the document itself and is different from the HeaderVersion as these are hard-coded values. The TypeVersion is set to 1.0 . ³
				sbdh:InstanceIdentifier	1...1 1/*	String	Required. Reference information that uniquely identifies this instance of the Standard Business Document between the Sender and the Receiver. This identifier confirms this document as being distinct from others. ⁴
				sbdh:Type	1...1 0/*	String	Required. Identifies the document type. The Type value is set to Events for a shipment event. ⁵
				sbdh:CreationDateAndTime	1...1 0/*	DateTime	Required. The date and time of the SBDH document's creation. GMT create date and time for the EPCIS message. The system expects the Z to be appended; however, if it is not included, the system assumes that the time is GMT and therefore appends the Z .
		EPCISBody			1...1 —	-	Required. Contains all of the EPCIS events for this message.

¹GLN²EPCglobal³1.0⁴201609201745200001⁵Events

Data Element				Occurs Length	Format	Description
		EventList		1...1 -	-	Required. Includes the ObjectEvent with tl:takeProductSampleEventExtensions .
			choice%1	1...* -	-	Required. Choice element. Only the ObjectEvent is present.
			ObjectEvent	1...* -	-	Required. ObjectEvent is the only choice within choice%1 . Indicates a take product sample event when all of the following is true: action = OBSERVE bizStep = https://epcis.tracelink.com/bizStep/sampling disposition = https://epcis.tracelink.com/disp/sampled
			eventTime	1...1 1/*	DateTime	Required. The time stamp of the date/time when the event occurred in YYYY-MM-DDTHH:MM:SS.mm or YYYY-MM-DDTHH:MM:SS.mmm format. Must include a time zone indicator as specified in Section 9.5 of [EPCIS1.0.1]. The system expects the Z to be appended if it is not included; however, the system assumes that the time is GMT and therefore appends the Z. ¹
			eventTimeZoneOffset	1...1 1/*	String	Required. The time zone offset in the place where the event occurred, consistent with what choice was made for eventTime. A time offset is an amount of time subtracted from or added to UTC (Coordinated Universal Time) to get the current civil time, whether it is standard time or Daylight saving time. Per Section 7.2.8 of [EPCIS1.0.1]. ²
			epcList	1...1 -	-	Required. List of the EPCs of the topmost commissioned containers (e.g. pallets, cases).
			epc	0...* 0/*	String	Required. Identifier of the parent container in EPC Pure Identity URI format. ³ See the EPCPureIdentifierFormat enumeration list for valid values.
			action	1...1 0/*	String	Required. The action type of the event. The S value must equal OBSERVE . ⁴

¹2019-03-31T22:08:02Z²-04:00³urn:epc:id:sgtin:088202.5503022.100000000670

urn:epc:id:sscc:088202.002000000034

<http://epcis.tracelink.com/hc/cn-edmc/obj/88102301100002005943><http://epcis.tracelink.com/hc/ntin/obj/4150.001647778.100000000000>⁴OBSERVE

Data Element					Occurs Length	Format	Description
				bizStep	0...1 0/*	AnyURI	Required. The business step taken in the event. The bizStep value must equal http://epcis.tracelink.com/bizstep/sampling . ¹
				disposition	0...1 0/*	AnyURI	Required. The status of the message. The disposition value must equal http://epcis.tracelink.com/disp/sampled . ²
				readPoint	0...1 –	–	The location where the event occurs.
				id	1...1 0/*	AnyURI	The SGLN EPC pure identifier of the location where the event occurs. ³ See the MDBusinessPartyTypeAttributes enumeration list for valid values.
				bizLocation	1...1 –	–	Not used.
				id	1...1 1/*	AnyURI	Not used.
				bizTransactionList	0...1 –	–	Not used.
				tl:locationId	0...1 0/*	String	Serialized Operations Manager External partner location identifier. When an external Serialized Operations Manager partner submits a message, TraceLink uses the subscriber company integration user to perform the action and log this in the audit trail. This causes all messages executed by the external Serialized Operations Manager subscriber to be attributed to that company. ⁴
				@type	0...1 0/*	String	Attribute identifying the location type. ⁵ See the LocationIdType enumeration list for valid values.
				tl:takeProductSampleEventExtensions	0...1 –	–	Take product sample event extensions group.
				tl:takeSampleReasonCode	0...1 0/*	String	Required. Reason identifying why a serial number status was updated. ⁶ See the TakeSampleReasonCode enumeration list for valid values.

¹<http://epcis.tracelink.com/bizstep/sampling>²<http://epcis.tracelink.com/disp/sampled>³urn:epc:id:sgln:7777776.67345.0⁴8888882028677⁵GLN⁶QUALITY_CONTROL

Data Element						Occurs Length	Format	Description
					tl:reasonDescription	0...1 0/*	String	Text description of the reason for the status update. ¹
					tl:inspectionCountryCode	0...1 0/*	String	The country where the inspection is being performed using the standard two-letter abbreviation specified in ISO 3166-1 alpha-2:1997 country code. ² See the ISOCountryCode enumeration list for valid values.
					tl:samplingPartyId	0...1 0/*	String	Required. Business or location identifier for the entity performing the sampling. ³
					@type	1...1 1/*	String	Required. Business or location type for the quality control entity identifier. ⁴ See the BusinessAndLocationId enumeration list for valid values.

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<epcis:EPCISDocument xmlns:tl="http://epcis.tracelink.com/ns"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
  xmlns:cbvmda="urn:epcglobal:cbv:mda" xmlns:epcis="urn:epcglobal:epcis:xsd:1" schemaVersion="1.2"
creationDate="2017-02-20T17:45:20Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier Authority="GLN">8779891013658</sbdh:Identifier>
      </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier Authority="GLN">8811891013778</sbdh:Identifier>
      </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
  </EPCISHeader>
</epcis:EPCISDocument>
```

¹Released by Quality

²US

³0882028677010

⁴GLN

```

        <sbdh:InstanceIdentifier>201907251745200001</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2019-07-25T21:57:20Z</sbdh:CreationDateAndTime>
    </sbdh:DocumentIdentification>
</sbdh:StandardBusinessDocumentHeader>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <ObjectEvent>
            <eventTime>2019-07-25T21:57:20Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:068202.0401034.11220207024596</epc>
            </epcList>
            <action>OBSERVE</action>
            <bizStep>http://epcis.tracelink.com/bizstep/sampling</bizStep>
            <disposition>http://epcis.tracelink.com/disp/sampled</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:9297187.01994.0</id>
            </readPoint>
            <bizLocation>
                <id/>
            </bizLocation>
            <tl:locationId type="GLN">8811891013778</tl:locationId>
            <tl:takeProductSampleEventExtensions>
                <tl:takeSampleReasonCode>SELECTIVE_CONTROL</tl:takeSampleReasonCode>
                <tl:reasonDescription>Released by Quality</tl:reasonDescription>
                <tl:inspectionCountryCode>US</tl:inspectionCountryCode>
                <tl:samplingPartyId type="GLN">8811891013778</tl:samplingPartyId>
            </tl:takeProductSampleEventExtensions>
        </ObjectEvent>
    </EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

Errors

Data Element	Error Message	Description
Class 1		
sbdh:Sender sbdh:Identifier @Authority	Valid Sender/Identifier Authority is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
sbdh:Receiver sbdh:Identifier @Authority	Valid Receiver/Identifier Authority is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
ObjectEvent	Object event for take product sample is required !!!	The error occurs if the source is empty or null.
epc	Invalid EPC format !!!	The error occurs if the source is invalid.
bizStep	bizStep "http://epcis.tracelink.com/bizstep/sampling" is required for ObjectEvent take product sample !!!	The error occurs if the source does not equal "http://epcis.tracelink.com/bizstep/sampling".
disposition	Disposition "http://epcis.tracelink.com/disp/sampled" is required for ObjectEvent take product sample !!!	The error occurs if the source does not equal "http://epcis.tracelink.com/disp/sampled".
readPoint id	Valid readPoint identifier type is required !!!	The error occurs if the source is invalid.
tl:takeSampleReasonCode	Valid take sample reason code required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
tl:samplingPartyId @type	Valid sampling party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
Class 2		
epc	Serial Number <SerialNumber> does not exist.	The error occurs if the source is empty or null.
	Serial number <Serial Number> is not commissioned.	The error occurs if the serial number status is not Commissioned.
	Serial number <Serial Number> is not associated with Location <Location Name>.	The error occurs if the source is not associated with the correct tl:locationId.
	Cannot update the status on serial number <Serial Number> with UOM <PackagingLevelUOM>. Serial numbers must be Eaches.	The error occurs if the EPC packaging level being sampled is not an each.
	Operation could not be performed because serial number <Serial Number> is not empty.	The error occurs if the EPC has child EPCs.
tl:takeSampleReasonCode	Reason Code is required for products sampled in Russia	The error occurs if tl:inspectionCountryCode = "RU" but the source is empty or null.
tl:SamplingPartyId	Field is not populated and Country of Inspection = RU ("Russia")	The error occurs if tl:inspectionCountryCode = "RU" but the source is

Data Element	Error Message	Description
		empty or null.
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

Take Product Sample (SOAP)

Take Product Sample Request

Guidelines

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

The following data is sent in the request to TraceLink:

Data Element	Occurs Length	Type	Description
soapenv:Envelope	1...1 -	-	Required. SOAP Envelope root element.
soapenv:Header	1...1 -	-	Required. Not used.
soapenv:Body	1...1 -	-	Required. SOAP Message Body.
urn:TakeSample	1...1 -	-	Required. Request message that sets a Sampled attribute for all provided serial numbers.
SampleRequest	0...1 -	-	Required. SampleRequest request message.

Data Element				Occurs Length	Type	Description
			Items	1...1 -	-	Required. List of serial numbers (repeating element).
			@sn	1...* 1/*	String	Required. Serial number that is being sampled. See Serial Number Data Examples . ¹
			@namespace	0...1 1/*	String	Not supported by TraceLink.
			EventDateTime	0...1 -	Date	The time of the Take Sample event in XSD GMT date format. If omitted, the system records the current date and time. ²
			Location	0...1 1/*	String	Site level SGLN of the location where the event occurred. SGLN format will be numeric component only, with urn prefix stripped (e.g. 8888882.02867.0 instead of urn:epc:id:sgln:8888882.02867.0 typically found in EPCIS events). If it is not specified and the API credentials used in the call are specific to a company location, TraceLink will attempt to default the Location based upon the corresponding Company Location master data entry. ³
			LocationType	0...1 1/*	String	The type of the Location identifier. ⁴ See the BusinessAndLocationId enumeration list for valid values.
			ReasonDescription	0...1 1/100	String	An explanation for why the serial number is being sampled. If ReasonDescription is longer than 100 characters, only the first 100 characters will be stored. ⁵
			TakeSampleReasonCode	0...1 1/*	String	Required. Reason code identifying why serial number is being sampled. See the TakeSampleReasonCode enumeration list for valid values.
			InspectionCountryCode	0...1 1/*	String	Required. The country where the inspection is being performed using the standard two-letter abbreviation specified in ISO 3166-1 alpha-2:1997 country code. See the ISOCountryCode enumeration list for valid values.
			SamplingPartyID	0...1 -		Required. Business or location identifier for the entity performing the sampling.
			@identiervalue	1...1 1/*	String	Required. Value of the identifier.
			@identifiertype	1...1 1/*	String	Required. Type of the identifier value. See the BusinessAndLocationId enumeration list for valid values.

¹0100882025030220216370871²2015-06-01T17:10:16³8888882.02867.0⁴GLN⁵Sample of product given to on-site client

Example

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:urn="urn:tracelink:soap">
  <soapenv:Header/>
  <soapenv:Body>
    <urn:TakeSample>
      <SampleRequest>
        <Items>
          <Item sn="0100882025030220216370871" namespace="?"/>
        </Items>
        <EventDateTime>2015-06-01T17:10:16</EventDateTime>
        <Location>8888882.02867.0</Location>
        <ReasonDescription>Sample of product given to on-site client</ReasonDescription>
      </SampleRequest>
    </urn:TakeSample>
  </soapenv:Body>
</soapenv:Envelope>
```

Errors

Exception Code	Exception Message
BADITEMSTATE	Cannot perform operation on serial number <serial number> with item state <item state>. This operation can only be performed when the serial number is <item state>.
BADSTATETRANSITION	Cannot perform operation on serial number <serial number> to change item state/serial number state from <serial number state> to <serial number state>. The allowed new states are <serial number states>.
EVENTTIMEAFTERNOW	Event time stamp must not be in the future.
EVENTTIMEBEFORELASTEVENT	Event time stamp is earlier than the last event for serial number <serial number>.
INTERNALERROR	SerialNumberState for <serial number> is null.
INTERNALERROR	Internal error from server: <server information>.
INTERNALERROR	ItemStateTransitions.properties did not load correctly.
INTERNALERROR	SerialNumberStateTransitions.properties did not load correctly.
NOTCOMMISSIONED	Serial number <serial number> is not commissioned.

Exception Code	Exception Message
NOTEACH	Cannot perform operation on serial number <serial number> with UOM <unit of measurement>. The operation can only be performed on unit level serial numbers.
NOTEMPTY	Operation could not be performed because serial number <serial number> is not empty.
NOTVALIDLOCATION	Location <location identifier> was not valid for serial number <serial number>.
SNNOTFOUND	Serial number <serial number> does not exist.
VALIDATION	Reason Code is required for products sampled in Russia.
VALIDATION	Sample Party is required for products sampled in Russia.

Take Product Sample Response

Guidelines

The following data is included in the message response:

Data Element	Occurs Length	Type	Description
S:Envelope	1...1 -	-	Required. SOAP Envelope root element.
S:Body	1...1 -	-	Required. SOAP Message Body.
ns2:TakeSampleResponse	1...1 -	-	Required. TakeSample response message.
TLResponse	0...1 -	-	Required. TraceLink response.
Success	0...1 -	-	Required. Indicates if the request successfully processed. ¹
ExceptionReturn	0...1 -	-	Conditionally required if Success = false . Populated with error information only if Success = false, otherwise omitted.

¹true

Data Element						Occurs Length	Type	Description
					CallException	1...* -	-	Required. Contains error details.
					ExceptionCode	0...1 0/*	String	Required. Error code for exception.
					ExceptionMessage	0...1 0/*	String	Conditionally required if further description of the error condition is available. Message that further describes the error condition, if available.

Example

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:TakeSampleResponse xmlns:ns2="urn:tracelink:soap" xmlns:ns3="http://tracelink.com/som">
      <TLResponse>
        <Success>true</Success>
      </TLResponse>
    </ns2:TakeSampleResponse>
  </S:Body>
</S:Envelope>
```


Shipment

Send shipment APIs

Why do I use these messages?

Use the following messages to create outbound deliveries for items being shipped. A shipment message captures details of the business transaction, including which products are being shipped, where they are being shipped to, and why they are being shipped.

Which reports do these messages generate?

These messages generate one of the following reports in the Russia Compliance application if their contents meet the report conditions:

- [381 - Move Owner](#) – Captures the transfer of items manufactured by a CMO to the MAH after the items have been part of a product release.
- [331 - Foreign Shipment](#) – Captures information about serialized items that are shipped to Russia for import as a non-consignment direct order.
- [334 - Custom Move](#) – Captures the transfer of serialized items between customs zones as the items are being imported to Russia.
- [431 - Move Place](#) – Captures the transfer of serialized items between warehouses in Russia.
- [415 - Move Order](#) – Captures information about serialized items that are shipped in Russia as a sale to a *registered* buyer (i.e. the **Ship To Location** has a 14-digit Russia Account Number in Partner Master Data) or as a return to a seller.
- [441 - Move Unregistered Order](#) – Captures information about serialized items that are shipped as a sale to an *unregistered* buyer in Russia (i.e. the **Ship to Location** does *not* have a 14-digit Russia Account Number and the **To Business** has a 36-digit Russia Account Number or is identified by a Russia INN or KPP in Partner Master Data).
- [541 - Move Destruction](#) – Captures the transfer of serialized items to a destruction facility in Russia.

Sales Shipment (XML)

Guidelines

Use this message when shipping product as a sale (i.e. the shipment is not a transfer or return).

This message allows shipment data to be sent in two parts (i.e. shipment information and serial numbers). For example, shipment information can originate from an ERP system and serial numbers from WMS system or 3PL partner.



- When product changes ownership from an MAH, or a CMO or 3PL acting on behalf of an MAH, to another entity, an outbound shipment is generated and the serial numbers are put into a **shipped** state.
- When product is moving between locations (i.e. not a change of ownership) working on behalf of an MAH, an inbound shipment is generated and the serial numbers are put into a **pending receipt** state.

This message uses the Park and Retry functionality. If a prerequisite condition for this message has not been met, TraceLink stops processing the task, returns the task to the queue, and then tries to process the task again every 15 minutes for up to 4 hours.

Message Type: SOM_SALES_SHIPMENT

Info Exchange Display Name: Sales Shipment

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

⚠ Elements in the table below that offer lookup functionality through certain identifiers are applicable to *TraceLink Customers only*.

Data Element			Occurs Length	Type	Description
SOMSalesShipmentMessage			1..1 -	-	Required. Root element of message.
	som:ControlFileHeader		1..1 -	-	Required. The message document's header information.
		cmn:FileSenderNumber	1..1 1/20	String	Required. The company identifier of the file's sender. ¹
		cmn:FileReceiverNumber	1..1 1/20	String	Required. The company identifier of the file's recipient. ²

¹8888882028655

²8888882028677

Data Element			Occurs Length	Type	Description
	cmn:FileControlNumber		1...1 1/20	String	Required. The message's unique file control ID number. A file control ID number is mandatory for all messages. ¹
	cmn:FileDate		1...1 10/10	Date	Required. The date that the message is sent in YYYY-MM-DD format. Date and times must be in GMT. ²
	cmn:FileTime		1...1 9/9	Time	Required. Time file generated in XML in HH:MM:SSZ format. The system expects the Z to be appended; however, if it is not included, the system assumes that the time is GMT and therefore appends the Z . ³
	som:MessageBody		1...1 -	-	Required. The Message Body includes all of the Serialized Operations Manager Sales Shipment message details including, but not restricted to, location, delivery, and order information.
	cmn:LocationId		0...1 0/34	String	The LocationId field specifies the identifier of the facility/warehouse so as to scope the Shipment status update for the serial numbers only at the specified location. ⁴ If the location is omitted, the Shipment status update will be applied globally to all matching serial numbers in the system.
	cmn:EventDateTime		0...1 0/*	DateTime	Timestamp of the date/time of the shipment event with the UTC time zone indicator in format: YYYY-MM-DDTHH:MM:SS.ssZ.  If not present, the system defaults to the current GMT date/time.
	cmn:DeliveryNumber		1...1 1/*	String	Required. Indicates the DeliveryNumber that links the order information to the serialized pick information for this customer delivery. ⁵ cmn:DeliveryNumber must be unique for across all shipments.
	cmn:DeliveryCompleteFlag		1...1 1/*	Boolean	Required. TraceLink allows communication of the data all in one message, or deliver the information incrementally over a period of time. If sending the data all at once, set flag to true. If sending data incrementally, set flag to false. ⁶ Values must be lowercase or an error results. When set to true, cmn:DeliveryCompleteFlag instructs TraceLink to:

¹20130821063132²2013-08-21³06:31:32Z⁴8888882028655⁵4520010⁶true

Data Element			Occurs Length	Type	Description
					1. Process an outbound delivery. 2. Update the status of all serial numbers and sub-child aggregations to be shipped. 3. Trigger generation of regulatory reporting messages based on customer configuration. If only partial information is provided in the message (e.g. order detail only, serial numbers only) and the DeliveryCompleteFlag is set to true, the park/retry function returns the message to the queue for period reprocessing for up to two hours and updates the message with any previously omitted details when they become available. This enables an ERP system to send Order Details while the warehouse system sends the serial numbers separately, allowing the order in which this information is received to be arbitrary.
		som:OrderDetails	0...1 -	-	Can be communicated at any time (e.g. before or after the picked serial numbers have been communicated).
		cmn:DisaggregateFromParent	0...1 0/*	Boolean	When set to true instructs the system to disaggregate the picked serial number from the parent container, if it is aggregated. If not set, or set to false , the system will operate in default mode which is to generate an error if attempting to pick serial number for an item or container that is aggregated to a parent container. ¹
		cmn:CorrectiveShipment	0...1 0/*	Boolean	Default value is false, which indicates that it is not a corrective shipment.  If true, indicates that a new Serialized Operations Manager shipment is correcting a previously voided Serialized Operations Manager shipment message. The corrected message must be voided before the new shipment.
		cmn:OriginalDeliveryNumber	0...1 0/*	String	If the corrective delivery is using a new delivery number, provide original delivery number for cross-reference purposes.
		cmn:EntryPort	0...1 0/*	String	Name of the shipment's port of entry into a country (e.g. an airport, maritime port, border checkpoint).
		cmn:ExitPort	0...1 0/*	String	Name of the shipment's port of exit from a country (e.g. an airport, maritime port, border checkpoint).
		cmn:TransactionIdentifier	0...* 0/*	String	The transaction identifier is associated with the picked serial numbers for regulatory reporting purposes. At least one transaction id is required. The transaction identifier type uses specific enumeration values. ²

¹false²PO303005 or D70301

Data Element				Occurs Length	Type	Description
						 Country Requirements: • Argentina: provide Packing Slip Number. • China: provide Sales Order Number. • US: provide PO Number, ASN Number, and Invoice Number if available.
			@type	1...1 1/*	String	Required. The transaction identifier type. Valid values: • ASN • BOL • DESTRUCTION • EWAY • INVOICE • NOTAFISCALELETRONICA • OTHER • PACKSLIP • PO • PRONUMBER • RETURN • SALESORDER • TRANSFER
			@date	0...1 0/*	Date	Required. The transaction identifier date. ¹
			cmn:TransactionDate	1...1 1/*	Date	Required. Indicates the date when the transfer of ownership occurred between the FromBusinessParty and ToBusinessParty. The date of the message in XML YYYY-MM-DD format.²  Date/times in Serialized Operations Manager must be in GMT.

¹2019-03-30²2013-08-21

Data Element				Occurs Length	Type	Description
			cmn:TransactionTime	0...1 0/*	Time	The time of the transaction in XML HH:MM:SSZ format. ¹
			cmn:ShipToCountryCode	1...1 2/2	String	Required. Two-letter ISO country code for ship-to country. This value will be referenced to advise regulatory reporting if it is required for the specified country market. Setting this value alone does not trigger regulatory reporting. The actual trigger for regulatory reporting is governed by customer administrative configuration in TraceLink. ² See the ISOCountryCode enumeration list for valid values.
			cmn:ShipFromCountryCode	0...1 2/2	String	Conditionally required if cmn:SalesDistributionType = EXPORTSALE , EXPORTTRANSFER , or EXPORTRETURN . ISO country code for the ship-from country. Provides TraceLink with the information needed to trigger regulatory reporting in response to relevant events. See the ISOCountryCode enumeration list for valid values.
			cmn:SalesDistributionType	1...1 1/*	String	Required. This value is referenced to advise the application of sale (change of ownership of the product) and transfer (no change of ownership of product, but physical movement of product) for application and regulatory reporting purposes. Setting this value alone does not trigger regulatory reporting. The actual triggering of regulatory reporting is governed by customer administrative configuration in TraceLink. ³ See the SalesDistType enumeration list for valid values.
			cmn:SupplyType	0...1 0/*	String	Identifies the type of supply that is being performed. See the SupplyType enumeration list for valid values.
			cmn:ContractType	0...1 0/*	String	Conditionally required if cmn:ShipFromCountryCode = KR and cmn:SalesDistributionType = EXPORTSALE or INCOUNTRYSALE . Identifies if a private or competitive bid contract is used for the sale of goods. See the ContractType enumeration list for valid values.
			cmn:Comments	0...1 0/*	String	Optional field that includes comments (up to 200 characters) associated with the delivery.
			cmn:DropShipment	0...1 0/*	Boolean	If set to true , this value indicates that a shipment is a drop shipment. A drop shipment occurs when there is a delivery of product from a manufacturer or original supplier direct to the end customer, without passing through the wholesale distributor who processed the sale. ⁴

¹02:30:55Z²US³INCOUNTRYSALE⁴false

Data Element				Occurs Length	Type	Description
			cmn:ContractNumber	0...1 0/*	String	Identification number of the contract. ¹
			cmn:FundingSource	0...1 0/*	String	Required. Source of the funding. ²
			cmn:DeliveryInspection	0...1 0/*	String	The inspection status of the physical delivery against the delivery documentation. See the DeliveryInspection enumeration list for valid values.
			cmn:DeliveryInspectionDate	0...1 10/10	Date	The date of the physical delivery inspection against the delivery documentation in YYYY-MM-DD format. ³
			cmn:DeliveryInspectionNote	0...1 0/*	String	Comments about the physical delivery inspection against the delivery documentation.
			cmn:RemovalFromCirculation	0...1 0/*	String	Reason the product in the delivery is taken out of the supply chain. See the RemovalFromCirculation enumeration list for valid values.
			cmn:AggregationInspection	0...1 0/*	String	The inspection status of the aggregation hierarchy of the container. See the AggregationInspection enumeration list for valid values.
			cmn:OrderItemList	0...1 -	-	Populate the cmn:OrderItemList group to communicate the expected pick quantities for products at the EACH (unit) level. This information is used in verification of the actual serial number picked to verify the correct product, correct lot number (if provided), and correct quantity. cmn:OrderItemList can include serialized and not serialized products that are subject to compliance reporting.
			cmn:AllowShortVerificationCount	0...1 0/*	Boolean	Instructs the system whether to allow short picks when verifying the quantities of what is expected to be picked (in cmn:OrderItemList) against the each quantities of actual scanned serial numbers (in cmn:AddedPickedItems). ⁴ Values must be lower case only. If no value is specified, false is assumed.
			cmn:OrderItem	1...* -	-	Required. The cmn:OrderItem group is a repeating element that captures the item code, lot number, and quantity for each item that will be picked for that order. Each unique item code and lot number are communicated in a separate order item group. Either cmn:InternalMaterialCode or cmn:PackagingItemCode is mandatory with cmn:Quantity .

¹1234567²FederalBudgetFunds³2021-12-21⁴true

Data Element						Occurs Length	Type	Description
					cmn:OrderItemNumber	0...1 0/*	String	Order item number attribute associating specific serial numbers to the price, VAT, and cost taxes reported in a specific instance of cmn:OrderItem .
					Choice	1...1 -	Choice	Required. A choice between the cmn:InternalMaterialCode and cmn:PackingItemCode for cmn:OrderItem is required for this message. Cannot use both or none.
					cmn:InternalMaterialCode	0...1 1/*	String	Conditionally required if cmn:PackingItemCode is not populated. Option 1 for OrderItem. Used to identify the product using the internal material number, which is configured in the Product Master Data, and associated with serial number at time of commissioning. ¹
					cmn:PackingItemCode	0...1 0/*	String	Conditionally required if cmn:InternalMaterialCode is not populated. This is Option 2 for the OrderItem message. Use to identify the product using the packaging level item code (e.g. GTIN-14) configured in Product Master Data, and associated with serial number at time of commissioning. ²
					@type	0...1 1/*	String	Required. The packaging item code type. See the ItemCode enumeration list for valid values.
					cmn:LotNumber	0...1 0/*	String	The lot or batch code for the items to be picked (if available). ³
					cmn:ExpirationDate	0...1 0/*	Date	Expiration date for the product in XML date format YYYY-MM-DD. ⁴
					cmn:Quantity	1...1 1/*	Integer	Required. The quantity of items at the EACH (unit) level of the item. Quantity must be greater than zero if cmn:IsSerialized = false . If multiple GTINs at the same packaging level are associated with the same internal material code, the system automatically combines quantities from those GTINs and provides a single quantity for the Internal Material Code. ⁵
					cmn:UnitPrice	0...1 1/*	Decimal	Required. The unit price of an item.
					@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ⁶ See the ISOCurrency enumeration list for valid values.

¹100253²00882026030229³B234567⁴2018-08-15⁵48⁶USD

Data Element						Occurs Length	Type	Description
					cmn:VAT	0...1 -	Decimal	Value Added Tax per unit. ¹
					@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ² See the ISOCurrency enumeration list for valid values.
					cmn:GrossPrice	0...1 0/*	Decimal	Price including unit price and all taxes and fees. ³
					@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ⁴ See the ISOCurrency enumeration list for valid values.
					cmn:IsSerialized	0...1 0/*	Boolean	Conditionally required if cmn:shipFromCountryCode = KR and cmn:SalesDistributionType = EXPORTSALE or INCOUNTRYSALE for non-serialized products. Indicates if the item is not serialized. If omitted, defaults the value to "true".
					cmn:TransactionIdentifier	0...* 0/*	String	Transaction identifier at the line-item level of shipment. More than one transaction identifier may be present. ⁵
					@type	1...1 1/*	String	Required. The transaction identifier type. Valid values: • DESTRUCTION • INVOICE • NOTAFISCALELETRONICA • OTHER • PO • RETURN
					@date	0...1 0/*	Date	Required. Conditionally required if cmn:ShipToCountryCode = RU . The transaction identifier date. ⁶
					cmn:SenderInfo	0...1	-	Required.

¹152.22²USD³45.67⁴USD⁵PO303005⁶2019-03-30

Data Element					Occurs Length	Type	Description
							This message contains information about the supply chain partner that is sending the return shipment. The cmn:FromBusinessParty and cmn:ShipFromLocation elements determine whether to use master data lookup to populate the address, license, and contact elements. Only one of cmn:FromBusinessParty or cmn:ShipFromLocation elements may be present at once.
				choice%1	0...1 -	Choice	Option 1 within choice%1 of cmn:SenderInfo contains only the cmn:FromBusinessPartyLookupId (in this case, TraceLink populate all of the cmn:FromBusinessPartyInfo field data based on company master data lookup). Populate this element <i>only</i> if no master data lookup is desired. Option 2 within choice%1 of cmn:SenderInfo contains full FromBusinessPartyInfo business address field data that is populated by the customer directly in the interface. Populate this element fully <i>only</i> if no master data lookup is desired.
				cmn:FromBusinessPartyLookupId	0...1 0/*	String	Option 1 for the SenderInfo group. cmn:FromBusinessPartyLookupId is a look-up identifier associated with the sold from business entity from the provided enumeration list. Use this value will as the look-up key in master data to populate the details in cmn:FromBusinessPartyInfo . ¹  This field is optional, but may be used for master data lookup in TraceLink. An error is thrown if both cmn:FromBusinessPartyLookupId and cmn:FromBusinessPartyInfo are populated.
				@type	1...1 1/*	String	Required. The type of the sold from business entity identifier. See the BusinessLookupId enumeration list for valid values.
				cmn:FromBusinessPartyInfo	0...1 1/*	-	Conditionally required if cmn:SenderInfo is populated, but cmn:FromBusinessPartyLookupId is not populated. Option 2 for the cmn:SenderInfo group. This field contains full FromBusinessPartyInfo business address field data that will be populated by the customer directly in the interface. Populate this element fully only if no master data look-up is desired.
				cmn:BusinessId	1...* 1/*	String	Required. The BusinessId field indicates the identifier associated with the business party who owns the goods at the time of the shipment. This value is mandatory for regulatory reporting. ²
				@type	1...1 1/*	String	Required. The business id type. See the BusinessAndLocationId enumeration list for valid values.  Only one of the following values may be used per message: RU_INN_FOREIGN_ENTITY

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Data Element						Occurs Length	Type	Description
								- RU_INN_INDIV - RU_INN_LOCAL_ENTITY
					cmn:BusinessClassification	0...1 0/*	String	: Classifies the business type of the TraceLink customer or trading partner. See the BusinessClassification enumeration list for valid values.
					BusinessInfo	0...1 -	-	Populated with the business name and address of the owning party of the goods.
					cmn:BusinessName	1...1 1/*	String	Required. The business name of the TraceLink Customer or Trading Partner. ¹
					cmn:Street1	1...1 1/*	String	Required. The first line of the street address for the company indicated in cmn:BusinessName . ²
					cmn:Street2	0...1 0/*	String	The second line of the street address for the company indicated in cmn:BusinessName . ³
					cmn:City	1...1 1/*	String	Required. The city of the company indicated in cmn:BusinessName . ⁴
					cmn:Village	0...1 0/*	String	Name of the village in which the company is located.
					cmn:HouseNumber	0...1 0/*	String	Building, house, or unit number of the company. House numbers are usually only separated from the street address in China. For all addresses outside of China, continue to enter the building, house, or unit number in Street1 .
					cmn:Township	0...1 0/*	String	Name of the township in which the company is located.
					cmn:District	0...1 0/*	String	District Code. ⁵

¹Kendall Pharma²300 Trade Center³Suite 7690⁴Woburn⁵002

Data Element						Occurs Length	Type	Description
								 Must be a 3-digit numeric code.
					cmn:StateOrRegion	1...1 1/*	String	Required. The standard two-letter abbreviation specified in ISO 3166-2:1998 country subdivision code. The state, province, or region of the company specified in cmn:BusinessName . ¹ See the ISOCountryCode enumeration list for valid values.
					cmn:PostalCode	1...1 1/*	String	Required. The zip or other postal code of the company indicated in cmn:BusinessName . ²
					cmn:Country	1...1 1/*	String	Required. Two-letter abbreviation specified in ISO 3166-1alpha-2:1997 country code. The country code of the company indicated in cmn:BusinessName . ³ See the ISOCountryCode enumeration list for valid values.
					cmn:CorporateFax	0...1 0/*	String	Company fax number.
					cmn:AddressObjectGUID	0...1 0/*	String	The global identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum 36 characters, using the digits 0-9 and letters A-F.
					cmn:HouseGUID	0...1 0/*	String	The global House identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum 36 characters, using the digits 0-9 and letters A-F.
					cmn:TaxRegistrationCode	0...1 0/*	String	The code used to identify this entity for tax or other legal reporting purposes (e.g. a Russia KPP Registration Code).
					cmn:PremisesCode	0...1 0/*	String	Identifier representing a physical area within the company location (e.g. a location's second floor).
				choice%2		0...1 -	Choice	Optional choice element: No error if neither are present. Option 1 within choice%2of senderInfo contains only the cmn:ShipFromLocationLookupId (in this case TraceLink populates all of the ShipFromLocationInfo fielded data based on company location master data lookup). Populate this element only if master data lookup is desire. This choice is

¹MA²01801³US

Data Element					Occurs Length	Type	Description
							restricted to TraceLink Customers only.  Option 1 is for use by TraceLink Customers only. Option 2 within choice2 of senderInfo contains full cmn:ShipFromLocationInfo business address fielded data that is populated by the customer directly in the interface. Populate this element fully only if no master data lookup is desired.
				cmn:ShipFromLocationLookupId	0...1 1/*	String	Option 1 for the SenderInfo complex message. This field is a partner identifier (e.g. GLN, DUNS), which triggers the look-up of the partner's address information in TraceLink (the master data). This information then populates the details in cmn:ShipFromLocationInfo . ¹
				@type	1...1 1/*	String	Required. Ship-from location lookup id type. See the LocationLookupId enumeration list for valid values.
				cmn:ShipFromLocationInfo	0...1 -	-	This is Option 2 for the cmn:SenderInfo group. The full business information associated with the ship-from location is provided directly. Countries outside the US do not track sold from business and ship-from location separately.
				cmn:FacilityId	0...* 0/*	String	Conditionally required if cmn:LocationInfo is populated and cmn:ShipFromLocationLookupId is not present. This field is populated with either the ship-from Location Identifier or the ship-to location identifier. ²
				@type	1...1 1/*	String	Required. The business id type. See the BusinessAndLocationId enumeration list for valid values.  Only one of the following values may be used per message: - RU_INN_FOREIGN_ENTITY - RU_INN_INDIV - RU_INN_LOCAL_ENTITY
				cmn:LocationInfo	0...1 -	String	Conditionally required for the US. This field is populated with the business name and address of the cmn:ShipFrom business entity.

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Data Element						Occurs Length	Type	Description
					cmn:BusinessName	1...1 1/*	String	Required. The business name of the TraceLink Customer or Trading Partner. ¹
					cmn:Street1	1...1 1/*	String	Required. The first line of the street address for the company indicated in cmn:BusinessName . ²
					cmn:Street2	0...1 0/*	String	The second line of the street address for the company indicated in cmn:BusinessName . ³
					cmn:City	1...1 1/*	String	Required. The city of the company indicated in cmn:BusinessName . ⁴
					cmn:Village	0...1 0/*	String	Name of the village in which the company is located.
					cmn:HouseNumber	0...1 0/*	String	Building, house, or unit number of the company. House numbers are usually only separated from the street address in China. For all addresses outside of China, continue to enter the building, house, or unit number in Street1 .
					cmn:Township	0...1 0/*	String	Name of the township in which the company is located.
					cmn:District	0...1 0/*	String	District Code. ⁵  Must be a 3-digit numeric code.
					cmn:StateOrRegion	1...1 1/*	String	Required. The standard two-letter abbreviation specified in ISO 3166-2:1998 country subdivision code. The state, province, or region of the company specified in cmn:BusinessName . ⁶ See the ISOCountryCode enumeration list for valid values.
					cmn:PostalCode	1...1 1/*	String	Required. The zip or other postal code of the company indicated in cmn:BusinessName . ⁷

¹Kendall Pharma²300 Trade Center³Suite 7690⁴Woburn⁵002⁶MA⁷01801

Data Element						Occurs Length	Type	Description
					cmn:Country	1...1 1/*	String	Required. Two-letter abbreviation specified in ISO 3166-1alpha-2:1997 country code. The country code of the company indicated in cmn:BusinessName . ¹ See the ISOCountryCode enumeration list for valid values.
					cmn:CorporateFax	0...1 0/*	String	Company fax number.
					cmn:AddressObjectGUID	0...1 0/*	String	The global identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum 36 characters, using the digits 0-9 and letters A-F.
					cmn:HouseGUID	0...1 0/*	String	The global House identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum 36 characters, using the digits 0-9 and letters A-F.
					cmn:TaxRegistrationCode	0...1 0/*	String	The code used to identify this entity for tax or other legal reporting purposes (e.g. a Russia KPP Registration Code).
					cmn:PremisesCode	0...1 0/*	String	Identifier representing a physical area within the company location (e.g. a location's second floor).
					cmn:LicenseNumber	0...* 0/*	String	Populate with the license number of the ship-to or ship-from facility. This is contingent on if this field is associated with the cmn:ShipFromLocationInfo or cmn:ShipToLocationInfo element. This element may be repeated to include as many license numbers as required (e.g. state and federal license). ²
					@state	0...1 0/*	String	This attribute is used to give additional context to the LicenseNumber field. The state or region in which the trading partner is licensed, using the standard two-letter abbreviation specified in ISO 3166-2:1998 country sub-division code. ³
					@agency	0...1 0/*	String	This attribute is used to give additional context to the LicenseNumber field. It indicates the agency that granted the license to the facility (e.g. Florida DOH, NABP). ⁴
					cmn:ContactInfo	0...1	String	Contains contact information for use by downstream trading partners to authenticate (i.e. verify) the

¹US²8888800003604³TN⁴BOP

Data Element						Occurs Length	Type	Description
								message information recorded on the pedigree with the sender party. This field must contain a name and telephone number but could also include an individual's title, email, and/or URL.  Do not include for Ship-To Location.
					cmn:Name	0...1 0/*	String	The name of the contact department or individual at the designated company. ¹
					cmn:Title	0...1 0/*	String	Title information is optional within cmn:ContactInfo . The title refers to the individual's job title who is indicated in the Name field. ²
					cmn:Telephone	1...1 1/*	String	Required. The phone number of the contact department or individual at the designated company. This value must begin with the "+" character followed by the Country Calling Code. ³
					cmn:Email	0...1 0/*	String	The email address of the contact department or individual at the designated company. Should be included if available. ⁴
					cmn:Url	0...1 0/*	String	URL information is optional within cmn:ContactInfo . The URL refers to the designated company's web address that facilitates authentication. ⁵
			cmn:ReceiverInfo			0...1 -	String	Required. Information about the supply chain partner that is receiving the shipment. cmn:ReceiverInfo contains an XML Choice element on the cmn:ToBusinessPartyLookupId and cmn:ShipToLocationLookupId that decide whether master data look-up is used to populate the address, license, and contact elements.
				choice%1		0...1 -	Choice	Option 1 within choice%1 of cmn:ReceiverInfo contains only cmn:ToBusinessPartyLookupId (in this case TraceLink populates all of the ToBusinessPartyInfo field data based on company master data lookup). Populate this element <i>only</i> if master data lookup is desired. Option 2 within choice%1 of cmn:ReceiverInfo contains full ToBusinessPartyInfo business address field data that is populated by the customer directly in the interface. Populate this element fully <i>only</i> if no master data lookup is desired.

¹Customer Service²Customer Service Representative³+1-781-555-5624⁴support@kendallpharma.com⁵www.KendallPharma.com

Data Element						Occurs Length	Type	Description
				cmn:ToBusinessPartyLookupId		0...1 0/*	String	Option 1 for cmn:ReceiverInfo . A look-up identifier associated with the sold to business entity from the provided enumeration list. Use this value as the look-up key in master data to populate the details in ToBusinessPartyInfo. ¹  This field is optional, but may be used for master data lookup in TraceLink. An error is thrown if both cmn:ToBusinessPartyLookupId and cmn:ToBusinessPartyInfo are populated.
					@type	1...1 1/*	String	Required. The type of the sold to business entity identifier. See the LocationLookupId enumeration list for valid values.
				cmn:ToBusinessPartyInfo		0...1 -	String	Conditionally required if cmn:ToBusinessPartyLookupId is not populated. Full business information associated with the sold to business entity. Option 2 for cmn:ReceiverInfo .
					cmn:BusinessId	1...* 1/*	String	Required. This field is populated with the full business information associated with the sold to business entity. This value is mandatory for regulatory reporting. ²
					@type	1...1 1/*	String	Required. The business id type. See the BusinessAndLocationId enumeration list for valid values.  Only one of the following values may be used per message: - RU_INN_FOREIGN_ENTITY - RU_INN_INDIV - RU_INN_LOCAL_ENTITY
				cmn:BusinessClassification		0...1 1/*	String	Conditionally required: - For Argentina. - If cmn:shipToCountryCode = KR and ReceiptDistributionType = INCOUNTRYRETURN. This field classifies the business type of the receiving business entity. Valid values: MANUFACTURER DISTRIBUTOR

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Data Element						Occurs Length	Type	Description
								• LOGISTICS • WHOLESALE • PHARMACY • HEALTHCARE
					cmn:BusinessInfo	0...1 0/*	String	Populated with the business name and address of the sold to business entity.
					cmn:BusinessName	1...1 1/*	String	Required. The name of the receiving business entity.
					cmn:Street1	1...1 1/*	String	Required. The first line of the street address for the company indicated in cmn:BusinessName .
					cmn:Street2	0...1 0/*	String	The second line of the street address for the company indicated in cmn:BusinessName .
					cmn:City	1...1 1/*	String	Required. The city of the company indicated in cmn:BusinessName .
					cmn:Village	0...1 0/*	String	Name of the village in which the company is located.
					cmn:HouseNumber	0...1 0/*	String	Building, house, or unit number of the company. House numbers are usually only separated from the street address in China. For all addresses outside of China, continue to enter the building, house, or unit number in Street1 .
					cmn:Township	0...1 0/*	String	Name of the township in which the company is located.
					cmn:District	0...1 0/*	String	District Code.  Must be a 3-digit numeric code.
					cmn:StateOrRegion	1...1 1/*	String	Required. Two-letter abbreviation specified in ISO 3166-2:1998 country subdivision code. The state, province, or region of the company specified in cmn:BusinessName .
					cmn:PostalCode	1...1 1/*	String	Required. The zip or other postal code of the company indicated in cmn:BusinessName .

Data Element							Occurs Length	Type	Description
						cmn:Country	1...1 1/*	String	Required. Standard two-letter abbreviation specified in ISO 3166-1alpha-2:1997 country code. The country code of the company indicated in cmn:BusinessName . See the ISOCountryCode enumeration list for valid values.
						cmn:CorporateFax	0...1 0/*	String	Company fax number.
						cmn:AddressObjectGUID	0...1 0/*	String	The global identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum 36 characters, using the digits 0-9 and letters A-F.
						cmn:HouseGUID	0...1 0/*	String	The global House identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum 36 characters, using the digits 0-9 and letters A-F.
						cmn:TaxRegistrationCode	0...1 0/*	String	The code used to identify this entity for tax or other legal reporting purposes (e.g. a Russia KPP Registration Code).
						cmn:PremisesCode	0...1 0/*	String	Identifier representing a physical area within the company location (e.g. a location's second floor).
				choice%2			0...1 -	Choice	Can choose either cmn:ShipToLocationLookupId or cmn:ShipToLocationInfo ; cannot choose both. No error thrown if none are present.
				cmn:ShipToLocationLookupId			0...1 0/*	String	Option 1 for ReceiverInfo. A look-up identifier associated with the ship-to location using the provided enumeration list. This value will be used as the look-up key in master data to populate the details in ShipToLocationInfo.
					@type		1...1 1/*	String	Required. Ship-to location type. See the LocationLookupId enumeration list for valid values.
				cmn:ShipToLocationInfo			0...1 0/*	String	Conditionally required if cmn:ShipToLocationLookupId is not present. Option 2 for ReceiverInfo group. This field is populated with the full business information associated with the ship-to location, which is provided directly.
					cmn:FacilityId		0...* 0/*	String	Required. This field is populated with either the ship-from Location Identifier or the ship-to location identifier. ¹

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Data Element						Occurs Length	Type	Description
								 For the US: Provide a DEA, GLN, HIN, or SGLN identifier associated with the ship-to location.
					@type	1...1 1/*	String	Required. The facility id type. See the BusinessAndLocationId enumeration list for valid values.  Only one of the following values may be used per message: - RU_INN_FOREIGN_ENTITY - RU_INN_INDIV - RU_INN_LOCAL_ENTITY
					cmn:LocationInfo	0...1 1/*	String	Conditionally required for the US. This field is populated with the business name and address of the business entity.
					cmn:BusinessName	1...1 1/*	String	Required. The name of the receiving business entity.
					cmn:Street1	1...1 1/*	String	Required. The first line of the street address for the company indicated in cmn:BusinessName .
					cmn:Street2	0...1 0/*	String	The second line of the street address for the company indicated in cmn:BusinessName .
					cmn:City	1...1 1/*	String	Required. The city of the company indicated in cmn:BusinessName .
					cmn:Village	0...1 0/*	String	Name of the village in which the company is located.
					cmn:HouseNumber	0...1 0/*	String	Building, house, or unit number of the company. House numbers are usually only separated from the street address in China. For all addresses outside of China, continue to enter the building, house, or unit number in Street1 .
					cmn:Township	0...1 0/*	String	Name of the township in which the company is located.
					cmn:District	0...1 0/*	String	District Code.

Data Element							Occurs Length	Type	Description
									 Must be a 3-digit numeric code.
						cmn:StateOrRegion	1...1 1/*	String	Required. Two-letter abbreviation specified in ISO 3166-2:1998 country subdivision code. The state, province, or region of the company specified in cmn:BusinessName .
						cmn:PostalCode	1...1 1/*	String	Required. The zip or other postal code of the company indicated in cmn:BusinessName .
						cmn:Country	1...1 1/*	String	Required. Standard two-letter abbreviation specified in ISO 3166-1alpha-2:1997 country code. The country code of the company indicated in cmn:BusinessName . See the ISOCountryCode enumeration list for valid values.
						cmn:CorporateFax	0...1 0/*	String	Company fax number.
						cmn:AddressObjectGUID	0...1 0/*	String	The global identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum 36 characters, using the digits 0-9 and letters A-F.
						cmn:HouseGUID	0...1 0/*	String	The global House identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum 36 characters, using the digits 0-9 and letters A-F.
						cmn:TaxRegistrationCode	0...1 0/*	String	The code used to identify this entity for tax or other legal reporting purposes (e.g. a Russia KPP Registration Code).
						cmn:PremisesCode	0...1 0/*	String	Identifier representing a physical area within the company location (e.g. a location's second floor).
						cmn:LicenseNumber	0...* 0/*	String	Conditionally required for the US. The LicenseNumber field is populated with the license number of the ship-to or ship-from facility. This element may be repeated to include as many license numbers as required (such as, state and federal license).
						@state	0...1 0/*	String	Use the standard two-letter abbreviation specified in ISO 3166-2:1998 country sub-division code. This attribute is used to give additional context to the LicenseNumber field. It indicates the state or region in which the trading partner is licensed.
						@agency	0...1 0/*	String	This attribute is used to give additional context to the LicenseNumber field. It indicates the agency that granted the license to the facility (e.g. Florida DOH, NABP).

Data Element						Occurs Length	Type	Description
					cmn:ContactInfo	0..1 -	-	Do not include for Ship-To Location as it is not used.
					cmn:CarrierInfo	0..* -	-	The full business information associated with the carrier responsible for delivering the shipment. cmn:CarrierInfo contains an XML Choice element that governs whether master data lookup will be used to populate the address elements. The choice elements allow only one of the element sets contained in the choice declaration to be present within the containing element.
					Choice	1..1 -	Choice	Required. Must choose between cmn:CarrierBusinessPartyLookupId and cmn:CarrierBusinessPartyInfo . Cannot choose both or none.
					cmn:CarrierBusinessPartyLookupId	0..1 1/*	String	Conditionally required if cmn:CarrierBusinessPartyInfo is not populated. This is Option 1 for cmn:CarrierInfo . This value indicates the look-up identifier associated with the Carrier entity from the provided enumeration list. This value will be used as the look-up key in master data to populate the details in CarrierBusinessPartyInfo. ¹
					@type	1..1 1/*	String	Required. The business party type. See the BusinessLookupId enumeration list for valid values.
					cmn:CarrierBusinessPartyInfo	0..1 -	-	Conditionally required if cmn:CarrierBusinessPartyLookupId is not populated. This is Option 2 for cmn:CarrierInfo option. This element contains the full business information associated with the transportation carrier business entity.
					cmn:BusinessId	1..* 1/*	String	Required. Indicates the identifier associated with either the sold from business entity or the sold to business entity. This value is mandatory for regulatory reporting. Different countries require different values as noted below:
					@type	1..1 1/*	String	Required. The business id type. See the BusinessAndLocationId enumeration list for valid values.  Only one of the following values may be used per message: - RU_INN_FOREIGN_ENTITY - RU_INN_INDIV - RU_INN_LOCAL_ENTITY
					cmn:BusinessClassification	0..1 0/*	String	This field classifies the business type of the TraceLink customer or trading partner. Valid values:

¹00.000.000/0001-00

Data Element						Occurs Length	Type	Description
								• CARRYING_FORWARDING_AGENT • CHEMIST • DISTRIBUTOR • EXPORTER • HEALTHCARE • IMPORTER • LOGISTICS • MANUFACTURER • PHARMACY • STOCKIST • WHOLESALE
					cmn:BusinessInfo	0...1 -	-	Populated with the business name and address of the transportation carrier business entity.
					cmn:BusinessName	1...1 1/*	String	Required. The name of the receiving business entity.
					cmn:Street1	1...1 1/*	String	Required. The first line of the street address for the company indicated in cmn:BusinessName .
					cmn:Street2	0...1 0/*	String	The second line of the street address for the company indicated in cmn:BusinessName .
					cmn:City	1...1 1/*	String	Required. The city of the company indicated in cmn:BusinessName .
					cmn:Village	0...1 0/*	String	Name of the village in which the company is located.
					cmn:HouseNumber	0...1 0/*	String	Building, house, or unit number of the company. House numbers are usually only separated from the street address in China. For all addresses outside of China, continue to enter the building, house, or unit number in Street1 .
					cmn:Township	0...1 0/*	String	Name of the township in which the company is located.
					cmn:District	0...1	String	District Code.

Data Element							Occurs Length	Type	Description
									 Must be a 3-digit numeric code.
						cmn:StateOrRegion	1...1 1/*	String	Required. Two-letter abbreviation specified in ISO 3166-2:1998 country subdivision code. The state, province, or region of the company specified in cmn:BusinessName .
						cmn:PostalCode	1...1 1/*	String	Required. The zip or other postal code of the company indicated in cmn:BusinessName .
						cmn:Country	1...1 1/*	String	Required. Standard two-letter abbreviation specified in ISO 3166-1alpha-2:1997 country code. The country code of the company indicated in cmn:BusinessName . See the ISOCountryCode enumeration list for valid values.
						cmn:CorporateFax	0...1 0/*	String	Company fax number.
						cmn:AddressObjectGUID	0...1 0/*	String	The global identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum 36 characters, using the digits 0-9 and letters A-F.
						cmn:HouseGUID	0...1 0/*	String	The global House identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum 36 characters, using the digits 0-9 and letters A-F.
						cmn:TaxRegistrationCode	0...1 0/*	String	The code used to identify this entity for tax or other legal reporting purposes (e.g. a Russia KPP Registration Code).
						cmn:PremisesCode	0...1 0/*	String	Identifier representing a physical area within the company location (e.g. a location's second floor).
						cmn:WarehouseOperatorName	0...1 0/*	String	Conditionally required for China. This field indicates the name of the person responsible for warehouse operations. This element can be communicated at any time (e.g. with, before, or after the order details or picked items have been communicated). ¹
						som:AddPickedItems	0...1 -	-	List of serial numbers for the outermost handling units (e.g. container/tote) picked for this delivery. TraceLink will look up the child aggregations of the serial numbers provided in the list and update the container and all sub-child items with the picked and subsequent shipped status.

¹John Smith

Data Element				Occurs Length	Type	Description
			cmn:Serial	1...* 1/*	String	Required. This attribute identifies the serial numbers included in the transaction and their format. ¹
			@format	0...1 0/*	String	Required. The format of the serial number. See the Format enumeration list for valid values.
			@orderItemNumber	0...1 0/*	String	Order item number attribute associating specific serial numbers with the price, VAT, and cost taxes reported in a specific instance of cmn:OrderItem .
			som:RemoveUnpickedItems	0...1 -	-	List of serial numbers that were previously reported as picked for this delivery, but have been unpicked (e.g. will not be part of the delivery). TraceLink looks up the child aggregations of the serial numbers provided in the list and updates the container and all sub-child items with the available status and disassociates them from the delivery.
			cmn:Serial	1...* 1/*	String	Required. Serial number previously reported as picked for this delivery. One serial number is included per picked container (or item if shipping loose items). ²
			@format	0...1 0/*	String	Indicates the serial number format of the number(s) provided in the Serial field. See the Format enumeration list for valid values.
			som:AddPickedLot	0...1 -	-	Product code and lot number used to determine the serial number content of a shipment created through a TL XML message that specifies a product code and lot number. Decommissioned and destroyed serial numbers are excluded from serial number content added via som:AddPickedLot . Decommissioning or destroying serial numbers <i>after</i> adding them to a shipment via cmn:AddPickedLot results in message failure.
			cmn:ProductLotNumbers	1...* -	-	Required. Product code data elements within a choice grouping.
			choice%1	1...1 -	Choice	Required. Choice of either an cmn:InternalMaterialCode or cmn:CountryDrugCode with type attribute. At least one is mandatory.
			cmn:InternalMaterialCode	0...1 0/*	String	Internal material number for the product in the brand owner's internal systems (e.g. ERP). ³  The message may include either cmn:InternalMaterialCode, cmn:CountryDrugCode, or both, but all packaging levels must be consistent.

¹015088202501033321100000060001²015088202501033321100000060001³100234

Data Element					Occurs Length	Type	Description
				cmn:CountryDrugCode	0...1 1/*	String	The national drug code for the commissioned item (e.g. NDC number for US products). ¹  The message may include either cmn:InternalMaterialCode, cmn:CountryDrugCode, or both, but all packaging levels must be consistent.
				@type	0...1 0/*	String	Required. The national drug code type. ² See the CountryDrugCode enumeration list for valid values.
				cmn:LotNumber	1...1 1/*	String	Required. The lot or batch code for the serialized item in an alphanumeric string. ³
				som:RemoveUnpickedLot	0...1 -	-	Populate with product code(s) and lot number(s) that are used to determine serial number content of unpicked product for a shipment created through a TL XML message that specifies a product code and lot number.
				cmn:ProductLotNumbers	1...* -	-	Required. Product code data elements within a choice grouping.
				choice%1	1...1 -	Choice	Required. Choice of either an cmn:InternalMaterialCode or cmn:CountryDrugCode with type attribute. At least one is mandatory.
				cmn:InternalMaterialCode	0...1 0/*	String	Internal material number for the product in the brand owner's internal systems (e.g. ERP). ⁴  The message may include either cmn:InternalMaterialCode, cmn:CountryDrugCode, or both, but all packaging levels must be consistent.
				cmn:CountryDrugCode	0...1 1/*	String	The national drug code for the commissioned item (e.g. NDC number for US products). ⁵  The message may include either cmn:InternalMaterialCode, cmn:CountryDrugCode, or both, but all packaging levels must be consistent.

¹0069-4220-66²US_NDC442³ABC123⁴100234⁵0069-4220-66

Data Element						Occurs Length	Type	Description
					@type	0...1 0/*	String	Required. The national drug code type. ¹ See the CountryDrugCode enumeration list for valid values.
				cmn:LotNumber		1...1 1/*	String	Required. The lot or batch code for the serialized item in an alphanumeric string. ²
			som:Aggregation			0...* -	-	The Aggregation item group is used to communicate new aggregations created by the warehouse that are included in the shipment. The PickedItems will continue to include the top level container serial numbers and/or loose items. If the warehouse created a new aggregation (e.g. created a new pallet, created a new mixed case), the aggregation hierarchies created in the warehouse are communicated in the Aggregation element. If an existing case is shipped, the case just needs to be scanned and the case hierarchy would not be provided. If a new mixed case is created, the hierarchy for the new case will be communicated. This enables the distribution warehouse to locally manage changes to aggregation hierarchies and communicate just the new aggregation hierarchies of the shipped goods at the time of shipment, without having to send disaggregation and aggregation events. The backend will perform the implicit disaggregate and aggregate operations to achieve the end state aggregation hierarchy prior to processing the shipment. It will also auto-commission the SSCC numbers for new cases and pallets when these SSCC numbers are not yet commissioned.
			cmn:EventDateTime			0...1 0/*	DateTime	Timestamp of date/time of aggregation event with the UTC time zone indicator in format: YYYY-MM-DDTHH:MM:SS.ssZ.  If not present, the system defaults to a GMT date/time previous to the shipment date/time populated in som:MessageBody cmn:EventDateTime.
			cmn:EventLocation			1...1 1/*	String	Required. Site-level SGLN of the location where the event occurred. SGLN format will be numeric component only, with urn prefix stripped (e.g. 8888882.02867.0 instead of urn:epc:id:sgln:8888882.02867.0 typically found in EPCIS events).
			cmn:ParentSerial			1...1 1/*	String	Required. Serial number expressed in the GS1 Application Identifier format WITHOUT parenthesis for the AI keys. AI (01) (21) formatted serial number for GTINs -or- AI (00) formatted serial number for SSCCs. Non-GS1 serial numbers (e.g. China) are expressed in native format.
				@companyPrefix		0...1 -	-	The GS1 Company Prefix used in GTIN-14 and SSCC serial numbers.

¹US_NDC442²ABC123

Data Element					Occurs Length	Type	Description
				@filterValue	0...1 -	-	The filter value used in GTIN-14 and SSCC serial numbers.
				@format	0...1 1/*	String	Required. The format of the serial number. See the Format enumeration list for valid values.
				@packedStatus	0...1 1/*	String	The packed status of the item or container using the supported enumeration values. See the PackedStatus enumeration list for valid values.
			cmn:PackagingLevel		0...1 0*	String	The packaging level of the commissioned item using the supported enumeration values. See the PackagingLevel enumeration list for valid values.
			cmn:NumberList		1...1 -	-	Required. Contains the list of serial numbers for the items packed into the parent serial number
			cmn:Serial		1...* 1/*	String	Required. Serial number expressed in the GS1 Application Identifier format WITHOUT parenthesis for the AI keys. AI (01) (21) formatted serial number for GTINs -or- AI (00) formatted serial number for SSCCs. Non-GS1 serial numbers (e.g. China) are expressed in native format.
				@companyPrefix	0...1 0/*	String	The GS1 Company Prefix used in GTIN-14 and SSCC serial numbers.
				@filterValue	0...1 0/*	String	The filter value used in GTIN-14 and SSCC serial numbers.
				@format	0...1 1/*	String	Required. The format of the serial number. See the Format enumeration list for valid values.
				@packedStatus	0...1 1/*	String	The packed status of the item or container using the supported enumeration values. See the PackedStatus enumeration list for valid values.
				@orderItemNumber	0...1 0/*	String	Order item number attribute associating specific serial numbers with the price, VAT, and cost taxes reported in a specific instance of cmn:orderItem .

Example

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<som:SOMSalesShipmentMessage xmlns="urn:tracelink:mapper:sl:serialized_operations_manager"
xmlns:som="urn:tracelink:mapper:sl:serialized_operations_manager"
xmlns:cmn="urn:tracelink:mapper:sl:commontypes" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <som:ControlFileHeader>
    <cmn:FileSenderNumber>8888882028655</cmn:FileSenderNumber>
```

```

    <cmn:FileReceiverNumber>88888882028677</cmn:FileReceiverNumber>
    <cmn:FileControlNumber>20130821063132</cmn:FileControlNumber>
    <cmn:FileDate>2018-06-12</cmn:FileDate>
    <cmn:FileTime>05:31:32Z</cmn:FileTime>
  </som:ControlFileHeader>
  <som:MessageBody>
    <cmn:LocationId>412333444</cmn:LocationId>
    <cmn:DeliveryNumber>4610031</cmn:DeliveryNumber>
    <!--

```

The delivery complete flag is set to true because this is an example where all of the information (order detail and picked serial numbers) are provided in a single message.

If only partial information was provided (e.g. order detail only, picked items sent incrementtally, etc) then the delivery complete flag would be set to false for all intermediate messages,

and then set to true when the delivery is complete. The delivery complete flag instructs TraceLink to process the outbound delivery, update the status of all serial numbers and sub-child

aggregations to shipped, and trigger generation of regulatory reporting messages based on customer configuration.

```

-->

```

```

    <cmn:DeliveryCompleteFlag>true</cmn:DeliveryCompleteFlag>
  <som:OrderDetails>
    <cmn:EntryPort></cmn:EntryPort>
    <cmn:ExitPort></cmn:ExitPort>
    <cmn:TransactionIdentifier type="PO" date="2018-06-12">PO303005</cmn:TransactionIdentifier>
    <cmn:TransactionIdentifier type="INVOICE" date="2018-06-12">INV9978</cmn:TransactionIdentifier>
    <cmn:TransactionDate>2018-06-12</cmn:TransactionDate>
    <cmn:TransactionTime>05:31:32Z</cmn:TransactionTime>
    <cmn:ShipToCountryCode>US</cmn:ShipToCountryCode>
    <cmn:SalesDistributionType>INCOUNTRYSALE</cmn:SalesDistributionType>
    <cmn:SupplyType>MedicalCareDistribution</cmn:SupplyType>
    <cmn:ContractType>PrivateContract</cmn:ContractType>
    <cmn:ContractNumber>C107</cmn:ContractNumber>
    <cmn:FundingSource>OwnFunds</cmn:FundingSource>
    <cmn:OrderItemList>
      <!--

```

First order item example demonstrates use of the InternalMaterialCode. Quantity represents quantity of EACHES.

```

-->

```

```

    <cmn:OrderItem>
      <cmn:OrderItemNumber>810</cmn:OrderItemNumber>
      <cmn:InternalMaterialCode>133661</cmn:InternalMaterialCode>

```

```

        <cmn:LotNumber>PPP555</cmn:LotNumber>
        <cmn:Quantity>500</cmn:Quantity>
    </cmn:OrderItem>
    <!--
        Second order item example demonstrates use of the the packaging level item code keyed to the
item serial numbers (GTIN-14).
        Quantity represents quantity of EACHES.
    -->
    <cmn:OrderItem>
        <cmn:OrderItemNumber>811</cmn:OrderItemNumber>
        <cmn:PackagingItemCode type="GTIN-14">00992326050107</cmn:PackagingItemCode>
        <cmn:LotNumber>PPP556</cmn:LotNumber>
        <cmn:Quantity>450</cmn:Quantity>
        <cmn:UnitPrice currencyCode="USD">100.00</cmn:UnitPrice>
        <cmn:VAT currencyCode="USD">50.00</cmn:VAT>
        <cmn:GrossPrice currencyCode="USD">150.00</cmn:GrossPrice>
        <cmn:IsSerialized>false</cmn:IsSerialized>
        <cmn:TransactionIdentifier type="PO" date="2018-06-12">PO1078</cmn:TransactionIdentifier>
    </cmn:OrderItem>
</cmn:OrderItemList>
<cmn:SenderInfo>
    <!--
        Example where full Sold From Business Party and Ship From Location Info, License Info and
Contact Info provided.
        No master data lookup is performed by TraceLink.
    -->
    <cmn:FromBusinessPartyInfo>
        <cmn:BusinessId type="DEA">712333444</cmn:BusinessId>
        <cmn:BusinessInfo>
            <cmn:BusinessName>Clara Manufacturing</cmn:BusinessName>
            <cmn:Street1>10 Welsh St</cmn:Street1>
            <cmn:City>Malden</cmn:City>
            <cmn:Village></cmn:Village>
            <cmn:HouseNumber></cmn:HouseNumber>
            <cmn:Township></cmn:Township>
            <cmn:StateOrRegion>MA</cmn:StateOrRegion>
            <cmn:PostalCode>02148</cmn:PostalCode>
            <cmn:Country>US</cmn:Country>
            <cmn:CorporateFax></cmn:CorporateFax>
            <cmn:AddressObjectGUID>19406454-0022-000C-00B0-000000000152</cmn:AddressObjectGUID>

```

```

        <cmn:HouseGUID>986f2934-be05-438f-A30E-c15b90e15dbc</cmn:HouseGUID>
        <cmn:TaxRegistrationCode></cmn:TaxRegistrationCode>
        <cmn:PremisesCode></cmn:PremisesCode>
    </cmn:BusinessInfo>
</cmn:FromBusinessPartyInfo>
<cmn:ShipFromLocationInfo>
    <cmn:FacilityId type="GLN">8779891013658</cmn:FacilityId>
    <cmn:FacilityId type="SGLN">9997777.01994.0</cmn:FacilityId>
    <cmn:LocationInfo>
        <cmn:BusinessName>Clara Manufacturing</cmn:BusinessName>
        <cmn:Street1>10 Welsh St</cmn:Street1>
        <cmn:City>Malden</cmn:City>
        <cmn:Village></cmn:Village>
        <cmn:HouseNumber></cmn:HouseNumber>
        <cmn:Township></cmn:Township>
        <cmn:StateOrRegion>MA</cmn:StateOrRegion>
        <cmn:PostalCode>02148</cmn:PostalCode>
        <cmn:Country>US</cmn:Country>
        <cmn:CorporateFax></cmn:CorporateFax>
        <cmn:AddressObjectGUID>19406454-0022-000C-00B0-000000000152</cmn:AddressObjectGUID>
        <cmn:HouseGUID>986f2934-be05-438f-A30E-c15b90e15dbc</cmn:HouseGUID>
        <cmn:TaxRegistrationCode></cmn:TaxRegistrationCode>
        <cmn:PremisesCode></cmn:PremisesCode>
    </cmn:LocationInfo>
    <cmn:LicenseNumber state="MA" agency="BORP">773BT8</cmn:LicenseNumber>
    <cmn:ContactInfo>
        <cmn:Name>Customer Service</cmn:Name>
        <cmn:Telephone>+1-781-555-5622</cmn:Telephone>
        <cmn:Email>support@claramanufacturing.com</cmn:Email>
    </cmn:ContactInfo>
</cmn:ShipFromLocationInfo>
</cmn:SenderInfo>
<cmn:ReceiverInfo>
    <!--

```

Example where only the Sold To Business Party and Ship To Location Lookup Ids are provided. This instructs TraceLink to perform master data lookup using the provided Ids to populate the valid identifiers permitted for the transaction (in this case US pedigree), and any other additional info required for the transaction (in this case for US pedigree, the address info and License Info for the receiving party).

```
-->
<!--<cmn:ToBusinessPartyLookupId type="DEA">412333444</cmn:ToBusinessPartyLookupId>-->
<cmn:ToBusinessPartyLookupId type="GCP">412333444</cmn:ToBusinessPartyLookupId>
<cmn:ShipToLocationLookupId type="GLN">8811891013778</cmn:ShipToLocationLookupId>
</cmn:ReceiverInfo>
</som:OrderDetails>
<cmn:WarehouseOperatorName>Patrick Murphy</cmn:WarehouseOperatorName>
<som:AddPickedItems>
  <!--
    These are the serial numbers for the outermost handling units picked for this delivery.
    In this example, there are 10 cases of the first order item, and 1 case of the second order item.
    If these 11 cases were aggregated onto a single pallet, then the single pallet SSCC code would
    have been provided instead of the 11 case serial numbers.
    TraceLink will look up the child aggregations of the serial numbers provided and update the
    container
    and all sub-child items with the picked and subsequent shipped status.
  -->
  <cmn:Serial format="AI(01)+AI(21)" orderItemNumber="811">010088202501033821100000880001</cmn:Serial>
  <cmn:Serial format="AI(01)+AI(21)" orderItemNumber="811">010088202501033821100000880002</cmn:Serial>
  <cmn:Serial format="AI(01)+AI(21)" orderItemNumber="811">010088202501033821100000880003</cmn:Serial>
  <cmn:Serial format="AI(01)+AI(21)" orderItemNumber="811">010088202501033821100000880051</cmn:Serial>
</som:AddPickedItems>
<som:AddPickedLot>
  <cmn:ProductLotNumbers>
    <cmn:CountryDrugCode type="US_NDC542">05552-5500-10</cmn:CountryDrugCode>
    <cmn:LotNumber>PPP557</cmn:LotNumber>
  </cmn:ProductLotNumbers>
</som:AddPickedLot>
</som:MessageBody>
</som:SOMSalesShipmentMessage>
```

Errors

Data Element	Error Message	Description
Class 1		
cmn:AllowShortVerificationCount	Cannot parse input data according to the presentation.	The error occurs if the source does not equal "true" or "false", or is not entirely lowercase.

Data Element	Error Message	Description
cmn:BusinessId	Party type attribute is required when source FromBusinessPartyInfo/BusinessId is populated !!!	The error occurs if BusinessId is populated, but BusinessLookupId is empty or null.
	Party type attribute is required when source ToBusinessPartyInfo/BusinessId is populated !!!	The error occurs if BusinessId is populated, but BusinessLookupId is empty or null.
	Party type attribute is required when source CarrierBusinessPartyLookupId is populated !!!	The error occurs if BusinessId is populated, but BusinessLookupId is empty or null.
cmn:BusinessName	BusinessName required for US!!!	The error occurs if cmn:ShipToCountryCode = US, but source is empty or null.
	From business party name is required !!!	The error occurs if cmn:ShipToCountryCode = US, but source is empty or null.
	Carrier name in source cmn:BusinessName is required if cmn:BusinessInfo is populated !!!	The error occurs if cmn:CarrierBusinessPartyInfo cmn:BusinessInfo is populated, but the source is empty or null.
	To BusinessParty Name is required !!!	The error occurs if tl:shipToCountryCode = US, but source is empty or null.
cmn:CarrierBusinessPartyLookupId	Party type attribute is required when source CarrierBusinessPartyLookupId is populated !!!	The error occurs if source is populated, but @type attribute is empty or null.
cmn:CarrierInfo	Missing mandatory choice. One of ToBusinessPartyLookupId OR ToBusinessPartyInfo group is required !!!	The error occurs if both cmn:ToBusinessPartyLookupId and cmn:ToBusinessPartyInfo are empty or null.
	Only one of ToBusinessPartyLookupId OR ToBusinessPartyInfo group is required !!!	The error occurs if both cmn:ToBusinessPartyLookupId and cmn:ToBusinessPartyInfo are populated.
cmn:City	From business party city is required !!!	The error occurs if tl:shipToCountryCode = US and cmn:BusinessInfo is populated, but the source is empty or null.
	Ship From city is required !!!	The error occurs if tl:shipToCountryCode = US and cmn:LocationInfo is populated, but the source is empty or null.
	To BusinessParty City is required !!!	The error occurs if tl:shipToCountryCode = US and cmn:BusinessInfo is populated, but the source is empty or null.
	Ship To city is required !!!	The error occurs if tl:shipToCountryCode = US, but source is empty or null.
	Carrier city in source cmn:City is required if cmn:BusinessInfo is populated !!!	The error occurs if cmn:CarrierBusinessPartyInfo cmn:BusinessInfo is populated, but the source is empty or null.

Data Element	Error Message	Description
cmn:Country	To BusinessParty country code is required !!!	The error occurs if tl:shipToCountryCode = US and cmn:BusinessInfo is populated, but the source is empty or null.
	From business party country code is required !!!	The error occurs if tl:shipToCountryCode = US and cmn:BusinessInfo is populated, but the source is empty or null.
	Ship To country code is required !!!	The error occurs if tl:shipToCountryCode = US, but source is empty or null.
	Carrier Country in source cmn:Country is required if cmn:BusinessInfo is populated !!!	The error occurs if cmn:CarrierBusinessPartyInfo cmn:BusinessInfo is populated, but the source is empty or null.
	Ship From country code is required !!!	The error occurs if tl:shipToCountryCode = US and cmn:LocationInfo is populated, but the source is empty or null.
cmn:DisaggregateFromParent	Cannot parse input data according to the presentation.	The error occurs if the source does not equal "true" or "false", or is not entirely lowercase.
cmn:FacilityId	Party type attribute is required when source ShipToLocationInfo/FacilityId is populated !!!	The error occurs if source is populated, but @type attribute is empty or null.
	Party type attribute is required when source ShipFromLocationInfo/FacilityId is populated !!!	
cmn:FileControlNumber	Data Error: FileControlNumber occurs fewer times than its minimum number of occurrences.	The error occurs if the source is empty or null.
cmn:FileDate	Data Error: FileDate occurs fewer times than its minimum number of occurrences.	
cmn:FileReceiverNumber	Data Error: FileReceiverNumber occurs fewer times than its minimum number of occurrences.	
	Data Error: FileSenderNumber occurs fewer times than its minimum number of occurrences.	
cmn:FileTime	Data Error: FileTime occurs fewer times than its minimum number of occurrences.	The error occurs if both InternalMaterialCode and PackagingItemCode are populated.
cmn:OrderItem	Only one of InternalMaterialCode OR PackagingItemCode is required !!!	
	Missing mandatory choice. One of InternalMaterialCode OR PackagingItemCode is required !!!	The error occurs if both InternalMaterialCode and PackagingItemCode are empty or null.

Data Element	Error Message	Description
cmn:PackagingItemCode	Product type attribute is required when source PackagingItemCode is populated !!!	The error occurs if source is populated, but @type attribute is empty or null.
cmn:PostalCode	From business party postal code is required !!!	The error occurs if tl:shipToCountryCode = US and cmn:BusinessInfo is populated, but the source is empty or null.
	Ship To postal address is required !!!	The error occurs if tl:shipToCountryCode = US, but source is empty or null.
	To BusinessParty postal code is required !!!	The error occurs if tl:shipToCountryCode = US and cmn:BusinessInfo is populated, but the source is empty or null.
	Ship From postal address is required !!!	The error occurs if tl:shipToCountryCode = US and cmn:LocationInfo is populated, but the source is empty or null.
	Carrier PostalCode in source cmn:PostalCode is required if cmn:BusinessInfo is populated !!!	The error occurs if cmn:CarrierBusinessPartyInfo cmn:BusinessInfo is populated, but the source is empty or null.
cmn:Quantity	Source Quantity is required !!!	The error occurs if the source is empty or null.
	Quantity is required if IsSerialized = "false".	The error occurs if IsSerialized = "false", but source is empty or null.
cmn:SenderInfo	Missing mandatory choice. One of FromBusinessPartyLookupId OR FromBusinessPartyInfo group is required !!!	The error occurs if both cmn:FromBusinessPartyLookupId and cmn:FromBusinessPartyInfo are empty or null.
	Only one of FromBusinessPartyLookupId OR FromBusinessPartyInfo group is required !!!	The error occurs if both cmn:FromBusinessPartyLookupId and cmn:FromBusinessPartyInfo field are populated.
cmn:SenderInfo cmn:FromBusinessPartyLookupId	Party type attribute is required when source FromBusinessPartyLookupId is populated !!!	The error occurs if source is populated, but @type attribute is empty or null.
cmn:Serial	Data Error: Serial occurs fewer times than its minimum number of occurrences.	The error occurs if the source is empty or null.
cmn:ShipFromLocationInfo	Only one of ShipFromLocationLookupId OR ShipFromLocationInfo group is required !!!	The error occurs if both ShipFromLocationLookupId and ShipFromLocationInfo are populated.
cmn:ShipFromLocationLookupId	Only one of ShipFromLocationLookupId OR ShipFromLocationInfo group is required !!!	The error occurs if both ShipFromLocationLookupId and ShipFromLocationInfo are populated.
cmn:ShipToLocationInfo cmn:ContactInfo cmn:Name	Contact name is required if the source contactInfo is populated !!!	The error occurs if the source is empty or null.
cmn:ShipToLocationLookupId	Party type attribute is required when source ShipToLocationLookupId is populated !!!	The error occurs if source is populated, but @type attribute is empty or null.

Data Element	Error Message	Description
cmn:StateOrRegion	To BusinessParty State Code is required !!!	The error occurs if tl:shipToCountryCode = US and cmn:BusinessInfo is populated, but the source is empty or null.
	Carrier StateOrRegion in source cmn:StateOrRegion is required if cmn:BusinessInfo is populated !!!	The error occurs if cmn:CarrierBusinessPartyInfo cmn:BusinessInfo is populated, but the source is empty or null.
	Ship To StateOrRegion in source cmn:StateOrRegion is required if cmn:BusinessInfo is populated !!!	The error occurs if tl:shipToCountryCode = US, but source is empty or null.
	Ship From state or region code is required !!!	The error occurs if tl:shipToCountryCode = US and cmn:LocationInfo is populated, but the source is empty or null.
	From business party state is required !!!	The error occurs if tl:shipToCountryCode = US and cmn:BusinessInfo is populated, but the source is empty or null.
cmn:Street1	Ship From street address is required !!!	The error occurs if tl:shipToCountryCode = US and cmn:LocationInfo is populated, but the source is empty or null.
	Carrier Street1 in source cmn:Street1 is required if cmn:BusinessInfo is populated !!!	The error occurs if cmn:CarrierBusinessPartyInfo cmn:BusinessInfo is populated, but the source is empty or null.
	Ship To street address is required !!!	The error occurs if tl:shipToCountryCode = US, but source is empty or null.
	To BusinessParty Street Address is required !!!	The error occurs if tl:shipToCountryCode = US and cmn:BusinessInfo is populated, but the source is empty or null.
	From business party street address is required !!!	The error occurs if tl:shipToCountryCode = US and cmn:BusinessInfo is populated, but the source is empty or null.
cmn:SupplyType	SupplyType is required if ShipFromCountryCode is "KR" and SalesDistributionType is <SalesDistributionType> !!!	The error occurs if ShipFromCountryCode = KR and SalesDistributionType = EXPORTSALE or INCOUNTRYSALE, but source is empty or null.
cmn:Telephone	Data Error: Telephone occurs fewer times than its minimum number of occurrences.	The error occurs if the source is empty or null.
cmn:ToBusinessPartyLookupId	Party type attribute is required when source ToBusinessPartyLookupId is populated !!!	The error occurs if source is populated, but @type attribute is empty or null.
cmn:TransactionIdentifier	Transaction identifier is required !!!	The error occurs if the source is empty or null.
som:AddPickedLot cmn:ProductLotNumbers choice%1	Only one of either InternalMaterialCode OR CountryDrugCode is required !!!	The error occurs if both InternalMaterialCode and CountryDrugCode are populated.

Data Element	Error Message	Description
som:AddPickedLot cmn:ProductLotNumbers cmn:LotNumber	Lot number is required !!!	The error occurs if the source is empty or null.
som:ControlFileHeader	Data Error: ControlFileHeader occurs fewer times than its minimum number of occurrences.	The error occurs if the source is empty or null.
som:MessageBody	Data Error: MessageBody occurs fewer times than its minimum number of occurrences.	The error occurs if the source is empty or null.
som:OrderDetails	OrderDetails group is required when AddReceivedItems group is populated !!!	The error occurs if AddReceivedItems is populated, but the source is empty or null.
som:RemoveUnpickedLot cmn:ProductLotNumbers choice%1	Only one of either InternalMaterialCode OR CountryDrugCode is required !!!	The error occurs if both InternalMaterialCode and CountryDrugCode are populated.
som:RemoveUnpickedLot cmn:ProductLotNumbers cmn:LotNumber	Lot number is required !!!	The error occurs if the source is empty or null.
SOMSalesShipmentMessage	Unable to read input data for business object SOMSalesShipmentMessage due to a XML Error.	The error occurs if the source is empty or null.
@type	Valid To BusinessPartyLookupId type is required !!!	The error occurs if source is populated, but there is no entry in Master Data.
	Valid CarrierBusinessPartyLookupId type is required !!!	The error occurs if source is populated, but there is no entry in Master Data.
	Valid ShipToLocationInfo/FacilityId type is required !!!	The error occurs if source is populated, but there is no entry in Master Data.
	Valid ToBusinessPartyInfo/BusinessId type is required !!!	The error occurs if source is populated, but there is no entry in Master Data.
	Valid ShipFromLocation/FacilityId type is required !!!	The error occurs if source is populated, but there is no entry in Master Data.
	Valid CarrierBusinessPartyInfo/BusinessId type is required !!!	The error occurs if source is populated, but there is no entry in Master Data.
	Valid FromBusinessPartyInfo/BusinessId type is required !!!	The error occurs if source is populated, but there is no entry in Master Data.
	Valid From BusinessPartyLookupId type is required !!!	The error occurs if source is populated, but there is no entry in Master Data.
	Valid type attribute for country drug code is required !!!	The error occurs if CountryDrugCode is populated, but source is empty

Data Element	Error Message	Description
		or null, or is not a valid value from the enumeration list.
Class 2		
AddPickedLot/LotNumber	Specified Product Code/Lot Numbers include a container to be picked that holds multiple lots where one or more lots are not to be picked. Either disaggregate the container or specify the additional Product Code/Lot Number to be picked.	The error occurs if source from AddPickedLots includes a pallet/container that contains multiple lots, but not all lots are included in AddPickLots.
	Lot Number <LotNumber> does not exist for Product Code <ProductCode>.	The error occurs if source is invalid.
	Lot Number must specified for Product Code <ProductCode>.	The error occurs if ProductCode is populated, but the source is empty or null.
AddPickedLot/ProductCode	Product Code <ProductCode> does not exist.	The error occurs if source is invalid.
	Product Code must be specified for Lot Number <Lot Number>.	The error occurs if LotNumber is populated, but the source is empty or null.
AddPickedLot/SerialNumber	Serial Number <Serial> derived from AddPickedLots but not present either in Serialized Operations Manager or in Aggregation Events.	The error occurs if source derived from AddPickLots does not exist in Serialized Operations Manager or in any of the aggregation events.
API Key	No API Key exists for user <username> of service <servicename>. format(user.getOrDefault("null"),service.serviceName)	The error occurs if no API Key exists for the specified user.
bizTransaction @date	Transaction Identifier Date is required if Ship To Country Code = RU.	The error occurs if tl:shipToCountryCode = "RU" but the source is empty or null.
CarrierBusinessPartyLookupId	Could not perform Company Master Data lookup to populate transportation carrier business address identifier. None of the permitted regulatory identifier types were configured in your Company Master Data. Please configure a COMPANYID, DUNS, GLN, CPF, CNES, CNPJ, BR_PROF_REG, GCP, IN_COMPANY_ID, IN_LOCATION_ID, KR_BUS_REG_NUMBER, KR_PROVIDER_CODE for <ToBusinessPartyLookupId / type> <ToBusinessPartyLookupId> as appropriate for the requirement of your ship from market, and reprocess the file.	The error occurs if none of the valid regulatory identifier types exist in Master Data.
cmn:FundingSource	Funding Source is required if Ship To Country Code is RU and Ship From Country Code is RU.	The error occurs if both cmn:shipToCountryCode and cmn:shipFromCountryCode = "RU", but the source is empty or null.
cmn:TransactionIdentifier @date	Order Item Transaction Identifier Date is required if Ship To Country Code = RU.	The error occurs if tl:shipToCountryCode = "RU" but the source is empty or null.
cmn:UnitPrice	Unit Price is required if Ship To Country Code is RU and Ship From	The error occurs if cmn:ShipToCountryCode = "RU" and

Data Element	Error Message	Description
	Country Code is any of RU, AM, BY, KZ, KG.	cmn:ShipFromCountryCode = "AM", "BY", "KG", "KZ", or "RU", but the source is empty or null.
FromBusinessParty id	From Business Party SGLN, GLN, DEA or HIN number required, but not found.	The error occurs if the required source is missing or null.
FromBusinessPartyLookupId	Could not perform Master Data lookup to populate sender business address identifier. None of the permitted regulatory identifier types were configured in your Company or Partner Company Master Data. Please configure a COMPANYID, DUNS, GLN, CPF, CNES, CNPJ, BR_PROF_REG, GCP, IN_COMPANY_ID, IN_LOCATION_ID, KR_BUS_REG_NUMBER, or KR_PROVIDER_CODE for <FromBusinessPartyLookupId / type> <FromBusinessPartyLookupId> as appropriate for the requirement of your ship from market, and reprocess the file.	The error occurs if none of the valid regulatory identifier types exist in Master Data.
GLN	GLN for message sender not found.	The error occurs if source for message sender is not found.
	GLN for message recipient not found.	The error occurs if source for message recipient is not found.
inFilename, origFilename, origCompanyname, origFileDate, cntrlID	File <inFilename> is a potential duplicate match with file <origFilename> sent from <origFilename> received on <origFileDate>, based on both files having the same File Control Number <cntrlID>.	The error occurs if file is a duplicate.
Order	Unable to get Order <n> from Serialized Operations Manager (shipment id)	The error occurs if unable to get source from Serialized Operations Manager.
OrderDetails/OrderItemList	At least one OrderItem group must be provided for the order.	The error occurs if ShipFromCountryCode = KR and SalesDistributionType = EXPORTSALE or INCOUNTRYSALE, but source is empty or null.
OrderDetails/Picked Items OR Picked Lots	Delivery <Delivery Number> could not be processed. No picked item or picked lot information found for Delivery <DeliveryNumber>.	The error occurs if there are no Picked Items or Picked Lots in the back end.
OrderItemQuantity	Delivery <Delivery Number> could not be processed. Expected <Pick Quantity> for Item <Item Code>, Lot <Lot Number> but <EA Level Serial Number Count> item serial numbers were found.	The error occurs if AllowShortVerificationCount = true AND the derived quantity is greater than OrderItemQuantity AND LotNumber is included.
	Delivery <Delivery Number> could not be processed. Expected <Pick Quantity> for Item <Item Code>, but <EA Level Serial Number Count> item serial numbers were found.	The error occurs if AllowShortVerificationCount = true AND the derived quantity is greater than OrderItemQuantity AND LotNumber is <i>not</i> included.
	Delivery <Delivery Number> could not be processed. Expected <Pick Quantity> for Item <Item Code>, Lot <Lot Number> but <EA Level Serial Number Count> item serial numbers were found.	The error occurs if AllowShortVerificationCount = false AND the derived quantity is greater than OrderItemQuantity AND LotNumber is included.

Data Element	Error Message	Description
	Delivery <Delivery Number> could not be processed. Expected <Pick Quantity> for Item <Item Code>, but <EA Level Serial Number Count> item serial numbers were found.	The error occurs if AllowShortVerificationCount = false AND the derived quantity is greater than OrderItemQuantity AND LotNumber is not included.
PackagingItemCode/InternalMaterialCode	Specified Internal Material Code does not match the Internal Material Code of the serial numbers at commission time.	The error occurs if source exists in Master Data, but does not match the source that was used to commission the serial numbers.
prodCodeType, serialNumber	Product code type <prodCodeType> on serial number <serialNumber> was not recognized. Only US NDC product codes are supported.	The error occurs if the product code type on a specified serial number is not recognized.
product code type	invalid product code type: <product code type>	The error occurs if the source is invalid.
ReceiverInfo	Serialized Operations Manager Receipt inbound processing could not be completed. The ReceiverInfo with either ToBusinessPartyLookupId or ToBusinessPartyInfo for the ShipFromCountryCode of <ShipFromCountryCode> and ShipToCountryCode of <ShipToCountryCode> must be specified.	The error occurs if - Transfer or Sale occurs in non-EU FMD markets where the ShipToCountryCode is not an EU FMD country and the ShipFromCountryCode is not an EU FMD country. - Transfer or Sale Export occurs from the EU FMD markets where the ShipToCountryCode is China, US, South Korea, or Russia and the ShipFromCountryCode is an EU FMD country.
	Serialized Operations Manager Receipt inbound processing could not be completed. Both the ShipToCountryCode and ShipFromCountryCode must be specified when the Sender Info and ReceiverInfo are not specified.	The error occurs if ReceiverInfo and the source are both empty or null, and both the ShipToCountryCode and ShipFromCountryCode are empty or null.
RemovePickedLot/LotNumber	Lot Number <LotNumber> does not exist for Product Code <ProductCode>.	The error occurs if the source is invalid.
	Lot Number must specified for Product Code <ProductCode>.	The error occurs if ProductCode is populated, but the source is empty or null.
RemovePickedLot/ProductCode	Product Code <ProductCode> does not exist.	The error occurs if the source is invalid.
	Product Code must be specified for Lot Number <Lot Number>.	The error occurs if LotNumber is populated, but the source is empty or null.
Retries	Retries exceeded the maximum wait time <n> seconds. format (maxSecondsToWait)	The error occurs if source exceeds maximum wait time in seconds.
SenderInfo	Serialized Operations Manager Receipt inbound processing could not be completed. Both the ShipToCountryCode and ShipFromCountryCode must be specified when the Sender Info and ReceiverInfo are not	The error occurs if ReceiverInfo and the source are both empty or null, and both the ShipToCountryCode and ShipFromCountryCode are empty or null.

Data Element	Error Message	Description
	specified.	
	Serialized Operations Manager Receipt inbound processing could not be completed. The SenderInfo with either FromBusinessPartyLookupId or FromBusinessPartyInfo for the ShipFromCountryCode of <ShipFromCountryCode> and ShipToCountryCode of <ShipToCountryCode>.	The error occurs if - Transfer or Sale occurs in non-EU FMD markets where the ShipToCountryCode is not an EU FMD country and the ShipFromCountryCode is not an EU FMD country. - Transfer or Sale Export occurs from the EU FMD markets where the ShipToCountryCode is China, US, South Korea, or Russia and the ShipFromCountryCode is an EU FMD country.
SerialNumber, ProductCode, LotNumber	Serial Number <SerialNumber> for Product Code/Lot Number <Product Code>/<Lot Number> can not be specified in both AddPickedItems and AddPickedLots when that serial number is also specified in the Aggregation.	The error occurs if the SerialNumber from ProductCode/LotNumber derived from AddPickLots is also populated in AddPickedItems and Aggregation.
SGLN	SGLN for ship from location not found.	The error occurs if source cannot be found.
Ship From Location	Ship From Location was not specified and is required.	The error occurs if a required field is empty or null.
Ship To Location	Ship To Location was not specified and is required.	The error occurs if a required field is empty or null.
ShipFromLocation id	Ship From Location SGLN, GLN, DEA or HIN number required, but not found.	The error occurs if the required source is missing or null.
ShipFromLocationLookupId	Could not perform Location Master Data lookup to populate the sender shipping address identifier. None of the permitted regulatory identifier types were configured in your Location Master Data. Please configure a COMPANYSITEID, DEA, DUNS4, GLN, HIN, SGLN, CPF, CNES, CNPJ, BR_PROF_REG, HIN, GCP, IN_LOCATION_ID, KR_BUS_REG_NUMBER, or KR_PROVIDER_CODE for <ShipFromLocationLookupId / type> <ShipFromLocationLookupId> as appropriate for the requirement of your ship from market, and reprocess the file.	The error occurs if none of the valid regulatory identifier types exist in Master Data.
ShipToLocation id	Ship To Location SGLN, GLN, DEA or HIN number required, but not found.	The error occurs if the required source is missing or null.
ShipToLocationLookupId	Could not perform Location Master Data lookup to populate the receiving address identifier. None of the permitted regulatory identifier types were configured in your Location Master Data. Please configure a COMPANYSITEID, DEA, DUNS4, GLN, HIN, SGLN, CPF, CNES, CNPJ, BR_PROF_REG, HIN, GCP, IN_LOCATION_ID, KR_BUS_REG_NUMBER,	The error occurs if none of the valid regulatory identifier types exist in Master Data.

Data Element	Error Message	Description
	or KR_PROVIDER_CODE for <ShipToLocationLookupId / type> <ShipToLocationLookupId> as appropriate for the requirement of your ship from market, and reprocess the file.	
salesDistributionType	Serial Numbers with Recalled status cannot be shipped.	(missing or bad snippet) salesDistrubutionType = INCOUNTRYSALE or EXPORTSALE for sales shipments, but one or more serial numbers have a Recalled reason code.
Sold From Party	Sold From Party was not specified and is required.	The error occurs if a required field is empty or null.
Sold To Party	Sold To Party was not specified and is required.	The error occurs if a required field is empty or null.
ToBusinessParty id	To Business Party SGLN, GLN, DEA or HIN number required, but not found.	The error occurs if the required source is missing or null.
ToBusinessPartyLookupId	Could not perform Company Master Data lookup to populate receiver business address identifier. None of the permitted regulatory identifier types were configured in your Company Master Data. Please configure a COMPANYID, DUNS, GLN, CPF, CNES, CNPJ, BR_PROF_REG, GCP, IN_COMPANY_ID, IN_LOCATION_ID, KR_BUS_REG_NUMBER, KR_PROVIDER_CODE for <ToBusinessPartyLookupId / type> <ToBusinessPartyLookupId> as appropriate for the requirement of your ship from market, and reprocess the file.	The error occurs if none of the valid regulatory identifier types exist in Master Data.
transaction id	Invalid transaction identifier: PO, ASN, or INVOICE number required.	The error occurs if the source is invalid.
Transaction Type	Unknown Transaction Type!	The error occurs if source is unknown.
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

Sales Shipment (EPCIS v1.2)

Guidelines

Use this message when shipping product as a sale (i.e. the shipment is not a transfer or return).

To submit both shipment information and serial numbers in this message, all shipment data must originate from the same system. If shipment information and serial numbers must be submitted separately (e.g. because shipment information is managed in a separate ERP system), use a combination of this

message and the Sales Shipment (XML) message (i.e. submit the Sales Shipment (XML) message containing the shipment information and set the DeliveryComplete flag to "false", and then submit the Sales Shipment (EPCIS v1.2) message containing the bizTransactionID and serial numbers only).



- When product changes ownership from an MAH, or a CMO or 3PL acting on behalf of an MAH, to another entity, an outbound shipment is generated and the serial numbers are put into a **shipped** state.
- When product is moving between locations (i.e. not a change of ownership) working on behalf of an MAH, an inbound shipment is generated and the serial numbers are put into a **pending receipt** state.

This message uses the Park and Retry functionality. If a prerequisite condition for this message has not been met, TraceLink stops processing the task, returns the task to the queue, and then tries to process the task again every 15 minutes for up to 4 hours.

Message Type: SOM_SALES_SHIPMENT

Info Exchange Display Name: Sales Shipment

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

⚠ NTINs *must* follow the [GS1 Guidance](#) standards as found on the GS1 website.

- Ex: urn:epc:id:sgtin:415001647778.0.100000000022
- Format: urn:epc:id:sgtin:[company prefix].[indicator digit][item ref].[serial number]

Information regarding NTINs cannot be exchanged with trade partners unless the specific format outlined above is followed. If using an NTIN without following this format, an outbound error occurs when passing data from TraceLink to a trade partner.

Data Element	Occurs Length	Format	Description
epcis:EPCISDocument	1...1 -	-	Required. EPCIS message root element.

Data Element				Occurs Length	Format	Description
	@schemaVersion			1...1 0/*	Decimal	Required. The version of the EPCIS schema used to populate the EPCIS document elements. Must equal 1.2. ¹
	@creationDate			1...1 1/*	DateTime	Required. Date the message was created in YYYY-MM-DDTHH:MM:SS:mmZ format. ²
	EPCISHeader			0...1 -	-	Required. The XML file control header.
	sbdh:StandardBusinessDocumentHeader			1...1 -	-	Required. Business header information including EPCIS Header Version, Sender, and Receiver information, along with the document identification.
		sbdh:HeaderVersion		1...1 0/*	String	Required. Version of the Standard Business Document Header (SBDH). The HeaderVersion must be set to 1.0. ³
		sbdh:Sender		1...* -	-	Required. A unique identification key for the Sender party of the message, representing the organization that created the standard business document. The Sender element must be used only once with GS1 XML messages.
			sbdh:Identifier	1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type.⁴ SGLN and all other party types should be sent with GS1 compliant uri prefix, for example: - urn:epc:id:sgln:088202.867701.0 - http://epcis.gs1us.org/hc/dea/loc/10023141  GLNs do not have an urn/http prefix. See the MDPartyTypeAttributes enumeration list for valid values.
			@Authority	1...1 1/*	String	Required. The sender identifier type. The Authority was previously expected to be set to GLN for GS1 XML messages. An update made in December 2016 changed this to accept additional values. ⁵ See the BusinessAndLocationId enumeration list for valid values.
		sbdh:Receiver		1...* -	-	Required. Indicates a unique identification key for the direct Receiver party of the message, representing the organization that receives the standard business document. The Receiver element is used only once with GS1 XML messages.

¹1.2²2018-01-31T22:08:02Z³1.0⁴1100001014507⁵GLN

Data Element					Occurs Length	Format	Description
				sbdh:Identifier	1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type.¹ SGLN and all other party types should be sent with GS1 compliant uri prefix, for example: <code>urn:epc:id:sgln:088202.867701.0</code> <code>http://epcis.gs1us.org/hc/dea/loc/10023141</code>  GLNs do not have an urn/http prefix. See the MDPartyTypeAttributes enumeration list for valid values.
				@Authority	1...1 1/*	String	Required. The receiver identifier type. The Authority was previously expected to be set to <code>GLN</code> for GS1 XML messages. An update made in December 2016 changed this to accept additional values.² See the BusinessAndLocationId enumeration list for valid values.
				sbdh:DocumentIdentification	1...1 -	-	Required. Contains the identification group for the message.
				sbdh:Standard	1...1 0/*	String	Required. Name of the document standard contained in the file or message. The standard value for this field is <code>EPCglobal</code> . ³
				sbdh:TypeVersion	1...1 0/*	String	Required. Reflects the version of the document included. This is the complete version of the document itself and is different from the HeaderVersion as these are hard-coded values. The TypeVersion is set to <code>1.0</code> . ⁴
				sbdh:InstanceIdentifier	1...1 1/*	String	Required. Reference information that uniquely identifies this instance of the Standard Business Document between the Sender and the Receiver. This identifier confirms this document as being distinct from others. ⁵
				sbdh:Type	1...1 0/*	String	Required. This element identifies the type of the document. The Type must equal <code>Events</code> . ⁶
				sbdh:CreationDateAndTime	1...1 0/*	DateTime	Required. The date and time of the SBDH document's creation. GMT create date and time for the EPCIS message. The system expects the <code>Z</code> to be appended; however, if it is not included, the system assumes that the time is GMT and therefore appends the <code>Z</code> . ⁷

¹0614141123452²GLN³EPCglobal⁴1.0⁵201801311745200001⁶Events⁷2018-01-31T22:08:02Z

Data Element								Occurs Length	Format	Description
							extension	0...1 -	-	Header extension area with master data attributes.
							EPCISMasterData	0...1 -	-	Master data extension header. May contain business and ship party address information. i Full GS1 compliance requires that all product and party master data be stored in the EPCIS header extension EPCISMasterData / VocabularyList / Vocabulary / VocabularyElementList / VocabularyElement. It is strongly urged that all product master data for Commissioning and Transformation events be sent in the VocabularyElement within the EPCISMasterData header extension. If there is no partner address data in the header extensions, the identifiers in the Source and Destination lists are used for partner master data lookup by the system.
							VocabularyList	1...1 -	-	Required. The Vocabulary list group of master data elements.
							Vocabulary	0...* -	-	Looping vocabulary element with discrete partner master data element groups. Vocabulary occurs only once for all party address info present in the message, if the group is populated. Group is optional. If it does not appear in master data header extension, no error will be thrown.
							@type	1...1 0/*	String	Conditionally required if master data elements are present. Vocabulary type identifying location master data elements. Master data type defined by VocabularyElement @id. Valid value: <code>urn:epcglobal:epcis:vtype:Location</code> = party master data.¹ i Sold from, ship from, sold to, ship to for the shipping event are all tracked in the header master data. Party data in shipping event is mapped from header master in Vocabulary.
							VocabularyElementList	0...1 -	-	List of vocabulary elements that includes all partner master information. Party identifiers and address info are stored in instances of the looping group VocabularyElement .
							VocabularyElement	1...* -	-	Required. Looping group header for data elements that identify all business party and location master data, including identifiers, identifier types, and address info. VocabularyElement repeats once for each party type: - Sold/Transfer from business party (Mandatory, if the group is populated). - Ship from location (Optional). - Sold/Transfer to business party (Mandatory, if the group is populated). - Ship to location (Optional).

¹urn:epcglobal:epcis:vtype:Location

Data Element								Occurs Length	Format	Description
										Master data lookup is supported. If partner master data is available in TraceLink, indicate master data lookup by sending partner identifiers in the sourceList and/or destinationList of the shipping event and DO NOT include address data in any VocabularyElement group. If master data lookup IS NOT intended, send complete address information for at least the sold-from and sold-to partners in the header master data extension. Ship-from and ship-to addresses can also be included.
							@id	1...1 0/*	String	Required. SGLN or other partner identifier and type for party master data in the VocabularyElement. Must match sourceList or destinationList owning or location party in the shipping event from either:¹ • //ObjectEvent/extension/sourceList/source (transfer from, carrier) • //ObjectEvent/extension/destinationList/destination (transfer to) The identifier value is mandatory for regulatory reporting. The identifier type must include a valid urn or http string prefix. Valid prefix formats include: • GS1: <code>urn:epc:id:sgln:<CompanyPrefix>.<LocationReference>.<Extension></code> • GS1 USHC: <code>http://epcis.gs1us.org/hc/<identifierType>/loc/<identificationValue></code> • TraceLink: <code>http://epcis.tracelink.com/hc/<identifierType>/loc/<identificationValue></code> Only SGLNs are supported, not GLNs. Different countries require different values as noted below. See the MDPartyTypeAttributes enumeration list for valid values.
							attribute (1)	1...1 0/*	String	Conditionally required if attribute (2) is present. Looping Name/Value pairs identifying partner address master data elements. This is the value element in the Name/Value pair attribute @id. Stores master data item value defined by @id.² Partner master data items currently supported: • Business name - Mandatory if address populated in VocabularyElement. • Business classification - Optional. • Street address 1 - Mandatory if address populated. • Street address 2 - Optional. • City - Mandatory if address populated. • District - Optional.

¹urn:epc:id:sgln:088202.867701.0²Kendall Pharma

Data Element								Occurs Length	Format	Description
										- State/Province/Region - Mandatory if address populated. - Postal code - Optional. - Country code - Mandatory if address populated. Create one instance of the Name/Value pair attribute and @id for each master data element returned.
							@id	1...1 0/*	String	Conditionally required if attribute (1) is populated. Provides the name in the Name/Value pair attribute @id. Identifies the master data value stored in the attribute value element, using the urn or http prefix. Valid values:¹ <code>urn:epcglobal:cbv:mda#name</code> <code>urn:epcglobal:cbv:mda#streetAddressOne</code> <code>urn:epcglobal:cbv:mda#streetAddressTwo</code> <code>urn:epcglobal:cbv:mda#streetAddressThree</code> <code>urn:epcglobal:cbv:mda#city</code> <code>http://epcis.tracelink.com/mda/district</code> <code>http://epcis.tracelink.com/mda/village</code> <code>http://epcis.tracelink.com/mda/houseNumber</code> <code>http://epcis.tracelink.com/mda/township</code> <code>http://epcis.tracelink.com/mda/corporateFax</code> <code>urn:epcglobal:cbv:mda#state</code> <code>urn:epcglobal:cbv:mda#postalCode</code> <code>urn:epcglobal:cbv:mda#countryCode</code> <code>http://epcis.tracelink.com/mda/AddressObjectGUID</code> <code>http://epcis.tracelink.com/mda/HouseGUID</code> <code>http://epcis.tracelink.com/mda/premisesCode</code> <code>http://epcis.tracelink.com/mda/taxRegistrationCode</code> <code>http://epcis.tracelink.com/mda/partyRoleCode</code> See the MDAttributes enumeration list for valid values.

¹urn:epcglobal:cbv:mda#name

Data Element								Occurs Length	Format	Description
							attribute (2)	0...* 0/*	String	Conditionally required if attribute (1) is present. Looping Name/Value pairs identifying additional party identifier elements. This is the value element in the Name/Value pair attribute @id. Stores additional party identifiers and identifier types defined by @id.¹ Partner master data items currently supported: • Additional party identifier - Optional (1 or more supported). • Additional party identifier type - Optional (1 or more supported). Create one instance of the Name/Value pair attribute and [@id] for each master data element returned. Must send the additional party identifiers in a double attribute combination using the following sequence: 1. Attribute 1 identifies and provides the party identifier value. 2. Attribute 2 identifies the party identifier type. For example: 1. <attribute id="http://epcis.tracelink.com/mda/additionalPartyIdentificationValue">10023141</attribute> 2. <attribute id="http://epcis.tracelink.com/mda/additionalPartyIdentificationTypeCode">DUNS_PLUS_FOUR</attribute> OR 1. <attribute id="http://epcis.tracelink.com/mda/additionalIdentifier">10023141</attribute> 2. <attribute id="http://epcis.tracelink.com/mda/additionalIdentifierType">DUNS4</attribute>  If this sequence of double attributes is not followed for additional party identifiers, the additional party identifier will <i>not</i> be mapped to the TraceLink system and no error will be thrown.  Only one of the following values may be used per message: • RU_INN_FOREIGN_ENTITY • RU_INN_INDIV • RU_INN_LOCAL_ENTITY See the BusinessAndLocationId enumeration list for valid values.

¹10023141

Data Element									Occurs Length	Format	Description
							@id		1...1 0/*	String	Conditionally required if attribute (2) is populated. Provides the name in the Name/Value pair attribute @id. Identifies the master data value stored in the attribute value element, using the urn or http prefix. Valid values:¹ http://epcis.tracelink.com/mda/additionalPartyIdentificationTypeCode http://epcis.tracelink.com/mda/additionalPartyIdentificationValue See the MDAttributes enumeration list for valid values.
							EPCISBody		1...1 -	-	Required. Contains all of the EPCIS events for this message.
							EventList		1...1 -	-	Required. EventList supports the following events for Serialized Operations Manager Sales Shipment: AggregationEvent - 0 or more packing aggregations allowed. Optional. ObjectEvent Shipping - Only 1 allowed. Mandatory.
							choice%1		1...1 -	Choice	Required. Only one of the following choice options may be selected in any one loop on EPCISBody/EventList: ObjectEvent Shipping AggregationEvent
							AggregationEvent		0...* -	-	AggregationEvent is option 2 for the EventList choice for the Aggregation events. EventList = AggregationEvent when all of the following is true: bizStep = urn:epcglobal:cbv:bizstep:packing action = ADD disposition = urn:epcglobal:cbv:disp:in_progress
							eventTime		1...1 1/*	DateTime	Required. Timestamp of date/time when the event occurred. Include a time zone indicator as specified in Section 9.5 of [EPCIS1.0.1]. ²
							eventTimeZoneOffset		1...1 1/*	String	Required. Time zone offset in effect time and place where the event occurred, consistent with what choice was made for eventTime . Per Section 7.2.8 of [EPCIS1.0.1]. ³
							parentID		1...1	AnyURI	Required. Identifier of the parent container in EPC Pure Identity URI format. ⁴

¹<http://epcis.tracelink.com/mda/additionalPartyIdentificationValue>²2018-01-31T22:08:02Z³-04:00⁴<urn:epc:id:sgtin:088202.5503022.100000000670> <urn:epc:id:sscc:088202.002000000034> <http://epcis.tracelink.com/hc/cn-edmc/obj/88102301100002005943><http://epcis.tracelink.com/hc/ntin/obj/4150.001647778.100000000002>

Data Element					Occurs Length	Format	Description
							Examples: - For an item-to-case aggregation, the EPC of the case. - For a case-to-pallet aggregation, the EPC of the pallet. CN EDMC: - Format: http://epcis.tracelink.com/obj/cn-edmc/[serial number] - Ex: http://epcis.tracelink.com/obj/cn-edmc/88102321100002005943 NTIN: - Format: http://epcis.tracelink.com/obj/ntin/[company prefix].[item reference].[serial number] - Ex: http://epcis.tracelink.com/obj/ntin/4150.001647778.100000000002 SGTIN: - Format: urn:epc:id:sgtin:[company prefix].[indicator digit + item reference].[serial number] - Ex: urn:epc:id:sgtin:068202.0401034.11220207026272 SSCC: - Format: urn:epc:id:sscc:[company prefix].[extension digit + serial number] - Ex: urn:epc:id:sscc:030944.10105363280
				childEPCs	1..1 -	-	Required. List of identifiers of the child items in the parent container in EPC Pure Identity URI format. Examples: - For an item-to-case aggregation, the EPCs of the items. - For a case-to-pallet aggregation, the EPCs of the cases.
				epc	1...* 1/*	String	Required. Identifier of the parent container in EPC Pure Identity URI format.¹ CN EDMC: - Format: http://epcis.tracelink.com/obj/cn-edmc/[serial number] - Ex: http://epcis.tracelink.com/obj/cn-edmc/88102321100002005943 NTIN: - Format: http://epcis.tracelink.com/obj/ntin/[company prefix].[item reference].[serial number] - Ex: http://epcis.tracelink.com/obj/ntin/4150.001647778.100000000002

¹<urn:epc:id:sgtin:088202.5503022.1000000000670> <urn:epc:id:sscc:088202.002000000034> <http://epcis.tracelink.com/hc/cn-edmc/obj/88102301100002005943>
<http://epcis.tracelink.com/hc/ntin/obj/4150.001647778.100000000002>

Data Element						Occurs Length	Format	Description
								SGTIN: - Format: urn:epc:id:sgtin:[company prefix].[indicator digit + item reference].[serial number] - Ex: urn:epc:id:sgtin:068202.0401034.11220207026272 SSCC: - Format: urn:epc:id:sscc:[company prefix].[extension digit + serial number] - Ex: urn:epc:id:sscc:030944.10105363280
				action		1...1 1/*	String	Required. The action value must equal ADD for the aggregation event. ¹
				bizStep		0...1 0/*	AnyURI	The bizStep value must equal urn:epcglobal:cbv:bizstep:packing . ²
				disposition		0...1 0/*	AnyURI	The disposition value must equal urn:epcglobal:cbv:disp:in_progress . ³
				readPoint		0...1 -	-	Refers to the location of where the commissioning event occurred. Structure: urn:epc:id:sgln:<GS1 company prefix>.<locationId>.<subLocationId>  To represent the facility where the commissioning event occurred, only use the SGLN representation. If no subLocation, third segment = 0.
				id		1...1 0/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ⁴
				extension		0...1 -	-	Not Used - GS1 Reserved.
				bizLocation		0...1 -	-	Required. The location where the event occurred.  Mandatory for AggregationEvent.

¹ADD²urn:epcglobal:cbv:bizstep:packing³urn:epcglobal:cbv:disp:in_progress⁴urn:epc:id:sgln:1100001.12345.0

Data Element						Occurs Length	Format	Description
					id	1...1 0/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ¹
					bizLocationList	0...1 -	-	Not used.
					tl:aggregationEventExtensions	0...1 -	-	Extensions used for the Aggregation Event.
					tl:packedStatus	0...1 0/*	String	Indicates the packaging status of the container (e.g. <code>full</code> , <code>partial</code>). See the PackedStatus enumeration list for valid values.
					tl:quantity	0...1 0/*	Integer	The quantity of items at the aggregation level.
					tl:filterValue	0...1 0/*	String	The filter value used in GTN-14 and SSCC serial numbers.
					tl:packagingLevel	0...1 0/*	String	The packaging level of the commissioned item using the supported enumeration values. ² See the PackagingLevel enumeration list for valid values.
					tl:epcOrderItemDetails	0...1 -	-	Group header with specific link between tl:orderItemNumber in the ObjectEvent for Shipping Events and the epc serial number.
					tl:epcOrderItemList	1...* -	-	Group header.
					@orderItemNumber	0...1 0/*	String	List of serial numbers associated with the pricing and tax information in the current instance of the ItemOrder .
					tl:epcOrderItem	1...* 0/*	String	Order item number attribute associating specific serial numbers to the price, VAT, and cost taxes reported in a specific instance of OrderItem , in EPC Pure Identity URI format.
					ObjectEvent	1...1 -	-	Required. EventList. Data = ObjectEvent for Shipping Events. EventList = ObjectEvent Shipping when all of the following is true: • bizStep = <code>urn:epcglobal:cbv:bizstep:shipping</code> • action = <code>OBSERVE</code>

¹urn:epc:id:sgln:1100001.12345.0²CA

Data Element				Occurs Length	Format	Description
						disposition = <code>urn:epcglobal:cbv:disp:in_transit</code>
			eventTime	1...1 1/*	DateTime	Required. Timestamp of date/time when the event occurred. Must include a time zone indicator as specified in Section 9.5 of [EPCIS1.0.1] in XML datetime format YYYY-MM-DDTHH:MM:SS.mmZ. ¹
			eventTimeZoneOffset	1...1 1/*	String	Required. Time zone offset in effect at time and place where the event occurred, consistent with what choice was made for eventTime . Per Section 7.2.8 of [EPCIS1.0.1]. ²
			epcList	1...1 -	-	Required. List of the EPCs of top most containers (e.g. pallets, cases) in the shipment.
			epc	1...* 1/*	String	Required. Identifier of the parent container in EPC Pure Identity URI format. See EPC Pure Identifier Format Examples for formats. ³
			action	1...1 0/*	String	Required. The action value must equal <code>OBSERVE</code> . ⁴
			bizStep	0...1 0/*	AnyURI	Required. The business process. Valid values: ⁵ <code>urn:epcglobal:cbv:bizstep:shipping</code> – the shipment is submitted. <code>urn:epcglobal:cbv:bizstep:picking</code> – the shipment is unsubmitted. Use this value to allow the shipment to be completed at a later time, such as when all required information is known, or to allow another party to complete the shipment.
			disposition	0...1 0/*	AnyURI	Required. The current condition of the serial number in relation to the business process. Valid values: ⁶ <code>urn:epcglobal:cbv:disp:in_transit</code> – the serial number is in transit. <code>urn:epcglobal:cbv:disp:in_progress</code> – the serial number is in an unsubmitted shipment message.

¹2018-01-31T22:08:02Z²-04:00³

urn:epc:id:sgtin:068202.0401034.11220207026272

urn:epc:id:sscc:030944.10105363280

http://epcis.tracelink.com/hc/cn-edmc/obj/88102301100002005943

http://epcis.tracelink.com/hc/ntin/obj/4150.001647778.1000000000002

⁴OBSERVE⁵urn:epcglobal:cbv:bizstep:shipping⁶urn:epcglobal:cbv:disp:in_transit

Data Element					Occurs Length	Format	Description
							⚠ The value of disposition depends on the bizStep value: - If bizStep equals <code>urn:epcglobal:cbv:bizstep:shipping</code>, disposition must equal <code>urn:epcglobal:cbv:disp:in_transit</code>. - If bizStep equals <code>urn:epcglobal:cbv:bizstep:picking</code>, disposition must equal <code>urn:epcglobal:cbv:disp:in_progress</code>.
				readPoint	0...1 -	-	Required. Refers to location of where the commissioning event occurred. Structure: <code>urn:epc:id:sgln:<GS1 company prefix>.<locationId>.<subLocationId></code> ⓘ To represent the facility where the commissioning event occurred, only use the SGLN representation. If no subLocation, third segment = 0.
				id	1...1 0/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ¹
				bizLocation	0...1 -	-	Not Used.
				id	1...1 1/*	AnyURI	Required. Not Used.
				bizTransactionList	0...1 -	-	Conditionally required if bizStep = <code>urn:epcglobal:cbv:bizstep:shipping</code> .
				bizTransaction	1...* 0/*	AnyURI	Required. The business transaction identifiers for the Dispatch Advice (Advance Ship Notice) and/or Invoice and/or Purchase Order governing this shipment, subject to Section 8.4.2 of [CBV1.0].² The GLN that occurs after <code>urn:epcglobal:cbv:bt:</code> is the GLN of the party that issued the number (e.g. if customer issues PO Number, customer GLN is entered. If supplier issues ASN/delivery number, supplier GLN is entered). ⚠ A delivery number or ASN is mandatory. All other transaction types are optional.

¹urn:epc:id:sgln:0614141.12345.RP1²urn:epcglobal:cbv:bt:0614141000029:9847856

Data Element						Occurs Length	Format	Description
					@type	1...1 1/*	String	Required. The transaction identifier type.¹  A delivery number or ASN is mandatory. All other transaction types are optional.  Mandatory if cmn:TransactionIdentifier is populated. See the TransactionId enumeration list for valid values.
					@date	0...1 0/*	Date	Required. The transaction identifier date.²
				extension		1...1 -	-	Conditionally required even if party address master data is stored in the VocabularyElement in the EPCISMasterData extension in the message header. Main extension body for shipping event.
					sourceList	0...1 -	-	Required. Source list identifies sending business, location, and carrier parties. Source list supports one of two functions: VocabularyElement is populated with party address master data: sourceList identifies sold-from, ship-from, or carrier party. Party master data is mapped from VocabularyElement. VocabularyElement is not populated with party address master data: sourceList party identifiers used for master data lookup in backend.
					source	1...* 0/*	String	Required. Source party identifier for sold-from, ship-from, or carrier parties. Party identifier in source either:³ - Identifies sold-from, ship-from, or carrier party in populated VocabularyElement. Party address info is mapped from VocabularyElement. Nothing is mapped from VocabularyElement if there is no match between party identifier in sourceList/source and VocabularyElement(@id). sourceList/source supports master data lookup in TraceLink system. VocabularyElement is not populated or there is no match between party identifiers in source and VocabularyElement(@id). If ship-from party the same as sold-from party, ship-from identifier does not need to be sent.  If the ship-from party is the same as the sold-from party, the ship-from identifier does not need to be sent. See the MDPartyTypeAttributes enumeration list for valid values.

¹urn:epcglobal:cbv:btt:desadv²2019-03-30³urn:epc:id:sgln:088202.867701.0

Data Element								Occurs Length	Format	Description
						@type		1...1 0/*	String	Required. Type of source party identifier (i.e. owning party). Identifies sold-from, ship-from, or carrier (for Brazil) party in header extension VocabularyElement instance. Valid values:¹ - Sold-from party = <code>urn:epcglobal:cbv:sdt:owning_party</code>. - Ship-from party = <code>urn:epcglobal:cbv:sdt:location</code> (only include if identifier different from owning_party). - Carrier party = <code>http://epcis.tracelink.com/sdt/carrier_party</code> (for Brazil).  Mandatory if source is populated.
					destinationList			0...1 -	-	Destination list identifies receiving business or location parties. Destination list supports one of two functions: VocabularyElement is populated with party address master data: destinationList identifies sold-to, ship-to parties. Party master data is mapped from VocabularyElement. VocabularyElement is not populated with party address master data: destinationList party identifiers used for master data lookup in the backend.
						destination		1...* 0/*	String	Destination party identifier for sold-to or ship-to parties. Party identifier in destination either:² - Identifies sold-to or ship-to parties in populated VocabularyElement. Party address info is mapped from VocabularyElement. Nothing is mapped from VocabularyElement if there is no match between party identifier in destinationList/destination and VocabularyElement(@id). destinationList/destination supports master data lookup in TraceLink system. VocabularyElement is not populated or there is no match between party identifiers in destination and VocabularyElement(@id). If ship-to party is the same as sold-to party, ship-to identifier does not need to be sent. See the MDPartyTypeAttributes enumeration list for valid values.
						@type		1...1 0/*	String	Required. Identifies type of destination party identifier, i.e. owning (sold-to) or location (ship-to) party. Valid values:³ - Sold-to party = <code>urn:epcglobal:cbv:sdt:owning_party</code> (conditional). - Ship-to party = <code>urn:epcglobal:cbv:sdt:location</code> (only include if identifier different from owning_party).

¹urn:epcglobal:cbv:sdt:owning_party²urn:epc:id:sgln:033333.101365.0³urn:epcglobal:cbv:sdt:owning_party

Data Element					Occurs Length	Format	Description
				tl:shippingEventExtensions	0...1 -	-	Extensions used for Shipping Event.
				tl:transactionDate	1...1 -	Date	Required. Date associated with the business transaction document in bizTransactionList in YYYY-MM-DD format. This date may or may not be the same as the eventTime . ¹
				tl:shipToCountryCode	1...1 2/2	String	2 or 3-letter ISO country code for ship to country. ² <i>i</i> This value is referenced to advise regulatory reporting if it is mandatory for the specified country market. Setting this value alone does not trigger regulatory reporting. Actual triggering of regulatory reporting is governed by customer administrative configuration in TraceLink .
				tl:shipFromCountryCode	0...1 2/2	String	Conditionally required if product is being exported from country (e.g. if SalesDistributionType = EXPORTSALE or EXPORTTRANSFER or EXPORTRETURN). 2 or 3-letter ISO country code for ship from country. Provides application with the information it needs to trigger regulatory reporting in response to relevant events. ³
				tl:salesDistributionType	1...1 1/*	String	Required. To set this value, compare the ship from country with the ship to country. Valid values: ⁴ INCOUNTRYSALE: If ship from country = ship to country (indicates a sale within the same country). EXPORTSALE: If ship from country does not equal ship to country (indicates a sale that is an export to another country). INCOUNTRYTRANSFER: A transfer within a company or with a partner such as 3PL or contract manufacturer / packager, occurring within the same country. EXPORTTRANSFER: A transfer within a company or with a partner such as 3PL or contract manufacturer / packager, made from one country to another. INCOUNTRYRETURN: A shipment for a return of goods to the supplier, shipping within the same country. EXPORTRETURN: A shipment for a return of goods to the supplier, shipping from one country to another. <i>i</i> This value is referenced to advise regulatory reporting of exportation, if it is mandatory for the specified

¹2018-01-31²US³US⁴INCOUNTRYSALE

Data Element						Occurs Length	Format	Description
								country market. Setting this value alone does not trigger regulatory reporting. Actual triggering of regulatory reporting is governed by customer administrative configuration in TraceLink . See the SalesDistType enumeration list for valid values.
					tl:supplyType	0...1 0/*	String	Conditionally required depending on the country. Identifies the type of supply that is being performed using one of the permitted values.¹  Country Requirements: - For Korea: tl:shipToCountryCode = KR and SalesDistributionType = EXPORTSALE or EXPORTRETURN; All values except for Collection apply. - For Brazil: Populate only if performing Collection, Donation, or SampleDistribution. See the SupplyType enumeration list for valid values.
					tl:contractType	0...1 0/*	String	Conditionally required if tl:shipFromCountryCode = KR and SalesDistributionType = EXPORTSALE or INCOUNTRYSALE. Identifies if a private or competitive bid contract is used for the sale of goods. See the ContractType enumeration list for valid values.
					tl:dropShipmentIndicator	0...1 0/*	Boolean	Indicates if shipment is a drop shipment. ²
					tl:comments	0...1 0/*	String	Optional remarks or comments associated with delivery.
					tl:warehouseOperatorName	0...1 0/*	String	Name of the person responsible for warehouse operations. ³
					tl:correctiveShipment	0...1 0/*	String	Corrective shipment flag is set when shipment is used to replace a previously voided shipment. Valid values:⁴ true false

¹PatientDistribution²false³John Smith⁴true

Data Element					Occurs Length	Format	Description
				tl:originalDeliveryNumber	0...1 0/*	String	Conditionally required if correctiveShipment flag = true . Used to identify previous delivery that was voided and is being replaced by current delivery. ¹
				tl:disaggregateFromParent	0...1 0/*	Boolean	When set to true , the system disaggregates the picked serial number from the parent container, if it is aggregated. If not set, or set to false , TraceLink generates an error if attempting to pick serial number for an item or container that is aggregated to a parent.
				tl:contractNumber	0...1 0/*	String	Identification number of the contract. ²
				tl:fundingSource	0...1 0/*	String	Required. Source of the funding. ³ See the FundingSource enumeration list for valid values.
				tl:entryPort	0...1 0/*	String	Name of the shipment's port of entry into a country (e.g. an airport, maritime port, border checkpoint).
				tl:exitPort	0...1 0/*	String	Name of the shipment's port of exit from a country (e.g. an airport, maritime port, border checkpoint).
				tl:deliveryInspection	0...1 0/*	String	The inspection status of the physical delivery against the delivery documentation. See the DeliveryInspection enumeration list for valid values.
				tl:deliveryInspectionDate	0...1 10/10	Date	The date of the physical delivery inspection against the delivery documentation in YYYY-MM-DD format. ⁴
				tl:deliveryInspectionNote	0...1 0/*	String	Comments about the physical delivery inspection against the delivery documentation.
				tl:removalFromCirculation	0...1 0/*	String	Reason the product in the delivery is taken out of the supply chain. See the RemovalFromCirculation enumeration list for valid values.
				tl:aggregationInspection	0...1 0/*	String	The inspection status of the aggregation hierarchy of the container. See the AggregationInspection enumeration list for valid values.
				tl:epcOrderItemDetails	0...1 -	-	Group header with specific link between tl:orderItemNumber in the ObjectEvent for Shipping Events and the epc serial number.

¹H9022413²1234567³FederalBudgetFunds⁴2021-12-21

Data Element							Occurs Length	Format	Description
						tl:epcOrderItemList	1...* -	-	Group header.
						@orderItemNumber	0...1 0/*	String	List of serial numbers associated with the pricing and tax information in the current instance of the ItemOrder .
						tl:epcOrderItem	1...* 0/*	String	Order item number attribute associating specific serial numbers to the price, VAT, and cost taxes reported in a specific instance of OrderItem , in EPC Pure Identity URI format.
						tl:orderItemList	0...1 -	-	Populate orderItemList group to communicate the pick quantities for each item code at the EACH (unit)-level.
						tl:orderItem	1...* -	-	Required. Order item group is a repeating element that captures the item code, lot number, and quantity for each item in the order. Each unique item code and lot number are communicated in a separate order item group.
						tl:orderItemNumber	0...1 0/*	String	Order item number attribute associating specific serial numbers to the price, VAT, and cost taxes reported in a specific instance of tl:orderItem .
						choice%1	1...1 -	Choice	Required. Mandatory choice. Populate only one of the following two options: • cmn:InternalMaterialCode • cmn:PackagingItemCode
						tl:internalMaterialCode	0...1 1/*	String	Conditionally required if cmn:PackagingItemCode is not populated. Option 1 for choice%1 in OrderItem . Use to identify the product using the internal material number configured in Product Master Data. ¹
						tl:packagingItemCode	0...1 0/*	String	Conditionally required if cmn:InternalMaterialCode is not populated. Option 2 for choice%1 in OrderItem . Use to identify the product using the packaging level item code (e.g. GTIN-14) configured in Product Master Data. ²
						@type	0...1 0/*	String	Conditionally required if cmn:PackagingItemCode is populated. The product code type for the packaging item code using the supported enumeration values. See the ItemCode enumeration list for valid values.
						cbvmdata:lotNumber	0...1 0/*	String	The lot or batch code for the items to be picked (if available) in an alphanumeric string. ³
						cbvmdata:itemExpirationDate	0...1	Date	The expiration date for the serialized item, formatted in YYYY-MM-DD format. ⁴

¹100234²00882025030223³A12345⁴2020-01-31

Data Element								Occurs Length	Format	Description
							tl:quantity	1...1 0/*	String	Required. The quantity of items at the EACH (unit)-level of the item code and lot if specified to be picked. Mandatory if ShipFromCountryCode = KR and IsSerialized = false ¹
							tl:unitPrice	0...1 0/*	Decimal	Required. Unit price of item. ²
							@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ³ See the ISOCurrency enumeration list for valid values.
							tl:vat	0...1 -	Decimal	Value Added Tax per unit. ⁴
							@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ⁵ See the ISOCurrency enumeration list for valid values.
							tl:grossPrice	0...1 0/*	Decimal	Price including unit price and all taxes and fees. ⁶
							@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ⁷ See the ISOCurrency enumeration list for valid values.
							tl:isSerialized	0...1 0/*	Boolean	Indicates if item is not serialized. Valid values: ⁸ true (defaults to true if omitted). false
							tl:transactionIdentifier	0...* 0/*	String	Transaction identifier at the line-item level of shipment. More than one transaction identifier may be present.
							@type	1...1 1/*	String	Required. The transaction identifier type. Valid values: DESTRUCTION

¹50²35.67³USD⁴152.22⁵USD⁶45.67⁷USD⁸true

Data Element								Occurs Length	Format	Description
										• INVOICE • NOTAFISCAL • OTHER • PO • RETURN
							@date	0...1 0/*	Date	Required. The transaction identifier date.

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:tl="http://epcis.tracelink.com/ns"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader" schemaVersion="1.2"
creationDate="2018-06-12T06:31:32Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier Authority="GLN">8779891013658</sbdh:Identifier>
      </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier Authority="GLN">8811891013778</sbdh:Identifier>
      </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>201806121745200001</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2018-06-12T06:31:32Z</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
    <extension>
      <EPCISMasterData>
```

```

<VocabularyList>
  <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
    <VocabularyElementList>
      <!-- SourceList owning_party (sold from business party) -->
      <VocabularyElement id="urn:epc:id:sgln:088202.867701.0">
        <attribute id="urn:epcglobal:cbv:mda#name">Clara Manufacturing</attribute>
        <attribute
id="http://epcis.tracelink.com/mda/additionalIdentifier">712333444</attribute>
        <attribute
id="http://epcis.tracelink.com/mda/additionalIdentifierType">DEA</attribute>
        <attribute
id="http://epcis.tracelink.com/mda/businessClassification">MANUFACTURER</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">10 Welsh St</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">Malden</attribute>
        <attribute id="http://epcis.tracelink.com/mda/district"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/village"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/houseNumber"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/township"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/corporateFax"></attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">MA</attribute>
        <attribute id="urn:epcglobal:cbv:mda#postalCode">02148</attribute>
        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        <attribute id="http://epcis.tracelink.com/mda/premisesCode"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/taxRegistrationCode"></attribute>
      </VocabularyElement>
      <!-- SourceList location (ship from location) -->
      <VocabularyElement id="urn:epc:id:sgln:9297187.01994.0">
        <attribute id="urn:epcglobal:cbv:mda#name">Wilbur Pharmaceutical Imports</attribute>
        <attribute
id="http://epcis.tracelink.com/mda/additionalIdentifier">412333444</attribute>
        <attribute
id="http://epcis.tracelink.com/mda/additionalIdentifierType">DEA</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">154 Broadway</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">Somerville</attribute>
        <attribute id="http://epcis.tracelink.com/mda/district"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/village"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/houseNumber"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/township"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/corporateFax"></attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">MA</attribute>

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        <attribute id="urn:epcglobal:cbv:mda#postalCode">02145</attribute>
        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        <attribute id="http://epcis.tracelink.com/mda/premisesCode"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/taxRegistrationCode"></attribute>
    </VocabularyElement>
    <!-- DestinationList owning_party (sold to business party) -->
    <VocabularyElement id="urn:epc:id:sgln:8887777.01384.0">
        <attribute id="urn:epcglobal:cbv:mda#name">Watson Rx Wholesaler</attribute>
        <attribute
id="http://epcis.tracelink.com/mda/additionalIdentifier">512333444</attribute>
        <attribute
id="http://epcis.tracelink.com/mda/additionalIdentifierType">DEA</attribute>
        <attribute
id="http://epcis.tracelink.com/mda/businessClassification">WHOLESALE</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">555 Neelan Road</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">Sacramento</attribute>
        <attribute id="http://epcis.tracelink.com/mda/district"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/village"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/houseNumber"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/township"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/corporateFax"></attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
        <attribute id="urn:epcglobal:cbv:mda#postalCode">95833</attribute>
        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        <attribute id="http://epcis.tracelink.com/mda/premisesCode"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/taxRegistrationCode"></attribute>
    </VocabularyElement>
    <!-- DestinationList location (ship to location) -->
    <VocabularyElement id="http://epcis.gslns.org/hc/dea/loc/512333444">
        <attribute id="urn:epcglobal:cbv:mda#name">Watson Rx Wholesaler</attribute>
        <attribute
id="http://epcis.tracelink.com/mda/additionalIdentifier">512333444</attribute>
        <attribute
id="http://epcis.tracelink.com/mda/additionalIdentifierType">DEA</attribute>
        <attribute
id="http://epcis.tracelink.com/mda/businessClassification">WHOLESALE</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">555 Neelan Road</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">Sacramento</attribute>
        <attribute id="http://epcis.tracelink.com/mda/district"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/village"></attribute>

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        <attribute id="http://epcis.tracelink.com/mda/houseNumber"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/township"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/corporateFax"></attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
        <attribute id="urn:epcglobal:cbv:mda#postalCode">95833</attribute>
        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        <attribute id="http://epcis.tracelink.com/mda/premisesCode"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/taxRegistrationCode"></attribute>
    </VocabularyElement>
<!-- SourceList location (Carrier Party) -->
<VocabularyElement id="urn:epc:id:sgln:064202.867703.0">
    <attribute id="urn:epcglobal:cbv:mda#name">FedEx</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">180 Fedex Road</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressTwo">Building 6B</attribute>
    <attribute id="urn:epcglobal:cbv:mda#city">Atlanta</attribute>
    <attribute id="http://epcis.tracelink.com/mda/district"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/village"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/houseNumber"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/township"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/corporateFax"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/district">456</attribute>
    <attribute id="urn:epcglobal:cbv:mda#state">GA</attribute>
    <attribute id="urn:epcglobal:cbv:mda#postalCode">31305</attribute>
    <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    <attribute id="http://epcis.tracelink.com/mda/premisesCode"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/taxRegistrationCode"></attribute>
</VocabularyElement>
</VocabularyElementList>
</Vocabulary>
</VocabularyList>
</EPCISMasterData>
</extension>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <AggregationEvent>
            <eventTime>2018-06-12T06:31:32Z</eventTime>
            <eventTimeZoneOffset>-04:00</eventTimeZoneOffset>
            <parentID>urn:epc:id:sscc:005434.40000000019</parentID>
            <childEPCs>

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        <epc>urn:epc:id:sgtin:068202.0401034.11220207026272</epc>
        <epc>urn:epc:id:sgtin:068202.0401034.11220207026273</epc>
        <epc>urn:epc:id:sgtin:068202.0401034.11220207026274</epc>
        <epc>urn:epc:id:sgtin:068202.0401034.11220207026275</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <bizLocation>
        <id>urn:epc:id:sgln:9297187.01994.0</id>
    </bizLocation>
    <tl:aggregationEventExtensions>
        <tl:epcOrderItemDetails>
            <tl:epcOrderItemList orderItemNumber="910">
                <tl:epcOrderItem>urn:epc:id:sscc:005434.40000000019</tl:epcOrderItem>
            </tl:epcOrderItemList>
        </tl:epcOrderItemDetails>
    </tl:aggregationEventExtensions>
</AggregationEvent>
<AggregationEvent>
    <eventTime>2018-06-12T06:31:32Z</eventTime>
    <eventTimeZoneOffset>-04:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:005434.40000000020</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:068202.0401034.11220207024592</epc>
        <epc>urn:epc:id:sgtin:068202.0401034.11220207024593</epc>
        <epc>urn:epc:id:sgtin:068202.0401034.11220207024594</epc>
        <epc>urn:epc:id:sgtin:068202.0401034.11220207024595</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <bizLocation>
        <id>urn:epc:id:sgln:9297187.01994.0</id>
    </bizLocation>
    <tl:aggregationEventExtensions>
        <tl:epcOrderItemDetails>
            <tl:epcOrderItemList orderItemNumber="910">
                <tl:epcOrderItem>urn:epc:id:sscc:005434.40000000020</tl:epcOrderItem>
            </tl:epcOrderItemList>

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        </tl:epcOrderItemDetails>
    </tl:aggregationEventExtensions>
</AggregationEvent>
<AggregationEvent>
    <eventTime>2018-06-12T06:31:32Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:005434.40000000021</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:068202.0401034.11220207024596</epc>
        <epc>urn:epc:id:sgtin:068202.0401034.11220207024597</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <bizLocation>
        <id>urn:epc:id:sgln:9297187.01994.0</id>
    </bizLocation>
    <tl:aggregationEventExtensions>
        <tl:epcOrderItemDetails>
            <tl:epcOrderItemList orderItemNumber="910">
                <tl:epcOrderItem>urn:epc:id:sscc:005434.40000000021</tl:epcOrderItem>
            </tl:epcOrderItemList>
        </tl:epcOrderItemDetails>
    </tl:aggregationEventExtensions>
</AggregationEvent>
<!-- Shipping -->
<ObjectEvent>
    <eventTime>2018-06-12T06:31:32Z</eventTime>
    <eventTimeZoneOffset>-04:00</eventTimeZoneOffset>
    <epcList>
        <epc>urn:epc:id:sscc:005434.40000000021</epc>
    </epcList>
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:9997777.01994.0</id>
    </readPoint>
    <bizTransactionList>
        <bizTransaction type="urn:epcglobal:cbv:btt:desadv" date="2018-06-

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12">urn:epcglobal:cbv:bt:8779891013658:H9022413</bizTransaction>
    <bizTransaction type="urn:epcglobal:cbv:btt:po" date="2018-06-
12">urn:epcglobal:cbv:bt:8811891013778:PO654321</bizTransaction>
    </bizTransactionList>
    <extension>
      <sourceList>
        <!-- owning_party = from business party -->
        <source type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:088202.867701.0</source>
        <!-- location = Ship from location -->
        <source type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:9297187.01994.0</source>
        <!-- carrier_party = Transportation carrier -->
        <source type="http://epcis.tracelink.com/sdt/carrier_
party">urn:epc:id:sgln:064202.867703.0</source>
      </sourceList>
      <destinationList>
        <!-- owning_party = to business party -->
        <destination type="urn:epcglobal:cbv:sdt:owning_
party">urn:epc:id:sgln:8887777.01384.0</destination>
        <!-- location = Ship to location -->
        <destination
type="urn:epcglobal:cbv:sdt:location">http://epcis.gs1us.org/hc/dea/loc/512333444</destination>
      </destinationList>
    </extension>
    <tl:shippingEventExtensions>
      <tl:transactionDate>2018-06-12</tl:transactionDate>
      <tl:shipToCountryCode>US</tl:shipToCountryCode>
      <tl:salesDistributionType>INCOUNTRYSALE</tl:salesDistributionType>
      <tl:supplyType>MedicalCareDistribution</tl:supplyType>
      <tl:contractType>CompetitiveBid</tl:contractType>
      <tl:dropShipmentIndicator>false</tl:dropShipmentIndicator>
      <tl:comments>Special shipment handling</tl:comments>
      <tl:contractNumber>C102</tl:contractNumber>
      <tl:fundingSource>OwnFunds</tl:fundingSource>
      <tl:entryPort></tl:entryPort>
      <tl:exitPort></tl:exitPort>
      <tl:epcOrderItemDetails>
        <tl:epcOrderItemList orderItemNumber="910">
          <tl:epcOrderItem>urn:epc:id:sscc:005434.400000000019</tl:epcOrderItem>
          <tl:epcOrderItem>urn:epc:id:sscc:005434.400000000020</tl:epcOrderItem>
          <tl:epcOrderItem>urn:epc:id:sscc:005434.400000000021</tl:epcOrderItem>

```

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        </tl:epcOrderItemList>
    </tl:epcOrderItemDetails>
    <tl:orderItemList>
        <tl:orderItem>
            <tl:orderItemNumber>910</tl:orderItemNumber>
            <tl:packagingItemCode type="GTIN-14">00992326050107</tl:packagingItemCode>
            <cbvmda:itemExpirationDate>2020-06-12</cbvmda:itemExpirationDate>
            <tl:quantity>5</tl:quantity>
            <tl:unitPrice currencyCode="USD">50.43</tl:unitPrice>
            <tl:vat currencyCode="USD">50.00</tl:vat>
            <tl:grossPrice currencyCode="USD">100.43</tl:grossPrice>
            <tl:transactionIdentifier type="PO" date="2018-06-12">P097</tl:transactionIdentifier>
        </tl:orderItem>
    </tl:orderItemList>
    </tl:shippingEventExtensions>
</ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

Errors

Data Element	Error Message	Description
Class 1		
AggregationEvent bizStep	bizStep urn:epcglobal:cbv:bizstep:packing is required for the AggregationEvent !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:packing" for an Aggregation Event.
AggregationEvent disposition	Disposition urn:epcglobal:cbv:disp:in_progress is required for the AggregationEvent !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:in_progress" for an Aggregation Event.
bizLocation id	Event location in the aggregation event is required !!!	The error occurs if the source is empty or null.
bizTransactionList	Biz transaction list is required in shipping event !!!	The error occurs if the source is empty or null.
bizTransaction @type	Valid bizTransaction type is required if bizTransaction is populated !!!	The error occurs if bizTransaction is populated, but the source is empty or null.
childEPCs epc	Invalid EPC format !!!	The error occurs if the source value could not be translated to GS1 Application Identifier format without parenthesis, or if the source has any other content than; SGTIN, SSCC, CN EDMC, or NTIN.

Data Element	Error Message	Description
choice%1	At least one object for shipping is required !!!	The error occurs if no object event is present.
@currencyCode	Valid ISO currency code is required !!!	The error occurs if tl:unitPrice is populated, but the source is missing or null, or if there is no matching entry in the lookup file.
destinationList	Destination list is required !!!	The error occurs if the source is empty or null.
destinationList destination	Sold-to party identifier is required !!!	The error occurs if the source is empty or null.
	Valid sold-to business lookup identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Ship-to party identifier must match an identifier in VocabularyElement [@id] !!!	The error occurs if no match is found between sourceList(source) and VocabularyElement(@id) in party master data header when party master address data is populated in header.
	Valid ship-to business lookup identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
epcList epc	Invalid EPC format !!!	The error occurs if the source value could not be translated to GS1 Application Identifier format without parenthesis, or if the source has any other content than SGTIN, SSCC, CN EDMC, or NTIN.
	At least one serial number in epcList is required !!!	The error occurs if tl:shippingEventExtensions tl:orderItemList tl:orderItem tl:isSerialized = true or and the source is missing or null.
ObjectEvent	Only one shipping event is required !!!	The error occurs if more than one shipping event is present.
	Shipping event data is required !!! At least one object for shipping is required !!!	The error occurs if shipping event is not populated in the source.
ObjectEvent (Shipping Events) bizStep	bizStep urn:epcglobal:cbv:bizstep:shipping is required for ObjectEvent shipping !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:shipping" for an Aggregation Event.
ObjectEvent (Shipping Events) disposition	Disposition urn:epcglobal:cbv:disp:in_transit is required for ObjectEvent shipping !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:in_transit" for an Aggregation Event.
parentID	Invalid EPC format !!!	The error occurs if the source value could not be translated to GS1 Application Identifier format without parenthesis, or if the source has any other content than SGTIN, SSCC, CN EDMC, or NTIN.
sbdh:Identifier	System will return error if source missing.	The error occurs if the source is empty or null.
sbdh:InstanceIdentifier	System will return error if source missing.	The error occurs if the source is empty or null.

Data Element	Error Message	Description
sourceList	Source list is required !!!	The error occurs if the source is empty or null.
sourceList source	Sold-from party identifier is required !!!	The error occurs if the source is empty or null.
	Valid carrier business lookup identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Carrier party identifier must match an identifier in VocabularyElement [@id] !!!	The error occurs if no match is found between sourceList source and VocabularyElement @id in party master data header when party master address data is populated in header.
	Valid ship-from business lookup identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Ship-from party identifier must match an identifier in VocabularyElement(@id) !!!	The error occurs if no match is found between sourceList source and VocabularyElement @id in party master data header when party master address data is populated in header.
	Valid sold-from business lookup identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
tl:internalMaterialCode	One of internalMaterialCode or packagingItemCode is required !!!	The error occurs if both tl:internalMaterialCode and tl:packagingItemCode are missing or null.
tl:packagingItemCode	One of internalMaterialCode or packagingItemCode is required !!!	The error occurs if both tl:internalMaterialCode and tl:packagingItemCode are missing or null.
tl:packagingItemCode @type	Packaging item code type is required !!!	The error occurs if tl:packagingItemCode is populated, but the source is missing or null, or if there is no matching entry in the lookup file.
tl:quantity	Quantity value greater than 0 is required !!!	The error occurs if the source is empty or null.
tl:salesDistributionType	Valid sales distributionType is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
tl:shipFromCountryCode	Valid ISO country code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Ship from country for export products is required !!!	The error occurs if the source is empty or null.
tl:shippingEventExtensions	shippingEventExtensions required if shipping event populated !!!	The error occurs if ObjectEvent is populated, but the source is empty or null.
tl:shipToCountryCode	Valid ISO country code for ship-to country is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.

Data Element	Error Message	Description
tl:supplyType	Valid supply type code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement	Carrier party info required in VocabularyElement if present in sourceList !!!	The error occurs if carrier party is present in sourceList, but is missing in the source.
VocabularyElement	Ship from party info required in VocabularyElement if present in sourceList !!!	The error occurs if ship from is present in sourceList, but is missing in the source.
VocabularyElement	Ship to party info required in VocabularyElement if present in destinationList !!!	The error occurs if ship to is present in destinationList, but is missing in the source.
VocabularyElement attribute	Ship to location state or region is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Ship from location country is required !!!	The error occurs if the required source is missing or null.
VocabularyElement attribute	Valid Ship from location country is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement attribute	Sold to business party name is required !!!	The error occurs if VocabularyElement/attribute fields are populated, but the source is missing or null.
VocabularyElement attribute	Valid business classification code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement attribute	Sold to business party street address is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Sold to business party state or region is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Sold to business party country is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Valid Sold to business party country is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement attribute	Ship from location state or region is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Ship to business party name is required !!!	The error occurs if VocabularyElement/attribute fields are populated, but the source is missing or null.
VocabularyElement attribute	Ship to location city is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Ship to location country is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Valid Ship to location country is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.

Data Element	Error Message	Description
VocabularyElement attribute	Carrier business party name is required !!!	The error occurs if VocabularyElement/attribute fields are populated, but the source is missing or null.
VocabularyElement attribute	Carrier business party street address is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Carrier business party city is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Carrier business party state or region is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Carrier business party country is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Valid Carrier business party country is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement attribute	Ship to location street address is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Sold to business party city is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Ship from location street address is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Sold from business party city is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Sold from business party state or region is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Sold from business party country is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Valid business classification code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement attribute	Valid Sold from business party country is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement attribute	Sold from business party name is required !!!	The error occurs if VocabularyElement/attribute fields are populated, but the source is missing or null.
VocabularyElement attribute	Sold from business party street address is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Ship from location city is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Ship from business party name is required !!!	The error occurs if VocabularyElement/attribute fields are populated, but the source is missing or null.
VocabularyElement @id	Valid sold from business party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.

Data Element	Error Message	Description
VocabularyElement @id	If source not present, system will throw validation error.	The error occurs if the source is empty or null.
VocabularyElement @id	Valid carrier business party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement @id	GLN party type not supported. SGLN is required !!!	The error occurs if the source is a GLN and not SGLN.
VocabularyElement @id	If source not present, system will throw validation error.	The error occurs if the required source is missing or null.
VocabularyElement @id	Sold from party identifier is required !!!	The error occurs if Vocabulary @type = "urn:epcglobal:epcis:vtype:Location", but the source is missing or null.
VocabularyElement @id	If source not present, system will throw validation error.	The error occurs if the source is empty or null.
VocabularyElement @id	Valid ship to business party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement @id	GLN party type not supported. SGLN is required !!!	The error occurs if the source is a GLN and not SGLN.
VocabularyElement @id	If source not present, system will throw validation error.	The error occurs if the source is empty or null.
VocabularyElement @id	Valid ship from business party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement @id	GLN party type not supported. SGLN is required !!!	The error occurs if the source is a GLN and not SGLN.
VocabularyElement @id	Sold to party identifier is required !!!	The error occurs if sold to party does not exist in the source.
VocabularyElement @id	GLN party type not supported. SGLN is required !!!	The error occurs if the source is a GLN and not SGLN.
VocabularyElement @id	If source not present, system will throw validation error.	The error occurs if the source is empty or null.
VocabularyElement @id	If source not present, system will throw validation error.	The error occurs if the source is empty or null.
VocabularyElement @id	If source not present, system will throw validation error.	The error occurs if the source is empty or null.
VocabularyElement @id	Valid sold to business party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
Class 2		
bizTransaction @date	Transaction Identifier Date is required if Ship To Country Code = RU.	The error occurs if tl:shipToCountryCode = "RU" but the source is empty or null.
ReceiverInfo	Serialized Operations Manager Receipt inbound processing could not be	The error occurs if

Data Element	Error Message	Description
	completed. The ReceiverInfo with either ToBusinessPartyLookupId or ToBusinessPartyInfo for the ShipFromCountryCode of <ShipFromCountryCode> and ShipToCountryCode of <ShipToCountryCode> must be specified.	- Transfer or Sale occurs in non-EU FMD markets where the ShipToCountryCode is not an EU FMD country and the ShipFromCountryCode is not an EU FMD country. - Transfer or Sale Export occurs from the EU FMD markets where the ShipToCountryCode is China, US, South Korea, or Russia and the ShipFromCountryCode is an EU FMD country.
ReceiverInfo	Serialized Operations Manager Receipt inbound processing could not be completed. Both the ShipToCountryCode and ShipFromCountryCode must be specified when the Sender Info and ReceiverInfo are not specified.	The error occurs if ReceiverInfo and SenderInfo are both empty or null, and both the ShipToCountryCode and ShipFromCountryCode are empty or null.
SenderInfo	Serialized Operations Manager Receipt inbound processing could not be completed. Both the ShipToCountryCode and ShipFromCountryCode must be specified when the Sender Info and ReceiverInfo are not specified.	The error occurs if ReceiverInfo and SenderInfo are both empty or null, and both the ShipToCountryCode and ShipFromCountryCode are empty or null.
	Serialized Operations Manager Receipt inbound processing could not be completed. The SenderInfo with either FromBusinessPartyLookupId or FromBusinessPartyInfo for the ShipFromCountryCode of <ShipFromCountryCode> and ShipToCountryCode of <ShipToCountryCode>.	The error occurs if - Transfer or Sale occurs in non-EU FMD markets where the ShipToCountryCode is not an EU FMD country and the ShipFromCountryCode is not an EU FMD country. - Transfer or Sale Export occurs from the EU FMD markets where the ShipToCountryCode is China, US, South Korea, or Russia and the ShipFromCountryCode is an EU FMD country.
tl:fundingSource	Funding Source is required if Ship To Country Code is RU and Ship From Country Code is RU.	The error occurs if both tl:shipToCountryCode and tl:shipFromCountryCode = "RU", but the source is empty or null.
tl:transactionIdentifier @date	Order Item Transaction Identifier Date is required if Ship To Country Code = RU.	The error occurs if tl:shipToCountryCode = "RU" but the source is empty or null.
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

Shipment Event (EPCIS v1.2)

Guidelines

Use this message for any type of shipment (i.e. sale, transfer, or return) that is sent from a trade partner to the Serialized Operations Manager Owner. This message can contain optional commissioning, aggregation, decommissioning, and destruction data, in addition to the required shipping data.

 When product changes ownership (e.g. an MAH sells product to a distributor), an inbound shipment is generated and the serial numbers are put into a **pending receipt** state.

This message uses the Park and Retry functionality. If a prerequisite condition for this message has not been met, TraceLink stops processing the task, returns the task to the queue, and then tries to process the task again every 15 minutes for up to 2 hours.

Message Types:

- SOM_SHIPMENT_EVENT
- SOM_SHIPMENT_EVENT_IB

Info Exchange Display Name: Received Shipment Event

 When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

 NTINs *must* follow the [GS1 Guidance](#) standards as found on the GS1 website.

- Ex: urn:epc:id:sgtin:415001647778.0.100000000022
- Format: urn:epc:id:sgtin:[company prefix].[indicator digit][item ref].[serial number]

Information regarding NTINs cannot be exchanged with trade partners unless the specific format outlined above is followed. If using an NTIN without following this format, an outbound error occurs when passing data from TraceLink to a trade partner.

Data Element			Occurs Length	Type	Description
epcis:EPCISDocument			1...1 -	-	Required. EPCIS message root element.
	@schemaVersion		1...1 0/*	Decimal	Required. The version of the EPCIS schema used to populate the EPCIS document elements. Must equal 1.2. ¹
	@creationDate		1...1 1/*	DateTime	Required. The date and time of the SBDH document's creation. GMT create date and time for the EPCIS message. The system expects the Z to be appended; however, if it is not included, the system assumes that the time is GMT and therefore appends the Z. ²
	EPCISHeader		0...1 -	-	Required. XML file control header . This message supports the following use cases: - Shipping event only: Commission and aggregation transactions have already been processed. - Aggregation + Shipping events: Commission events have already been processed. - Aggregation + Shipping + Decommission/Destroy events: Commission events have already been processed. - Commission + Shipping events: Product is not aggregated. - Commission + Aggregation + Shipping events: All events reported at same time from external system. - Commission + Shipping + Decommission/Destroy events: Product is not aggregated. - Commission + Aggregation + Shipping + Decommission/Destroy events: All events reported at same time from external system. - Shipping + Decommission/Destroy events: Commission and Aggregation transaction have already been processed. Shipping event is required, all other events are optional.
	sbdh:StandardBusinessDocumentHeader		1...1 -	-	Required. Business header information including EPCIS Header Version, Sender, and Receiver information, along with the document identification.
		sbdh:HeaderVersion	1...1 0/*	String	Required. Version of the Standard Business Document Header (SBDH). The HeaderVersion must be set to 1.0. ³
		sbdh:Sender	1... *	-	Required. A unique identification key for the Sender party of the message, representing the organization that created the standard business document. The Sender element must be used only once with GS1 XML messages.

¹1.2²2016-12-18T22:08:02Z³1.0

Data Element					Occurs Length	Type	Description
				sbdh:Identifier	1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type.¹ SGLN and all other party types should be sent with a GS1-conformant uri prefix. For example: <code>urn:epc:id:sgln:088202.867701.0</code> <code>http://epcis.gs1us.org/hc/dea/loc/10023141</code>  GLN will not have a urn/http prefix. See the MDPartyTypeAttributes enumeration list for valid values.
				@Authority	1...1 1/*	String	Required. The sender identifier type. The Authority was previously expected to be set to GLN for GS1 XML messages. An update made in December 2016 changed this to accept additional values.² See the BusinessAndLocationId enumeration list for valid values.
				sbdh:Receiver	1...* -	-	Required. Indicates a unique identification key for the direct Receiver party of the message, representing the organization that receives the standard business document. The Receiver element is used only once with GS1 XML messages.
				sbdh:Identifier	1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type.³ SGLN and all other party types should be sent with a GS1-conformant uri prefix. For example: <code>urn:epc:id:sgln:088202.867701.0</code> <code>http://epcis.gs1us.org/hc/dea/loc/10023141</code>  GLN will not have a urn/http prefix. See the MDPartyTypeAttributes enumeration list for valid values.
				@Authority	1...1 1/*	String	Required. The receiver identifier type. The Authority was previously expected to be set to GLN for GS1 XML messages. An update made in December 2016 changed this to accept additional values.⁴ See the BusinessAndLocationId enumeration list for valid values.
				sbdh:DocumentIdentification	1...1 -	-	Required. Contains the identification group for the message.

¹1100001014507²SGLN³1100001014507⁴SGLN

Data Element				Occurs Length	Type	Description
			sbdh:Standard	1...1 0/*	String	Required. Name of the document standard contained in the file or message. The standard value for this field is EPCglobal . ¹
			sbdh:TypeVersion	1...1 0/*	String	Required. Reflects the version of the document included. This is the complete version of the document itself and is different from the HeaderVersion as these are hard-coded values. The TypeVersion is set to 1.0 . ²
			sbdh:InstanceIdentifier	1...1 1/*	String	Required. Reference information that uniquely identifies this instance of the Standard Business Document between the Sender and the Receiver. This identifier confirms this document as being distinct from others. ³
			sbdh:Type	1...1 0/*	String	Required. The document type. The sbdh:Type value is set to Events for a shipment event. ⁴
			sbdh:CreationDateAndTime	1...1 0/*	DateTime	Required. The date and time of the SBDH document's creation. GMT create date and time for the EPCIS message. The system expects the Z to be appended; however, if it is not included, the system assumes that the time is GMT and therefore appends the Z . ⁵
			extension	0...1 -	-	Header extension area with master data attributes.
			EPCISMasterData	0...1 -	-	Master data extension header. May contain product master data attributes for Commissioning event and/or business and ship party address information. i Full GS1 conformance requires that all product and party master data be stored in the EPCIS header extension EPCISMasterData VocabularyList Vocabulary VocabularyElementList VocabularyElement . It is strongly urged that all product master data for Commissioning and Transformation events be sent in the VocabularyElement within the EPCISMasterData header extension.
			VocabularyList	1...1 -	-	Required. Vocabulary list group master data elements.
			Vocabulary	- -	-	Looping vocabulary element with discrete item master and/or party master data element groups. Vocabulary occurs only once for all item master entries and party address info present in message, if the group is populated. Group is optional. If it does not appear in master data header extension, no error will be thrown.
			@type	-	-	Conditionally required if master data elements are present. Vocabulary type identifying product master data elements. Product

¹EPCglobal²1.0³201609201745200001⁴Events⁵2016-12-18T22:08:02Z

Data Element								Occurs Length	Type	Description
										master data is defined by VocabularyElement @id. Valid value: <code>urn:epcglobal:epcis:vtype:EPCClass</code> = product master data. ¹
							VocabularyElementList	0...1 -	-	List of vocabulary elements containing master data attributes for each unique product code.
							VocabularyElement	0...* -	-	Looping vocabulary element identifying each unique SGTIN, NTIN, or China Product Code for product master data embedded in the epc serial number in the Commissioning and Transformation events. SSCC codes are not included in VocabularyElement product master data. i To conform with GS1 standards, master data attributes should be sent in the VocabularyElement. Each unique SGTIN, NTIN, or China Product Code embedded in Commissioning event epcList/epc and Transformation event outputEPC/epc serial numbers should be sent in one instance of VocabularyElement.
							@id	1...1 0/*	String	Required. Identifies the product code for which master data is being sent in the VocabularyElement loop. VocabularyElement @id = SGTIN, NTIN, or China Product Code. These are the only values supported in this element. All other product identifier types will be sent as additional trade item types. SSCC codes are not identified in any part of the VocabularyElement group.² Must match the product code embedded within the serial number in the epc code in one or more commissioning events or the outputEPCList/epc in one or more transformation events. SGTIN - Prefix: <code>urn:epc:idpat:sgtin:</code> - Example: <code>urn:epc:idpat:sgtin:0030001.0012345.*</code> i Legacy http prefix will continue to be supported: Legacy: <code>http://epcis.tracelink.com/obj/[ProductType]/</code>
							attribute	0...1 0/*	String	Conditionally required if item master data attributes sent in VocabularyElement. Instance 1 of attribute for packaging level value identified by attribute @id.³ See the PackagingLevel enumeration list for valid values.
							@id	1...1 0/*	String	Required. Attribute identifying packaging level. Valid value: <code>http://epcis.tracelink.com/mda/packageTypeCode</code>⁴

¹urn:epcglobal:epcis:vtype:EPCClass²urn:epc:idpat:sgtin:0030001.0012345.*³UN⁴http://epcis.tracelink.com/mda/packageTypeCode

Data Element								Occurs Length	Type	Description
							attribute	0...1 0/*	String	Instance 2 of attribute for internal material number in Pharmaceutical Manufacturer's internal system identified by attribute @id. Identified by the value in attribute element (instance 3) in the current loop = <code>MANUFACTURER_PART_NUMBER</code> . ¹
							@id	1...1 0/*	String	Required. Id attribute identifying internal material code. Valid value: <code>urn:epcglobal:cbv:mda#additionalTradeItemIdentification</code> ² See the MDAAttributes enumeration list for valid values.
							attribute	0...1 0/*	String	Conditionally required if the previous name/value pair attribute @id (instance 2) is populated. Instance 3 of attribute for internal material number identifier type for the product. Id attribute identifying internal material code. Valid value: <code>MANUFACTURER_PART_NUMBER</code> ³ Sequence of fields for internal material number is: <code><attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">100335</attribute></code> <code><attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">MANUFACTURER_PART_NUMBER</attribute></code>  If this sequence is not followed as documented above in the input file, the internal material number will not be mapped into the TraceLink system and no error will be thrown.  Mandatory if the previous name/value pair attribute @id (instance 2) is populated.
							@id	1...1 0/*	String	Required. Id attribute identifying internal material code. Valid value: <code>urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode</code> ⁴
							attribute	0...1 0/*	String	Instance 4 of attribute for country drug code for all national drug code types, identified by the enum value in the next attribute element (instance 5) in the current loop and by the attribute @id value as an additional trade item. ⁵ Country drug code type defined by value in next attribute element (instance 5) where attribute @id = <code>urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode</code> OR <code>http://epcis.tracelink.com/mda/additionalTradeItemIdentificationTypeCode</code> .

¹100335²`urn:epcglobal:cbv:mda#additionalTradeItemIdentification`³`MANUFACTURER_PART_NUMBER`⁴`urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode`⁵82025030221

Data Element									Occurs Length	Type	Description
								@id	1...1 0/*	String	Required. Id attribute identifying internal material code. Valid value: <code>urn:epcglobal:cbv:mda#additionalTradeItemIdentification</code> ¹
								attribute	0...1 0/*	String	Conditionally required if the previous name/value pair attribute @id (instance 4) is populated. Instance 5 of attribute for Country drug code identifier type. Must follow attribute with country drug value. Id attribute identifying internal material code.² Sequence of fields for country drug code is: GS1: <code><attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">82025030221</attribute></code> <code><attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</attribute></code> TraceLink: <code><attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">82025030221</attribute></code> <code><attribute id="http://epcis.tracelink.com/mda/additionalTradeItemIdentificationTypeCode">US_NDC442</attribute></code>  If this sequence is not followed as documented above in the input file, the internal material number will not be mapped into the TraceLink system and no error will be thrown. The following qualifiers have been defined by GS1 as additional trade item types: <code>MANUFACTURER_PART_NUMBER</code> = Internal material number <code>FDA_NDC_11</code> = US NDC542 <code>DIN</code> = Canada Drug ID Number <code>PHARMACODE_CH</code> = Swiss Pharma Code <code>NAN</code> = Nordic Article Number To identify these material number types, use attribute @id string: <code>urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode.</code>

¹urn:epcglobal:cbv:mda#additionalTradeItemIdentification²FDA_NDC_11

Data Element									Occurs Length	Type	Description
											For all other country drug code types, use attribute @id string : http://epcis.tracelink.com/mda/additionalTradeItemIdentificationTypeCode . See the CountryDrugCode enumeration list for valid values.
								@id	1...1 0/*	String	Required. Id attribute identifying internal material code. Valid values: ¹ urn:epcglobal:cbv:mda#additionalTradeItemIdentification (GS1 enums). http://epcis.tracelink.com/mda/packageTypeCode (TraceLink enums).
					Vocabulary				0...* -	-	Looping vocabulary with discrete master data element groups. Vocabulary will occur once each for sold from, ship from, sold to, and ship to parties.  Group is optional. If it does not appear in master data header extension, no error will be thrown.
						@type			1...1 0/*	String	Required. Vocabulary type identifying location master data elements. Master data type defined by VocabularyElement @id . Valid value: urn:epcglobal:epcis:vtype:Location = party master data ²  Sold from, ship from, sold to, and ship to for shipping event are all tracked in header master data. Party data in Shipping event is mapped from header master in Vocabulary.
						VocabularyElementList			0...1 -	-	List of vocabulary elements that includes all partner master information. Party identifiers and address info are stored in instances of the looping group VocabularyElement .
						VocabularyElement			1...* -	-	Required. Looping group header for data elements that identify all business party and location master data, including identifiers, identifier types, and address info. Shipping Event: - Sold/Transfer from business party (Mandatory if group populated) - Ship from location (Optional) - Sold/Transfer to business party (Mandatory if group populated) - Ship to location (Optional) Master data lookup is supported. If partner master data is available in TraceLink, indicate master data lookup by sending partner identifiers in the sourceList and/or destinationList for the shipping event and do not include address data in any VocabularyElement group.

¹urn:epcglobal:cbv:mda#additionalTradeItemIdentification²urn:epcglobal:epcis:vtype:Location

Data Element								Occurs Length	Type	Description
										Master data lookup is supported from the readPoint id for the decommissioning and destroying events if VocabularyElement is not populated with location address. If master data lookup is not intended, send complete address information for at least the sold-from and sold-to partners in the header master data extension. Ship-from and ship-to addresses can also be included.
						@id		1...1 0/*	String	Required. SGLN or other partner identifier and type for party master data in VocabularyElement. Must match sourceList or destinationList owning or location party in shipping event from:¹ - ObjectEvent extension sourceList source (transfer from, carrier) or - ObjectEvent extension destinationList destination (transfer to) The identifier value is mandatory for regulatory reporting. The identifier type must include a valid urn or http string prefix. Valid prefix format include by namespace: - TraceLink: http://epcis.tracelink.com/hc/[identifierType]/loc/[identificationValue] Only SGLN is supported—not GLN. Different countries require different values as noted below: See the MDPartyTypeAttributes enumeration list for valid values.
						attribute(1)		1...1 0/*	String	Conditionally required if attribute(2) is present. Looping Name/Value pairs identifying partner address master data elements. This is the value element in the Name/Value pair attribute @id. Stores master data item value defined by attribute @id. Partner master data items currently supported:² - Business name – Mandatory if address populated in VocabularyElement. - Business classification – Optional. - Street address 1 – Mandatory if address populated. - Street address 2 – Optional. - City – Mandatory if address populated. - District – Optional - Village – Optional. - House number – Optional. - Township – Optional. - Corporate Fax – Optional. - State/Province/Region – Mandatory if address populated.

¹urn:epc:id:sgln:088202.867701.0²Kendall Pharma

Data Element									Occurs Length	Type	Description
											- Postal code – Optional. - Country code – Mandatory if address populated. - Premises code – Optional. - Tax registration code – Optional. Create one instance of the Name/Value pair attribute and attribute @id for each master data element returned.
								@id	1...1 0/*	String	Conditionally required if attribute(1) is populated. Provides the name in the Name/Value pair attribute @id. Identifies the master data value stored in the attribute value element, using urn or http prefix. Valid values:¹ <code>urn:epcglobal:cbv:mda#name</code> <code>urn:epcglobal:cbv:mda#streetAddressOne</code> <code>urn:epcglobal:cbv:mda#streetAddressTwo</code> <code>urn:epcglobal:cbv:mda#streetAddressThree</code> <code>urn:epcglobal:cbv:mda#city</code> <code>http://epcis.tracelink.com/mda/district</code> <code>http://epcis.tracelink.com/mda/village</code> <code>http://epcis.tracelink.com/mda/houseNumber</code> <code>http://epcis.tracelink.com/mda/township</code> <code>http://epcis.tracelink.com/mda/corporateFax</code> <code>urn:epcglobal:cbv:mda#state</code> <code>urn:epcglobal:cbv:mda#postalCode</code> <code>urn:epcglobal:cbv:mda#countryCode</code> <code>http://epcis.tracelink.com/mda/AddressObjectGUID</code> <code>http://epcis.tracelink.com/mda/HouseGUID</code> <code>http://epcis.tracelink.com/mda/partyRoleCode</code> <code>http://epcis.tracelink.com/mda/premisesCode</code> <code>http://epcis.tracelink.com/mda/taxRegistrationCode</code>

¹urn:epcglobal:cbv:mda#name

Data Element								Occurs Length	Type	Description
							attribute(2)	1...10/*	String	Conditionally required if attribute(1) is present. Looping Name/Value pairs identifying additional party identifier elements. This is the value element in the Name/Value pair attribute @id. Stores additional party identifiers and identifier types defined by @id.¹ Partner master data items currently supported: - Additional party identifier - Optional (1 or more supported). - Additional party identifier type - Optional (1 or more supported). Create one instance of the Name/Value pair attribute and attribute @id for each master data element returned. Additional party identifiers must be sent in a double attribute combination. The sequence must be: - Attribute 1 identifies and provides the party identifier value. - Attribute 2 identifies the party identifier type. For example: <code><attribute id="http://epcis.tracelink.com/mda/additionalPartyIdentificationValue">10023141</attribute></code> <code><attribute id="http://epcis.tracelink.com/mda/additionalPartyIdentificationTypeCode">DUNS_PLUS_FOUR</attribute></code> or <code><attribute id="http://epcis.tracelink.com/mda/additionalIdentifier">10023141</attribute></code> <code><attribute id="http://epcis.tracelink.com/mda/additionalIdentifierType">DUNS4</attribute></code> ❗ If this sequence of double attributes is not followed for additional party identifiers, the additional party identifier will not be mapped to the TraceLink system and no error will be thrown. ❗ Only one of the following values may be used per message: - RU_INN_FOREIGN_ENTITY - RU_INN_INDIV - RU_INN_LOCAL_ENTITY See the BusinessAndLocationId enumeration list for valid values.

¹10023141

Data Element										Occurs Length	Type	Description
									@id	1...1 0/*	String	Conditionally required if attribute(2) is populated. Provides the name in the Name/Value pair attribute @id. Identifies the master data value stored in the attribute value element, using urn or http prefix. Valid values:¹ http://epcis.tracelink.com/mda/additionalPartyIdentificationValue http://epcis.tracelink.com/mda/additionalPartyIdentificationTypeCode
EPCISBody										1...1 -	-	Required. Contains all of the EPCIS events for this message.
		EventList								1...1 -	-	Required.The EventList has the following structure: AggregationEvent (0 or more for aggregation) ObjectEvent (0 or more for commissioning) ObjectEvent (0 or more for decommissioning) ObjectEvent (0 or more for destroying) ObjectEvent (one for shipping) Order of events in message if all events are present: - Commission (optional) - Decommission (optional) - Destroy (optional) - Aggregation (optional) - Shipping (mandatory) <i>i</i> Order of events is not enforced by schema.
		choice%1								1... *	-	Required. Only one of the following choice options may be selected in any one loop on EPCISBody EventList: AggregationEvent ObjectEvent (with commissioning extensions) ObjectEvent (with decommissioning extensions) ObjectEvent (with destroying extensions) ObjectEvent (with shipping extensions)

¹<http://epcis.tracelink.com/mda/additionalPartyIdentificationValue>

Data Element				Occurs Length	Type	Description
						TransformationEvent
			ObjectEvent	0...* -	-	Choice 1 for EventList. Data = ObjectEvent for the Commissioning Events. EventList = ObjectEvent Commissioning when all of the following is true: - action = ADD - bizStep = urn:epcglobal:cbv:bizstep:commissioning - disposition = urn:epcglobal:cbv:disp:active
			eventTime	1...1 1/*	DateTime	Required. Timestamp of date/time when the event occurred. Must include a time zone indicator as specified in Section 9.5 of [EPCIS1.0.1].¹  The Event Time must be indicated in seconds. Default milliseconds to "0". This results in efficiency gains and smaller file sizes because serial numbers can be grouped together when the event times are the same.
			eventTimeZoneOffset	1...1 1/*	String	Required. Time zone offset in effect at time and place where the event occurred, consistent with what choice was made for eventTime. Per Section 7.2.8 of [EPCIS1.0.1].²
			epcList	1...1 -	-	Required. The EPCs of each item, case, and/or pallet commissioned.
			epc	1...* 1/*	String	Required. The EPC identifier in EPC Pure Identity URI format. See EPC Pure Identifier Format Examples.
			action	1...1 0/*	String	Required. The action value must equal ADD.³
			bizStep	0...1 0/*	AnyURI	Required. The bizStep value must equal urn:epcglobal:cbv:bizstep:commissioning.⁴
			disposition	0...1 0/*	AnyURI	Required. The disposition value must equal urn:epcglobal:cbv:disp:active.⁵
			readPoint	0...1	-	Read point is optional for a commissioning event.

¹2016-10-01T22:08:02.0Z²-04:00³ADD⁴urn:epcglobal:cbv:bizstep:commissioning⁵urn:epcglobal:cbv:disp:active

Data Element						Occurs Length	Type	Description
					id	1...1 0/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ¹
					bizLocation	1...1 -	-	Required. Business location is mandatory for a commissioning event.
					id	1...1 1/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ²
					extension	0...1 -	-	Main extension body for commission event.
					ilmd	0...1 -	-	Instance lot master data specific to product being commissioned.
					cbvmdata:lotNumber	0...1 0/*	String	The lot or batch code for the serialized item in an alphanumeric String of up to 20 characters. ³
					cbvmdata:itemExpirationDate	0...1 0/*	Date	The expiration date for the serialized item in YYYY-MM-DD format. ⁴
					tl:commissionEventExtensions	0...1 -	-	Extensions used for Commission ObjectEvent .
					tl:filterValue	0...1 -	Integer	tl:filterValue is used only if it is required by a trade partner to convert SSCC to GS1 HEX or Tag URI format. See the FilterValue enumeration list for valid values.
					tl:packagingLevel	0...1 0/*	String	The packaging level of the commissioned item.⁵ i To be GS1 EPCIS-conformant, send this value in the VocabularyElement master data, unless current item has an SSCC code with associated product master data (i.e. homogeneous pallet). See the PackagingLevel enumeration list for valid values.

¹urn:epc:id:sgln:0614141.12345.RP1²urn:epc:id:sgln:0614141.12345.1400³ABC123⁴2017-12-31⁵CA

Data Element							Occurs Length	Type	Description
						tl:epcAttributes	0...* -	-	Supports optional inclusion of human readable barcode content associated with each epc number in a commission event.  Included only if provided in original commission event.
						@epc	1...1 1/*	String	Conditionally required. The EPC serial number to which the barcodeContent is associated. The epc must be an EPC Pure Identity URI as specified in Section 6 of [TDS1.5]. ¹ - Case: SGTIN or SSCC - Item: SGTIN - Pallet: SSCC
						tl:barcodeContent	1...1 1/*	String	Required. The human readable barcode contents encoded in the 2D barcode WITH parentheses for the AI keys. ²
						tl:plantLocationId	0...1 0/*	String	Identifier of plant where products were commissioned. ³
						tl:productionLineId	0...1 1/*	String	Identifier of production line where products were commissioned. ⁴
						tl:lineManagerName	0...1 0/*	String	Name of the person responsible as the production line manager for the commissioned products. ⁵
						tl:internalMaterialCode	0...1 0/*	String	Internal material number for the product in the brand owner's internal systems (e.g. ERP). ⁶  See the following additional information: - To be GS1 EPCIS-conformant, send this value in the VocabularyElement Master Data, unless the current item has an SSCC code with associated product master data. - The message may include either tl:internalMaterialCode, tl:countryDrugCode, or both, but all packaging levels must be consistent.

¹urn:epc:id:sgtin:068202.0401034.11220207026272²(01)50682020401034(21)11220207026272(17)170731(10)A312101(7004)0120³0614141.12345.1400⁴PW003⁵John Smith⁶100234

Data Element							Occurs Length	Type	Description
						tl:packagingItemCode	0...1 0/*	String	The product code for the commissioned item (e.g. GTIN-14). ¹
						@type	1...1 1/*	String	Required. The product code type. Valid values: ² • CN-RESCODE • GTIN-14 • NTIN
						tl:countryDrugCode	0...1 0/*	String	The national drug code for the commissioned item (e.g. NDC number for US products). ³ <i>ⓘ</i> See the following additional information: • To be GS1 EPCIS-conformant, send this value in the VocabularyElement Master Data, unless the current item has an SSCC code with associated product master data. • The message may include either tl:internalMaterialCode, tl:countryDrugCode, or both, but all packaging levels must be consistent.
						@type	0...1 0/*	String	Required. The national drug code type using the supported enumeration values and any formatting instructions provided. <i>ⓘ</i> To be GS1 EPCIS-conformant, send this value in the VocabularyElement master data, unless current item has an SSCC code with associated product master data (i.e. homogeneous pallet). See the CountryDrugCode enumeration list for valid values.
						tl:manufacturingDate	0...1 0/10	Date	The date of manufacture for the serialized item, in YYYY-MM-DD format. ⁴
						tl:referenceDocuments	0...* -	-	Reference document identifier associated with the commissioning activity.
						tl:poNumber	0...1 0/*	String	PO Number associated with serial number use.

¹50300694220667²GTIN-14³0069-4220-66⁴2016-12-18

Data Element							Occurs Length	Type	Description
						tl:poLine	0...1 0/*	String	PO Line number.
						tl:workOrderNumber	0...1 0/*	String	Work Order number associated with serial number use.
						tl:referenceIdentifier	0...1 0/*	String	Reference identifier (e.g. any type of identifier) associated with serial number use.
						tl:extensionField	0...* -	-	Customer extension point to pass in 1 or more name/value pairs containing additional data attributes not already supported in this message. If this element group is populated, both tl:fieldName and tl:fieldValue must be populated. ❗ These extensions are not stored by TraceLink and are used only for outbound mapping purposes when there is a requirement to provide additional data to a trade partner for this message, such as when a CMO is required to provide additional data fields to the brand owner. In this case, TraceLink would have a custom map for that trade partner to map these fields outbound. Different trade partners may have different field requirements and may therefore require that tl:extensionField be populated differently per trade partner.
						tl:fieldName	1...1 1/*	String	Required. Populate with the field name provided by the trade partner that will be receiving the mapped outbound message. The field name must match the field name provided by the trade partner exactly, including case, so it is properly detected in the outbound mapping.
						tl:fieldValue	1...1 1/*	String	Required. Populate with the field value content that corresponds to tl:fieldName .
					ObjectEvent		0...* -	-	ObjectEvent describing decommissioning events. EventList = ObjectEvent Decommissioning when all of the following is true: action = <code>DELETE</code> bizStep = <code>urn:epcglobal:cbv:bizstep:decommissioning</code> disposition = <code>urn:epcglobal:cbv:disp:inactive</code>
					eventTime		1...1 1/*	DateTime	Required. Timestamp of date/time when the event occurred. Must include a time zone indicator as specified in Section 9.5 of [EPCIS1.0.1] in YYYY-MM-DDTHH:MM:SS.mmZ format.¹ ❗ The Event Time must be indicated in seconds. Default milliseconds to "0". This results in efficiency gains and smaller file sizes because serial numbers can be grouped together when the event times are the same.

¹2017-01-30T08:30:21.0Z

Data Element				Occurs Length	Type	Description
			eventTimeZoneOffset	1...1 1/*	String	Required. Time zone offset in effect at time and place where the event occurred, consistent with what choice was made for eventTime . Per Section 7.2.8 of [EPCIS1.0.1]. ¹
			epcList	1...1 -	-	Required. The EPCs of each item, case, and/or pallet decommissioned.
			epc	1...* 1/*	String	Required. The EPC identifier in EPC Pure Identity URI format. See EPC Pure Identifier Format Examples .
			action	1...1 0/*	String	Required. The action value must equal DELETE . ²
			bizStep	0...1 0/*	AnyURI	Required. The bizStep value must equal urn:epcglobal:cbv:bizstep:decommissioning . ³
			disposition	0...1 0/*	AnyURI	Required. The disposition value must equal urn:epcglobal:cbv:disp:inactive . ⁴
			readPoint	0...1 -	-	The location where the event occurred; that is, the warehouse SGLN location ID and storage location (e.g. shelf, bin) in URN format, that recorded the object event.
			id	1...1 0/*	AnyURI	Required. The party identifier of the location where the decommissioning event occurred. SGLN is strongly preferred for GS1 conformance. This may be a site-level SGLN, or a finer-grain location identifier. ⁵ Valid value: urn:epc:id:sgln:
			bizTransactionList	0...1 -	-	Required. Business transaction list group.
			bizTransaction	1...* 0/*	AnyURI	Required. The transaction identifier associated with the decommissioned product. ⁶
			@type	1...1 1/*	String	Required. The transaction identifier type. Valid values: http://epcis.tracelink.com/hc/btt/destruction

¹04:00²DELETE³urn:epcglobal:cbv:bizstep:decommissioning⁴urn:epcglobal:cbv:disp:inactive⁵urn:epc:id:sgln:0614141.12345.1400⁶urn:epcglobal:cbv:bt:0333331013655:45006290016

Data Element						Occurs Length	Type	Description
								http://epcis.tracelink.com/hc/btt/removal urn:epcglobal:cbv:btt:rma ⚠ If at least one Target Market in Product Master Data = RU one instance of bizTransaction @type with a value of http://epcis.tracelink.com/hc/btt/removal must be present.
					@date	0...1 0/*	Date	Required. Transaction identifier date attribute in XML YYYY-MM-DD format. ¹
					locationId	0...1 -	String	Serialized Operations Manager External Partner Location identifier. Type of identifier defined by @type enum below. ² When messages are submitted by an external Serialized Operations Manager Partner, the system uses the Partner company integration user to perform the action and log this in the audit trail so that all transactions executed by the external Serialized Operations Manager Partner are attributed to that company.
					@type	1...1 1/*	String	Required. Attribute identifies the location types. See the LocationIdType enumeration list for valid values. ³
					tl:decommissionEventExtensions	0...1 -	-	Extensions used for ObjectEvent Decommissioning.
					tl:transactionDate	0...1 0/*	Date	Date associated with the business transaction document in bizTransactionList in YYYY-MM-DD format. This date may or may not be the same as the eventTime . ⁴
					tl:disaggregateFromParent	0...1 -	Boolean	When set to true instructs backend to disaggregate a serial number from its parent container (if it is aggregated) when setting the PackagingSerialNumberStatus of the serial number to DECOMMISSIONED or DESTROYED . ⁵ If not set, or set to false , the back end operates in default mode, which is to generate an error when attempting to change the status of a serial number aggregated to a parent container. If source is not populated, target defaults to false .
					tl:marketCountryCode	0...1 0/2	String	Market country code. ⁶
					tl:businessPartyInfo	0...1 -	-	The full business information (e.g. business type, contact information) associated with the business entity that authorized the decommissioning of the serial numbers.

¹2019-04-01²8888882028677³GLN⁴2017-01-31⁵false⁶US

Data Element						Occurs Length	Type	Description
					tl:businessId	1...* 1/*	String	Required. The identifier associated with the business entity that authorized the decommissioning of the serial number(s). ¹
					@type	1...1 1/*	String	Required. The business identifier type. See the BusinessAndLocationId enumeration list for valid values.
					tl:businessClassification	0...1 0/*	String	The classification of the business. See the BusinessClassification enumeration list for valid values.
					tl:BusinessPartyDetail	1...1 -	-	Required. The business name and address of the business entity that authorized the decommissioning of the serial numbers).
					tl:businessName	1...1 1/*	String	Required. The business name of the entity that authorized the decommissioning of the serial numbers. ²
					tl:street1	1...1 1/*	String	Required. The first line of the address for the company indicated in tl:businessName . ³
					tl:street2	0...1 0/*	String	The second line of the address for the company indicated in tl:businessName . ⁴
					tl:city	1...1 1/*	String	Required. The city for the company indicated in tl:businessName . ⁵
					tl:village	0...1 0/*	String	Name of the village in which the company is located.
					tl:houseNumber	0...1 0/*	String	Building, house, or unit number of the company. House numbers are usually only separated from the street address in China. For all addresses outside of China, continue to enter the building, house, or unit number in tl:street1 .
					tl:township	0...1 0/*	String	Name of the township in which the company is located.
					tl:district	0...1 0/*	String	District Code only for India.

¹8888882028677²Kendall Pharma³300 Trade Center⁴Suite 7690⁵Woburn

Data Element							Occurs Length	Type	Description
									<i>i</i> Must be a 3-digit numeric code.
						tl:stateOrRegion	1...1 1/*	String	Required. The state, province, or region of the business entity indicated in tl:businessName , using the standard two-letter abbreviation specified in the ISO 3166-2:1998 country subdivision code. ¹
						tl:postalCode	0...1 1/*	String	The postal code for the company indicated in tl:businessName . ²
						tl:country	1...1 1/*	String	Required. The country where the company indicated in tl:businessName is located. The country uses the standard two-letter abbreviation specified in the ISO 3166-1alpha-2:1997 country code. ³ See the CountryCode enumeration list for valid values.
						tl:corporateFax	0...1 1/*	String	Company fax number.
						tl:addressObjectGUID	0...1 0/36	String	The global identifier assigned by the Russian Federation Information Address System (FIAS). ⁴ <i>i</i> Maximum of 36 characters, using the digits 0-9 and letters A-F
						tl:houseGUID	0...1 0/36	String	The global house identifier assigned by the Russian Federation Information Address System (FIAS). ⁵ <i>i</i> Maximum of 36 characters, using the digits 0-9 and letters A-F
						tl:taxRegistrationCode	0...1 0/*	String	The code used to identify this entity for tax or other legal reporting purposes (e.g. a Russia KPP Registration Code).
						tl:premisesCode	0...1 0/*	String	Internal identifier a company uses for a specific location. For example, a company with 4 locations in the city of Mumbai that internally refers to the 4th location as MUM4.
						tl:warehouseOperatorName	0...1 0/*	String	Name of the person responsible for warehouse operations. ⁶

¹MA²01801³US⁴19406454-0022-000C-00B0-000000000152⁵986f2934-be05-438f-A30E-c15b90e15dbc⁶John Smith

Data Element					Occurs Length	Type	Description
				tl:correctiveShipment	0...1 0/*	Boolean	Indicates that a new Serialized Operations Manager receipt is correcting a previously voided Serialized Operations Manager receipt. Valid values: false – (default) The receipt is not a corrective receipt. true – The receipt is a corrective receipt.
				tl:originalDeliveryNumber	0...1 0/*	String	Original delivery number. Records the original delivery number that is replaced when a receipt is voided and corrections are made to that receipt.
				tl:decommissionReasonCode	0...1 0/*	String	Required. Reason code for decommissioning. ¹ See the DecommissionReasonCode enumeration list for valid values.
				tl:reasonDescription	0...1 0/*	String	Description for decommission reason code. ²
				tl:destructionMethod	0...1 0/*	String	Required.. Method of destruction. ³ See the DestructionMethod enumeration list for valid values.
			ObjectEvent		0...*	-	ObjectEvent describing destroying events. EventList = ObjectEvent Destroy when all of the following is true: action = DELETE bizStep = urn:epcglobal:cbv:bizstep:destroying disposition = urn:epcglobal:cbv:disp:destroyed
			eventTime		1...1 1/*	DateTime	Required. Timestamp of date/time when the event occurred. Must include a time zone indicator as specified in Section 9.5 of [EPCIS1.0.1] in YYYY-MM-DDTHH:MM:SS.mmZ format. ⁴  The Event Time must be indicated in seconds. Default milliseconds to "0". This results in efficiency gains and smaller file sizes because serial numbers can be grouped together when the event times are the same.
			eventTimeZoneOffset		1...1 1/*	String	Required. Time zone offset in effect at time and place where the event occurred, consistent with what choice was made for eventTime . Per Section 7.2.8 of [EPCIS1.0.1]. ⁵

¹PRODUCTION_DEFECT²Defect from production³LIQUID_DILUTION_DRAINAGE⁴2017-01-30T08:30:21.0Z⁵-04:00

Data Element						Occurs Length	Type	Description
					epcList	1...1 -	-	Required. The EPCs of each item, case, and/or pallet commissioned.
					epc	1... 1/*	String	Required. The EPC identifier in EPC Pure Identity URI format. See EPC Pure Identifier Format Examples .
					action	1...1 0/*	String	Required. The action value must equal <code>DELETE</code> . ¹
					bizStep	0...1 0/*	AnyURI	The bizStep value must equal <code>urn:epcglobal:cbv:bizstep:destroying</code> . ²
					disposition	0...1 0/*	AnyURI	The disposition value must equal <code>urn:epcglobal:cbv:disp:destroyed</code> . ³
					readPoint	0...1 -	-	Location where event occurred. Defined with GS1-conformant party identifier types with full urn or http prefix.
					id	1...1 0/*	AnyURI	Required. The party identifier of the location where the destroying event occurred. ⁴ Valid value: <code>urn:epc:id:sgln:</code>
					bizTransactionList	0...1 -	-	Required. Business transaction list group.
					bizTransaction	1... 0/*	AnyURI	Required. The transaction identifier associated with the destroyed product. ⁵
					@type	1...1 1/*	String	Required. The transaction identifier type. Valid values: <code>http://epcis.tracelink.com/hc/btt/destruction</code> <code>http://epcis.tracelink.com/hc/btt/removal</code> <code>urn:epcglobal:cbv:btt:rma</code>

¹DELETE²urn:epcglobal:cbv:bizstep:decommissioning³urn:epcglobal:cbv:disp:inactive⁴urn:epc:id:sgln:0614141.12345.1400⁵urn:epcglobal:cbv:bt:0333331013655:45006290016

Data Element						Occurs Length	Type	Description
								 If at least one Target Market in Product Master Data = RU once instance of bizTransaction @type with a value of http://epcis.tracelink.com/hc/btt/removal must be present.
				@date		0...1 0/*	Date	Required. Transaction identifier date attribute in XML YYYY-MM-DD format. ¹
			tl:locationId			0...1 -	String	Serialized Operations Manager External Partner Location identifier. When messages are submitted by an external Serialized Operations Manager Partner, the system uses the partner company integration user to perform the action. This is logged in the audit trail so that all messages executed by the external Serialized Operations Manager Partner are attributed to that company. ²
			@type			1...1 1/*	String	Required. Attribute identifies the location types. ³ See the MessagePartyIDType enumeration list for valid values.
			tl:destroyEventExtensions			0...1 -	-	Extensions used for ObjectEvent Destroying.
			tl:transactionDate			0...1 0/*	Date	Date associated with the business transaction document in bizTransactionList in YYYY-MM-DD format. This date may or may not be the same as the eventTime . ⁴
			tl:disaggregateFromParent			0...1 -	Boolean	When set to true , instructs back end to disaggregate a serial number from its parent container (if it is aggregated) when setting the PackagingSerialNumberStatus of the serial number to DECOMMISSIONED or DESTROYED . ⁵ If not set, or set to false , the back end operates in default mode, which is to generate an error when attempting to change the status of a serial number aggregated to a parent container. If source is not populated, target defaults to false .
			tl:marketCountryCode			0...1 0/2	String	Market country code. ⁶
			tl:businessPartyInfo			0...1 -	-	The full business information (e.g. business type, contact information) associated with the business entity that authorized the destruction of the serial numbers.
			tl:businessId			1...* 1/*	String	Required. The identifier associated with the business entity that authorized the destruction of the serial number(s). ⁷

¹2019-04-01²8888882028677³GLN⁴2017-02-18⁵false⁶US⁷8888882028677

Data Element						Occurs Length	Type	Description
					@type	1...1 1/*	String	Required. The business identifier type. See the BusinessAndLocationId enumeration list for valid values.
					tl:businessClassification	0...1 0/*	String	The classification of the business.
					tl:BusinessPartyDetail	1...1 -	-	Required. The business name and address of the business entity that authorized the destruction of the serial numbers.
					tl:businessName	1...1 1/*	String	Required. The business name of the entity that authorized the destruction of the serial numbers. ¹
					tl:street1	1...1 1/*	String	Required. The first line of the address for the company indicated in tl:businessName . ²
					tl:street2	0...1 0/*	String	The second line of the address for the company indicated in tl:businessName . ³
					tl:city	1...1 1/*	String	Required. The city for the company indicated in tl:businessName . ⁴
					tl:village	0...1 0/*	String	Name of the village in which the company is located.
					tl:houseNumber	0...1 0/*	String	Building, house, or unit number of the company. House numbers are usually only separated from the street address in China. For all addresses outside of China, continue to enter the building, house, or unit number in tl:street1 .
					tl:township	0...1 0/*	String	Name of the township in which the company is located.
					tl:district	0...1 0/*	String	District Code only for India.  Must be a 3-digit numeric code.
					tl:stateOrRegion	1...1	String	Required. The state, province, or region of the business entity indicated in tl:businessName , using the standard two-letter

¹Kendall Pharma²300 Trade Center³Suite 7690⁴Woburn

Data Element							Occurs Length	Type	Description
									1
						tl:postalCode	0...1 1/*	String	The postal code for the company indicated in tl:businessName . ²
						tl:country	1...1 1/*	String	Required. The country where the company indicated in tl:businessName is located. The country uses the standard two-letter abbreviation specified in the ISO 3166-1alpha-2:1997 country code. ³ See the CountryCode enumeration list for valid values.
						tl:corporateFax	0...1 1/*	String	Company fax number.
						tl:addressObjectGUID	0...1 0/36	String	The global identifier assigned by the Russian Federation Information Address System (FIAS). ⁴  Maximum of 36 characters, using the digits 0-9 and letters A-F
						tl:houseGUID	0...1 0/36	String	The global house identifier assigned by the Russian Federation Information Address System (FIAS). ⁵  Maximum of 36 characters, using the digits 0-9 and letters A-F
						tl:taxRegistrationCode	0...1 0/*	String	The code used to identify this entity for tax or other legal reporting purposes (e.g. a Russia KPP Registration Code).
						tl:premisesCode	0...1 0/*	String	Internal identifier a company uses for a specific location. For example, a company with 4 locations in the city of Mumbai that internally refers to the 4th location as MUM4.
						tl:warehouseOperatorName	0...1 0/*	String	Name of the person responsible for warehouse operations. ⁶
						tl:decommissionReasonCode	0...1 0/*	String	Required. Reason code for destroying. ⁷ See the DecommissionReasonCode enumeration list for valid values.

¹MA²01801³US⁴19406454-0022-000C-00B0-000000000152⁵986f2934-be05-438f-A30E-c15b90e15dbc⁶John Smith⁷PRODUCTION_DEFECT

Data Element					Occurs Length	Type	Description
				tl:reasonDescription	0...1 0/*	String	Description for destroy reason code. ¹
				tl:destructionMethod	0...1 0/*	String	Required. Method of destruction. See the DestructionMethod enumeration list for valid values.
			AggregationEvent		0...* -	-	AggregationEvent is option 2 for the EventList choice for the Aggregation events. EventList = AggregationEvent when all of the following is true: action = <code>ADD</code> bizStep = <code>urn:epcglobal:cbv:bizstep:packing</code> disposition = <code>urn:epcglobal:cbv:disp:in_progress</code>
				eventTime	1...1 1/*	DateTime	Required. Timestamp of date/time when the event occurred. Must include a time zone indicator as specified in Section 9.5 of [EPCIS1.0.1]. ²  The Event Time must be indicated in seconds. Default milliseconds to "0". This results in efficiency gains and smaller file sizes because serial numbers can be grouped together when the event times are the same.
				eventTimeZoneOffset	1...1 1/*	String	Required. Time zone offset in effect at time and place where the event occurred, consistent with what choice was made for eventTime . Per Section 7.2.8 of [EPCIS1.0.1]. ³
				parentID	1...1 1/*	AnyURI	Required. Identifier of the parent container in EPC Pure Identity URI format (e.g. for an item-to-case aggregation, the EPC of the case. For a case-to-pallet aggregation, the EPC of the pallet). - SGTIN: <code>urn:epc:id:sgtin:<company prefix>.<indicator digit + item reference>.<serial number></code> E.g. <code>urn:epc:id:sgtin:068202.0401034.11220207026272</code> - SSCC: <code>urn:epc:id:sscc:<company prefix>.<extension digit + serial number></code> E.g. <code>urn:epc:id:sscc:030944.10105363280</code> - CN EDMC: <code>http://epcis.tracelink.com/obj/cn-edmc/<serial number></code> E.g. <code>http://epcis.tracelink.com/obj/cn-edmc/88102321100002005943</code>
				childEPCs	1...1 -	-	Required. List of identifiers of the child items in the parent container in EPC Pure Identity URI format. Example: For an item-to-case aggregation, the EPCs of the items. For a case-to-pallet aggregation, the EPCs of the cases.

¹Defect from production²2013-10-01T22:10:0Z³-04:00

Data Element					Occurs Length	Type	Description
				epc	1... 1/*	String	Required. The EPC identifier in EPC Pure Identity URI format. See EPC Pure Identifier Format Examples .
				action	1...1 1/*	String	Required. The action value must equal ADD for the aggregation event. ¹ See the ActionType enumeration list for valid values.
				bizStep	0...1 0/*	AnyURI	The bizStep value must equal <code>urn:epcglobal:cbv:bizstep:packing</code> . ²
				disposition	0...1 0/*	AnyURI	The disposition value must equal <code>urn:epcglobal:cbv:disp:in_progress</code> . ³
				readPoint	0...1 -	-	Optional for AggregationEvent .
				id	1...1 0/*	AnyURI	Required. The SGLN EPC of the location of where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ⁴
				bizLocation	1...1 -	-	Required. Mandatory for AggregationEvent .
				id	1...1 0/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ⁵
				tl:aggregationEventExtensions	0...1 -	-	Extensions used for Aggregation Event.
				tl:packedStatus	0...1 0/*	String	The packout of the item or container using the supported enumeration values. ⁶ See the PackedStatus enumeration list for valid values.
				tl:quantity	0...1 -	Integer	The quantity of child serial numbers aggregated to the parent container in this aggregation. ⁷

¹ADD²urn:epcglobal:cbv:bizstep:packing³urn:epcglobal:cbv:disp:in_progress⁴urn:epc:id:sgln:1100001.12345.0⁵urn:epc:id:sgln:1100001.12345.0⁶FULL⁷48

Data Element					Occurs Length	Type	Description
				tl:resetContainerAggregation	0...1 -	Boolean	Reset container aggregation flag. ¹
				tl:epcOrderItemDetails	0...1 -	-	Group header with specific link between the aggregation event epc and @orderItemNumber.
				tl:epcOrderItemList	0...1 -	-	Required. Subgroup header.
				@orderItemNumber	0...1 0/*	String	Order item number attribute associating specific serial numbers with the price, VAT, and cost taxes reported in a specific instance of tl:orderItem .
				tl:epcOrderItem	1... 1/*	String	Required. Serial numbers associated with the pricing and tax information in the current instance of tl:orderItem .
				tl:extensionField	0... -	-	Customer extension point to pass in one or more name/value pairs containing additional data attributes not already supported in this message. These extensions are not stored by TraceLink and are used only for outbound mapping purposes when there is a requirement to provide additional data to a trade partner for this message, such as when a CMO is required to provide additional data fields to the brand owner. In this case, TraceLink would have a custom map for that trade partner to map these fields outbound. Different trade partners may have different field requirements and may therefore require that tl:extensionField be populated differently per trade partner. If this element group is populated both tl:fieldName and tl:fieldValue must be populated.
				tl:fieldName	1...1 1/*	String	Required. Populate with the field name provided by the trade partner receiving the mapped outbound message. The field name must match the field name provided by the trade partner exactly, including case, so that it can be properly detected in the outbound mapping.
				tl:fieldValue	1...1 1/*	String	Required. The field value content that corresponds to tl:fieldName .
			ObjectEvent		1...1 -	-	Required. ObjectEvent describing shipping events. Data = ObjectEvent for Shipping Events. EventList = ObjectEvent Shipping when all of the following is true: • action = OBSERVE • bizStep = urn:epcglobal:cbv:bizstep:shipping • disposition = urn:epcglobal:cbv:disp:in_transit

¹false

Data Element				Occurs Length	Type	Description
			eventTime	1...1 1/*	DateTime	Required. Timestamp of date/time when the event occurred. Must include a time zone indicator as specified in Section 9.5 of [EPCIS1.0.1].¹ ❗ The Event Time must be indicated in seconds. Default milliseconds to "0". This results in efficiency gains and smaller file sizes because serial numbers can be grouped together when the event times are the same.
			eventTimeZoneOffset	1...1 1/*	String	Required. Time zone offset in effect at time and place where the event occurred, consistent with what choice was made for eventTime. Per Section 7.2.8 of [EPCIS1.0.1].²
			epcList	1...1 -	-	Required. List of the EPCs of top-most containers (e.g. pallets, cases) in the shipment.
			epc	1...* 1/*	String	Required. Identifier of the child items in the parent container in EPC Pure Identity URI format.³ See EPC Pure Identifier Format Examples.
			action	1...1 0/*	String	Required. The action value must equal OBSERVE.⁴
			bizStep	0...1 0/*	AnyURI	Required. The bizStep value must equal urn:epcglobal:cbv:bizstep:shipping.⁵
			disposition	0...1 0/*	AnyURI	Required. The disposition value must equal urn:epcglobal:cbv:disp:in_transit.⁶
			readPoint	0...1 -	-	Required. This field identifies the location where the event occurred; i.e. the warehouse GLN location ID and storage location (e.g. shelf, bin) in URN format, that recorded the Object event.
			id	1...1 0/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier.⁷
			bizTransactionList	0...1 -	-	Conditionally required if bizStep = urn:epcglobal:cbv:bizstep:shipping.

¹2013-10-01T22:08:02.0Z²-04:00³urn:epc:id:sgtin:068202.0401034.11220207026272, urn:epc:id:sscc:030944.10105363280, http://epcis.tracelink.com/obj/cn-edmc/88102321100002005943, http://epcis.tracelink.com/obj/ntin/4150.001647778.1000000000002⁴OBSERVE⁵urn:epcglobal:cbv:bizstep:shipping⁶urn:epcglobal:cbv:disp:in_transit⁷urn:epc:id:sgln:0614141.12345.RP1

Data Element					Occurs Length	Type	Description
				bizTransaction	1...* 0/*	AnyURI	Required. This field is the business transaction identifiers for the Dispatch Advice (Advance Ship Notice) and/or invoice and/or purchase order governing this shipment, which are subject to Section 8.4.2 of (CBV1.0). The GLN that occurs after <code>urn:epcglobal:cbv:bt:</code> is the GLN of the party that issued the number (e.g. if customer issues PO Number, customer GLN is entered. If supplier issues ASN/delivery number supplier GLN is entered).¹  A delivery number or ASN is mandatory. All other transaction types are optional. The transaction number requirements vary by region. It is recommended that the following are always provided, when available, to fulfill compliance needs: • Purchase Order Number • Invoice Number • ASN
				@type	1...1 1/*	String	Required. The transaction identifier type using the supported enumeration values (e.g. PO, ASN, RETURN).²  Mandatory if cmn:TransactionIdentifier is populated. A delivery number or ASN is mandatory. All other transaction types are optional. See the TransactionId enumeration list for valid values.
				@date	0...1 0/*	Date	Required. The transaction identifier date.³
				extension	1...1 -	-	Main extension body for shipping event.  Source and Destination lists are optional even if party address master data is stored in the VocabularyElement in the EPCISMasterData extension in the message header.
				sourceList	1...1 -	-	Required. Source list identifies sending business, location, and carrier parties. sourceList supports one of two functions: 1. VocabularyElement is populated with party address master data: sourceList identifies sold-from, ship-from, or carrier party. Party master data is mapped from VocabularyElement.

¹urn:epcglobal:cbv:bt:0614141000029:9847856²urn:epcglobal:cbv:bt:desadv³2019-03-30

Data Element						Occurs Length	Type	Description
								2. VocabularyElement is not populated with party address master data: sourceList party identifiers used for master data lookup in the backend.
					source	1...* 0/*	String	Required. Source party identifier for sold-from, ship-from, or carrier parties. Party identifier in source either:¹ - Identifies sold-from, ship-from, or carrier party in populated VocabularyElement. Party address info is mapped from VocabularyElement. Nothing is mapped from VocabularyElement if there is no match between party identifier in sourceList source and VocabularyElement @id. sourceList/source supports master data lookup in TraceLink system. VocabularyElement is not populated or there is no match between party identifiers in source and VocabularyElement @id. If ship-from party the same as sold-from party, ship-from identifier does not need to be sent.  If the ship-from party is the same as the sold-from party, the ship-from identifier does not need to be sent. See the MDPartyTypeAttributes enumeration list for valid values.
					@type	1...1 0/*	String	Required.Type of source party identifier [i.e. owning (sold-from), location (ship-from), or carrier party.] Valid values:² - Sold-from party = urn:epcglobal:cbv:sd:owning_party (mandatory). - Ship-from party = urn:epcglobal:cbv:sd:location (only include if identifier different from owning_party).
					destinationList	- -	-	Required. Destination list identifies receiving business or location parties. destinationList supports one of two functions: VocabularyElement populated with party address master data: destinationList identifies sold-to, ship-to parties. Party master data mapped from VocabularyElement. VocabularyElement NOT populated with party address master data: destinationList party identifiers used for master data lookup in backend.
					destination	1...* 0/*	String	Required. Destination party identifier for sold-to or ship-to parties. Party identifier in destination either:³ Identifies sold-to or ship-to parties in populated VocabularyElement. Party address info is mapped from VocabularyElement. Nothing is mapped from VocabularyElement if there is no match between party identifier in destinationList destination and VocabularyElement @id.

¹urn:epc:id:sgln:088202.867701.0²urn:epcglobal:cbv:sd:owning_party³urn:epc:id:sgln:033333.101365.0

Data Element							Occurs Length	Type	Description
									2. destinationList destination supports master data lookup in the TraceLink system. VocabularyElement is not populated or there is no match between party identifiers in destination and VocabularyElement @id. If ship-to party is the same as sold-to party, ship-to identifier does not need to be sent. See the MDPartyTypeAttributes enumeration list for valid values.
						@type	1...1 0/*	String	Required. Identifies type of destination party identifier, i.e. owning (sold-to) or location (ship-to) party. Valid values:¹ - Sold-to party = <code>urn:epcglobal:cbv:sdt:owning_party</code> (mandatory). - Ship-to party = <code>urn:epcglobal:cbv:sdt:location</code> (only include if identifier different from owning_party).
					tl:shippingEventExtensions		0...1 -	-	Conditionally required if ShippingEvent is populated. Extensions used for Shipping Event.
					tl:transactionDate		1...1 -	Date	Required. Date associated with the business transaction document in bizTransactionList in YYYY-MM-DD format. This date may or may not be the same as the eventTime . ²
					tl:shipToCountryCode		1...1 2/2	String	Required. 2-letter ISO country code for ship to country. This value is referenced to advise regulatory reporting if it is required for the specified country market.³ Setting this value alone does not trigger regulatory reporting. Actual triggering of regulatory reporting is governed by customer administrative configuration in the TraceLink application.
					tl:shipFromCountryCode		0...1 2/2	String	2-letter ISO country code for ship from country. This value is referenced to advise regulatory reporting if it is required for the specified country market.⁴ Setting this value alone does not trigger regulatory reporting. Actual triggering of regulatory reporting is governed by customer administrative configuration in the TraceLink application.
					tl:salesDistributionType		1...1 1/*	String	Required. To set this value, compare the ship from country with the ship to country.⁵ INCOUNTRYSALE: If ship from country = ship to country (indicates a sale within the same country). EXPORTSALE: If ship from country <> ship to country (indicates a sale that is an export to another country). INCOUNTRYTRANSFER: A transfer within a company or with a partner such as 3PL or contract manufacturer/packager, occurring within the same country. EXPORTTRANSFER: A transfer within a company or with a partner such as 3PL or contract manufacturer/packager, made from one country to another.

¹urn:epcglobal:cbv:sdt:owning_party²2013-09-30³US⁴US⁵INCOUNTRYSALE

Data Element					Occurs Length	Type	Description
							INCOUNTRYRETURN: A shipment for a return of goods to the supplier, shipped within the same country. EXPORTRETURN: A shipment for a return of goods to the supplier, shipped from one country to another. The export value is not used. This value is referenced to advise regulatory reporting of exportation, if it is required for the specified country market. Setting this value alone does not trigger regulatory reporting. Actual triggering of regulatory reporting is governed by customer administrative configuration in the TraceLink application. See the SalesDistType enumeration list for valid values.
				tl:supplyType	0...1 0/*	String	Identifies the type of supply that is being performed using one of the permitted values. ¹ See the SupplyType enumeration list for valid values.
				tl:contractType	0...1 0/*	String	Identifies the type of contract for the sale of goods using one of the permitted values. ² See the ContractType enumeration list for valid values.
				tl:dropShipmentIndicator	0...1 0/*	Boolean	Indicates if shipment is a drop shipment. ³
				tl:comments	0...1 0/*	String	Optional remarks or comments associated with delivery.
				tl:warehouseOperatorName	0...1 0/*	String	Name of the person responsible for warehouse operations. ⁴
				tl:correctiveShipment	0...1 0/*	String	Corrective shipment flag is set when shipment is used to replace a previously voided shipment. ⁵
				tl:originalDeliveryNumber	0...1 0/*	String	Conditionally required if tl:correctiveShipment flag = true . Used to identify previous delivery that was voided and is being replaced by current delivery. ⁶
				tl:contractNumber	0...1 0/*	String	Identification number of the contract. ⁷

¹PatientDistribution²CompetitiveBid³false⁴John Smith⁵true⁶H9022413⁷1234567

Data Element					Occurs Length	Type	Description
				tl:fundingSource	0...1 0/*	String	Required. Source of the funding. ¹ See the FundingSource enumeration list for valid values.
				tl:entryPort	0...1 0/*	String	Name of the shipment's port of entry into a country (e.g. an airport, maritime port, border checkpoint).
				tl:exitPort	0...1 0/*	String	Name of the shipment's port of exit from a country (e.g. an airport, maritime port, border checkpoint).
				tl:deliveryInspection	0...1 0/*	String	The inspection status of the physical delivery against the delivery documentation. See the DeliveryInspection enumeration list for valid values.
				tl:deliveryInspectionDate	0...1 10/10	Date	The date of the physical delivery inspection against the delivery documentation in YYYY-MM-DD format. ²
				tl:deliveryInspectionNote	0...1 0/*	String	Comments about the physical delivery inspection against the delivery documentation.
				tl:removalFromCirculation	0...1 0/*	String	Reason the product in the delivery is taken out of the supply chain. See the RemovalFromCirculation enumeration list for valid values.
				tl:aggregationInspection	0...1 0/*	String	The inspection status of the aggregation hierarchy of the container. See the AggregationInspection enumeration list for valid values.
				tl:epcOrderItemDetails	0...1 -	-	Group header with specific link between the aggregation event epc and @orderItemNumber .
				tl:epcOrderItemList	1... *	-	Required. Subgroup header.
				@orderItemNumber	0...1 0/*	String	Order item number attribute associating specific serial numbers with the price, VAT, and cost taxes reported in a specific instance of tl:orderItem .
				tl:epcOrderItem	1... 1/*	String	Required. Serial numbers associated with the pricing and tax information in the current instance of tl:orderItem .
				tl:orderItemList	0...1 -	-	Order item list group is populated to communicate the pick quantities for each item code at the EACH (unit) level.

¹FederalBudgetFunds²2021-12-21

Data Element						Occurs Length	Type	Description
					tl:orderItem	1...* -	-	Required. Order item group is a repeating element that captures the item code, lot number and quantity for each item in the order. Each unique item code and lot number are communicated in a separate order item group.
					tl:orderItemNumber	0...1 0/*	String	Order item number attribute associating specific serial numbers with the price, VAT, and cost taxes reported in a specific instance of tl:orderItem .
					choice%1	- -	-	Conditionally required if ShipFromCountryCode = KR . Populate only one of cmn:InternalMaterialCode or cmn:PackagingItemCode . One of the two options must be present.
					tl:internalMaterialCode	0...1 1/*	String	Conditionally required if cmn:PackagingItemCode is not populated. Option 1 for choice%1 in OrderItem . Use to identify the product using the internal material number configured in Product Master Data. ¹
					tl:packagingItemCode	0...1 0/*	String	Conditionally required if tl:internalMaterialCode is not populated. Option 2 for choice%1 in OrderItem . Use to identify the product using the packaging level item code (e.g. GTIN-14) configured in Product Master Data. ²
					@type	0...1 0/*	String	Required. The product code type for the packaging item code using the supported enumeration values (e.g. GTIN-14). See the ItemCode enumeration list for valid values.
					cbvmdata:lotNumber	0...1 0/*	String	The lot or batch code for the items to be picked (if available) in an alphanumeric String. ³
					cbvmdata:itemExpirationDate	0...1 1/*	Date	The expiration date for the serialized item, in YYYY-MM-DD format. ⁴
					tl:quantity	1...1 0/*	String	The quantity of items at the EACH (unit) level of the item code and lot if specified to be picked. ⁵
					tl:unitPrice	0...1 0/*	Decimal	Required. Unit price of item. ⁶
					@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ⁷

¹100234²00882025030223³A12345⁴2017-12-31⁵50⁶35.67⁷USD

Data Element							Occurs Length	Type	Description
						tl:vat	0...1 -	Decimal	Value Added Tax per unit. ¹
						@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ² See the ISOCurrency enumeration list for valid values.
						tl:grossPrice	0...1 -	Decimal	Gross price including unit price and all taxes and fees. ³
						@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ⁴ See the ISOCurrency enumeration list for valid values.
						tl:isSerialized	0...1 0/*	Boolean	Indicates if item is not serialized. If omitted, defaults to true . ⁵
						tl:transactionIdentifier	0... 0/*	String	Transaction identifier at the line-item level of shipment. More than one transaction identifier may be present. ⁶
						@type	1...1 1/*	String	Required. The transaction identifier type. Valid values: • DESTRUCTION • INVOICE • NOTAFISCAL • OTHER • PO • RETURN
						@date	1...1 0/*	Date	The transaction identifier date. ⁷
						extension	0...1	-	EPCIS body event extension point. Contains the TransformationEvent . TransformationEvent is option 3 in the EventList

¹152.22²USD³152.22⁴USD⁵true⁶PO303005⁷2019-03-30

Data Element					Occurs Length	Type	Description
							choice. This extension can appear before or after commissioning event.
				TransformationEvent	0...1 -	-	Use the TransformationEvent to commission repackaged products. It is similar to the CommissioningEvent, but includes source products as input, and the commissioned serial numbers are the output repackaged products. The standard ilmd (instance level master data) captures product attributes, lot, and expiry like in a standard commission event. The TransformationEvent parameters are the same as the CommissioningEvent except there is no action: bizStep = <code>urn:epcglobal:cbv:bizstep:commissioning</code> (Optional) disposition = <code>urn:epcglobal:cbv:disp:active</code> (Optional)  The source and repackaged products can only be eaches. Cases and innerpacks not permitted.
				eventTime	1...1 1/*	DateTime	Required. The date/time when the disposition assigned occurs with a time zone indicator as specified in Section 9.5 of (EPCIS1.0.1) in YYYY-MM-DDTHH:MM:SS.mmZ format.¹  The Event Time must be indicated in seconds. Default milliseconds to "0". This results in efficiency gains and smaller file sizes because serial numbers can be grouped together when the event times are the same.
				recordTime	0...1 0/*	DateTime	Not used.
				eventTimeZoneOffset	1...1 1/*	String	Required. The time zone offset in effect at time and place where the disposition assigned occurred, consistent with what choice was made for eventTime . Per Section 7.2.8 of [EPCIS1.0.1]. ²
				inputEPCList	0...1 -	-	Conditionally required if inputQuantityList is missing; both groups may be present. The input EPC is the serial number of the source product that is transformed.  Only eaches are allowed in transformation event epc lists.
				epc	0...* 1/*	String	The EPC identifier must be an EPC Pure Identity URI as specified in Section 6 of [TDS1.5].³ SGTIN: Format: <code>urn:epc:id:sgtin:<company prefix>.<indicator digit + item reference>.<serial number></code>

¹2017-03-29T22:10:02.31Z²-04:00³urn:epc:id:sgtin:030000.0000001.100000001020 http://epcis.tracelink.com/obj/ntin/4150.001647778.1000000000002

Data Element						Occurs Length	Type	Description
								Example: <code>urn:epc:id:sgtin:068202.0401034.11220207026272</code>
					inputQuantityList	0...1 -	-	Conditionally required if inputEPCList is missing; both groups may be present. Specifies non-serialized source products with packaging product code, lot number, and quantity. Format: <code>urn:epc:idpat:ObjectIdentifierType:CompanyPrefix.ItemRefAndIndicator.*</code> - For GTIN based source product, GTIN + Lot is expressed as: <code>urn:epc:class:lgtn:030000.0000001.L12345</code> - For NTIN based source product, NTIN + Lot is expressed as: <code>http://epcis.tracelink.com/hc/lntin/class/4150.001647778.L12345</code>  The source products can only reference GTINs and NTINs for eaches. Cases and innerpacks not permitted.
					quantityElement	1...* -	-	Required. Identifies a quantity of source products that are identified by a specific class-level 940 identifier in urn format.
					epcClass	1...1 1/*	String	Required. A class level identifier for the source product in the inputQuantityList for which the quantity is provided.¹ Format: <code>urn:epc:idpat:ObjectIdentifierType:CompanyPrefix.ItemRefAndIndicator.*</code> - For GTIN based source product, GTIN + Lot is expressed as: <code>urn:epc:class:lgtn:030000.0000001.L12345</code> - For NTIN based source product, NTIN + Lot is expressed as: <code>http://epcis.tracelink.com/hc/lntin/class/4150.001647778.L12345</code>
					quantity	1...1 -	Integer	Required. A number that specifies how many or how much of the specified epcClass is denoted by this quantityElement . ²
					uom	0...1 0/*	String	Unit of measure for the epcClass quantity.
					outputEPCList	1...1 -	-	Required. Provides the epc serial number for the transformed product. outputEPCList is mandatory if Transformation Event is populated.  Only eaches are allowed in Transformation Event EPC lists.

¹urn:epc:class:lgtn:030000.0000001.L12345²10

Data Element					Occurs Length	Type	Description
				epc	1... 1/*	String	Required. Identifier of the child items in the parent container in EPC Pure Identifier URI format as specified in Section 6 of [TDS1.5].¹ CN EDMC: - Format: <code>http://epcis.tracelink.com/hc/cn-edmc/obj/<serial number></code> - Example: <code>http://epcis.tracelink.com/hc/cn-edmc/obj/88102301100002005943</code> SGTIN: - Format: <code>urn:epc:id:sgtin:<company prefix>.<indicator digit + item reference>.<serial number></code> - Example: <code>urn:epc:id:sgtin:068202.0401034.11220207026272</code> SSCC: - Format: <code>http://epcis.tracelink.com/hc/ntin/obj/<company prefix>.<item reference>.<serial number></code> - Example: <code>http://epcis.tracelink.com/hc/ntin/obj/4150.001647778.100000000002</code>
				transformationID	0...1 0/*	AnyURI	An identifier that links this event to other Transformation Events using an identical transformationID value. When specified, all inputs to all events sharing the same value of the transformationID may contribute to all outputs of all events sharing that value of transformationID .
				bizStep	0...1 0/*	AnyURI	The bizStep value must be set to <code>urn:epcglobal:cbv:bizstep:commissioning</code> . ²
				disposition	0...1 0/*	AnyURI	The disposition value must be set to <code>urn:epcglobal:cbv:disp:active</code> . ³
				readPoint	0...1 -	-	Not used in Transformation Event.
				id	0...1 0/*	AnyURI	Not used in Transformation Event. ⁴
				bizLocation	1...1 -	-	Required. Refers to the location of the product after the Transformation Event has occurred.

¹urn:epc:id:sgtin:088202.5503022.1000000000670²urn:epcglobal:cbv:bizstep:commissioning³urn:epcglobal:cbv:disp:active⁴urn:epc:id:sgln:777776.67345.0

Data Element					Occurs Length	Type	Description
				id	1...1 1/*	AnyURI	Required. The SGLN EPC of the location from where the commissioning occurred. This may be a site-level SGLN or a finer-grain location identifier. ¹
				bizTransactionList	0...* 1/*	String	The business transaction identifiers provide an unordered list of 0 or more business transactions that define the context of this event.
				ilmd	0...1 -	-	Instance lot master data specific to product being commissioned.
				cbvmdata:lotNumber	0...1 1/*	String	Required. The lot number associated with the tl:internalMaterialCode , tl:packagingItemCode , or tl:countryDrugCode specified above that is used to identify the serial numbers that will be updated. ²
				cbvmdata:itemExpirationDate	0...1 0/*	Date	The expiration date for the serialized item in YYYY-MM-DD format. ³
				tl:commissionEventExtensions	0...1 -	-	Required. Extensions used for Commission ObjectEvent .
				tl:filterValue	0...1 -	Int	Not used.
				tl:packagingLevel	1...1 0/*	String	Required. The packaging level of the commissioned item. Valid value: EA = Each ⁴ <i>ⓘ</i> To be GS1 EPCIS-conformant, send this value in the VocabularyElement master data, unless current item has an SSCC code with associated product master data.
				tl:epcAttributes	0...* -	-	Supports optional inclusion of human readable barcode content associated with each epc number in a commission event. Only included if provided in original commission event.
				@epc	1...1 1/*	String	The EPC serial number to which the tl:barcodeContent is associated. The epc must be an EPC Pure Identity URI as specified in Section 6 of [TDS1.5]. Valid value: SGTIN ⁵

¹urn:epc:id:sgln:7777776.67345.0²L120012³2019-12-31⁴EA⁵urn:epc:id:sgtin:088202.0503022.100000001020

Data Element							Occurs Length	Type	Description
						tl:barcodeContent	1...1 0/*	String	The human readable barcode contents encoded in the 2D barcode with parenthesis for the AI keys. ¹
						tl:plantLocationId	0...1 0/*	String	Identifier of plant where products are commissioned. ²
						tl:productionLineId	0...1 1/*	String	Identifier of production line where products are commissioned. ³
						tl:lineManagerName	0...1 0/*	String	Name of the person responsible as the production line manager for the commissioned products. ⁴
						tl:companyPrefix	0...1 0/*	String	The GS1 Company Prefix.
						tl:internalMaterialCode	0...1 0/*	String	Internal material number for the product in the Pharmaceutical Manufacturer's internal systems (e.g. ERP). ⁵ <i>i</i> See the following additional information: - To be GS1 EPCIS-conformant, send this value in the VocabularyElement Master Data, unless the current item has an SSCC code with associated product master data. - The message may include either tl:internalMaterialCode, tl:countryDrugCode, or both, but all packaging levels must be consistent.
						tl:packagingItemCode	0...1 0/*	String	The product code for the commissioned item (e.g. GTIN-14). ⁶ <i>i</i> To be GS1 EPCIS-conformant, send this value in the VocabularyElement master data, unless current item has an SSCC code with associated product master data.
						@type	1...1 1/*	String	Conditionally required if tl:packagingItemCode is populated. The product code type. Valid values: ⁷ GTIN-14

¹(01)00882025030223(21)100000001020(17)190331(10)L120012²M0034³L009⁴John Smith⁵11002541210⁶00882025030223⁷GTIN-14

Data Element								Occurs Length	Type	Description
										NTIN
						tl:countryDrugCode		0...1 0/*	String	The national drug code for the commissioned item (e.g. NDC number for US products).¹ i See the following additional information: - To be GS1 EPCIS-conformant, send this value in the VocabularyElement Master Data, unless the current item has an SSCC code with associated product master data. - The message may include either tl:internalMaterialCode, tl:countryDrugCode, or both, but all packaging levels must be consistent.
						@type		1...1 1/*	String	Required. The national drug code type using the supported enumeration values and any formatting instructions provided.² i To be GS1 EPCIS-conformant, send this value in the VocabularyElement master data, unless current item has an SSCC code with associated product master data. See the CountryDrugCode enumeration list for valid values.
						tl:manufacturingDate		0...1 0/10	Date	The date of manufacture for the serialized item in YYYY-MM-DD format. ³
						tl:countryMarket		0...1 0/3	String	The country using the standard two or three-letter abbreviation specified in ISO 3166-1alpha-2:1997 country code. ⁴
						tl:printedExpirationDate		0...1 0/10	Date	Expiration date printed on label in YYYY-MM-DD format. ⁵
						tl:referenceDocuments		0...1 -	-	Reference document identifier associated with the commissioning activity.
						tl:poNumber		0...1 0/*	String	PO Number associated with serial number use.
						tl:poLine		0...1	String	PO Line number.

¹8202503022²US_NDC442³2017-03-29⁴US⁵2017-03-29

Data Element								Occurs Length	Type	Description
							tl:workOrderNumber	0...1 0/*	String	Work Order number associated with serial number use.
							tl:referenceIdentifier	0...1 0/*	String	Reference identifier (e.g. any type of identifier) associated with serial number use.
							tl:extensionField	0...* -	-	Customer extension point to supply 1 or more name/value pairs containing additional data attributes not already supported in this message.  If this element group is populated both tl:fieldName and tl:fieldValue elements must be populated.  These extensions are not stored by TraceLink and are only used for outbound mapping purposes when there is a requirement to provide additional data to a partner for this message, such as when a CMO is required to provide additional data fields to the brand owner. In this case, TraceLink would have a custom map for that partner to map these fields outbound. Different partners may have different field requirements and may therefore require that the ExtensionField be populated differently per trade partner.
							tl:fieldName	1...1 1/*	String	Required. Populate with the field name provided by the partner that will be receiving the mapped outbound message.¹  The field name must match the field name provided by the trade partner exactly, including case so that it can be properly detected in the outbound mapping.
							tl:fieldValue	1...1 1/*	String	Required. Populate with the field value content that corresponds to tl:fieldName . ²
							extension	0...1 -	-	TransformationEvent extension.
							tl:decommissionSourceProduct	0...1 -	Boolean	When set to true , instructs system to implicitly decommission serial numbers used for repackaging. Saves a step in the repack operation so that separate decommission events do not need to be sent. ³
							tl:registerSourceProduct	0...1	Boolean	Triggers registration of serial numbers that are not known to the TraceLink system. Defaults to false if not populated. ⁴

¹POTENCY²100 MG³true⁴true

Data Element							Occurs Length	Type	Description
									If value = true , tl:repackInputAttributes element group must be populated.
						tl:repackInputAttributes	0...1 -	-	Conditionally required if cmn:registerSourceProduct = true . Repack input common attributes group with product info for input product.
						cbvmdata:lotNumber	1...1 0/20	String	Required. The lot or batch code for the transformation input product in an alphanumeric string of up to 20 characters. ¹
						cbvmdata:itemExpirationDate	0...1 0/*	Date	Required. The expiration date for the transformation input product in YYYY-MM-DD format. ²

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<epcis:EPCISDocument xmlns:cbvmdata="urn:epcglobal:cbv:mda" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:tl="http://epcis.tracelink.com/ns"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader" schemaVersion="1.2"
creationDate="2017-08-31T17:45:20.0Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier Authority="GLN">8779891013658</sbdh:Identifier>
      </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier Authority="GLN">1223331013844</sbdh:Identifier>
      </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>201907251</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2019-01-09T19:12:53</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
  </EPCISHeader>
</epcis:EPCISDocument>
```

¹B64894²2020-04-28


```

    </sbdh:DocumentIdentification>
</sbdh:StandardBusinessDocumentHeader>
<extension>
  <EPCISMasterData>
    <VocabularyList>
      <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
        <VocabularyElementList>
          <VocabularyElement id="urn:epc:idpat:sgtin:068202.0401034.*">
            <attribute id="http://epcis.tracelink.com/mda/packageTypeCode">CS</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">133661</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">MANUFACTURER_PART_NUMBER</attribute>
          </VocabularyElement>
        </VocabularyElementList>
      </Vocabulary>
      <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
        <VocabularyElementList>
          <!-- SourceList owning_party (sold from business party) -->
          <VocabularyElement id="urn:epc:id:sgln:088202.867701.0">
            <attribute id="urn:epcglobal:cbv:mda#name">Clara Manufacturing</attribute>
            <attribute
id="http://epcis.tracelink.com/mda/additionalPartyIdentificationValue">712333444</attribute>
            <attribute
id="http://epcis.tracelink.com/mda/additionalPartyIdentificationTypeCode">DEA</attribute>
            <attribute
id="http://epcis.tracelink.com/mda/businessClassification">MANUFACTURER</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">10 Welsh St</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Malden</attribute>
            <attribute id="http://epcis.tracelink.com/mda/district"></attribute>
            <attribute id="http://epcis.tracelink.com/mda/village"></attribute>
            <attribute id="http://epcis.tracelink.com/mda/houseNumber"></attribute>
            <attribute id="http://epcis.tracelink.com/mda/township"></attribute>
            <attribute id="http://epcis.tracelink.com/mda/corporateFax"></attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">MA</attribute>
            <attribute id="urn:epcglobal:cbv:mda#postalCode">02148</attribute>
            <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
            <attribute id="http://epcis.tracelink.com/mda/AddressObjectGUID"></attribute>
            <attribute id="http://epcis.tracelink.com/mda/HouseGUID"></attribute>

```

```

        <attribute id="http://epcis.tracelink.com/mda/partyRoleCode"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/premisesCode"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/taxRegistrationCode"></attribute>
    </VocabularyElement>
    <!-- SourceList loccation (ship from location) -->
    <VocabularyElement id="urn:epc:id:sgln:088202.867702.0">
        <attribute id="urn:epcglobal:cbv:mda#name">Clara Manufacturing</attribute>
        <attribute
id="http://epcis.tracelink.com/mda/additionalPartyIdentificationValue">712333444</attribute>
        <attribute
id="http://epcis.tracelink.com/mda/additionalPartyIdentificationTypeCode">DEA</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">10 Welsh St</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">Malden</attribute>
        <attribute id="http://epcis.tracelink.com/mda/district"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/village"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/houseNumber"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/township"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/corporateFax"></attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">MA</attribute>
        <attribute id="urn:epcglobal:cbv:mda#postalCode">02148</attribute>
        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        <attribute id="http://epcis.tracelink.com/mda/AddressObjectGUID"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/HouseGUID"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/partyRoleCode"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/premisesCode"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/taxRegistrationCode"></attribute>
    </VocabularyElement>
    <!-- DestinationList owning_party (sold to business party) -->
    <VocabularyElement id="urn:epc:id:sgln:033333.101365.0">
        <attribute id="urn:epcglobal:cbv:mda#name">Grondin Pharmacy</attribute>
        <attribute
id="http://epcis.tracelink.com/mda/additionalPartyIdentificationValue">P1223330</attribute>
        <attribute
id="http://epcis.tracelink.com/mda/additionalPartyIdentificationTypeCode">HIN</attribute>
        <attribute id="http://epcis.tracelink.com/mda/partyRoleCode">PHARMACY</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">100 Main Street</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">Porsmouth</attribute>
        <attribute id="http://epcis.tracelink.com/mda/district"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/village"></attribute>

```

```

    <attribute id="http://epcis.tracelink.com/mda/houseNumber"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/township"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/corporateFax"></attribute>
    <attribute id="urn:epcglobal:cbv:mda#state">NH</attribute>
    <attribute id="urn:epcglobal:cbv:mda#postalCode">03801</attribute>
    <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    <attribute id="http://epcis.tracelink.com/mda/AddressObjectGUID"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/HouseGUID"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/partyRoleCode"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/premisesCode"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/taxRegistrationCode"></attribute>
  </VocabularyElement>
  <!-- DestinationList location (ship to location) -->
  <VocabularyElement id="http://epcis.gslns.org/hc/dea/loc/12345678">
    <attribute id="urn:epcglobal:cbv:mda#name">Grondin Pharmacy</attribute>
    <attribute
id="http://epcis.tracelink.com/mda/additionalPartyIdentificationValue">122333</attribute>
    <attribute
id="http://epcis.tracelink.com/mda/additionalPartyIdentificationTypeCode">COMPANYSITEID</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">100 Main Street</attribute>
    <attribute id="urn:epcglobal:cbv:mda#city">Porsmouth</attribute>
    <attribute id="http://epcis.tracelink.com/mda/district"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/village"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/houseNumber"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/township"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/corporateFax"></attribute>
    <attribute id="urn:epcglobal:cbv:mda#state">NH</attribute>
    <attribute id="urn:epcglobal:cbv:mda#postalCode">03801</attribute>
    <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    <attribute id="http://epcis.tracelink.com/mda/AddressObjectGUID"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/HouseGUID"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/partyRoleCode"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/premisesCode"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/taxRegistrationCode"></attribute>
  </VocabularyElement>
  <!-- SourceList loation (carrier party) -->
  <VocabularyElement id="urn:epc:id:sgln:064202.867703.0">
    <attribute id="urn:epcglobal:cbv:mda#name">FED EX</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">180 Fedex Road</attribute>

```

```

        <attribute id="urn:epcglobal:cbv:mda#city">Atlanta</attribute>
        <attribute id="http://epcis.tracelink.com/mda/district"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/village"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/houseNumber"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/township"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/corporateFax"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/district">456</attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">GA</attribute>
        <attribute id="urn:epcglobal:cbv:mda#postalCode">31305</attribute>
        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        <attribute id="http://epcis.tracelink.com/mda/AddressObjectGUID"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/HouseGUID"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/partyRoleCode"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/premisesCode"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/taxRegistrationCode"></attribute>
    </VocabularyElement>
</VocabularyElementList>
</Vocabulary>
</VocabularyList>
</EPCISMasterData>
</extension>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <ObjectEvent>
            <eventTime>2019-07-25T21:39:23.8307Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:068202.0401034.11220207024595</epc>
            </epcList>
            <action>ADD</action>
            <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
            <disposition>urn:epcglobal:cbv:disp:active</disposition>
            <bizLocation>
                <id>urn:epc:id:sgln:9997777.01994.0</id>
            </bizLocation>
            <extension>
                <ilmd>
                    <cbvmda:lotNumber>L120010</cbvmda:lotNumber>
                </ilmd>
            </extension>
        </ObjectEvent>
    </EventList>
</EPCISBody>
</EPCIS>

```

```

        <cbvmda:itemExpirationDate>2029-01-20</cbvmda:itemExpirationDate>
        <tl:commissionEventExtensions>
            <tl:manufacturingDate>2019-07-25</tl:manufacturingDate>
        </tl:commissionEventExtensions>
    </ilmd>
</extension>
</ObjectEvent>
<ObjectEvent>
    <eventTime>2019-07-25T21:39:24.830Z</eventTime>
    <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
    <epcList>
        <epc>urn:epc:id:sgtin:068202.0401034.11220207024594</epc>
    </epcList>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
    <disposition>urn:epcglobal:cbv:disp:active</disposition>
    <bizLocation>
        <id>urn:epc:id:sgln:9997777.01994.0</id>
    </bizLocation>
    <extension>
        <ilmd>
            <cbvmda:lotNumber>L120012</cbvmda:lotNumber>
            <cbvmda:itemExpirationDate>2029-07-25</cbvmda:itemExpirationDate>
            <tl:commissionEventExtensions>
                <tl:manufacturingDate>2019-07-25</tl:manufacturingDate>
            </tl:commissionEventExtensions>
        </ilmd>
    </extension>
</ObjectEvent>
<AggregationEvent>
    <eventTime>2019-09-25T21:39:26.8307Z</eventTime>
    <eventTimeZoneOffset>-04:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sgtin:068202.0401034.11220207024597</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:068202.0401034.11220207026272</epc>
        <epc>urn:epc:id:sgtin:068202.0401034.11220207026273</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>

```

```

    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <bizLocation>
      <id>urn:epc:id:sgln:9997777.01994.0</id>
    </bizLocation>
  </AggregationEvent>
  <!-- Shipping -->
  <ObjectEvent>
    <eventTime>2019-07-25T21:39:27.8Z</eventTime>
    <eventTimeZoneOffset/>
    <epcList>
      <epc>urn:epc:id:sscc:005434.40000000021</epc>
    </epcList>
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
      <id>urn:epc:id:sgln:9997777.01994.0</id>
    </readPoint>
    <bizTransactionList>
      <bizTransaction type="urn:epcglobal:cbv:btt:po" date="2019-07-
25">urn:epcglobal:cbv:bt:0333331013655:45006290016</bizTransaction>
      <bizTransaction type="urn:epcglobal:cbv:btt:desadv" date="2019-07-
25">urn:epcglobal:cbv:bt:0882028677019:H9022413</bizTransaction>
    </bizTransactionList>
    <extension>
      <sourceList>
        <source type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:9997777.01994.0</source>
        <source type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:9997777.01994.0</source>
        <source type="http://epcis.tracelink.com/sdt/carrier_
party">urn:epc:id:sgln:064202.867703.0</source>
      </sourceList>
      <destinationList>
        <destination type="urn:epcglobal:cbv:sdt:owning_
party">urn:epc:id:sgln:1223331.01384.0</destination>
        <destination
type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:1223331.01384.0</destination>
      </destinationList>
    </extension>
    <tl:shippingEventExtensions>

```

```

<tl:transactionDate>2019-07-25</tl:transactionDate>
<tl:shipToCountryCode>US</tl:shipToCountryCode>
<tl:salesDistributionType>INCOUNTRYSALE</tl:salesDistributionType>
<tl:supplyType>MedicalCareDistribution</tl:supplyType>
<tl:contractType>CompetitiveBid</tl:contractType>
<tl:dropShipmentIndicator>>false</tl:dropShipmentIndicator>
<tl:comments>Special shipment handling</tl:comments>
<tl:contractNumber>C008</tl:contractNumber>
<tl:warehouseOperatorName>John Smith</tl:warehouseOperatorName>
<tl:correctiveShipment>>true</tl:correctiveShipment>
<tl:originalDeliveryNumber>H9022413</tl:originalDeliveryNumber>
<tl:fundingSource>OwnFunds</tl:fundingSource>
<tl:entryPort></tl:entryPort>
<tl:exitPort></tl:exitPort>
<tl:epcOrderItemDetails>
  <tl:epcOrderItemList orderItemNumber="807">
    <tl:epcOrderItem>urn:epc:id:sgtin:068202.0401034.11220207024597</tl:epcOrderItem>
  </tl:epcOrderItemList>
</tl:epcOrderItemDetails>
<tl:orderItemList>
  <tl:orderItem>
    <tl:orderItemNumber>807</tl:orderItemNumber>
    <tl:packagingItemCode type="GTIN-14">00882025503022</tl:packagingItemCode>
    <cbvmda:itemExpirationDate>2029-07-25</cbvmda:itemExpirationDate>
    <tl:quantity>5</tl:quantity>
    <tl:unitPrice currencyCode="USD">100.00</tl:unitPrice>
    <tl:vat currencyCode="USD">50.00</tl:vat>
    <tl:grossPrice currencyCode="USD">150.00</tl:grossPrice>
    <tl:transactionIdentifier type="PO" date="2019-09-25">PO90</tl:transactionIdentifier>
  </tl:orderItem>
</tl:orderItemList>
</tl:shippingEventExtensions>
</ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

Errors

Data Element	Error Message	Description	Inbound / Outbound
Class 1			
sbdh:Sender sbdh:Identifier	Source message sender is required !!!	The error occurs if the source is empty or null.	OB
sbdh:Sender sbdh:Identifier @Authority	Valid Sender/Identifier Authority is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.	IB
	Partner type in source type attribute is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.	OB
sbdh:Receiver sbdh:Identifier	Source message receiver is required !!!	The error occurs if the source is empty or null.	OB
sbdh:Receiver sbdh:Identifier @Authority	Valid Receiver/Identifier Authority is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.	IB
	Partner type in source type attribute is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.	OB
VocabularyElement @id	Item code is required in source VocabularyElement[@id] !!!	The error occurs if the source @id that identifies the product code for which master data is being sent is missing.	IB
	SGTIN or NTIN or CN-EDMC in VocabularyElement id is required !!!	The error occurs if the source @id that identifies the product code for which master data is being sent is not in SGTIN, NTIN, or CN-EDMC format and master data is present in the header extension.	IB
VocabularyElement attribute	Valid packagingLevel code required !!!	The error occurs if the source attribute that identifies the packaging level is not a valid value from the enumeration list.	IB
	Packaging code in source PackagingLevel is required !!!	The error occurs if cmnPackagingLevel is empty or null.	OB
	Packaging Level is required if header master data is populated !!!	The error occurs if the source attribute that identifies the packaging level is not present but header master data is present.	IB
	Only one country drug code is supported !!!	The error occurs if the source attribute that identifies the country drug code contains more than one drug code.	IB
	Either InternalMaterialCode or CountryDrugCode	The error occurs if both an internal material	OB

Data Element	Error Message	Description	Inbound / Outbound
	is required !!!	number and country drug code are not present.	
VocabularyElement	Sold from party identifier is required !!!	The error occurs if the source VocabularyElement that contains the sold from business party identifier and address information is missing and Vocabulary @type equals "urn:epcglobal:epcis:vtype:Location".	IB
VocabularyElement @id	GLN party type not supported. SGLN is required !!!	The error occurs if the source @id that identifies the SGLN for the sold from or transfer from business party is a GLN.	IB
	Valid sold from business party identifier type is required !!!	The error occurs if the source @id for the identifier type for the sold from business party embedded in the urn/http prefix is invalid.	IB/OB
VocabularyElement attribute	Valid additional business party identifier type is required !!!	The error occurs if the source attribute that identifies the type of BusinessID identifier for the sold from party name is invalid.	OB
	Sold from party business name is required !!!	The error occurs if the source attribute that identifies the sold from party name is missing or null.	IB/OB
	Valid business classification code is required !!!	The error occurs if the source attribute for Argentina business classification for the sold from business party is invalid.	IB
	Sold from party business street address is required !!!	The error occurs if the source attribute for the first line of the sold from business or party's street address is missing or null.	IB/OB
	Sold from party city name is required !!!	The error occurs if the source attribute that identifies the sold from business or party's city is missing or null.	IB/OB
	3-digit numeric District code required for country India !!!	The error occurs if the source attribute that identifies the sold from business or party's District code for India is invalid and country = IN.	IB/OB
	Sold from business party state or region is required !!!	The error occurs if the source attribute that identifies the sold from business or party's state or	IB

Data Element	Error Message	Description	Inbound / Outbound
		region is missing or null.	
	Sold from party state code is required !!!	The error occurs if the source attribute that identifies the sold from business or party's state or region is missing or null.	OB
	Sold from business party country is required !!!	The error occurs if the source attribute that identifies the sold from business or party's country is missing or null.	IB
	Valid Sold from business party country is required !!!	The error occurs if the source attribute that identifies the sold from business or party's country is present but there is no matching entry in the lookup file.	IB
	Valid sold from party country code is required !!!	The error occurs if the source attribute that identifies the sold from business or party's country is present but there is no matching entry in the lookup file.	OB
VocabularyElement	Ship from party info required in VocabularyElement if present in sourceList !!!	The error occurs if the source VocabularyElement that contains the ship from business party identifier and address information is present in sourceList but is missing.	IB
VocabularyElement @id	GLN party type not supported. SGLN is required !!!	The error occurs if the source @id that identifies the SGLN for the ship from location is a GLN.	IB
	Valid ship from business party identifier type is required !!!	The error occurs if the source @id for the identifier type for the ship from business party location embedded in the urn/http prefix is invalid.	IB
	Valid ship from location identifier type is required !!!	The error occurs if the source @id for the identifier type for the ship from business party location embedded in the urn/http prefix is invalid.	OB
VocabularyElement attribute	Valid additional location identifier type is required !!!	The error occurs if the source attribute that identifies the type of FacilityID identifier for the sold from party name is invalid.	OB
	Ship from business party name is required !!!	The error occurs if the source attribute that identifies the ship from party name is missing or	IB

Data Element	Error Message	Description	Inbound / Outbound
		null.	
	Ship from location name is required !!!	The error occurs if the source attribute that identifies the ship from party name is missing or null.	OB
	Ship from location street address is required !!!	The error occurs if the source attribute for the first line of the ship from business or party's street address is missing or null.	IB/OB
	Ship from location city name is required !!!	The error occurs if the source attribute that identifies the ship from business or party's city is missing or null.	IB/OB
	3-digit numeric District code required for country India !!!	The error occurs if the source attribute that identifies the ship from business or party's District code for India is invalid and country = IN.	IB/OB
	Ship from location state or region is required !!!	The error occurs if the source attribute that identifies the ship from business or party's state or region is missing or null.	IB
	Ship from location state code is required !!!	The error occurs if the source attribute that identifies the ship from business or party's state or region is missing or null.	OB
	Ship from location country is required !!!	The error occurs if the source attribute that identifies the ship from business or party's country is missing or null.	IB
	Valid Ship from location country is required !!!	The error occurs if the source attribute that identifies the ship from business or party's country is present but there is no matching entry in the lookup file.	IB
	Valid ship from location country code is required !!!	The error occurs if the source attribute that identifies the ship from business or party's country is present but there is no matching entry in the lookup file.	OB
VocabularyElement	Sold to party identifier is required !!!	The error occurs if the source VocabularyElement that contains the sold to business party identifier	IB

Data Element	Error Message	Description	Inbound / Outbound
		and address information is missing and Vocabulary I @type equals "urn:epcglobal:epcis:vtype:Location".	
VocabularyElement I @id	GLN party type not supported. SGLN is required !!!	The error occurs if the source @id that identifies the SGLN for the sold to or transfer to business party is a GLN.	IB
	Valid sold to business party identifier type is required !!!	The error occurs if the source @id for the identifier type for the sold to business party embedded in the urn/http prefix is invalid.	IB/OB
VocabularyElement I @attribute	Valid additional business party identifier type is required !!!	The error occurs if the source @attribute that identifies the type of BusinessID identifier for the sold to party name is invalid.	OB
	Sold to party business name is required !!!	The error occurs if the source @attribute that identifies the sold to party name is missing or null.	IB/OB
	Valid business classification code is required !!!	The error occurs if the source @attribute for Argentina business classification for the sold to business party is invalid.	IB
	Sold to business party street address is required !!!	The error occurs if the source @attribute for the first line of the sold to business or party's street address is missing or null.	IB
	Sold to business party city is required !!!	The error occurs if the source @attribute that identifies the sold to business or party's city is missing or null.	IB
	Sold to party city name is required !!!	The error occurs if the source @attribute that identifies the sold to business or party's city is missing or null.	OB
	3-digit numeric District code required for country India !!!	The error occurs if the source @attribute that identifies the sold to business or party's District code for India is invalid and country = IN.	IB/OB
	Sold to business party state or region is required !!!	The error occurs if the source @attribute that identifies the sold to business or party's state or region is missing or null.	IB

Data Element	Error Message	Description	Inbound / Outbound
	Sold to party state code is required !!!	The error occurs if the source attribute that identifies the sold to business or party's state or region is missing or null.	OB
	Sold to business party country is required !!!	The error occurs if the source attribute that identifies the sold to business or party's country is missing or null.	IB
	Valid Sold to business party country is required !!!	The error occurs if the source attribute that identifies the sold to business or party's country is present but there is no matching entry in the lookup file.	IB
	Valid sold to party country code is required !!!	The error occurs if the source attribute that identifies the sold to business or party's country is present but there is no matching entry in the lookup file.	OB
VocabularyElement	Ship to party info required in VocabularyElement if present in destinationList !!!	The error occurs if the source VocabularyElement that contains the ship to business party identifier and address information is present in destinationList but is missing.	IB
VocabularyElement @id	GLN party type not supported. SGLN is required !!!	The error occurs if the source @id that identifies the SGLN for the ship to location is a GLN.	IB
	Valid ship to business party identifier type is required !!!	The error occurs if the source @id for the identifier type for the ship to business party location embedded in the urn/http prefix is invalid.	IB
	Ship to location identifier is required !!!	The error occurs if the group that contains source @id for the identifier type for the ship to business party location is present but the source @id is missing.	OB
	Valid ship to location identifier type is required !!!	The error occurs if the source @id for the identifier type for the ship to business party location embedded in the urn/http prefix is invalid.	OB
VocabularyElement attribute	Valid additional location identifier type is required !!!	The error occurs if the source attribute that identifies the type of BusinessID identifier for the ship to party name is invalid.	OB

Data Element	Error Message	Description	Inbound / Outbound
	Ship to business party name is required !!!	The error occurs if the source attribute that identifies the ship to party name is missing or null.	IB
	Ship to location name is required !!!	The error occurs if the source attribute that identifies the ship to party name is missing or null.	OB
	Ship to location street address is required !!!	The error occurs if the source attribute for the first line of the ship to business or party's street address is missing or null.	IB/OB
	Ship to location city is required !!!	The error occurs if the source attribute that identifies the ship from business or party's city is missing or null.	IB
	Ship to location city name is required !!!	The error occurs if the source attribute that identifies the ship from business or party's city is missing or null.	OB
	3-digit numeric District code required for country India !!!	The error occurs if the source attribute that identifies the ship to business or party's District code for India is invalid and country = IN.	IB/OB
	Ship to location state or region is required !!!	The error occurs if the source attribute that identifies the ship to business or party's state or region is missing or null.	IB
	Ship to location state code is required !!!	The error occurs if the source attribute that identifies the ship to business or party's state or region is missing or null.	OB
	Ship to location country is required !!!	The error occurs if the source attribute that identifies the ship to business or party's country is missing or null.	IB
	Valid Ship to location country is required !!!	The error occurs if the source attribute that identifies the ship to business or party's country is present but there is no matching entry in the lookup file.	IB
	Valid ship to party country code is required !!!	The error occurs if the source attribute that identifies the ship to business or party's country is present but there is no matching entry in the	OB

Data Element	Error Message	Description	Inbound / Outbound
		lookup file.	
VocabularyElement	Carrier party info required in VocabularyElement if present in sourceList !!!	The error occurs if the source VocabularyElement that contains the carrier business party identifier and address information is present in sourceList but is missing.	IB
VocabularyElement @id	GLN party type not supported. SGLN is required !!!	The error occurs if the source @id that identifies the SGLN for the carrier business party is a GLN.	IB
	Valid carrier business party identifier type is required !!!	The error occurs if the source @id for the identifier type for the carrier business party embedded in the urn/http prefix is invalid.	IB/OB
	Carrier business party identifier is required !!!	The error occurs if the group that contains source @id for the identifier type for the carrier business party location is present but the source @id is missing.	OB
VocabularyElement attribute	Valid additional carrier business party identifier type is required !!!	The error occurs if the source attribute that identifies the type of BusinessID identifier for the carrier party name is invalid.	OB
	Carrier business party name is required !!!	The error occurs if the source attribute that identifies the carrier party name is missing or null.	IB
	Carrier business party street address is required !!!	The error occurs if the source attribute for the first line of the carrier business party's street address is missing or null.	IB
	Carrier business party city is required !!!	The error occurs if the source attribute that identifies the carrier business party's city is missing or null.	IB
	3-digit numeric District code required for country India !!!	The error occurs if the source attribute that identifies the carrier business party's District code for India is invalid and country = IN.	IB
	Carrier business party state or region is required !!!	The error occurs if the source attribute that identifies the carrier business party's state or region is missing or null.	IB

Data Element	Error Message	Description	Inbound / Outbound
	Sold to business party country is required !!!	The error occurs if the source attribute that identifies the sold to business or party's country is missing or null.	IB
	Valid Carrier business party country is required !!!	The error occurs if the source attribute that identifies the carrier business party's country is present but there is no matching entry in the lookup file.	IB
EventList choice	At least one object for shipping is required !!!	The error occurs if the required source is missing or null.	IB
epcList epc	Invalid EPC format !!!	The error occurs if the source is invalid.	IB
	Valid serial number format is required !!!	The error occurs if the source is invalid.	OB
ObjectEvent for commissioning events bizStep	bizStep urn:epcglobal:cbv:bizstep:commissioning is required for ObjectEvent commissioning !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:commissioning" for a commissioning event.	IB
ObjectEvent for commissioning events disposition	Disposition urn:epcglobal:cbv:disp:active is required for ObjectEvent commissioning !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:active".	IB
ObjectEvent for commissioning events bizLocation id	Event location in the commissioning event is required !!!	The error occurs if the source is empty or null.	IB
ObjectEvent for commissioning events extension ilmd cbvmda:lotNumber	Lot number is required !!!	The error occurs if the source is a CN-EDMC , GTIN, or NTIN, but source is empty or null.	IB/OB
ObjectEvent for commissioning events extension ilmd cbvmda:itemExpirationDate	Expiration date is required !!!	The error occurs if the source is a CN-EDMC , GTIN, or NTIN, but source is empty or null.	IB
tl:packagingLevel	Packaging Level is required !!!	The error occurs if source is serial number China, GTIN, or NTIN, but source is empty or null.	IB
tl:productionLineId	Production line ID is required for China product !!!	The error occurs if epcList epc prefix = "http://epcis.tracelink.com/obj/cn-edmn/", but source is empty or null.	IB/OB
tl:lineManagerName	Line manager name for China product is required !!!	The error occurs if epcList epc prefix = "http://epcis.tracelink.com/obj/cn-edmn/", but source is empty or null.	IB

Data Element	Error Message	Description	Inbound / Outbound
	LineManagerName is required for China product !!!	The error occurs if epcList epc prefix = "http://epcis.tracelink.com/obj/cn-edmn/", but the source is empty or null.	OB
ObjectEvent for commissioning events tl:commissionEventExtensions tl:countryDrugCode @type	Valid country drug code type is required if country drug code is populated !!!	The error occurs if tl:countryDrugCode is present but the source is empty or null.	OB
ObjectEvent for commissioning events tl:commissionEventExtensions tl:packagingItemCode @type	Product type attribute is required when source PackagingItemCode is populated !!!	The error occurs if tl:packagingItemCode is present but the source is empty or null.	OB
	Packaging code in source PackagingLevel is required !!!	The error occurs if the source is empty or null.	OB
ObjectEvent for decommissioning events epcList epc	Invalid EPC format !!!	The error occurs if the source is invalid.	IB
	Serial number is required !!!	The error occurs if the source is empty or null.	OB
ObjectEvent for decommissioning events action	Action DELETE is required for decommissioning !!!	The error occurs if the source does not equal "DELETE" for decommission.	IB
ObjectEvent for decommissioning events bizStep	bizStep urn:epcglobal:cbv:bizstep:decommissioning is required for decommissioning !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:decommissioning" for a decommissioning event.	IB
ObjectEvent for decommissioning events disposition	Disposition urn:epcglobal:cbv:disp:inactive is required for decommissioning !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:inactive".	IB
ObjectEvent for decommissioning events readPoint	Event Location Required !!!	The error occurs if the source is invalid, or is empty or null.	OB
ObjectEvent for decommissioning events readPoint id	Source read point ID is required !!!	The error occurs if the source is empty or null.	IB
	Valid Event Location Type Required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.	OB
ObjectEvent for decommissioning events bizTransactionList bizTransaction @type	Valid bizTransaction type is required if bizTransaction is populated !!!	The error occurs if cmn:BizTransaction is populated, but the source is empty or null.	IB
	Valid transaction identifier type is required if TransactionIdentifier is populated !!!	The error occurs if bizTransaction is present but the source is empty or null, or is not a valid value from the enumeration list.	OB
tl:marketCountryCode	Market Country Code must be at least two	The error occurs if source is populated, but is less	IB

Data Element	Error Message	Description	Inbound / Outbound
	characters !!!	than 2 characters.	
tl:decommissionEventExtensions tl:businessPartyInfo tl:businessId @type	Valid business party identifier type is required !!!	The error occurs if the source @type for the authorizing business entity's identifier is present, but there is no matching entry in the lookup file, or the source is empty or null.	OB
	Party type attribute is required when BusinessId is populated !!!	The error occurs if cmn:BusinessId is present but the source is missing or empty.	IB
tl:decommissionEventExtensions tl:businessPartyInfo tl:businessId	Business party identifier is required !!!	The error occurs if cmn:BusinessId is present but the source is missing or null.	IB
	Decommissioning business party ID is required !!!	The error occurs if tl:businessPartyInfo is populated, but the source is empty or null.	OB
tl:decommissionEventExtensions tl:businessPartyInfo tl:businessClassification	Valid business classification value is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.	IB/OB
tl:decommissionEventExtensions tl:businessPartyInfo tl:BusinessPartyDetail tl:businessName	Business party name is required !!!	The error occurs if the source is empty or null.	IB/OB
tl:decommissionEventExtensions tl:businessPartyInfo tl:BusinessPartyDetail tl:street1	Business party street address is required !!!	The error occurs if the source is empty or null.	IB/OB
tl:decommissionEventExtensions tl:businessPartyInfo tl:BusinessPartyDetail tl:city	Business party city is required !!!	The error occurs if the source is empty or null.	IB/OB
tl:decommissionEventExtensions tl:businessPartyInfo tl:BusinessPartyDetail tl:district	3-digit numeric District code required for country India !!!	The error occurs if country = IN, but district is not a 3-digit numeric code.	IB/OB
tl:decommissionEventExtensions tl:businessPartyInfo tl:BusinessPartyDetail tl:stateOrRegion	Business party state or region is required !!!	The error occurs if the source is empty or null.	IB/OB
tl:decommissionEventExtensions tl:businessPartyInfo tl:BusinessPartyDetail tl:country	Business party country is required !!!	The error occurs if the source is empty or null.	IB/OB
tl:warehouseOperatorName	Warehouse operator name for China product is required !!!	The error occurs if epcList epc prefix = "http://epcis.tracelink.com/obj/cn-edmn/", but source is empty or null.	IB/OB
tl:decommissionReasonCode	Valid reason code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.	IB/OB

Data Element	Error Message	Description	Inbound / Outbound
tl:decommissionEventExtensions tl:destructionMethod	Valid destruction method code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.	IB/OB
ObjectEvent for destroying events epclList epc	Invalid EPC format !!!	The error occurs if the source is invalid.	IB
ObjectEvent for destroying events action	Action DELETE is required for destroying !!!	The error occurs if the source does not equal "DELETE" for destroying.	IB
ObjectEvent for destroying events bizStep	bizStep urn:epcglobal:cbv:bizstep:destroying is required for destroying !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:destroying" for a destroying event.	IB
ObjectEvent for destroying events disposition	Disposition urn:epcglobal:cbv:disp:destroyed is required for destroying !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:destroyed".	IB
ObjectEvent for destroying events readPoint	Event Location Required !!!	The error occurs if the source is invalid, or is empty or null.	OB
ObjectEvent for destroying events readPoint id	Source read point ID is required !!!	The error occurs if the source is empty or null.	IB
	Valid Event Location Type Required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.	OB
ObjectEvent for destroying events bizTransactionList bizTransaction @type	Valid bizTransaction type is required if bizTransaction is populated !!!	The error occurs if cmn:BizTransaction is populated, but the source is empty or null.	IB
	Valid transaction identifier type is required if TransactionIdentifier is populated !!!	The error occurs if bizTransaction is present but the source is empty or null, or is not a valid value from the enumeration list.	OB
tl:destroyEventExtensions tl:marketCountryCode	Valid market country code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.	OB
tl:destroyEventExtensions tl:businessPartyInfo tl:businessId @type	Valid business party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file, or the source is empty or null.	IB
	Party type attribute is required when BusinessId is populated !!!	The error occurs if cmn:BusinessId is present but the source is missing or null.	IB
	Valid business party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file, or the source is empty or null.	OB

Data Element	Error Message	Description	Inbound / Outbound
tl:destroyEventExtensions tl:businessPartyInfo tl:businessId	Business party identifier is required !!!	The error occurs if the source is empty or null.	IB/OB
tl:destroyEventExtensions tl:businessPartyInfo tl:businessClassification	Valid business classification is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.	OB
tl:destroyEventExtensions tl:businessPartyInfo tl:BusinessPartyDetail tl:businessName	Business party name is required !!!	The error occurs if the source is empty or null.	IB/OB
tl:destroyEventExtensions tl:businessPartyInfo tl:BusinessPartyDetail tl:street1	Business party street address is required !!!	The error occurs if the source is empty or null.	IB/OB
tl:destroyEventExtensions tl:businessPartyInfo tl:BusinessPartyDetail tl:city	Business party city is required !!!	The error occurs if the source is empty or null.	IB/OB
tl:destroyEventExtensions tl:businessPartyInfo tl:BusinessPartyDetail tl:district	3-digit numeric District code required for country India !!!	The error occurs if country = IN, but district is not a 3-digit numeric code.	IB/OB
tl:destroyEventExtensions tl:businessPartyInfo tl:BusinessPartyDetail tl:stateOrRegion	Business party state or region is required !!!	The error occurs if the source is empty or null.	IB/OB
tl:destroyEventExtensions tl:businessPartyInfo tl:BusinessPartyDetail tl:country	Business party country is required !!!	The error occurs if the source is empty or null.	IB/OB
AggregationEvent parentID	Invalid EPC format !!!	The error occurs if the number cannot be translated or is empty or null.	IB
	Valid parent serial number format is required !!!	The error occurs if the source is invalid.	OB
AggregationEvent childEPCs epc	Valid serial number format is required !!!	The error occurs if the source is invalid.	OB
AggregationEvent bizStep	bizStep urn:epcglobal:cbv:bizstep:packing is required for the AggregationEvent !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:packing" for an aggregation event.	IB
AggregationEvent disposition	Disposition urn:epcglobal:cbv:disp:in_progress is required for the AggregationEvent !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:in_progress".	IB
AggregationEvent bizLocation id	Event location in the aggregation event is required !!!	The error occurs if the source is missing, null, or empty.	IB
tl:aggregationEventExtensions @orderItemNumber	Order item number is required if serial number is present !!!	The error occurs if tl:epcOrderItem is present and matches an epc value and the source is missing.	IB

Data Element	Error Message	Description	Inbound / Outbound
tl:extensionField tl:fieldName	Field name is required if ExtensionField group present in source !!!	The error occurs if tl:extensionField is populated, but the source is empty or null.	IB/OB
tl:extensionField tl:fieldValue	Field value is required if ExtensionField group present in source !!!	The error occurs if tl:extensionField is populated, but the source is empty or null.	IB/OB
ObjectEvent for shipping events	Shipping event data is required !!!	The error occurs if the source is empty or null.	IB
	Only one shipping event is required !!!	The error occurs if more than one shipping event is present.	IB
ObjectEvent for shipping events bizStep	bizStep urn:epcglobal:cbv:bizstep:shipping is required for ObjectEvent shipping !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:shipping" for a ship event.	IB
ObjectEvent for shipping events disposition	Disposition urn:epcglobal:cbv:disp:in_transit is required for ObjectEvent shipping !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:in_transit".	IB
ObjectEvent for shipping events readPoint	Event Location Required !!!	The error occurs if the source is invalid, or is empty or null.	OB
ObjectEvent for shipping events readPoint id	Event location in the shipping event is required !!!	The error occurs if the source is empty or null.	IB
	Valid Event Location Type Required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.	OB
ObjectEvent for shipping events bizTransactionList	Biz transaction list is required in shipping event !!!	The error occurs if the source is empty or null.	IB
ObjectEvent for shipping events bizTransactionList bizTransaction @type	Valid bizTransaction type is required if bizTransaction is populated !!!	The error occurs if cmn:BizTransaction is populated, but the source is empty or null.	IB
	Valid transaction identifier type is required if TransactionIdentifier is populated !!!	The error occurs if bizTransaction is present but the source is empty or null, or is not a valid value from the enumeration list.	OB
	Transaction identifier type required if TransactionIdentifier populated !!!	The error occurs if cmn:TransactionIdentifier is present but the source is empty or null.	OB
SourceList source	Valid sold-from business lookup identifier type is required !!!	The error occurs if the source source for the second instance of the party identifier for the sold-from party type is invalid.	IB
	Ship-from party identifier must match an identifier	The error occurs if the source source for the first	IB

Data Element	Error Message	Description	Inbound / Outbound
	in VocabularyElement[@id] !!!	instance of the party identifier for the ship-from party does not match the VocabularyElement @id value in the party master data header.	
	Valid carrier business lookup identifier type is required !!!	The error occurs if the source source for the second instance of the party identifier for the ship-from party type is invalid.	IB
destinationList destination	Valid sold-to business lookup identifier type is required !!!	The error occurs if the source destination for the second instance of the party identifier for the sold-to party type is invalid.	IB
	Valid ship-to business lookup identifier type is required !!!	The error occurs if the source destination for the second instance of the party identifier for the ship-to party type is invalid.	IB
tl:shippingEventExtensions	shippingEventExtensions required if shipping event populated !!!	The error occurs if the source is empty or null.	IB
tl:shipToCountryCode	Valid ISO country code for ship-to country is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.	IB
	Valid ShipTo Country Code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.	OB
tl:shipFromCountryCode	Valid ISO country code is required !!!	The error occurs if the source is not a valid value from the enumeration list.	IB
	Ship from country for export products is required !!!	The error occurs if SalesDistributionType = EXPORTSALE, EXPORTTRANSFER, or EXPORTRETURN, but source is empty or null.	IB
	Valid ShipFrom Country Code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.	OB
tl:salesDistributionType	Valid sales distributionType is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.	IB
	Valid Sales Distribution Type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.	OB
tl:epcOrderItemList @orderItemNumber	Order item number is required if serial number is	The error occurs if the source is missing and	IB

Data Element	Error Message	Description	Inbound / Outbound
	present !!!	tl:epcOrderItem is present and matches an epc value.	
tl:shippingEventExtensions tl:carrierParty tl:address tl:businessName	Carrier party business name is required !!!	The error occurs if the source is empty or null.	OB
tl:shippingEventExtensions tl:carrierParty tl:address tl:Street1	Carrier party business street address is required !!!	The error occurs if the source is empty or null.	OB
tl:shippingEventExtensions tl:carrierParty tl:address tl:City	Carrier party city name is required !!!	The error occurs if the source is empty or null.	OB
tl:shippingEventExtensions tl:carrierParty tl:address tl:district	3-digit numeric District code required for country India !!!	The error occurs if the source is empty or null.	OB
tl:shippingEventExtensions tl:carrierParty tl:address tl:StateorRegion	Carrier party state code is required !!!	The error occurs if the source is empty or null.	OB
tl:shippingEventExtensions tl:carrierParty tl:address tl:Country	Valid Carrier party country code is required !!!	The error occurs if the source is empty or null.	OB
tl:shippingEventExtensions tl:internalMaterialCode	One of internalMaterialCode or packagingItemCode is required !!!	The error occurs if if both tl:packaingItemCode and the source are empty or null.	OB
tl:shippingEventExtensions tl:packagingItemCode @type	Valid Item Code Type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.	OB
	Product type attribute is required when source PackagingItemCode is populated !!!	The error occurs if tl:packagingItemCode is present, but the source is empty or null.	OB
choice1	One of internalMaterialCode or packagingItemCode is required !!!	The error occurs if both tl:internalMaterialCode and tl:packagingItemCode are empty or null.	IB
tl:unitPrice @currencyCode	Valid ISO currency code is required !!!	The error occurs if tl:unitPrice is populated, but the source is empty or null.	IB
	Valid Currency Code is required if Unit Price exists !!!	The error occurs if tl:unitPrice is populated, but the source is invalid.	OB
tl:vat @currencyCode	Currency Code is required if VAT is present !!!	The error occurs if tl:vat is populated, but the source is empty or null.	OB
tl:grossPrice @currencyCode	Currency Code is required if grossPrice is present !!!	The error occurs if tl:grossPrice is populated, but the source is empty or null.	IB

Data Element	Error Message	Description	Inbound / Outbound
	Currency Code is required if GrossPrice is present !!!	The error occurs if tl:grossPrice is populated, but the source is empty or null.	OB
tl:transactionIdentifier @type	Valid business transaction type is required !!!	The error occurs if tl:transactionIdentifier is present, but the source is not a valid value from the enumeration list, or the source is empty or null.	IB/OB
inputEPCList	One of either inputEPCList OR inputQuantityList is required !!!	The error occurs if both inputQuantityList and the source are empty or null.	IB
inputEPCList epc	Invalid EPC format !!!	The error occurs if the source value could not be translated or is in a format other than SGTIN, NTIN, or CN-EDMC.	IB
	SSCC code is invalid in inputEPCList !!!	The error occurs if the source is not an SGTIN, NTIN, or CN-EDMC.	IB
quantityElement epcClass	Lot number is required !!!	The error occurs if the source is empty or null.	IB
	Valid item code is required !!!	The error occurs if the source is invalid.	IB
quantityElement quantity	Input quantity for epcClass is required !!!	The error occurs if inputQuantityList is populated, but the source is empty or null.	IB
	Quantity is required for lot level input !!!	The error occurs if cmn:QuantityElement is populated, but the source is empty or null.	OB
outputEPCList	Output epc list is required !!!	The error occurs if the source is empty or null.	IB
outputEPCList epc	China resource code serial number is not supported. Serial number must be NTIN or SGTIN !!!	The error occurs if the source is not a NTIN or SGTIN.	IB
	epc serial number is required !!!	The error occurs if the source is empty or null.	IB
	Invalid EPC format !!!	The error occurs if the source is invalid.	IB
	SSCC code is invalid in outputEPCList !!!	The error occurs if the source is invalid.	IB/OB
	Serial number is required !!!	The error occurs if the source is invalid.	OB
	Valid serial number format is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.	OB

Data Element	Error Message	Description	Inbound / Outbound
	Invalid serial number format !!!	The error occurs if the source is invalid.	OB
tl:repackInputAttributes cbvmda:lotNumber	Lot number is required if RepackInputAttributes is present !!!	The error occurs if tl:repackInputAttributes is present, but the source is empty or null.	OB
tl:repackInputAttributes cbvmda:itemExpirationDate	Expiration date is required if RepackInputAttributes is present !!!	The error occurs if cmn:RepackInputAttributes is present, but the source is empty or null.	OB
TransformationEvent bizLocation	bizLocation ID is required !!!	The error occurs if the source is empty or null.	OB
TransformationEvent ilmd tl:commissionEventExtensions tl:countryDrugCode @type	Valid country drug code type is required if country drug code is populated !!!	The error occurs if tl:countryDrugCode is populated, but the source is not a valid value from the enumeration list, or the source is empty or null.	OB
TransformationEvent ilmd cbvmda:lotNumber	Lot number is required !!!	The error occurs if source is serial number China, GTIN, or NTIN, but source is empty or null.	IB
	Lot number is required if ItemDetail group populated in TransformationEvent!!!	The error occurs if ilmd is populated, but the source is empty or null.	OB
TransformationEvent ilmd cbvmda:itemExpirationdate	Expiration date number is required if ItemDetail group populated in TransformationEvent!!!	The error occurs if the ItemDetail group is populated, but the source is empty or null.	OB
tl:repackInputAttributes	repackInputAttributes group is required if registerSourceProduct equals true !!!	The error occurs if tl:registerSourceProduct is set to true, but the source is empty or null.	IB
tl:extensionField tl:fieldName	Field name is required !!!	The error occurs if the source is empty or null.	IB
	Field name is required if extensionField group present in source !!!	The error occurs if the source is empty or null.	OB
tl:fieldValue	Field value is required !!!	The error occurs if the source is empty or null.	IB
	Field value is required if extensionField group present in source !!!	The error occurs if the source is empty or null.	OB
Class 2			
bizTransaction @date	Transaction Identifier Date is required for products sold in Russia	The error occurs if a Target Market in Product Master Data for the decommissioned or destroyed product = "RU", but the source is empty or null.	
	Transaction Identifier Date is required if Ship To Country Code = RU	The error occurs if tl:shipToCountryCode = "RU" but the source is empty or null.	

Data Element	Error Message	Description	Inbound / Outbound
bizTransaction @type	Transaction Identifier for 'Removal from Circulation' is required for products sold in Russia	The error occurs if one of the Target Markets in Product Master Data for the decommissioned or destroyed product = "RU", but the source does not equal " http://epcis.tracelink.com/hc/btt/removal ".	
destinationList	Serialized Operations Manager Shipment inbound processing could not be completed. The ReceiverInfo with either ToBusinessPartyLookupId or ToBusinessPartyInfo for the ShipFromCountryCode of <ShipFromCountryCode> and ShipToCountryCode of <ShipToCountryCode> must be specified.	The error occurs if - Transfer or Sale occurs in non-EU FMD markets where the ShipToCountryCode is not an EU FMD country and the ShipFromCountryCode is not an EU FMD country. - Transfer or Sale Export occurs from the EU FMD markets where the ShipToCountryCode is China, US, South Korea, or Russia and the ShipFromCountryCode is an EU FMD country.	
sourceList	Serialized Operations Manager Shipment inbound processing could not be completed. The SenderInfo with either FromBusinessPartyLookupId or FromBusinessPartyInfo for the ShipFromCountryCode of <ShipFromCountryCode> and ShipToCountryCode of <ShipToCountryCode> must be specified.	The error occurs if - Transfer or Sale occurs in non-EU FMD markets where the ShipToCountryCode is not an EU FMD country and the ShipFromCountryCode is not an EU FMD country. - Transfer or Sale Export occurs from the EU FMD markets where the ShipToCountryCode is China, US, South Korea, or Russia and the ShipFromCountryCode is an EU FMD country.	
tl:addressObjectGUID	AddressObjectGUID cannot be blank for Country RU.	The error occurs if tl:country = "RU", but the source is empty or null.	
tl:decommisisonReasonCode	Reason Code is required for products sold in Russia	The error occurs if a Target Market in Product Master Data for the decommissioned or destroyed product = "RU", but the source is empty or null.	
tl:destructionMethod	Destruction Method is required for products sold in Russia	The error occurs if a Target Market in Product Master Data for the decommissioned or destroyed product = "RU", but the source is empty or null.	
tl:fundingSource	Funding Source is required if Ship To Country Code is RU and Ship From Country Code is RU	The error occurs if both tl:shipToCountryCode and tl:shipFromCountryCode = "RU", but the source is empty or null.	
tl:salesDistributionType	Serial Numbers with Recalled status cannot be shipped.	The error occurs if salesDistrubutionType = INCOUNTRYSALE or EXPORTSALE for sales shipments, but one or more serial numbers have a Recalled reason code.	
tl:shipFromCountryCode	Serialized Operations Manager Shipment inbound processing could not be completed. Both the ShipToCountryCode and ShipFromCountryCode must be specified when the Sender Info and ReceiverInfo are not specified.	The error occurs if the sourceList and destinationList are both omitted, and tl:shipToCountryCode and tl:ShipFromCountrycode are empty or null.	
tl:shipToCountryCode			

Data Element	Error Message	Description	Inbound / Outbound
tl:transactionIdentifier @date	Order Item Transaction Identifier Date is required if Ship To Country Code = RU	The error occurs if tl:shipToCountryCode = "RU" but the source is empty or null.	
tl:unitPrice	Unit Price is required if Ship To Country Code is RU and Ship From Country Code is any of RU, AM, BY, KZ, KG	The error occurs if tl:shipToCountryCode = "RU" and tl:shipFromCountryCode = "AM", "BY", "KG", "KZ", or "RU", but the source is empty or null.	
Class 3			
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.			

ESM Shipment (XML)

Guidelines

Use this message for any type of shipment (i.e. sale, transfer, or return). This message can contain optional commissioning and aggregation data, in addition to the required shipping data.



- When product changes ownership from an MAH, or a CMO or 3PL acting on behalf of an MAH, to another entity, an outbound shipment is generated and the serial numbers are put into a **shipped** state.
- When product is moving between locations (i.e. not a change of ownership) working on behalf of an MAH, an inbound shipment is generated and the serial numbers are put into a **pending receipt** state.

This message uses the Park and Retry functionality. If a prerequisite condition for this message has not been met, TraceLink stops processing the task, returns the task to the queue, and then tries to process the task again every 15 minutes for up to 2 hours.

Message Type: SOM_ESM_SHIPMENT

Info Exchange Display Name: ESM Shipment

❗ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

Date Element			Occurs Length	Format	Description
som:SOMSalesShipmentMessage			1...1 -	-	Required. Root element of message.
	som:ControlFileHeader		1...1 -	-	Required. The message document's header information.
		cmn:FileSenderNumber	1...1 1/20	String	Required. The company identifier of the file's sender. ¹
		cmn:FileReceiverNumber	1...1 1/20	String	Required. The company identifier of the file's recipient. ²
		cmn:FileControlNumber	1...1 1/20	String	Required. The message's unique file control ID number. A file control ID number is mandatory for all messages. ³
		cmn:FileDate	1...1 10/10	Date	Required. The date that the message is sent in YYYY-MM-DD format. Date and times must be in GMT. ⁴
		cmn:FileTime	1...1 9/9	Time	Required. Time file generated in XML in HH:MM:SSZ format. The system expects the Z to be appended; however, if it is not included, the system assumes that the time is GMT and therefore appends the Z. ⁵
	som:MessageBody		1...1 -	-	Required. Main body of message.
		cmn:LocationId	0...1 0/34	String	Specifies the facility/warehouse identifier to scope the Sales Shipment Status update for the serial numbers matching the specified item code and lot number. ⁶ If the location is omitted, the Sales Shipment status update is applied globally to all matching serial numbers in the system.

¹8888882028655²8888882028677³0000000001⁴2012-06-30⁵06:30:32Z⁶8888882028655

Date Element			Occurs Length	Format	Description
		cmn:DeliveryNumber	1...1 1/*	String	Required. Links the order information to the serialized receive information for this customer delivery. ¹
		cmn:DeliveryCompleteFlag	0...1 1/*	Boolean	Required. Instructs TraceLink to process the outbound delivery, update the status of all serial numbers and sub-child aggregations to shipped, and trigger generation of regulatory reporting messages based on customer configuration.² If all of the information (order detail and received serial numbers) is in a single message, the delivery complete flag is set to true. If only partial information is in the message (e.g. order detail only, received items sent incrementally, etc.) the delivery complete flag is set to false for all intermediate messages, and then set to true when the delivery is complete and all information has been communicated to TraceLink.  Values must be lower case only. True or TRUE will throw an error.
		som:OrderDetails	0...1 -	-	Includes business transaction identifier and date, order item receive list, and sender and recipient information. This element is mandatory before the delivery complete flag can be set, though it can be communicated at any time (e.g. with, before, or after the received serial numbers have been communicated).
		cmn:DisaggregateFromParent	0...1 0/*	Boolean	When set to true instructs the system to disaggregate the picked serial number from the parent container, if it is aggregated. If not set, or set to false, the system will operate in default mode, which is to generate an error if attempting to pick serial number for an item or container that is aggregated to a parent.³  Values must be lower case only. True or TRUE will throw an error.
		cmn:CorrectiveShipment	0...1 0/*	Boolean	Indicates that a new Serialized Operations Manager Shipment is correcting a previously voided Serialized Operations Manager Shipment message. Default value is false, which indicates that it is not a corrective shipment.⁴  Values must be lower case only. True or TRUE will throw an error.

¹4520010²true³true⁴false

Date Element				Occurs Length	Format	Description
			cmn:OriginalDeliveryNumber	0...1 0/*	String	Records original delivery number that is replaced when shipment is and corrections are made to delivery. ¹
			cmn:EntryPort	0...1 0/*	String	Name of the shipment's port of entry into a country (e.g. an airport, maritime port, border checkpoint).
			cmn:ExitPort	0...1 0/*	String	Name of the shipment's port of exit from a country (e.g. an airport, maritime port, border checkpoint).
			cmn:TransactionIdentifier	1...* 1/*	String	Required. Identifier that associates with the received serial numbers, for regulatory reporting purposes. ² At least one transaction id is mandatory.
			@type	1...* 1/*	String	Required. The transaction identifier type using supported enumeration values (e.g. ASN, PO, RETURN). ³ See the TransactionId enumeration list for valid values.
			@date	0...1 0/*	Date	The transaction identifier date. ⁴
			cmn:TransactionDate	1...1 1/*	Date	Required. The date of the transaction in YYYY-MM-DD format. ⁵
			cmn:TransactionTime	0...1 0/*	Time	The time of the transaction in HH:MM:SS format. ⁶
			cmn:ShipToCountryCode	1...1 2/2	String	Required. ISO country code for ship to country. Provides application with the information it needs to trigger regulatory reporting in response to relevant events. ⁷
			cmn:ShipFromCountryCode	0...1 2/2	String	Conditionally required if the product is being exported from country (e.g. when cmn:ReceiptDistributionType = EXPORTSALE, EXPORTTRANSFER, or EXPORTRETURN). ISO country code for ship from country. Provides application with the information it needs to trigger regulatory reporting in response to relevant events. ⁸

¹8457512²P0303005³PO⁴2019-03-30⁵2016-06-30⁶02:28:55Z⁷US⁸IN

Date Element			Occurs Length	Format	Description
		cmn:SalesDistributionType	0...1 1/*	String	Required. Advises the application of sale (change of ownership of the product) and transfer (no change of ownership of product, but physical movement of product) for application and regulatory reporting purposes. The actual triggering of regulatory reporting is governed by the configuration in TraceLink.¹ INCOUNTRYTRANSFER and EXPORTTRANSFER include: - Intra-company warehouse transfer of goods. - Transfers between Pharmaceutical Manufacturer and 3PL. - Transfers between Pharmaceutical Manufacturer and CMO/CPO. - Transfers between CMO/CPO and 3PL of Pharmaceutical Manufacturer.  Setting this value alone does not trigger regulatory reporting. See the SalesDistType enumeration list for valid values.
		cmn:SupplyType	0...1 1/*	String	Identifies the type of supply that is being performed using a valid value from the enumerations list. See the SupplyType enumeration list for valid values.
		cmn:ContractType	0...1 1/*	String	Identifies the type of contract for the sale of goods using a valid value from the enumerations list. See the ContractType enumeration list for valid values.
		cmn:Comments	0...1 0/*	String	Optional remarks or comments regarding delivery.
		cmn:DropShipment	0...1 0/*	Boolean	Indicates if shipment is a drop shipment.²  Values must be lower case only. True or TRUE will throw an error.
		cmn:ContractNumber	0...1 0/*	String	Identification number of the contract. ³

¹INCOUNTRYSALE²false³1234567

Date Element					Occurs Length	Format	Description
			cmn:FundingSource		0...1 0/*	String	Source of the funding. ¹ See the FundingSource enumeration list for valid values.
			cmn:DeliveryInspection		0...1 0/*	String	The inspection status of the physical delivery against the delivery documentation. See the DeliveryInspection enumeration list for valid values.
			cmn:DeliveryInspectionDate		0...1 10/10	Date	The date of the physical delivery inspection against the delivery documentation in YYYY-MM-DD format. ²
			cmn:DeliveryInspectionNote		0...1 0/*	String	Comments about the physical delivery inspection against the delivery documentation.
			cmn:RemovalFromCirculation		0...1 0/*	String	Reason the product in the delivery is taken out of the supply chain. See the RemovalFromCirculation enumeration list for valid values.
			cmn:AggregationInspection		0...1 0/*	String	The inspection status of the aggregation hierarchy of the container. See the AggregationInspection enumeration list for valid values.
			cmn:OrderItemList		0...1 -	-	Order item list group is populated to communicate the expected receive quantities for each item code at the EACH (unit) level. This information is used to verify the actual serial number received, the correct product, the correct lot number (if provided), and the correct each quantity.
				cmn:AllowShortVerificationCount	0...1 0/*	Boolean	When set to true , allows the count to come up short without an error. If set to false , an error is thrown if the count does not match what is expected. ³
				cmn:OrderItem	1...* -	-	Required. Order item group is a repeating element that captures the item code, lot number, and quantity for each item that will be received for the order. Each unique item code and lot number are communicated in a separate order item group.
				cmn:OrderItemNumber	0...1 0/*	String	Order item number attribute associating specific serial numbers with the price, VAT, and cost taxes reported in a specific instance of cmn:OrderItem .
				choice%1	1...1 -	Choice	Required. Mandatory choice. Populate only one of cmn:InternalMaterialCode or cmn:PackagingItemCode . One of the two options must be present.

¹FederalBudgetFunds²2021-12-21³true

Date Element						Occurs Length	Format	Description
					cmn:InternalMaterialCode	0...1 1/*	String	Required. Option 1 for choice%1 in cmn:OrderItem. Use to identify the product using the internal material number configured in Product Master Data.¹  Mandatory if cmn:PackagingItemCode is not populated.
					cmn:PackagingItemCode	0...1 0/*	String	Required. Option 2 for choice%1 in cmn:OrderItem. Use to identify the product using the packaging level item code (e.g. GTIN-14) configured in Product Master Data.²  Mandatory if cmn:InternalMaterialCode is not populated.
					@type	0...1 1/*	String	Required. The product code type for the packaging item code using the supported enumeration values (e.g. GTIN-14).³  Mandatory if cmn:PackagingItemCode is populated. See the ItemCode enumeration list for valid values.
					cmn:LotNumber	0...1 0/*	String	The lot or batch code for the items to be received (if available) in an alphanumeric string. ⁴
					cmn:ExpirationDate	0...1 0/*	Date	Expiration date for product in YYYY-MM-DD format. ⁵
					cmn:Quantity	1...1 1/*	Integer	Required. The quantity of items at the EACH (unit) level of the item code and lot if specified to be received. ⁶
					cmn:UnitPrice	0...1 -	Decimal	Required. The unit price of an item. ⁷

¹100253²00882026030229³GTIN-14⁴A12345⁵2018-08-15⁶480⁷142478.20

Date Element						Occurs Length	Format	Description
					@currencyCode	1...1 0/3	String	Required. Currency ISO code using ISO 4217-2015 format. ¹
				cmn:VAT		0...1 -	Decimal	Value Added Tax per unit. ²
					@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ³ See the ISOCurrency enumeration list for valid values.
				cmn:GrossPrice		0...1 -	Decimal	Gross price including unit price and all taxes and fees. ⁴
					@currencyCode	1...1 3/3	String	Required. Required. Currency ISO code using ISO 4217-2015 format. ⁵ See the ISOCurrency enumeration list for valid values.
				cmn:IsSerialized		0...1 -	Boolean	Indicates if item is not serialized. ⁶  If omitted, and OrderItem exists, defaults value to "true".
				cmn:TransactionIdentifier		0...* 0/*	String	Transaction identifier at the line-item level of shipment. More than one transaction identifier may be present. ⁷
					@type	1...1 1/*	String	Required. The transaction identifier type. Valid values: • DESTRUCTION • INVOICE • NOTAFISCAL • OTHER • PO

¹KRW²152.22³USD⁴USD⁵USD⁶false⁷PO303005

Date Element							Occurs Length	Format	Description
									RETURN
					@date		0...* 0/*	Date	Required. The transaction identifier date. ¹
			cmn:SenderInfo				1...1 -	-	Required. Information about the supply chain partner that is sending the shipment. Contains XML choice elements of cmn:FromBusinessParty and cmn:ShipFromLocation that govern whether to use master data lookup to populate the address, license, and contact elements. Only one option in choice%1 may be populated.
				choice%1			1...1 -	Choice	Required. Mandatory choice. - Option 1: Contains only cmn:FromBusinessPartyLookupId. - Populate this element only if master data lookup is desired. - Option 2: Contains full cmn:FromBusinessPartyInfo business address the customer populates directly in the interface. - Populate this element fully only if master data lookup is not desired.
				cmn:FromBusinessPartyLookupId			0...1 1/*	String	Required. Option 1 for cmn:SenderInfo choice%1 group. ² A lookup identifier associated with the sold-from business entity. This value is used as the lookup key in master data to populate the details in cmn:FromBusinessPartyInfo .  If omitted, and cmn:OrderItem exists, defaults value to true.
					@type		1...1 1/*	String	Conditionally required if full business address is not provided in cmn:FromBusinessPartyInfo option. The type of the sold from business entity identifier from the provided enumeration list. ³ See the BusinessLookupId enumeration list for valid values.
				cmn:FromBusinessPartyInfo			0...1 -	-	Conditionally required standalone cmn:FromBusinessPartyLookupId option to leverage master data lookup is not used. Option 2 for cmn:SenderInfo choice%1 group. The full business information associated with the sold from business entity.
					cmn:BusinessId		1...* 1/*	String	Required. The identifier associated with the sold from business entity. Mandatory for regulatory reporting. ⁴

¹2019-03-30²115740³COMPANYID⁴8888882028677

Date Element						Occurs Length	Format	Description
					@type	1...1 1/*	String	Required. The type of the BusinessId identifier.¹  Only one of the following values may be used per message: - RU_INN_FOREIGN_ENTITY - RU_INN_INDIV - RU_INN_LOCAL_ENTITY See the BusinessAndLocationId enumeration list for valid values.
					cmn:BusinessClassification	0...1 0/*	String	Business classification.² See the BusinessClassification enumeration list for valid values.
					cmn:BusinessInfo	0...1 -	-	Populates with the business name and address of the sold from business entity.
					cmn:BusinessName	1...1 1/*	String	Required. The business name of the trading partner. ³
					cmn:Street1	1...1 1/*	String	Required. The first line of the street address. ⁴
					cmn:Street2	0...1 0/*	String	The second line of the street address. ⁵
					cmn:City	1...1 1/*	String	Required. The city. ⁶
					cmn:Village	0...1 0/*	String	Name of the village in which the company is located.
					cmn:HouseNumber	0...1 0/*	String	Building, house, or unit number of the company. House numbers are usually only separated from the street address in China. For all addresses outside of China, continue to enter the

¹GLN²MANUFACTURER³Kendall Pharma⁴300 Trade Center⁵Suite 7690⁶Woburn

Date Element						Occurs Length	Format	Description
								building, house, or unit number in Street1 .
					cmn:Township	0...1 0/*	String	Name of the township in which the company is located.
					cmn:District	0...1 0/*	String	District Code.  Must be a 3-digit numeric code.
					cmn:StateOrRegion	1...1 1/*	String	Required. The state, province, or region using the standard two-letter abbreviation specified in ISO 3166-2:1998 country subdivision code. ¹
					cmn:PostalCode	1...1 1/*	String	Required. The ZIP or other postal code. ²
					cmn:Country	1...1 1/*	String	Required. The country using the standard two-letter abbreviation specified in ISO 3166-1alpha-2:1997 country code. ³
					cmn:CorporateFax	0...1 0/*	String	Company fax number.
					cmn:AddressObjectGUID	0...1 0/*	String	The global identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum of 36 characters, using the digits 0-9 and letters A-F.
					cmn:HouseGUID	0...1 0/*	String	The global house identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum of 36 characters, using the digits 0-9 and letters A-F.
					cmn:TaxRegistrationCode	0...1 0/*	String	The code used to identify this entity for tax or other legal reporting purposes (e.g. a Russia KPP Registration Code).
					cmn:PremisesCode	0...1 0/*	String	Identifier representing a physical area within the company location (e.g. a location's second floor).

¹MA²01801³US

Date Element					Occurs Length	Format	Description
				choice%2	0...1 -	Choice	Optional choice element (no error if neither are present): - Option 1: Contains only the cmn:ShipFromLocationLookupId. - Populate this element only if master data lookup is desired. - Option 2: Contains full cmn:ShipFromLocationInfo business address fielded data that will be populated by the customer directly in the interface. - Populate this element fully only if master data lookup is not desired.
				cmn:ShipFromLocationLookupId	0...1 1/*	String	Option 1 for cmn:SenderInfo choice%2 group. ¹ A lookup identifier associated with the ship from location. Use this value as the lookup key in master data to populate the details in cmn:ShipFromLocationInfo .
				@type	1...1 1/*	String	Required. The type of the ship from location identifier using the enumeration list. ²  Mandatory if full business address is not provided in cmn:ShipFromLocationInfo option. See the LocationLookupId enumeration list for valid values.
				cmn:ShipFromLocationInfo	0...1 -	-	Required. Option 2 for cmn:SenderInfo choice%2 group. The full business information associated with the ship from location is provided directly.
				cmn:FacilityId	1...* 1/*	String	Required. Ship from location identifier. ³
				@type	1...1 1/*	String	Required. The type of the FacilityId identifier. ⁴  Only one of the following values may be used per message: - RU_INN_FOREIGN_ENTITY - RU_INN_INDIV - RU_INN_LOCAL_ENTITY See the BusinessAndLocationId enumeration list for valid values.

¹1056231²COMPANYSITEID³8888882028655⁴GLN

Date Element						Occurs Length	Format	Description
					cmn:LocationInfo	0...1 -	-	Business name and address of the ship from location.
					cmn:BusinessName	1...1 1/*	String	Required. The business name of the trading partner. ¹
					cmn:Street1	1...1 1/*	String	Required. The first line of the street address. ²
					cmn:Street2	0...1 0/0*	String	The second line of the street address.
					cmn:City	1...1 1/*	String	Required. The city. ³
					cmn:Village	0...1 0/*	String	Name of the village in which the company is located.
					cmn:HouseNumber	0...1 0/*	String	Building, house, or unit number of the company. House numbers are usually only separated from the street address in China. For all addresses outside of China, continue to enter the building, house, or unit number in Street1 .
					cmn:Township	0...1 0/*	String	Name of the township in which the company is located.
					cmn:District	0...1 0/*	String	District Code.  Must be a 3-digit numeric code.
					cmn:StateOrRegion	1...1 1/*	String	Required. The state, province, or region using the standard two-letter abbreviation specified in ISO 3166-2:1998 country subdivision code. ⁴
					cmn:PostalCode	1...1 1/*	String	Required. The ZIP or other postal code. ⁵

¹Rx Logistics²1 Distribution Drive³Memphis⁴TN⁵13184

Date Element						Occurs Length	Format	Description
					cmn:Country	1...1 1/*	String	Required. The country using the standard two-letter abbreviation specified in ISO 3166-1 alpha-2:1997 country code. ¹
					cmn:CorporateFax	0...1 0/*	String	Company fax number.
					cmn:AddressObjectGUID	0...1 0/*	String	The global identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum of 36 characters, using the digits 0-9 and letters A-F.
					cmn:HouseGUID	0...1 0/*	String	The global house identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum of 36 characters, using the digits 0-9 and letters A-F.
					cmn:TaxRegistrationCode	0...1 0/*	String	The code used to identify this entity for tax or other legal reporting purposes (e.g. a Russia KPP Registration Code).
					cmn:PremisesCode	0...1 0/*	String	Identifier representing a physical area within the company location (e.g. a location's second floor).
					cmn:LicenseNumber	0...1 0/*	String	Populate with the license number of the facility. This element may be repeated to include as many license numbers as required (e.g. state and federal license). ²
					@state	0...1 0/*	String	Required. The state or region in which the trading partner is licensed, using the standard two letter abbreviation specified in ISO 3166-2:1998 country sub-division code. Used to give additional context to the license number. ³
					@agency	0...1 0/*	String	Required. The agency that granted the license (e.g. Florida DOH, NABP). Used to give additional context to the license number. ⁴
					cmn:ContactInfo	0...1 -	-	Contact information for use by downstream trading partners to authenticate (e.g. verify) the message information recorded on the pedigree with the sender party.

¹US²8888800003604³TN⁴MBOP

Date Element						Occurs Length	Format	Description
					cmn:Name	0...1 0/*	String	Required. Name of the contact department or individual at the company. ¹
					cmn:Title	0...1 0/*	String	Title of the individual if a person was provided in cmn:Name .
					cmn:Telephone	1...1 1/*	String	Required. Phone number of the contact department or individual at the company. Must begin with the + character followed by the Country Calling Code. ²
					cmn:Email	0...1 0/*	String	Email address of the contact department or individual at the company. Should be included if available. ³
					cmn:Url	0...1 0/*	String	The Web address to facilitate authentication. ⁴
			cmn:ReceiverInfo			1...1 -	-	Required. Information about the supply chain partner that is receiving the shipment. ReceiverInfo contains XML choice elements for cmn:ToBusinessParty and cmn:ShipToLocation that govern whether to use master data lookup to populate the address, license, and contact elements. Only one option in choice%1 may be populated.
				choice%1		1...1 -	Choice	Required. Mandatory choice element. One and only one option must be selected. - Option 1: Contains only the cmn:ToBusinessPartyLookupId. - Populate this element only if master data lookup is desired. - Option 2: Contains full cmn:ToBusinessPartyInfo business address field data populated by the customer directly in the interface. - Populate this element fully only if master data lookup is not desired.
				cmn:ToBusinessPartyLookupId		0...1 1/*	String	Option 1 for cmn:ReceiverInfo choice%1 group. ⁵ A lookup identifier associated with the sold to business entity. Use this value as the lookup key in master data to populate the details in cmn:ToBusinessPartyInfo .

¹Customer Service²+1-781-555-5624³support@kendallpharma.com⁴<https://www.kendallpharma.com/authenticate>⁵13655

Date Element						Occurs Length	Format	Description
					@type	1...1 1/*	String	Conditionally required if full business address is not provided in cmn:ToBusinessPartyInfo . The type of the sold to business entity identifier from the provided enumeration list. ¹ See the BusinessLookupId enumeration list for valid values.
				cmn:ToBusinessPartyInfo		0...1 -	-	Required. Option 2 for cmn:ReceiverInfo choice%1 group. The full business information associated with the sold to business entity is provided.
					cmn:BusinessId	1...* 1/*	String	Required. The return to business entity identifier. Mandatory for regulatory reporting. ²
					@type	1...1 1/*	String	Required. The type of the cmn:BusinessId identifier. ³  Only one of the following values may be used per message: - RU_INN_FOREIGN_ENTITY - RU_INN_INDIV - RU_INN_LOCAL_ENTITY See the BusinessAndLocationId enumeration list for valid values.
					cmn:BusinessClassification	0...1 0/*	String	Business classification. ⁴ See the BusinessClassification enumeration list for valid values.
					cmn:BusinessInfo	0...1 -	-	The sold to business entity business name and address.
					cmn:BusinessName	1...1 1/*	String	Required. The business name of the trading partner. ⁵
					cmn:Street1	1...1 1/*	String	Required. The first line of the street address. ⁶
					cmn:Street2	0...1	String	The second line of the street address.

¹COMPANYID²3333331013655³GLN⁴DISTRIBUTOR⁵Wholesale Inc⁶555 Neelan Road

Date Element						Occurs Length	Format	Description	
						cmn:City	1...1 1/*	String	Required. The city. ¹
						cmn:Village	0...1 0/*	String	Name of the village in which the company is located.
						cmn:HouseNumber	0...1 0/*	String	Building, house, or unit number of the company. House numbers are usually only separated from the street address in China. For all addresses outside of China, continue to enter the building, house, or unit number in Street1 .
						cmn:Township	0...1 0/*	String	Name of the township in which the company is located.
						cmn:District	0...1 0/*	String	District Code.  Must be a 3-digit numeric code.
						cmn:StateOrRegion	1...1 1/*	String	Required. The state, province, or region using the standard two-letter abbreviation specified in ISO 3166-2:1998 country subdivision code. ²
						cmn:PostalCode	1...1 1/*	String	Required. The ZIP or other postal code. ³
						cmn:Country	1...1 1/*	String	Required. The country using the standard two-letter abbreviation specified in ISO 3166-1 alpha-2:1997 country code. ⁴
						cmn:CorporateFax	0...1 0/*	String	Company fax number.
						cmn:AddressObjectGUID	0...1 0/*	String	The global identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum of 36 characters, using the digits 0-9 and letters A-F.
						cmn:HouseGUID	0...1	String	The global house identifier assigned by the Russian Federation Information Address System

¹Sacramento²CA³95833⁴US

Date Element						Occurs Length	Format	Description
								(FIAS).  Maximum of 36 characters, using the digits 0-9 and letters A-F.
					cmn:TaxRegistrationCode	0...1 0/*	String	The code used to identify this entity for tax or other legal reporting purposes (e.g. a Russia KPP Registration Code).
					cmn:PremisesCode	0...1 0/*	String	Identifier representing a physical area within the company location (e.g. a location's second floor).
				choice%2		0...1 -	Choice	- Option 1: Contains only the cmn:ShipToLocationLookupId. - Populate this element only if master data lookup is desired. - Option 2: Contains full cmn:ShipToLocationInfo business address field data populated by the customer directly in the interface. - Populate this element fully only if master data lookup is not desired.
					cmn:ShipToLocationLookupId	0...1 0/*	String	Required. Option 1 for cmn:ReceiverInfo choice%2 group. ¹ A lookup identifier associated with the ship to location using the enumeration list. Use this value as the lookup key in master data to populate the details in cmn:ShipToLocationInfo .
					@type	1...1 0/*	String	Required. The type of the ship to location identifier. ² See the LocationLookupId enumeration list for valid values.
					cmn:ShipToLocationInfo	0...1 -	-	Required. Option 2 for cmn:ReceiverInfo choice%2 group. The full business information associated with the ship to location is provided directly.
					cmn:FacilityId	1...* 1/*	String	Required. Populated with the ship from location identifier. ³
					@type	1...1 1/*	String	Required. The type of the cmn:FacilityId identifier. ⁴  Only one of the following values may be used per message:

¹1056231²COMPANYSITEID³3333331013655⁴GLN

Date Element						Occurs Length	Format	Description
								- RU_INN_FOREIGN_ENTITY - RU_INN_INDIV - RU_INN_LOCAL_ENTITY See the BusinessAndLocationId enumeration list for valid values.
					cmn:LocationInfo	0...1 -	-	Populated with the business name and address of the ship to location.
					cmn:BusinessName	1...1 1/*	String	Required. The business name of the trading partner. ¹
					cmn:Street1	1...1 1/*	String	Required. The first line of the street address. ²
					cmn:Street2	0...1 0/*	String	The second line of the street address.
					cmn:City	1...1 1/*	String	Required. The city. ³
					cmn:Village	0...1 0/*	String	Name of the village in which the company is located.
					cmn:HouseNumber	0...1 0/*	String	Building, house, or unit number of the company. House numbers are usually only separated from the street address in China. For all addresses outside of China, continue to enter the building, house, or unit number in Street1 .
					cmn:Township	0...1 0/*	String	Name of the township in which the company is located.
					cmn:District	0...1 0/*	String	District Code. ⓘ Must be a 3-digit numeric code.

¹Wholesale Inc²555 Neelan Road³Sacramento

Date Element						Occurs Length	Format	Description
					cmn:StateOrRegion	1...1 1/*	String	Required. The state, province, or region using the standard two-letter abbreviation specified in ISO 3166-2:1998 country subdivision code. ¹
					cmn:PostalCode	1...1 1/*	String	Required. The ZIP or other postal code. ²
					cmn:Country	1...1 1/*	String	Required. The country using the standard two-letter abbreviation specified in ISO 3166-1 alpha-2:1997 country code. ³
					cmn:CorporateFax	0...1 0/*	String	Company fax number.
					cmn:AddressObjectGUID	0...1 0/*	String	The global identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum of 36 characters, using the digits 0-9 and letters A-F.
					cmn:HouseGUID	0...1 0/*	String	The global house identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum of 36 characters, using the digits 0-9 and letters A-F.
					cmn:TaxRegistrationCode	0...1 0/*	String	The code used to identify this entity for tax or other legal reporting purposes (e.g. a Russia KPP Registration Code).
					cmn:PremisesCode	0...1 0/*	String	Identifier representing a physical area within the company location (e.g. a location's second floor).
					cmn:LicenseNumber	0...* 0/*	String	Populate with the license number of the facility. This element may be repeated to include as many license numbers as required (e.g. state and federal license). ⁴
					@state	0...1 0/*	String	Required. The state or region in which the trading partner is licensed, using the standard two letter abbreviation specified in ISO 3166-2:1998 country sub-division code. Used to give additional context to the license number. ⁵

¹CA²95833³US⁴3333300008701⁵CA

Date Element							Occurs Length	Format	Description
						@agency	0...1 0/*	String	Required. The agency that granted the license (e.g. Florida DOH, NABP). Used to give additional context to the license number. ¹
			cmn:CarrierInfo				0...* -	-	Conditionally required if ShipToCountryCode = BR . Information about the transportation partner that is transporting the shipment. cmn:CarrierInfo contains XML choice elements that govern whether master data lookup will be used to populate the address elements. Only one option in choice%1 may be populated.
				choice%1			1...1 -	Choice	Optional choice element: No error if neither are present. - Option 1: Contains only the cmn:CarrierBusinessPartyLookupId. - Populate this element ONLY if master data lookup is desired. - Option 2: Contains full cmn:CarreirBusinessPartyInfo business address field data that will be populated by the customer directly in the interface. - Populate this element fully ONLY if master data lookup is not desired.
				cmn:CarrierBusinessPartyLookupId			0...1 1/*	String	Required. Option 1 for cmn:CarrierInfo choice%1 group. ² A lookup identifier associated with the Carrier entity from the enumeration list. This value is used as the lookup key in master data to populate the details in cmn:CarrierBusinessPartyInfo .  Mandatory if full business address not provided in cmn:CarrierBusinessPartyInfo option.
					@type		1...1 1/*	String	Required. The type of the carrier business entity identifier from the provided enumeration list. ³  Mandatory if full business address not provided in cmn:CarrierBusinessPartyInfo option. See the BusinessLookupId enumeration list for valid values.
				cmn:CarrierBusinessPartyInfo			0...1 -	-	Required. Option 2 for cmn:CarrierInfo choice%1 group. The full business information associated with the transportation carrier business entity is provided.

¹BOP²13655³COMPANYID

Date Element					Occurs Length	Format	Description
							 Mandatory if standalone cmn:CarrierBusinessPartyLookupId option to leverage master data lookup is not populated.
				cmn:BusinessId	1...* 1/*	String	Required. The identifier associated with the transport carrier business entity. This value is mandatory for regulatory reporting. ¹
				@type	1...1 1/*	String	Required. The identifier associated with the transport carrier business entity. This value is mandatory for regulatory reporting. ²  Only one of the following values may be used per message: - RU_INN_FOREIGN_ENTITY - RU_INN_INDIV - RU_INN_LOCAL_ENTITY See the BusinessAndLocationId enumeration list for valid values.
				cmn:BusinessClassification	0...1 0/*	String	N/A. ³ See the BusinessClassification enumeration list for valid values.
				cmn:BusinessInfo	0...1 -	-	Populate with the business name and address of the transportation carrier business entity.
				cmn:BusinessName	1...1 1/*	String	Required. The business name of the trading partner. ⁴
				cmn:Street1	1...1 1/*	String	Required. The first line of the street address. ⁵
				cmn:Street2	0...1 0/*	String	The second line of the street address.

¹3333331013655²GLN³DISTRIBUTOR⁴Wholesale Inc⁵555 Neelan Road

Date Element						Occurs Length	Format	Description
					cmn:City	1...1 1/*	String	Required. The city. ¹
					cmn:Village	0...1 0/*	String	Name of the village in which the company is located.
					cmn:HouseNumber	0...1 0/*	String	Building, house, or unit number of the company. House numbers are usually only separated from the street address in China. For all addresses outside of China, continue to enter the building, house, or unit number in Street1 .
					cmn:Township	0...1 0/*	String	Name of the township in which the company is located.
					cmn:District	0...1 0/*	String	District Code.  Must be a 3-digit numeric code.
					cmn:StateOrRegion	1...1 1/*	String	Required. The state, province, or region using the standard two-letter abbreviation specified in ISO 3166-2:1998 country subdivision code. ²
					cmn:PostalCode	1...1 1/*	String	Required. The ZIP or other postal code. ³
					cmn:Country	1...1 1/*	String	Required. The country using the standard two-letter abbreviation specified in ISO 3166-1 alpha-2:1997 country code. ⁴
					cmn:CorporateFax	0...1 0/*	String	Company fax number.
					cmn:AddressObjectGUID	0...1 0/*	String	The global identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum of 36 characters, using the digits 0-9 and letters A-F.
					cmn:HouseGUID	0...1 0/*	String	The global house identifier assigned by the Russian Federation Information Address System (FIAS).

¹Sacramento²CA³95833⁴US

Date Element						Occurs Length	Format	Description
								 Maximum of 36 characters, using the digits 0-9 and letters A-F.
					cmn:TaxRegistrationCode	0...1 0/*	String	The code used to identify this entity for tax or other legal reporting purposes (e.g. a Russia KPP Registration Code).
					cmn:PremisesCode	0...1 0/*	String	Identifier representing a physical area within the company location (e.g. a location's second floor).
		cmn:WarehouseOperatorName				0...1 0/*	String	Name of the person responsible for warehouse operations. This element can be communicated at any time (e.g. with, before, or after the order details or received items have been communicated). ¹
		som:AddPickedItems				0...1 -	-	List of serial numbers for the outermost handling units received for this delivery. TraceLink looks up the child aggregations of the serial numbers provided in the list and updates the container and all sub-child items with the received and subsequent shipped status. This element is mandatory before the delivery complete flag can be set, though it can be communicated at any time (e.g. with, before, or after the order details have been communicated).
			cmn:Serial			0...* 1/*	String	Required. Serial number of an outermost handling unit received for this delivery. One serial number is included per received container (or item if shipping loose items). This is typically a pallet or case serial number. ²
				@format		0...1 0/*	String	Format of serial numbers. See the Format enumeration list for valid values.
				@orderItemNumber		0...1 0/*	String	Order item number attribute associating specific serial numbers with the price, VAT, and cost taxes reported in a specific instance of cmn:OrderItem .
		som:RemoveUnpickedItems				0...1 -	-	Not used.
			cmn:Serial			0...* 0/*	String	Not used.
				@format		0...1 0/*	String	Not used.

¹John Smith²015088202501033321100000060001

Date Element						Occurs Length	Format	Description	
		som:AddPickedLot				0...1 -	-	Not used.	
			cmn:ProductLotNumbers				0...* -	-	Not used.
				choice%1			0...1 -	Choice	Not used.
				cmn:InternalMaterialCode			0...1 0/*	String	Not used.
				cmn:CountryDrugCode			0...1 0/*	String	Not used.
					@type		0...1 0/*	String	Not used.
				cmn:LotNumber			0...1 0/*	String	Not used.
		som:RemoveUnpickedLot				0...1 -	-	Not used.	
			cmn:ProductLotNumbers				0...* -	-	Not used.
				choice%1			0...1 -	Choice	Not used.
				cmn:InternalMaterialCode			0...1 0/*	String	Not used.
				cmn:CountryDrugCode			0...1 0/*	String	Not used.
					@type		0...1 0/*	String	Not used.
				cmn:LotNumber			0...1 0/*	String	Not used.
		som:Aggregation				0...*	-	Communicate new aggregations created by the warehouse that are included in the shipment.	

Date Element				Occurs Length	Format	Description
						The picked items will continue to include the top level container serial numbers and/or loose items. - If the warehouse created a new aggregation (e.g. created a new pallet, created a new mixed case), the aggregation hierarchies created in the warehouse are communicated in this element. - If an existing case is shipped, the case just needs to be scanned and the case hierarchy would not be provided. - If a new mixed case is created, the hierarchy for the new case will be communicated. This enables the distribution warehouse to locally manage changes to aggregation hierarchies and communicate just the new hierarchies of the shipped goods at the time of shipment, without having to send disaggregation and aggregation events. The backend will perform the implicit disaggregate and aggregate operations to achieve the end state aggregation hierarchy prior to processing the shipment. The backend end will also auto-commission the SSCC numbers for new cases and pallets when these SSCC numbers are not yet commissioned.
			cmn:EventDateTime	0...1 0/*	DateTime	Timestamp of date/time of aggregation event with the UTC time zone indicator in format: YYYY-MM-DDTHH:MM:SS.ssZ. If not provided, current GMT date time will be used. ¹
			cmn:EventLocation	1...1 1/*	String	Required. Site-level SGLN of the location where the event occurred. SGLN format will be numeric component only, with urn prefix stripped (e.g. <code>8888882.02867.0</code> instead of <code>urn:epc:id:sgln:8888882.02867.0</code> typically found in EPCIS events). ²
			cmn:ParentSerial	1...1 1/*	String	Required. Serial number expressed in the GS1 Application Identifier format without parenthesis for the AI keys. AI (01) (21) formatted serial number for GTINs-or-AI (00) formatted serial number for SSCCs. Non-GS1 serial numbers (e.g. China) are expressed in native format. ³
			@companyPrefix	0...1 -	-	The GS1 Company Prefix used in GTIN-14 and SSCC serial numbers.
			@filterValue	0...1 -	-	The filter value used in GTIN-14 and SSCC serial numbers.
			@format	0...1	String	Format of serial numbers. ⁴

¹2016-06-30T06:30:32Z²8888882.02867.0³00508820250103339763⁴AI(00)

Date Element					Occurs Length	Format	Description
							See the Format enumeration list for valid values.
				@packedStatus	0...1 1/*	String	Indicates the packaging status of the container (full, partial). See the PackedStatus enumeration list for valid values.
			cmn:PackagingLevel		0...1 0/*	String	The packaging level of the commissioned items in cmn:NumberList . See the PackagingLevel enumeration list for valid values.
			cmn:NumberList		1...1 1/*	String	Required. List of serial numbers for the items packed into the parent serial number.
			cmn:Serial		1...1 1/*	String	Required. Serial number expressed in the GS1 Application Identifier format without parenthesis for the AI keys. AI (01) (21) formatted serial number for GTINs-or-AI (00) formatted serial number for SSCCs.Non-GS1 serial numbers (e.g. China) are expressed in native format. ¹
				@companyPrefix	0...1 -	-	The GS1 Company Prefix used in GTIN-14 and SSCC serial numbers.
				@filterValue	0...1 -	-	The filter value used in GTIN-14 and SSCC serial numbers.
				@format	0...1 1/*	String	Attribute identifies format of serial numbers. ² See the Format enumeration list for valid values.
				@packedStatus	0...1 1/*	String	Indicates the packaging status of the container (full, partial). See the PackedStatus enumeration list for valid values.
				@orderItemNumber	0...1 0/*	String	Order item number attribute associating specific serial numbers with the price, VAT, and cost taxes reported in a specific instance of cmn:orderItem .

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<som:SOMSalesShipmentMessage xmlns:som="urn:tracelink:mapper:sl:serialized_operations_manager"
xmlns:cmn="urn:tracelink:mapper:sl:commontypes">
  <som:ControlFileHeader>
    <cmn:FileSenderNumber>8888882028655</cmn:FileSenderNumber>
    <cmn:FileReceiverNumber>8888882028677</cmn:FileReceiverNumber>
```

¹015088202501033321100000060001

²AI(01)+AI(21)

```

    <cmn:FileControlNumber>0000000001</cmn:FileControlNumber>
    <cmn:FileDate>2019-07-25</cmn:FileDate>
    <cmn:FileTime>21:46:32Z</cmn:FileTime>
  </som:ControlFileHeader>
  <som:MessageBody>
    <cmn:LocationId>8888882025586</cmn:LocationId>
    <cmn:DeliveryNumber>4520010</cmn:DeliveryNumber>
    <cmn:DeliveryCompleteFlag>true</cmn:DeliveryCompleteFlag>
    <som:OrderDetails>
      <cmn:DisaggregateFromParent>true</cmn:DisaggregateFromParent>
      <cmn:CorrectiveShipment>false</cmn:CorrectiveShipment>
      <cmn:OriginalDeliveryNumber>8457512</cmn:OriginalDeliveryNumber>
      <cmn:EntryPort></cmn:EntryPort>
      <cmn:ExitPort></cmn:ExitPort>
      <cmn:TransactionIdentifier type="PO">P0303005</cmn:TransactionIdentifier>
      <cmn:TransactionDate>2019-07-25</cmn:TransactionDate>
      <cmn:TransactionTime>02:23:55</cmn:TransactionTime>
      <cmn:ShipToCountryCode>US</cmn:ShipToCountryCode>
      <cmn:ShipFromCountryCode>US</cmn:ShipFromCountryCode>
      <cmn:SalesDistributionType>INCOUNTRYSALE</cmn:SalesDistributionType>
      <cmn:SupplyType>MedicalCareDistribution</cmn:SupplyType>
      <cmn:ContractType>PrivateContract</cmn:ContractType>
      <cmn:Comments>Comments</cmn:Comments>
      <cmn:DropShipment>false</cmn:DropShipment>
      <cmn:ContractNumber>C107</cmn:ContractNumber>
      <cmn:FundingSource>OwnFunds</cmn:FundingSource>
      <cmn:RemovalFromCirculation></cmn:RemovalFromCirculation>
      <cmn:OrderItemList>
        <cmn:AllowShortVerificationCount>true</cmn:AllowShortVerificationCount>
        <cmn:OrderItem>
          <!-- EITHER InternalMateriaCode or PackagingItemCode, but not both -->
          <cmn:OrderItemNumber>708</cmn:OrderItemNumber>
          <cmn:PackagingItemCode type="GTIN-14">00882025503022</cmn:PackagingItemCode>
          <cmn:LotNumber>L007</cmn:LotNumber>
          <cmn:ExpirationDate>2019-07-25</cmn:ExpirationDate>
          <cmn:Quantity>500</cmn:Quantity>
          <cmn:UnitPrice currencyCode="USD">100.00</cmn:UnitPrice>
          <cmn:VAT currencyCode="USD">50.00</cmn:VAT>
          <cmn:GrossPrice currencyCode="USD">150.00</cmn:GrossPrice>
          <cmn:IsSerialized>false</cmn:IsSerialized>
        </cmn:OrderItem>
      </cmn:OrderItemList>
    </som:OrderDetails>
  </som:MessageBody>
</som:ControlFileHeader>

```

```

    <cmn:TransactionIdentifier type="PO" date="20109-07-25">PO85</cmn:TransactionIdentifier>
  </cmn:OrderItem>
</cmn:OrderItemList>
<cmn:SenderInfo>
  <cmn:FromBusinessPartyInfo>
    <cmn:BusinessId type="GLN">8779891013658</cmn:BusinessId>
    <cmn:BusinessId type="SGLN">9997777.01994.0</cmn:BusinessId>
    <cmn:BusinessClassification>MANUFACTURER</cmn:BusinessClassification>
    <cmn:BusinessInfo>
      <cmn:BusinessName>Clara Manufacturing</cmn:BusinessName>
      <cmn:BusinessType>Manufacturer</cmn:BusinessType>
      <cmn:Street1>10 Welsh St</cmn:Street1>
      <cmn:City>Malden</cmn:City>
      <cmn:Village></cmn:Village>
      <cmn:HouseNumber></cmn:HouseNumber>
      <cmn:Township></cmn:Township>
      <cmn:StateOrRegion>MA</cmn:StateOrRegion>
      <cmn:PostalCode>02148</cmn:PostalCode>
      <cmn:Country>US</cmn:Country>
      <cmn:CorporateFax></cmn:CorporateFax>
      <cmn:AddressObjectGUID>19406454-0022-000C-00B0-000000000150</cmn:AddressObjectGUID>
      <cmn:HouseGUID>986f2934-be05-438f-A30E-c15b90e15dba</cmn:HouseGUID>
      <cmn:TaxRegistrationCode></cmn:TaxRegistrationCode>
      <cmn:PremisesCode></cmn:PremisesCode>
    </cmn:BusinessInfo>
  </cmn:FromBusinessPartyInfo>
</cmn:SenderInfo>
<cmn:ReceiverInfo>
  <!-- EITHER ToBusinessPartyLookupId or ToBusinessPartyInfo, but not both -->
  <cmn:ToBusinessPartyLookupId type="COMPANYSITEID">122333</cmn:ToBusinessPartyLookupId>
  <!--
  <cmn:ToBusinessPartyInfo>
    <cmn:BusinessId type="">ToBusinessPartyInfo-BusinessId</cmn:BusinessId>
    <cmn:BusinessClassification></cmn:BusinessClassification>
    <cmn:BusinessInfo>
      <cmn:BusinessName>Grondin Pharmacy</cmn:BusinessName>
      <cmn:BusinessType>Pharmacy</cmn:BusinessType>
      <cmn:Street1>100 Main Street</cmn:Street1>
      <cmn:City>Portsmouth</cmn:City>
      <cmn:Village></cmn:Village>

```

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    <cmn:HouseNumber></cmn:HouseNumber>
    <cmn:Township></cmn:Township>
    <cmn:StateOrRegion>NH</cmn:StateOrRegion>
    <cmn:PostalCode>03801</cmn:PostalCode>
    <cmn:Country>US</cmn:Country>
    <cmn:CorporateFax></cmn:CorporateFax>
    <cmn:AddressObjectGUID>19406454-0022-000C-00B0-000000000153</cmn:AddressObjectGUID>
    <cmn:HouseGUID>986f2934-be05-438f-A30E-c15b90e15dbe</cmn:HouseGUID>
    <cmn:TaxRegistrationCode></cmn:TaxRegistrationCode>
    <cmn:PremisesCode></cmn:PremisesCode>
  </cmn:BusinessInfo>
</cmn:ToBusinessPartyInfo>
-->
<!-- EITHER ShipToLocationLookupId or ShipToLocationInfo, but not both -->
<cmn:ShipToLocationLookupId type="GLN">1223331013844</cmn:ShipToLocationLookupId>
<!--
<cmn:ShipToLocationInfo>
  <cmn:FacilityId type="COMPANYSITEID">122333</cmn:FacilityId>
  <cmn:LocationInfo>
    <cmn:BusinessName>Grondin Pharmacy</cmn:BusinessName>
    <cmn:BusinessType>Pharmacy</cmn:BusinessType>
    <cmn:Street1>100 Main Street</cmn:Street1>
    <cmn:City>Portsmouth</cmn:City>
    <cmn:Village></cmn:Village>
    <cmn:HouseNumber></cmn:HouseNumber>
    <cmn:Township></cmn:Township>
    <cmn:StateOrRegion>NH</cmn:StateOrRegion>
    <cmn:PostalCode>03801</cmn:PostalCode>
    <cmn:Country>US</cmn:Country>
    <cmn:CorporateFax></cmn:CorporateFax>
    <cmn:AddressObjectGUID>19406454-0022-000C-00B0-000000000154</cmn:AddressObjectGUID>
    <cmn:HouseGUID>986f2934-be05-438f-A30E-c15b90e15dbd</cmn:HouseGUID>
    <cmn:TaxRegistrationCode></cmn:TaxRegistrationCode>
    <cmn:PremisesCode></cmn:PremisesCode>
  </cmn:LocationInfo>
  <cmn:LicenseNumber state="NH" agency="NABP">89123456</cmn:LicenseNumber>
</cmn:ShipToLocationInfo>
-->
</cmn:ReceiverInfo>
<cmn:CarrierInfo>

```



```

<!-- EITHER CarrierBusinessPartyLookupId or CarrierBusinessPartyInfo, but not both -->
<cmn:CarrierBusinessPartyLookupId type="COMPANYSITEID">122333</cmn:CarrierBusinessPartyLookupId>
<!--
<cmn:CarrierBusinessPartyInfo>
  <cmn:BusinessId type="">CarrierBusinessPartyInfo-BusinessId</cmn:BusinessId>
  <cmn:BusinessClassification>CarrierBusinessPartyInfo-
BusinessClassification</cmn:BusinessClassification>
  <cmn:BusinessTransactionRole></cmn:BusinessTransactionRole>
  <cmn:BusinessInfo>
    <cmn:BusinessName>Grondin Pharmacy</cmn:BusinessName>
    <cmn:BusinessType>Pharmacy</cmn:BusinessType>
    <cmn:Street1>100 Main Street</cmn:Street1>
    <cmn:City>Portsmouth</cmn:City>
    <cmn:Village></cmn:Village>
    <cmn:HouseNumber></cmn:HouseNumber>
    <cmn:Township></cmn:Township>
    <cmn:StateOrRegion>NH</cmn:StateOrRegion>
    <cmn:PostalCode>03801</cmn:PostalCode>
    <cmn:Country>US</cmn:Country>
    <cmn:CorporateFax></cmn:CorporateFax>
    <cmn:AddressObjectGUID>19406454-0022-000C-00B0-000000000152</cmn:AddressObjectGUID>
    <cmn:HouseGUID>986f2934-be05-438f-A30E-c15b90e15dbc</cmn:HouseGUID>
    <cmn:TaxRegsitrationCode></cmn:TaxRegsitrationCode>
    <cmn:PremisesCode></cmn:PremisesCode>
  </cmn:BusinessInfo>
</cmn:CarrierBusinessPartyInfo>
-->
</cmn:CarrierInfo>
</som:OrderDetails>
<cmn:WarehouseOperatorName>Patrick Murphy</cmn:WarehouseOperatorName>
<som:AddPickedItems>
  <cmn:Serial format="AI(01)+AI(21)">015088202501033321100000060001</cmn:Serial>
</som:AddPickedItems>
<som:Aggregation>
  <cmn:EventDateTime>2017-05-30T06:30:32.00Z</cmn:EventDateTime>
  <cmn:EventLocation>EventLocation</cmn:EventLocation>
  <cmn:ParentSerial format="AI(01)+AI(21)">015088202501033321100000060002</cmn:ParentSerial>
  <cmn:PackagingLevel>EA</cmn:PackagingLevel>
  <cmn:NumberList>
    <cmn:Serial format="AI(01)+AI(21)" orderItemNumber

```

```

"708">015088202501033321100000060001</cmn:Serial>
    </cmn:NumberList>
  </som:Aggregation>
</som:MessageBody>
</som:SOMSalesShipmentMessage>

```

Errors

Data Element	Error Message	Description
Class 1		
cmn:BusinessId	CarrierBusinessPartyInfo BusinessId is required when ShipToCountry is Brazil !!!	The error occurs if ShipToCountryCode = "BR", but CarrierBusinessPartyInfo is empty or null.
cmn:BusinessId @type	Valid carrier party BusinessId type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Party type attribute is required if receiving business party BusinessId is populated !!!	The error occurs if BusinessId is populated, but the source is empty or null.
	Valid receiving business party BusinessId type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Party type attribute is required if carrier party BusinessId is populated !!!	The error occurs if BusinessId is populated, but the source is empty or null.
	Party type attribute is required if source from business party cmn:BusinessId is populated !!!	The error occurs if BusinessId is populated, but the source is empty or null.
	Valid from business party BusinessId type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:BusinessName	Receiving business party name is required !!!	The error occurs if ShipToCountryCode = "US" and BusinessInfo is populated, but the source is empty or null.
	From business party name is required !!!	The error occurs if ShipToCountryCode = "US" and BusinessInfo is populated, but the source is empty or null.
	Ship from location name is required !!!	The error occurs if ShipToCountryCode = "US" and LocationInfo is populated, but the source is empty or null.

Data Element	Error Message	Description
	Carrier name in source cmn:BusinessName is required if cmn:BusinessInfo is populated !!	The error occurs if BusinessInfo is populated, but the source is empty or null.
cmn:CarrierBusinessPartyLookupId @type	Party type attribute is required if source CarrierBusinessPartyLookupId is populated !!!	The error occurs if CarrierBusinessPartyLookupId is populated, but the source is empty or null.
	Valid CarrierBusinessPartyLookupId type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:CarrierInfo choice%1	Missing mandatory choice. One of CarrierBusinessPartyLookupId OR CarrierBusinessPartyInfo is required if ShiptoCountry is Brazil !!!	The error occurs if neither CarrierBusinessPartyLookupId nor CarrierBusinessPartyInfo are present.
	Only one of CarrierBusinessPartyLookupId OR CarrierBusinessPartyInfo is required if ShipToCountry is Brazil!!!	The error occurs if both CarrierBusinessPartyLookupId and CarrierBusinessPartyInfo are present.
cmn:City	From business party city is required !!!	The error occurs if ShipToCountryCode = "US" and BusinessInfo is populated, but the source is empty or null.
	Receiving business party city name is required !!!	The error occurs if ShipToCountryCode = "US" and BusinessInfo is populated, but the source is empty or null.
	Carrier city in source cmn:BusinessName is required if cmn:BusinessInfo is populated !!	The error occurs if BusinessInfo is populated, but the source is empty or null.
	Ship from city name is required !!!	The error occurs if ShipToCountryCode = "US" and LocationInfo is populated, but the source is empty or null.
cmn:ContractType	Valid Contract Type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:Country	From business party country code is required !!!	The error occurs if ShipToCountryCode = "US" and BusinessInfo is populated, but the source is empty or null.
	Carrier country in source cmn:BusinessName is required if cmn:BusinessInfo is populated !!!	The error occurs if BusinessInfo is populated, but the source is empty or null.
	Ship from country code is required !!!	The error occurs if ShipToCountryCode = "US" and

Data Element	Error Message	Description
		LocationInfo is populated, but the source is empty or null.
	Receiving business party country code is required !!!	The error occurs if ShipToCountryCode = "US" and BusinessInfo is populated, but the source is empty or null.
cmn:EventLocation	Event location identifier is required !!!	The error occurs if Aggregation is populated, but the source is empty or null.
cmn:FacilityId	Ship from facility location identifier is required if LocationInfo group is populated !!!	The error occurs if LocationInfo is present, but ShipFromLocationLookupId is empty or null.
	Receiver facility location identifier is required if LocationInfo group is populated !!!	The error occurs if LocationInfo is present, but ShipToLocationId is empty or null.
cmn:FacilityId @type	Valid party type attribute is required when ship to FacilityId is populated !!!	The error occurs if FacilityId is populated, but the source is empty or null.
	Valid ship to FacilityId type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Valid party type attribute is required when source ship from FacilityId is populated !!!	The error occurs if FacilityId is populated, but the source is empty or null.
	Valid ship from FacilityId type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:FromBusinessPartyLookupId @type	Valid FromBusinessPartyLookupId type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Party type attribute is required if source FromBusinessPartyLookupId is populated !!!	The error occurs if FromBusinessPartyLookupId is populated, but the source is empty or null.
cmn:LocationId	Location ID is required !!!	The error occurs if the source is empty or null.
cmn:OrderItem choice%1	If both are present throw error: Only one of InternalMaterialCode OR PackagingItemCode is required !!!	The error occurs if both InternalMaterialCode and PackagingItemCode are present.
	If neither are present throw error: Missing mandatory choice. One of InternalMaterialCode OR PackagingItemCode is required !!!	The error occurs if neither InternalMaterialCode nor PackagingItemCode are present.

Data Element	Error Message	Description
cmn:PackagingItemCode @type	Product type attribute is required when source PackagingItemCode is populated !!!	The error occurs if PackagingItemCode is populated, but the source is empty or null.
	Valid Item Code Type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:ParentSerial	Parent serial number is required !!!	The error occurs if Aggregation is populated, but the source is empty or null.
cmn:PostalCode	Carrier postal code in source cmn:BusinessName is required if cmn:BusinessInfo is populated !!!	The error occurs if BusinessInfo is populated, but the source is empty or null.
	Ship from postal code is required !!!	The error occurs if ShipToCountryCode = "US" and LocationInfo is populated, but the source is empty or null.
	From business party postal code is required !!!	The error occurs if ShipToCountryCode = "US" and BusinessInfo is populated, but the source is empty or null.
	Receiving business party postal code is required !!!	The error occurs if ShipToCountryCode = "US" and BusinessInfo is populated, but the source is empty or null.
cmn:ReceiverInfo choice%1	Only one of ToBusinessPartyLookupId OR ToBusinessPartyInfo group is required !!!	The error occurs if both ToBusinessPartyLookupId and ToBusinessPartyInfo are present.
	Missing mandatory choice. One of ToBusinessPartyLookupId OR ToBusinessPartyInfo group is required !!!	The error occurs if neither ToBusinessPartyLookupId nor ToBusinessPartyInfo are present.
cmn:ReceiverInfo choice%2	Only one of ShipToLocationLookupId OR ShipToLocationInfo group is required !!!	The error occurs if both ShipToLocationLookupId and ShipToLocationInfo are present.
cmn:SenderInfo choice%1	Missing mandatory choice. One of FromBusinessPartyLookupId OR FromBusinessPartyInfo group is required !!!	The error occurs if neither FromBusinessPartyLookupId nor FromBusinessPartyInfo are present.
	Only one of FromBusinessPartyLookupId OR FromBusinessPartyInfo group is required !!!	The error occurs if both FromBusinessPartyLookupId and FromBusinessPartyInfo are present.
cmn:SenderInfo choice%2	Only one of ShipFromLocationLookupId OR ShipFromLocationInfo group is required !!!	The error occurs if both ShipFromLocationLookupId and ShipFromLocationInfo are present.

Data Element	Error Message	Description
cmn:ShipFromLocationLookupId @type	Valid party type attribute is required when source ShipFromLocationLookupId is populated !!!	The error occurs if ShipFromLocationLookupId is populated, but the source is empty or null.
	Valid ShipFromLocationLookupId is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:ShipToLocationLookupId @type	Valid party type attribute is required when source ShipToLocationLookupId is populated !!!	The error occurs if ShipToLocationLookupId is populated, but the source is empty or null.
	Valid ShipToLocationLookupId type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:ToBusinessPartyLookupId @type	Party type attribute is required if source ToBusinessPartyLookupId is populated !!!	The error occurs if ToBusinessPartyLookupId is populated, but the source is empty or null.
	Valid ToBusinessPartyLookupId type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:TransactionIdentifier @type	Valid Transaction Identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:UnitPrice @currencyCode	Currency Code is required if Unit Price exists !!!	The error occurs if UnitPrice is populated, but the source is empty or null.
cmn:Quantity	Quantity greater than 0 is required !!!	The error occurs if the source is 0 or less than 0.
cmn:SalesDistributionType	Valid sales distribution type is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
cmn:Serial	Child serial number is required !!!	The error occurs if Aggregation is populated, but the source is empty or null.
cmn:ShipFromCountryCode	Valid ShipTo Country Code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:ShipToCountryCode	Valid ShipFrom Country Code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:StateOrRegion	From business party state or region code is required !!!	The error occurs if ShipToCountryCode = "US" and BusinessInfo is populated, but the source is empty or null.
	Carrier StateOrRegion in source cmn:BusinessName is required if cmn:BusinessInfo is populated !!!	The error occurs if BusinessInfo is populated, but the source is empty or null.

Data Element	Error Message	Description
	Receiving business party state or region code is required !!!	The error occurs if ShipToCountryCode = "US" and BusinessInfo is populated, but the source is empty or null.
	Ship from state or region code is required !!!	The error occurs if ShipToCountryCode = "US" and LocationInfo is populated, but the source is empty or null.
cmn:Street1	Receiving business party street address is required !!!	The error occurs if ShipToCountryCode = "US" and BusinessInfo is populated, but the source is empty or null.
	Carrier Street1 in source cmn:BusinessName is required if cmn:BusinessInfo is populated !!	The error occurs if BusinessInfo is populated, but the source is empty or null.
	From business party street address is required !!!	The error occurs if ShipToCountryCode = "US" and BusinessInfo is populated, but the source is empty or null.
cmn:Street2	Ship from street address is required !!!	The error occurs if ShipToCountryCode = "US" and LocationInfo is populated, but the source is empty or null.
cmn:SupplyType	Valid Supply Type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:TransactionIdentifier	Transaction identifier is required !!!	The error occurs if the source is empty or null.
Class 2		
cmn:CarrierBusinessPartyLookupId	Could not perform Master Data lookup to populate transportation carrier business address fields. <CarrierBusinessPartyLookupId / type> <CarrierBusinessPartyLookupId > is not configured in your Company or Partner Company Master Data. Please configure <CarrierBusinessPartyLookupId / type> <CarrierBusinessPartyLookupId > in Company or Partner Company Master Data, and reprocess the file.	The error occurs if cmn:CarrierBusinessPartyLookupId @type or the source is empty or null in Company or Partner Company Master Data.
cmn:FromBusinessPartyLookupId	Could not perform Master Data lookup to populate sender business address fields. <FromBusinessPartyLookupId / type>	The error occurs if cmn:FromBusinessPartyLookupId @type or the source is empty or null in Company or Partner Company Master Data.

Data Element	Error Message	Description
	<FromBusinessPartyLookupId> is not configured in your Company or Partner Company Master Data. Please configure <FromBusinessPartyLookupId / type> <FromBusinessPartyLookupId> in Company or Partner Company Master Data, and reprocess the file.	
cmn:FundingSource	Funding Source is required if Ship To Country Code is RU and Ship From Country Code is RU.	The error occurs if both cmn:ShipToCountryCode and cmn:ShipFromCountryCode = "RU", but the source is empty or null.
cmn:OrderItemList	Delivery <Delivery Number> could not be processed. Expected <Pick Quantity> for Item <Item Code>, Lot <Lot Number> but <EA Level Serial Number Count> item serial numbers were found.	The error occurs if AllowShortVerificationCount = true, but derived quantity is greater than OrderItemQuantity.
	Delivery <Delivery Number> could not be processed. Expected <Pick Quantity> for Item <Item Code>, Lot <Lot Number> but <EA Level Serial Number Count> item serial numbers were found.	The error occurs if AllowShortVerificationCount = false, but derived quantity does not equal OrderItemQuantity.
cmn:Serial	Cannot perform operation on serial number <serial number> with serial number state <serial number state>. This operation can only be performed when the serial number is <List of serial number states separated by or's>	The error occurs if the source was not commissioned before it was shipped.
cmn:ShipFromLocationLookupId	Could not perform Location Master Data lookup to populate sender shipping address fields. <ShipFromLocationLookupId / type> <ShipFromLocationLookupId> is not configured in your Company Location Master Data nor in your Partner Location Master Data. Please configure <ShipFromLocationLookupId / type> <ShipFromLocationLookupId> in Company Location Master Data or in Partner Location Master Data (if the ship from location is a partner location), and reprocess the file.	The error occurs if cmn:ShipFromLocationLookupId @type or the source is empty or null in Company or Partner Location Master Data.
cmn:ShipToLocationLookupId	Could not perform Location Master Data lookup to populate receiver shipping address fields. <ShipToLocationLookupId / type> <ShipToLocationLookupId> is not configured in your	The error occurs if cmn:ShipToLocationLookupId @type or the source is empty or null in Company or Partner Location Master Data.

Data Element	Error Message	Description
	Company or Partner Location Master Data. Please configure <ShipToLocationLookupId / type> <ShipToLocationLookupId> in Company Partner Location Master Data and reprocess the file.	
cmn:ToBusinessPartyLookupId	Could not perform Master Data lookup to populate receiver business address fields. <ToBusinessPartyLookupId / type> <ToBusinessPartyLookupId> is not configured in your Company or Partner Company Master Data. Please configure <ToBusinessPartyLookupId / type> <ToBusinessPartyLookupId> in Company or Partner Company Master Data, and reprocess the file.	The error occurs if cmn:ToBusinessPartyLookupId I @type or the source is empty or null in Company or Partner Company Master Data.
tl:salesDistributionType	Serial Numbers with Recalled status cannot be shipped.	(missing or bad snippet) salesDistrubutionType = INCOUNTRYSALE or EXPORTSALE for sales shipments, but one or more serial numbers have a Recalled reason code.
cmn:TransactionIdentifier @date	Order Item Transaction Identifier Date is required if Ship To Country Code = RU.	The error occurs if cmn:ShipToCountryCode = "RU" but the source is empty or null.
cmn:UnitPrice	Unit Price is required if Ship To Country Code is RU and Ship From Country Code is any of RU, AM, BY, KZ, KG.	The error occurs if cmn:ShipToCountryCode = "RU" and cmn:ShipFromCountryCode = "AM", "BY", "KG", "KZ", or "RU", but the source is empty or null.
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

ESM Shipment (EPCIS v1.2)

Guidelines

Use this message for any type of shipment (i.e. sale, transfer, or return). This message can contain optional commissioning and aggregation data, in addition to the required shipping data.



- When product changes ownership from an MAH, or a CMO or 3PL acting on behalf of an MAH, to another entity, an outbound shipment is generated and the serial numbers are put into a **shipped** state.
- When product is moving between locations (i.e. not a change of ownership) working on behalf of an MAH, an inbound shipment is generated and the serial numbers are put into a **pending receipt** state.

This message uses the Park and Retry functionality. If a prerequisite condition for this message has not been met, TraceLink stops processing the task, returns the task to the queue, and then tries to process the task again every 15 minutes for up to 2 hours.

Message Type:SOM_ESM_SHIPMENT

Info Exchange Display Name: ESM Shipment

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

⚠ NTINs *must* follow the [GS1 Guidance](#) standards as found on the GS1 website.

- Ex: urn:epc:id:sgtin:415001647778.0.100000000022
- Format: urn:epc:id:sgtin:[company prefix].[indicator digit][item ref].[serial number]

Information regarding NTINs cannot be exchanged with trade partners unless the specific format outlined above is followed. If using an NTIN without following this format, an outbound error occurs when passing data from TraceLink to a trade partner.

Data Element	Occurs Length	Type	Description
epcis:EPCISDocument	1...1 -	-	Required. EPCIS message root element.
@schemaVersion	1...1 0/*	Decimal	Required. The version of the EPCIS schema used to populate the EPCIS document elements. Must equal 1.2 . ¹

¹1.2

Data Element				Occurs Length	Type	Description
@creationDate				1...1 1/*	DateTime	Required. Date the message was created in YYYY-MM-DDTHH:MM:SS:mmZ format. ¹
EPCISHeader				0...1 -	-	Required. XML file control header. This message supports the following use cases: - Shipping event only: Commission and aggregation transactions have already been processed. - Aggregation + Shipping events: Commission events have already been processed. - Aggregation + Shipping + Decommission/Destroy events: Commission events have already been processed. - Commission + Shipping events: Product is not aggregated. - Commission + Aggregation + Shipping events: All events reported at same time from external system. - Commission + Shipping + Decommission/Destroy events: Product is not aggregated. - Commission + Aggregation + Shipping + Decommission/Destroy events: All events reported at same time from external system. - Shipping + Decommission/Destroy events: Commission and Aggregation transactions have already been processed. Shipping event is required; all other events are optional.
sbdh:StandardBusinessDocumentHeader				1...1 -	-	Required. Business header information including EPCIS Header Version, Sender, and Receiver information, along with the document identification.
sbdh:HeaderVersion				1...1 0/*	String	Required. Version of the Standard Business Document Header (SBDH). The HeaderVersion must be set to 1.0 . ²
sbdh:Sender				1...* -	-	Required. A unique identification key for the Sender party of the message, representing the organization that created the standard business document. The Sender element must be used only once with GS1 XML messages.
sbdh:Identifier				1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type. ³ Send SGLN and all other party types with the GS1-conformant uri prefix, for example: <code>urn:epc:id:sgln:088202.867701.0</code> <code>http://epcis.gs1us.org/hc/dea/loc/10023141</code> <i>i</i> GLNs do not have an urn/http prefix.

¹2016-12-18T22:08:02Z²1.0³1100001014507

Data Element					Occurs Length	Type	Description
							See the MDPartyTypeAttributes enumeration list for valid values.
				@Authority	1...1 1/*	String	Required. The sender identifier type. The Authority was previously expected to be set to GLN for GS1 XML messages. An update made in December 2016 changed this to accept additional values. ¹ See the BusinessAndLocationId enumeration list for valid values.
			sbdh:Receiver		1...* -	-	Required. Indicates a unique identification key for the direct Receiver party of the message, representing the organization that receives the standard business document. The Receiver element is used only once with GS1 XML messages.
			sbdh:Identifier		1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type. ² Send SGLN and all other party types with the GS1-conformant uri prefix, for example: <code>urn:epc:id:sgln:088202.867701.0</code> <code>http://epcis.gs1us.org/hc/dea/loc/10023141</code>  GLNs do not have an urn/http prefix. See the MDPartyTypeAttributes enumeration list for valid values.
				@Authority	1...1 1/*	String	Required. The receiver identifier type. The Authority was previously expected to be set to GLN for GS1 XML messages. An update made in December 2016 changed this to accept additional values. ³ See the BusinessAndLocationId enumeration list for valid values.
			sbdh:DocumentIdentification		1...1 -	-	Required. Contains the identification group for the message.
			sbdh:Standard		1...1 0/*	String	Required. Name of the document standard contained in the file or message. The standard value for this field is EPCglobal . ⁴
			sbdh:TypeVersion		1...1 0/*	String	Required. Reflects the version of the document included. This is the complete version of the document itself and is different from the HeaderVersion as these are hard-coded values. The TypeVersion is set to 1.0 . ⁵
			sbdh:InstanceIdentifier		1...1 1/*	String	Required. Reference information that uniquely identifies this instance of the Standard Business Document between the Sender and the Receiver. This identifier confirms this document as being distinct from others. ⁶

¹GLN²0614141123452³GLN⁴EPCglobal⁵1.0⁶201609201745200001

Data Element				Occurs Length	Type	Description
			sbdh:Type	1...1 0/*	String	Required. Identifies the document type. The sbdh:Type value is set to Events for a shipment event. ¹
			sbdh:CreationDateAndTime	1...1 0/*	DateTime	Required. The date and time of the SBDH document's creation. GMT create date and time for the EPCIS message. The system expects the Z to be appended; however, if it is not included, the system assumes that the time is GMT and therefore appends the Z .
			extension	0...1 -	-	Header extension area with master data attributes.
			EPCISMasterData	0...1 -	-	Master data extension header. May contain product master data attributes for Commissioning event and/or business and ship party address information. i Full GS1 conformance requires that all product and party master data be stored in the EPCIS header extension EPCISMasterData VocabularyList Vocabulary VocabularyElementList VocabularyElement. It is strongly urged that all product master data for Commissioning and Transformation events be sent in the VocabularyElement within the EPCISMasterData header extension.
			VocabularyList	1...1 -	-	Required. Vocabulary list group master data elements.
			Vocabulary(1)	0...* -	-	Looping vocabulary element with discrete item master data and/or party master data element groups. Vocabulary occurs only once for all item master entries and party address info present in message, if the group is populated. Group is optional. If it does not appear in master data header extension, no error will be thrown.
			@type	1...1 0/*	String	Required. Vocabulary type identifying product master data elements. Product master data is defined by VocabularyElement @id . Valid value: <code>urn:epcglobal:epcis:vtype:EPCClass = product master data</code> . ²
			VocabularyElementList	0...1 -	-	List of vocabulary elements containing master data attributes for each unique product code.
			VocabularyElement	1...* -	-	Looping vocabulary element identifying each unique SGTIN, NTIN, or China Product Code for product master data embedded in the epc serial number in the Commissioning and Transformation events. SSCC codes are not included in VocabularyElement product master data.

¹Events²urn:epcglobal:epcis:vtype:EPCClass

Data Element								Occurs Length	Type	Description
										ⓘ To conform with GS1 standards, master data attributes should be sent in the VocabularyElement. Each unique SGTIN, NTIN, or China Product Code embedded in Commissioning event epcList epc and Transformation event outputEPC epc serial numbers should be sent in one instance of VocabularyElement.
							@id	1...1 0/*	String	Required. Identifies the product code for which master data is being sent in the VocabularyElement loop. VocabularyElement @id = SGTIN, NTIN, or China Product Code. These are the only values supported in this element. All other product identifier types will be sent as additional trade item types. SSCC codes are not identified in any part of the VocabularyElement group.¹ Must match the product code embedded within the serial number in the epc code in one or more commissioning events or the outputEPCList epc in one or more transformation events. SGTIN - Prefix: <code>urn:epc:idpat:sgtin:</code> - Example: <code>urn:epc:idpat:sgtin:0030001.0012345.*</code> ⓘ Legacy http prefix will continue to be supported: Legacy: <code>http://epcis.tracelink.com/obj/[ProductType]/</code>
							attribute	1...1 1/*	String	Conditionally required if item master data attributes are sent in VocabularyElement. Instance 1 of attribute for packaging level value identified by attribute @id.² See the PackagingLevel enumeration list for valid values.
							@id	1...1 0/*	String	Required. Attribute identifying packaging level. Valid value: <code>http://epcis.tracelink.com/mda/packageTypeCode</code>³
							attribute	0...1 0/*	String	Instance 2 of attribute for internal material number in Pharmaceutical Manufacturer's internal system identified by attribute @id. Identified by the value in attribute element (instance 3) in the current loop = <code>MANUFACTURER_PART_NUMBER</code>.⁴
							@id	1...1 0/*	String	Required. Id attribute identifying internal material code. Valid value: <code>urn:epcglobal:cbv:mda#additionalTradeItemIdentification</code>⁵
							attribute	0...1 0/*	String	Conditionally required if the previous name/value pair attribute @id (instance 2) is populated. Instance 3 of attribute for internal material number identifier type for the product. Id attribute identifying internal material code.

¹urn:epc:idpat:sgtin:0030001.0012345.*²UN³http://epcis.tracelink.com/mda/packageTypeCode⁴100335⁵urn:epcglobal:cbv:mda#additionalTradeItemIdentification

Data Element										Occurs Length	Type	Description
												Valid value: <code>MANUFACTURER_PART_NUMBER</code>¹ Sequence of fields for internal material number is: <code><attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">100335</attribute></code> <code><attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">MANUFACTURER_PART_NUMBER</attribute></code>  If this sequence is not followed as documented above in the input file, the internal material number will not be mapped into the TraceLink system and no error will be thrown.
								@id		1...1 0/*	String	Required. Id attribute identifying internal material code. Valid value: <code>urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode</code>²
								attribute		0...1 0/*	String	Instance 4 of attribute for country drug code for all national drug code types, identified by the enum value in the next attribute element (instance 5) in the current loop and by the attribute <code>@id</code> value as an additional trade item.³ Country drug code type defined by value in the attribute element (instance 5) where attribute <code>@id</code> = <code>urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode</code> OR <code>http://epcis.tracelink.com/mda/additionalTradeItemIdentificationTypeCode</code>.
								@id		1...1 0/*	String	Required. Id attribute identifying internal material code. Valid value: <code>urn:epcglobal:cbv:mda#additionalTradeItemIdentification</code>⁴
								attribute		0...1 0/*	String	Conditionally required if the previous name/value pair attribute <code>@id</code> (instance 4) is populated. Instance 5 of attribute for country drug code identifier type. Must follow attribute with country drug value. Id attribute identifying internal material code.⁵ Sequence of fields for country drug code is: GS1: <code><attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">82025030221</attribute></code> <code><attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_</code>

¹MANUFACTURER_PART_NUMBER²urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode³82025030221⁴urn:epcglobal:cbv:mda#additionalTradeItemIdentification⁵FDA_NDC_11

Data Element										Occurs Length	Type	Description
												<pre>11</attribute></pre> TraceLink: <pre><attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">82025030221</attribute></pre> <pre><attribute id="http://epcis.tracelink.com/mda/additionalTradeItemIdentificationTypeCode">US_NDC442</attribute></pre>  If this sequence is not followed as documented above in the input file, the internal material number will not be mapped into the TraceLink system and no error will be thrown. The following qualifiers have been defined by GS1 as additional trade item types: MANUFACTURER_PART_NUMBER = Internal material number FDA_NDC_11 = US NDC542 DIN = Canada Drug ID Number PHARMACODE_CH = Swiss Pharma Code NAN = Nordic Article Number To identify these material number types, use attribute @id string: <code>urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode.</code> For all other country drug code types, use attribute @id string: <code>http://epcis.tracelink.com/mda/additionalTradeItemIdentificationTypeCode.</code>  Mandatory if the previous name/value pair attribute @id (instance 4) is populated.
								@id		1...10/*	String	Required. Id attribute identifying internal material code. Valid value:¹ <code>urn:epcglobal:cbv:mda#additionalTradeItemIdentification</code> (GS1 enums). <code>http://epcis.tracelink.com/mda/packageTypeCode</code> (TraceLink enums).
									Vocabulary(2)	0...*-	-	Looping vocabulary with discrete master data element groups. Vocabulary will occur once each for sold from, ship from, sold to, and ship to parties.

¹urn:epcglobal:cbv:mda#additionalTradeItemIdentification

Data Element							Occurs Length	Type	Description
									 Group is optional. If it does not appear in master data header extension, no error will be thrown.
					@type		1...1 0/*	String	Required. Vocabulary type identifying location master data elements. Master data type defined by VocabularyElement @id. Valid value: <code>urn:epcglobal:epcis:vtype:Location = party master data</code>¹  Sold from, ship from, sold to, and ship to for shipping event are all tracked in header master data. Party data in Shipping event is mapped from header master in Vocabulary.
					VocabularyElementList		0...1 -	-	List of vocabulary elements that includes all partner master information. Party identifiers and address info are stored in instances of the looping group VocabularyElement .
					VocabularyElement		0...1 -	-	Looping group header for data elements that identify all business party and location master data, including identifiers, identifier types, and address info. Shipping Event: • Sold/Transfer from business party (Mandatory if group populated) • Ship from location (Optional) • Sold/Transfer to business party (Mandatory if group populated) • Ship to location (Optional) Master data lookup is supported. If partner master data is available in TraceLink, indicate master data lookup by sending partner identifiers in the sourceList and/or destinationList for the shipping event and do not include address data in any VocabularyElement group. Master data lookup is supported from the readPoint id for the decommissioning and destroying events if VocabularyElement is not populated with location address. If master data lookup is not intended, send complete address information for at least the sold-from and sold-to partners in the header master data extension. Ship-from and ship-to addresses can also be included.
					@id		1...1 0/*	String	Required. SGLN or other partner identifier and type for party master data in VocabularyElement. Must match sourceList or destinationList owning or location party in shipping event from:² • ObjectEvent extension sourceList source (transfer from, carrier) or • ObjectEvent extension destinationList destination (transfer to)

¹urn:epcglobal:epcis:vtype:Location²urn:epc:id:sgln:088202.867701.0

Data Element									Occurs Length	Type	Description
											The identifier value is mandatory for regulatory reporting. The identifier type must include a valid urn or http string prefix. Valid prefix formats include by namespace: - GS1: <code>urn:epc:id:sgln:[CompanyPrefix].[LocationReference].[Extension]</code> - GS1 USHC: <code>http://epcis.gs1us.org/hc/[identifierType]/loc/[identificationValue]</code> - TraceLink: <code>http://epcis.tracelink.com/hc/[identifierType]/loc/[identificationValue]</code> Only SGLN is supported.
							attribute(1)		1...1 0/*	String	Conditionally required if attribute(2) is populated. Looping name/value pairs identifying partner address master data elements. This is the value element in the name/value pair attribute @id. Stores master data item value defined by attribute @id. Partner master data items currently supported:¹ - Business name - Mandatory if address populated in VocabularyElement. - Business classification - Optional. - Street address 1 - Mandatory if address populated. - Street address 2 - Optional. - City - Mandatory if address populated. - District - Optional - Village – Optional. - House number – Optional. - Township – Optional. - Corporate Fax – Optional. - State/Province/Region - Mandatory if address populated. - Postal code - Optional. - Country code - Mandatory if address populated. - Premises code – Optional. - Tax registration code – Optional. Create one instance of the name/value pair attribute and attribute @id for each master data element returned.
							@id		1...1	String	Required. Provides the name in the name/value pair attribute @id . Identifies the master data value stored in the attribute value

¹Kendall Pharma

Data Element									Occurs Length	Type	Description
											1 - urn:epcglobal:cbv:mda#name - urn:epcglobal:cbv:mda#streetAddressOne - urn:epcglobal:cbv:mda#streetAddressTwo - urn:epcglobal:cbv:mda#streetAddressThree - urn:epcglobal:cbv:mda#city - http://epcis.tracelink.com/mda/district - http://epcis.tracelink.com/mda/village - http://epcis.tracelink.com/mda/houseNumber - http://epcis.tracelink.com/mda/township - http://epcis.tracelink.com/mda/corporateFax - urn:epcglobal:cbv:mda#state - urn:epcglobal:cbv:mda#postalCode - urn:epcglobal:cbv:mda#countryCode - http://epcis.tracelink.com/mda/AddressObjectGUID - http://epcis.tracelink.com/mda/HouseGUID - http://epcis.tracelink.com/mda/partyRoleCode - http://epcis.tracelink.com/mda/premisesCode - http://epcis.tracelink.com/mda/taxRegistrationCode
							attribute(2)	0...* 0/*		String	Conditionally required if attribute(1) is present. Looping name/value pairs identifying additional party identifier elements. This is the value element in the name/value pair attribute @id. Stores additional party identifiers and identifier types defined by @id.² Partner master data items currently supported: - Additional party identifier - Optional (one or more supported). - Additional party identifier type - Optional (one or more supported). Create one instance of the name/value pair attribute and attribute @id for each master data element returned.

¹urn:epcglobal:cbv:mda#name²10023141

Data Element										Occurs Length	Type	Description
												Additional party identifiers must be sent in a double attribute combination. The sequence must be: - Attribute 1 identifies and provides the party identifier value. - Attribute 2 identifies the party identifier type. For example: <code><attribute id="http://epcis.tracelink.com/mda/additionalPartyIdentificationValue">10023141</attribute></code> <code><attribute id="http://epcis.tracelink.com/mda/additionalPartyIdentificationTypeCode">DUNS_PLUS_FOUR</attribute></code> or <code><attribute id="http://epcis.tracelink.com/mda/additionalIdentifier">10023141</attribute></code> <code><attribute id="http://epcis.tracelink.com/mda/additionalIdentifierType">DUNS4</attribute></code>  If this sequence of double attributes is not followed for additional party identifiers, the additional party identifier will not be mapped to the TraceLink system and no error will be thrown.  Only one of the following values may be used per message: - RU_INN_FOREIGN_ENTITY - RU_INN_INDIV - RU_INN_LOCAL_ENTITY See the BusinessAndLocationId enumeration list for valid values.
								@id		1...1 0/*	String	Required. Provides the name in the name/value pair attribute @id. Identifies the master data value stored in the attribute value element, using urn or http prefix. Valid values:¹ <code>http://epcis.tracelink.com/mda/additionalPartyIdentificationValue</code> <code>http://epcis.tracelink.com/mda/additionalPartyIdentificationTypeCode</code>
EPCISBody										1...1 -	-	Required. Contains all of the EPCIS events for this message.

¹<http://epcis.tracelink.com/mda/additionalPartyIdentificationValue>

Data Element			Occurs Length	Type	Description
		EventList	1...1 -	-	Required. The EventList has the following structure: - ObjectEvent Commissioning (Optional - 0 or more for commissioning events). - AggregationEvent (Optional - 0 or more for aggregation events). - ObjectEvent Shipping (Mandatory - one for shipping event).  Order of events is not enforced by the schema.
		choice	1...1 -	-	Required. Only one of the following choice options may be selected in any one loop on EPCISBody EventList ObjectEvent OR EPCISBody EventList AggregationEvent .
		ObjectEvent	0...* -	-	Choice 1 for EventList. Data = ObjectEvent for the Commissioning Events. EventList = ObjectEvent Commissioning when all of the following are true: action = ADD bizStep = urn:epcglobal:cbv:bizstep:commissioning disposition = urn:epcglobal:cbv:disp:active
		eventTime	1...1 1/*	DateTime	Required. Timestamp of date/time when the event occurred. Includes a time zone indicator as specified in Section 9.5 of [EPCIS1.0.1]. ¹
		recordTime	0...1 0/*	DateTime	This field is not used.
		eventTimeZoneOffset	1...1 1/*	String	Required. Time zone offset in effect at the time and place where the event occurred, consistent with the choice made for eventTime . Per Section 7.2.8 of [EPCIS1.0.1]. ²
		epcList	1...1 -	-	Required. The EPCs of each item, case, and/or pallet commissioned.
		epc	1...* 1/*	String	Required. The EPC identifier in EPC Pure Identity URI format. See EPC Pure Identifier Format Examples . ³
		action	1...1 0/*	String	Required. The action value must equal ADD . ⁴

¹2016-10-01T22:08:02Z²-04:00³urn:epc:id:sgtin:088202.5503022.100000000670, urn:epc:id:sscc:088202.00200000034, http://epcis.tracelink.com/hc/cn-edmc/obj/88102321100002005943, urn:epc:id:sgtin:4150.001647778.100000000002⁴ADD

Data Element				Occurs Length	Type	Description
			bizStep	0...1 0/*	AnyURI	Required. The bizStep value must equal <code>urn:epcglobal:cbv:bizstep:commissioning</code> . ¹
			disposition	0...1 0/*	AnyURI	Required. The disposition value must equal <code>urn:epcglobal:cbv:disp:active</code> . ²
			readPoint	0...1 -	-	Read point is optional in commissioning event.
			id	1...1 0/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ³
			extension	0...1 -	-	This field is not used - GS1 Reserved.
			bizLocation	1...1 -	-	Required. Business location is required in commissioning event.
			id	1...1 1/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ⁴
			bizTransactionList	0...1 -	-	This field is not used.
			extension	0...1 -	-	Main extension body for commission event.
			ilmd	0...1 -	-	Instance lot master data specific to product being commissioned.
			cbvmdata:lotNumber	0...1 0/*	String	The lot or batch code for the serialized item in an alphanumeric string of up to 20 characters. ⁵
			cbvmdata:itemExpirationDate	0...1 0/*	Date	The expiration date for the serialized item in YYYY-MM-DD format. ⁶

¹urn:epcglobal:cbv:bizstep:commissioning²urn:epcglobal:cbv:disp:active³urn:epc:id:sgln:0614141.12345.RP1⁴urn:epc:id:sgln:0614141.12345.1400⁵ABC123⁶2017-12-31

Data Element						Occurs Length	Type	Description
					tl:commissionEventExtensions	0...1 -	-	Extensions used for Commission ObjectEvent. The following items can be sent in the master data header extensions: • tl:packagingLevel • tl:internalMaterialCode • tl:packagingItemCode • tl:packagingItemCode @type • tl:countryDrugCode • tl:countryDrugCode @type Note: Full GS1 conformance requires all master data be stored in the header extension EPCISMasterData VocabularyList. While master data can be sent from the commissioning event extensions, it is strongly urged that all product master data items for the commissioning event be sent in the header extensions elements.
					tl:filterValue	0...1 -	Integer	tl:filterValue is used only if it is mandatory by a trade partner to convert SSCC to GS1 HEX or Tag URI format. See the FilterValue enumeration list for valid values.
					tl:packagingLevel	0...1 0/*	String	The packaging level of the commissioned item using the supported enumeration values.¹ Note: To be GS1 EPCIS-conformant, send this value in the VocabularyElement master data, unless current item has an SSCC code with associated product master data (i.e. a homogenous pallet). See the PackagingLevel enumeration list for valid values.
					tl:epcAttributes	0...* -	-	Supports optional inclusion of human readable barcode content associated with each epc number in a commission event. Included only if provided in original commission event.
					@epc	1...1 1/*	String	Conditionally required. The EPC serial number to which the barcodeContent is associated. The epc must be an EPC Pure Identity URI as specified in Section 6 of [TDS1.5].² • Case: SGTIN or SSCC • Item: SGTIN • Pallet: SSCC

¹EA²urn:epc:id:sgtin:068202.0401034.11220207026272

Data Element							Occurs Length	Type	Description
						tl:barcodeContent	1...1 1/*	String	Required. The human readable barcode contents encoded in the 2D barcode with parentheses for the AI keys. ¹
						tl:plantLocationId	0...1 0/*	String	Identifier of plant where products were commissioned. ²
						tl:productionLineId	0...1 1/*	String	Identifier of production line where products were commissioned. ³
						tl:lineManagerName	0...1 0/*	String	Name of the person responsible as the production line manager for the commissioned products. ⁴
						tl:companyPrefix	0...1 0/*	String	This field not used.
						tl:internalMaterialCode	0...1 0/*	String	Internal material number for the product in the Pharmaceutical Manufacturer's internal systems (e.g. ERP). ⁵ <i>i</i> See the following additional information: - To be GS1 EPCIS-conformant, send this value in the VocabularyElement master data, unless current item has an SSCC code with associated product master data. - The message may include either tl:internalMaterialCode or tl:countryDrugCode, but all packaging levels must be consistent.
						tl:packagingItemCode	0...1 0/*	String	The product code for the commissioned item (e.g. GTIN-14). ⁶
						@type	1...1 1/*	String	Required. The product code type using the supported enumeration values. ⁷ See the ItemCode enumeration list for valid values.
						tl:countryDrugCode	0...1	String	The national drug code for the commissioned item (e.g. NDC number for US products). ⁸

¹(01)50682020401034(21)11220207026272(17)170731(10)A312101(7004)0120

²0614141.12345.1400

³PW003

⁴John Smith

⁵100234

⁶50300694220667

⁷GTIN-14

⁸0069-4220-66

Data Element							Occurs Length	Type	Description
									See the following additional information: - To be GS1 EPCIS-conformant, send this value in the VocabularyElement master data, unless current item has an SSCC code with associated product master data. - The message may include either tl:internalMaterialCode or tl:countryDrugCode, but all packaging levels must be consistent.
						@type	0...1 0/*	String	The national drug code type using the supported enumeration values and any formatting instructions provided.¹ See the CountryDrugCode enumeration list for valid values.
						tl:manufacturingDate	0...1 0/10	Date	The date of manufacture for the serialized item, in YYYY-MM-DD format. ²
						tl:countryMarket	0...1 0/3	Date	ISO country code for target country market for which the product was manufactured. Used for triggering production notifications associated with a produced batch. If batch is multi-market, then production notification will be triggered at time of shipment and this field would not be populated.³ See the ISOCountryCode enumeration list for valid values.
						tl:referenceDocuments	0...1 -	-	Reference document identifier associated with the commissioning activity.
						tl:poNumber	0...1 0/*	String	PO Number associated with serial number use. ⁴
						tl:poLine	0...1 0/*	String	PO Line number. ⁵
						tl:workOrderNumber	0...1	String	Work Order number associated with serial number use. ⁶

¹FDA_NDC_11²2016-12-18³IN⁴1001764⁵001⁶1001764-00

Data Element									Occurs Length	Type	Description
								tl:referenceIdentifier	0...1 0/*	String	Reference identifier (e.g. any type of identifier) associated with serial number use. ¹
								tl:extensionField	0...* -	-	One or more name/value pairs that contain additional data attributes not already supported in this message. When this attribute is populated, both the tl:fieldName and tl:fieldValue elements must be populated. i These extensions are not stored by TraceLink and are only used for outbound mapping purposes when there is a requirement to provide additional data to a trade partner for this transaction (e.g. when a CMO is required to provide additional data fields to the brand owner). Different trade partners may have different field requirements and may require that the ExtensionField be populated differently per trade partner.
								tl:fieldName	1...1 1/*	String	Field name provided by the trade partner that will receive the outbound message.² i The field name must match the field name provided by the trade partner exactly, including case, so that it can be properly detected in the outbound mapping.
								tl:fieldValue	1...1 1/*	String	Field value that corresponds to the tl:fieldName . ³
								tl:locationId	0...1 0/*	String	Location to associate the Transaction Histories when they are created.
								@type	0...1 0/*	String	Attribute that identifies the location types. See the LocationIdType enumeration list for valid values.
								AggregationEvent	0...* -	-	AggregationEvent is option 2 for the EventList choice for the Aggregation events. EventList = AggregationEvent when all of the following are true: action = ADD bizStep = urn:epcglobal:cbv:bizstep:packing disposition = urn:epcglobal:cbv:disp:in_progress

¹A100352²NDC_CODE³12345678901

Data Element				Occurs Length	Type	Description
			eventTime	1...1 1/*	DateTime	Required. Timestamp of date/time when the event occurred. Must include a time zone indicator as specified in Section 9.5 of [EPCIS1.0.1]. ¹
			recordTime	0...1 0/*	DateTime	Not used.
			eventTimeZoneOffset	1...1 1/*	String	Required. Time zone offset in effect at the time and place where the event occurred, consistent with what choice was made for eventTime . Per Section 7.2.8 of [EPCIS1.0.1]. ²
			parentID	1...1 1/*	AnyURI	Required. An Identifier of the parent container in EPC Pure Identity URI format (e.g. for an item-to-case aggregation, the EPC is of the case; for a case-to-pallet aggregation, the EPC is of the pallet). See EPC Pure Identifier Format Examples . ³
			childEPCs	1...1 -	-	Required. A list of identifiers of the child items in the parent container in EPC Pure Identity URI format (e.g. for an item-to-case aggregation, the EPCs are of the items; for a case-to-pallet aggregation, the EPCs is of the cases).
			epc	1...* 1/*	String	Required. The identifier of the child items in the parent container in EPC Pure Identity URI format. See EPC Pure Identifier Format Examples . ⁴
			action	1...1 1/*	String	Required. The action value must equal ADD for the aggregation event. ⁵
			bizStep	0...1 0/*	AnyURI	The bizStep value must equal urn:epcglobal:cbv:bizstep:packing . ⁶
			disposition	0...1 0/*	AnyURI	The disposition value must equal urn:epcglobal:cbv:disp:in_progress . ⁷
			readPoint	0...1 -	-	Optional for Aggregation Event.
			id	1...1 0/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ⁸

¹2016-10-01T22:10:02Z²-04:00³urn:epc:id:sgtin:088202.5503022.100000000670, urn:epc:id:sscc:088202.002000000034, http://epcis.tracelink.com/hc/cn-edmc/obj/88102321100002005943, urn:epc:id:sgtin:4150.001647778.100000000002⁴urn:epc:id:sgtin:088202.5503022.100000000670, urn:epc:id:sscc:088202.002000000034, http://epcis.tracelink.com/hc/cn-edmc/obj/88102321100002005943, urn:epc:id:sgtin:415001647778.0.100000000002⁵ADD⁶urn:epcglobal:cbv:bizstep:packing⁷urn:epcglobal:cbv:disp:in_progress⁸urn:epc:id:sgln:1100001.12345.0

Data Element					Occurs Length	Type	Description
				extension	0...1 -	-	Not used - GS1 Reserved.
				bizLocation	1...1 -	-	Required. Mandatory for aggregation event.
				id	1...1 0/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ¹
				bizTransactionList	0...1 -	-	Not used.
				tl:aggregationEventExtensions	0...1 -	-	Extensions used for Aggregation Event
				tl:packedStatus	0...1 0/*	String	The packout of the item or container using the supported enumeration values. ² See the PackedStatus enumeration list for valid values.
				tl:quantity	0...1 -	Integer	The quantity of child serial numbers aggregated to the parent container in this aggregation. ³
				tl:resetContainerAggregation	0...1 -	Boolean	Reset container aggregation flag. ⁴
				tl:epcOrderItemDetails	0...1 -	-	Group header for epcOrderItemDetails with a specific link between tl:orderItem tl:orderItemNumber in the receiving event and the epc serial number.
				tl:epcOrderItemList	1...* -	-	Subgroup header.
				@orderItemNumber	0...1 -	String	Order item number attribute associating specific serial numbers with the price, VAT, and cost taxes reported in a specific instance of tl:orderItem , in EPC Pure Identity URI format.
				tl:epcOrderItem	1...* -	String	Serial numbers associated with the pricing and tax information in the current instance of the ItemOrder .
				tl:extensionField	0...*	-	One or more name/value pairs that contain additional data attributes not already supported in this transaction.

¹urn:epc:id:sgln:1100001.12345.0²FULL³48⁴false

Data Element					Occurs Length	Type	Description
							When populating this element, both the tl:fieldName and tl:fieldValue elements must be populated. <i>i</i> These extensions are not stored by TraceLink and are only used for outbound mapping purposes when there is a requirement to provide additional data to a trade partner for this transaction (e.g. when a CMO is required to provide additional data fields to the brand owner). Different trade partners may have different field requirements and may require that the ExtensionField be populated differently per trade partner.
				tl:fieldName	1...1 1/*	String	Field name provided by the trade partner that will receive the outbound message. ¹ <i>i</i> The field name must match the field name provided by the trade partner exactly, including case so that it can be properly detected in the outbound mapping.
				tl:fieldValue	1...1 1/*	String	Field value that corresponds to the tl:fieldName . ²
			ObjectEvent		1...1 -	-	Required. EventList. Data = ObjectEvent for Shipping events. EventList = ObjectEvent Shipping when all of the following are true: action = OBSERVE bizStep = urn:epcglobal:cbv:bizstep:shipping disposition = urn:epcglobal:cbv:disp:in_transit
			eventTime		1...1 1/*	DateTime	Required. Timestamp of date/time when the event occurred. Must include a time zone indicator as specified in Section 9.5 of [EPCIS1.0.1]. ³
			eventTimeZoneOffset		1...1 1/*	String	Required. Time zone offset in effect at the time and place where the event occurred, consistent with what choice was made for eventTime . Per Section 7.2.8 of [EPCIS1.0.1]. ⁴
			epcList		1...1 -	-	Required. List of the EPCs of top most containers (e.g. pallets, cases) in the shipment.
				epc	1...* 1/*	String	Required. The EPC identifier in EPC Pure Identity URI format. See EPC Pure Identifier Format Examples .

¹NDC_CODE²12345678901³2016-10-01T22:08:02Z⁴-04:00

Data Element				Occurs Length	Type	Description
			action	1...1 0/*	String	Required. The action value must equal OBSERVE . ¹
			bizStep	0...1 0/*	AnyURI	Required. The bizStep value must equal urn:epcglobal:cbv:bizstep:shipping . ²
			disposition	0...1 0/*	AnyURI	Required. The disposition value must equal urn:epcglobal:cbv:disp:in_transit . ³
			readPoint	0...1 -	-	Required. The location where the event occurred, i.e. the warehouse GLN location ID and storage location (e.g. shelf, bin) in URN format, that recorded the ObjectEvent .
			id	1...1 0/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ⁴
			extension	0...1 -	-	Not used - GS1 Reserved
			bizLocation	0...1 -	-	Not used.
			id	1...1 1/*	AnyURI	Required. Not used. ⁵
			extension	0...1 -	-	Not used - GS1 Reserved.
			bizTransactionList	0...1 -	-	Conditionally required if bizStep = urn:epcglobal:cbv:bizstep:shipping . A list of the business transaction identifiers.
			bizTransaction	1...* -	AnyURI	Required. The business transaction identifiers for the Dispatch Advice (Advance Ship Notice) and/or invoice and/or purchase order governing this shipment, which are subject to Section 8.4.2 of (CBV1.0). The GLN that occurs after urn:epcglobal:cbv:bt: is the GLN of the party that issued the number (e.g. if customer issues PO Number, customer GLN is entered. If supplier issues ASN/delivery number supplier GLN is entered). ⁶

¹OBSERVE²urn:epcglobal:cbv:bizstep:shipping³urn:epcglobal:cbv:disp:in_transit⁴urn:epc:id:sgln:0614141.12345.RP1⁵urn:epc:id:sgln:0614141.12345.1400⁶urn:epcglobal:cbv:bt:0614141000029:9847856

Data Element					Occurs Length	Type	Description
							 A delivery number or ASN is mandatory, all other transaction types are optional. The transaction number requirements vary by region. It is recommended that the following are always provided, when available, to fulfill compliance needs: • Purchase Order Number • Invoice Number • ASN
				@type	1...1 1/*	String	Required. The transaction identifier type using the supported enumeration values (e.g. PO, ASN, RETURN). ¹ A delivery number or ASN is mandatory, all other transaction types are optional. See the TransactionId enumeration list for valid values.
				@date	0...1 0/*	Date	Required. The transaction identifier date. ²
			extension		0...1 -	-	Main extension body for shipping event.  Source and Destination lists are optional even if party address master data is not stored in the VocabularyElement in the EPCISMasterData extension in the message header.
			sourceList		0...1 -	-	Required. Sending business, location, and carrier parties. sourceList supports one of two functions: 1. VocabularyElement populated with party address master data; sourceList identifies sold-from, ship-from, or carrier party. Party master data mapped from VocabularyElement. 2. VocabularyElement NOT populated with party address master data; sourceList party identifiers used for master data lookup in backend.
			source		1...* 0/*	String	Required. Source party identifier for sold-from, ship-from, or carrier parties. Party identifier in source either: ³ 1. Identifies sold-from, ship-from, or carrier party in populated VocabularyElement. Party address info mapped from VocabularyElement. Nothing is mapped from VocabularyElement if there is no match between party

¹urn:epcglobal:cbv:bt:desadv²2019-03-30³urn:epc:id:sgln:088202.867701.0

Data Element						Occurs Length	Type	Description
								identifier in sourceList source and VocabularyElement @id. 2. sourceList source supports master data lookup in TraceLink system. VocabularyElement is NOT populated or there is NO match between party identifiers in source and VocabularyElement @id.  If ship-from party the same as sold-from party, ship-from identifier does not need to be included. See the MDPartyTypeAttributes enumeration list for valid values.
					@type	1...1 0/*	String	Required. Type of source party identifier [i.e. owning (sold-from), location (ship-from), or carrier party.] Valid values:¹ - Sold-from party = <code>urn:epcglobal:cbv:sdt:owning_party</code> (mandatory). - Ship-from party = <code>urn:epcglobal:cbv:sdt:location</code> (only include if identifier different from owning_party).
				destinationList		0...1 -	-	Required. Identifies receiving business or location parties identified in header extensions level. destinationList supports one of two functions: VocabularyElement populated with party address master data; destinationList identifies sold-to, ship-to parties. Party master data mapped from VocabularyElement. VocabularyElement NOT populated with party address master data: destinationList party identifiers used for master data lookup in backend.
					destination	1...* 0/*	String	Required. Destination party identifier for sold-to and ship-to parties. Party identifier in destination either:² - Identifies sold-to or ship-to parties in populated VocabularyElement. Party address info mapped from VocabularyElement. Nothing is mapped from VocabularyElement if there is no match between party identifier in destinationList destination and VocabularyElement @id. - destinationList destination supports master data lookup in TraceLink system. VocabularyElement is NOT populated or there is NO match between party identifiers in destination and VocabularyElement @id.  If ship-to party the same as sold-to party, ship-to identifier does not need to be included. See the MDPartyTypeAttributes enumeration list for valid values.

¹urn:epcglobal:cbv:sdt:owning_party²urn:epc:id:sgln:033333.101365.0

Data Element							Occurs Length	Type	Description
						@type	1...1 0/*	String	Required. Identifies type of destination party identifier, i.e. owning (sold-to) or location (ship-to) party. Valid values: ¹ - Sold-to party = <code>urn:epcglobal:cbv:sdt:owning_party</code> (mandatory). - Ship-to party = <code>urn:epcglobal:cbv:sdt:location</code> (only include if identifier different from owning_party).
					tl:shippingEventExtensions		0...1 -	-	Conditionally required if Shipping Event is populated. Extensions used for Shipping Event.
					tl:transactionDate		1...1 -	Date	Required. Date associated with the business transaction document in bizTransactionList in YYYY-MM-DD format. This date may or may not be the same as the eventTime . ²
					tl:shipToCountryCode		1...1 2/2	String	Required. 2 or 3 letter ISO country code for ship to country. This value is referenced to advise regulatory reporting if it is required for the specified country market. ³ Setting this value alone does not trigger regulatory reporting. Actual triggering of regulatory reporting is governed by customer administrative configuration in the TraceLink application.
					tl:shipFromCountryCode		0...1 2/2	String	Conditionally required if tl:salesDistributionType = EXPORTSALE , EXPORTTRANSFER , or EXPORTRETURN . 2 or 3 letter ISO country code for ship from country. This value will be referenced to advise regulatory reporting if it is required for the specified country market. ⁴ Setting this value alone does not trigger regulatory reporting. Actual triggering of regulatory reporting is governed by customer administrative configuration in the TraceLink application.
					tl:salesDistributionType		1...1 1/*	String	Required. To set this value, compare the ship from country with the ship to country. ⁵ INCOUNTRYSALE: If ship from country = ship to country (indicates a sale within the same country). EXPORTSALE: If ship from country <> ship to country (indicates a sale that is an export to another country). INCOUNTRYTRANSFER: A transfer within a company or with a partner such as 3PL or contract manufacturer/packager, occurring within the same country. EXPORTTRANSFER: A transfer within a company or with a partner such as 3PL or contract manufacturer/packager, made from one country to another. INCOUNTRYRETURN: A shipment for a return of goods to the supplier, shipped within the same country. EXPORTRETURN: A shipment for a return of goods to the supplier, shipped from one country to another. The EXPORT value is not used. This value will be referenced to advise regulatory reporting of exportation, if it is mandatory for

¹urn:epcglobal:cbv:sdt:owning_party²2016-09-30³US⁴US⁵INCOUNTRYSALE

Data Element					Occurs Length	Type	Description
							the specified country market. Setting this value alone does not trigger regulatory reporting. Actual triggering of regulatory reporting is governed by customer administrative configuration in the TraceLink application. See the SalesDistType enumeration list for valid values.
				tl:supplyType	0...1 0/*	String	The type of supply that is being performed using a valid value from the enumerations list. See the SupplyType enumeration list for valid values.
				tl:contractType	0...1 0/*	String	Identifies the type of contract for the sale of goods using a valid value from the enumerations list. See the ContractType enumeration list for valid values.
				tl:dropShipmentIndicator	0...10/*	Boolean	Indicates if shipment is a drop shipment. ¹
				tl:comments	0...1 0/*	String	Optional remarks or comments associated with delivery.
				tl:warehouseOperatorName	0...1 0/*	String	Name of the person responsible for warehouse operations. ²
				tl:correctiveShipment	0...1 0/*	Boolean	Corrective shipment flag is set when shipment is used to replace a previously voided shipment. ³
				tl:originalDeliveryNumber	0...1 0/*	String	Used to identify previous delivery that was voided and is being replaced by current delivery. ⁴  Populated only if tl:correctiveShipment = true .
				tl:contractNumber	0...1 0/*	String	Identification number of the contract. ⁵
				tl:fundingSource	0...1 0/*	String	Required. Source of the funding. ⁶ See the FundingSource enumeration list for valid values.
				tl:entryPort	0...1 0/*	String	Name of the shipment's port of entry into a country (e.g. an airport, maritime port, border checkpoint).

¹false²John Smith³true⁴H9022413⁵1234567⁶FederalBudgetFunds

Data Element					Occurs Length	Type	Description
				tl:exitPort	0...1 0/*	String	Name of the shipment's port of exit from a country (e.g. an airport, maritime port, border checkpoint).
				tl:deliveryInspection	0...1 0/*	String	The inspection status of the physical delivery against the delivery documentation. See the DeliveryInspection enumeration list for valid values.
				tl:deliveryInspectionDate	0...1 10/10	Date	The date of the physical delivery inspection against the delivery documentation in YYYY-MM-DD format. ¹
				tl:deliveryInspectionNote	0...1 0/*	String	Comments about the physical delivery inspection against the delivery documentation.
				tl:removalFromCirculation	0...1 0/*	String	Reason the product in the delivery is taken out of the supply chain. See the RemovalFromCirculation enumeration list for valid values.
				tl:aggregationInspection	0...1 0/*	String	The inspection status of the aggregation hierarchy of the container. See the AggregationInspection enumeration list for valid values.
				tl:epcOrderItemDetails	0...1 -	-	Group header with specific link between the aggregation event epc and @orderItemNumber .
				tl:epcOrderItemList	1...* -	-	Required. Subgroup header.
				@orderItemNumber	0...1 0/*	String	Order item number attribute associating specific serial numbers with the price, VAT, and cost taxes reported in a specific instance of tl:orderItem .
				tl:epcOrderItem	1...* 1/*	String	Required. Serial numbers associated with the pricing and tax information in the current instance of tl:orderItem .
				tl:orderItemList	0...1 -	-	Order item list group is populated to communicate the pick quantities for each item code at the EACH (unit) level.
				tl:orderItem	1...* -	-	Required. A repeating element that captures the item code, lot number, and quantity for each item in the order. Each unique item code and lot number are communicated in a separate order item group.
				tl:orderItemNumber	0...1 0/*	String	Order item number attribute associating specific serial numbers with the price, VAT, and cost taxes reported in a specific instance of tl:orderItem .
				choice%1	-	-	Populate only one of tl:InternalMaterialCode or tl:PackagingItemCode .

¹2021-12-21

Data Element								Occurs Length	Type	Description
							tl:internalMaterialCode	0...1 1/*	String	Conditionally required if tl:packagingItemCode is not populated. Option 1 for choice%1 in OrderItem . Use to identify the product using the internal material number configured in Product Master Data. ¹
							tl:packagingItemCode	0...1 0/*	String	Conditionally required if tl:internalMaterialCode is not populated. Option 2 for choice%1 in OrderItem . Use to identify the product using the packaging level item code (e.g. GTIN-14) configured in Product Master Data. ²
							@type	0...1 0/*	String	Required. The product code type for the packaging item code using the supported enumeration values (e.g. GTIN-14). See the ItemCode enumeration list for valid values.
							cbvmdata:lotNumber	0...1 0/*	String	The lot or batch code for the items to be picked (if available) in an alphanumeric string. ³
							cbvmdata:itemExpirationDate	0...1 1/*	Date	The expiration date for the serialized item, in YYYY-MM-DD format.
							tl:quantity	1...1 0/*	Integer	The quantity of items at the EACH (unit) level of the item code and lot if specified to be picked. ⁴
							tl:unitPrice	0...1 0/*	Decimal	Unit price of item. ⁵
							@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ⁶
							tl:vat	0...1 -	Decimal	Value Added Tax per unit. ⁷
							@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ⁸ See the ISOCurrency enumeration list for valid values.
							tl:grossPrice	0...1 -	Decimal	Gross price including unit price and all taxes and fees.

¹100234²00882025030223³A12345⁴50⁵35.67⁶USD⁷152.22⁸USD

Data Element								Occurs Length	Type	Description
							@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ¹ See the ISOCurrency enumeration list for valid values.
							tl:isSerialized	0...1 0/*	Boolean	Indicates if item is not serialized. If omitted, defaults value to <code>true</code> . ²
							tl:transactionIdentifier	0...* 0/*	String	Transaction identifier at the line-item level of shipment. More than one transaction identifier may be present. ³
							@type	1...1 1/*	String	Required. The transaction identifier type. Valid values: • <code>DESTRUCTION</code> • <code>INVOICE</code> • <code>NOTAFISCAL</code> • <code>OTHER</code> • <code>PO</code> • <code>RETURN</code>
							@date	0...1 0/*	Date	The transaction identifier date. ⁴

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<epcis:EPCISDocument xmlns:cbvmmda="urn:epcglobal:cbv:mda" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:tl="http://epcis.tracelink.com/ns"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader" schemaVersion="1.2"
creationDate="2017-08-31T17:45:20.0Z">
```

¹USD²true³PO303005⁴2019-03-30

```

<EPCISHeader>
  <sbdh:StandardBusinessDocumentHeader>
    <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
    <sbdh:Sender>
      <sbdh:Identifier Authority="GLN">8779891013658</sbdh:Identifier>
    </sbdh:Sender>
    <sbdh:Receiver>
      <sbdh:Identifier Authority="GLN">1223331013844</sbdh:Identifier>
    </sbdh:Receiver>
    <sbdh:DocumentIdentification>
      <sbdh:Standard>EPCglobal</sbdh:Standard>
      <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
      <sbdh:InstanceIdentifier>201907251</sbdh:InstanceIdentifier>
      <sbdh:Type>Events</sbdh:Type>
      <sbdh:CreationDateAndTime>2019-01-09T19:12:53</sbdh:CreationDateAndTime>
    </sbdh:DocumentIdentification>
  </sbdh:StandardBusinessDocumentHeader>
  <extension>
    <EPCISMasterData>
      <VocabularyList>
        <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
          <VocabularyElementList>
            <VocabularyElement id="urn:epc:idpat:sgtin:068202.0401034.*">
              <attribute id="http://epcis.tracelink.com/mda/packageTypeCode">CS</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">133661</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">MANUFACTURER_PART_NUMBER</attribute>
              <attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">50122-
0755-67</attribute>
              <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</attribute>
            </VocabularyElement>
          </VocabularyElementList>
        </Vocabulary>
        <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
          <VocabularyElementList>
            <!-- SourceList owning_party (sold from business party) -->
            <VocabularyElement id="urn:epc:id:sgln:088202.867701.0">
              <attribute id="urn:epcglobal:cbv:mda#name">Clara Manufacturing</attribute>

```

```

        <attribute
id="http://epcis.tracelink.com/mda/additionalPartyIdentificationValue">712333444</attribute>
        <attribute
id="http://epcis.tracelink.com/mda/additionalPartyIdentificationTypeCode">DEA</attribute>
        <attribute
id="http://epcis.tracelink.com/mda/businessClassification">MANUFACTURER</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">10 Welsh St</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">Malden</attribute>
        <attribute id="http://epcis.tracelink.com/mda/district"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/village"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/houseNumber"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/township"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/corporateFax"></attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">MA</attribute>
        <attribute id="urn:epcglobal:cbv:mda#postalCode">02148</attribute>
        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        <attribute id="http://epcis.tracelink.com/mda/AddressObjectGUID"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/HouseGUID"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/partyRoleCode"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/premisesCode"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/taxRegistrationCode"></attribute>
    </VocabularyElement>
    <!-- SourceList location (ship from location) -->
    <VocabularyElement id="urn:epc:id:sgln:088202.867702.0">
        <attribute id="urn:epcglobal:cbv:mda#name">Clara Manufacturing</attribute>
        <attribute
id="http://epcis.tracelink.com/mda/additionalPartyIdentificationValue">712333444</attribute>
        <attribute
id="http://epcis.tracelink.com/mda/additionalPartyIdentificationTypeCode">DEA</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">10 Welsh St</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">Malden</attribute>
        <attribute id="http://epcis.tracelink.com/mda/district"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/village"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/houseNumber"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/township"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/corporateFax"></attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">MA</attribute>
        <attribute id="urn:epcglobal:cbv:mda#postalCode">02148</attribute>
        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        <attribute id="http://epcis.tracelink.com/mda/AddressObjectGUID"></attribute>

```

```

        <attribute id="http://epcis.tracelink.com/mda/HouseGUID"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/partyRoleCode"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/premisesCode"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/taxRegistrationCode"></attribute>
    </VocabularyElement>
    <!-- DestinationList owning_party (sold to business party) -->
    <VocabularyElement id="urn:epc:id:sgln:033333.101365.0">
        <attribute id="urn:epcglobal:cbv:mda#name">Grondin Pharmacy</attribute>
        <attribute
id="http://epcis.tracelink.com/mda/additionalPartyIdentificationValue">P1223330</attribute>
        <attribute
id="http://epcis.tracelink.com/mda/additionalPartyIdentificationTypeCode">HIN</attribute>
        <attribute id="http://epcis.tracelink.com/mda/partyRoleCode">PHARMACY</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">100 Main Street</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">Porsmouth</attribute>
        <attribute id="http://epcis.tracelink.com/mda/district"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/village"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/houseNumber"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/township"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/corporateFax"></attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">NH</attribute>
        <attribute id="urn:epcglobal:cbv:mda#postalCode">03801</attribute>
        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        <attribute id="http://epcis.tracelink.com/mda/AddressObjectGUID"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/HouseGUID"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/partyRoleCode"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/premisesCode"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/taxRegistrationCode"></attribute>
    </VocabularyElement>
    <!-- DestinationList location (ship to location) -->
    <VocabularyElement id="http://epcis.gs1us.org/hc/dea/loc/12345678">
        <attribute id="urn:epcglobal:cbv:mda#name">Grondin Pharmacy</attribute>
        <attribute
id="http://epcis.tracelink.com/mda/additionalPartyIdentificationValue">122333</attribute>
        <attribute
id="http://epcis.tracelink.com/mda/additionalPartyIdentificationTypeCode">COMPANYSITEID</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">100 Main Street</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">Porsmouth</attribute>
        <attribute id="http://epcis.tracelink.com/mda/district"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/village"></attribute>

```



```

    <attribute id="http://epcis.tracelink.com/mda/houseNumber"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/township"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/corporateFax"></attribute>
    <attribute id="urn:epcglobal:cbv:mda#state">NH</attribute>
    <attribute id="urn:epcglobal:cbv:mda#postalCode">03801</attribute>
    <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    <attribute id="http://epcis.tracelink.com/mda/AddressObjectGUID"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/HouseGUID"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/partyRoleCode"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/premisesCode"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/taxRegistrationCode"></attribute>
  </VocabularyElement>
  <!-- SourceList loation (carrier party) -->
  <VocabularyElement id="urn:epc:id:sgln:064202.867703.0">
    <attribute id="urn:epcglobal:cbv:mda#name">FED EX</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">180 Fedex Road</attribute>
    <attribute id="urn:epcglobal:cbv:mda#city">Atlanta</attribute>
    <attribute id="http://epcis.tracelink.com/mda/district"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/village"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/houseNumber"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/township"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/corporateFax"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/district">456</attribute>
    <attribute id="urn:epcglobal:cbv:mda#state">GA</attribute>
    <attribute id="urn:epcglobal:cbv:mda#postalCode">31305</attribute>
    <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    <attribute id="http://epcis.tracelink.com/mda/AddressObjectGUID"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/HouseGUID"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/partyRoleCode"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/premisesCode"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/taxRegistrationCode"></attribute>
  </VocabularyElement>
</VocabularyElementList>
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</extension>
</EPCISHeader>
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  </epcList>
  <action>ADD</action>
  <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
  <disposition>urn:epcglobal:cbv:disp:active</disposition>
  <bizLocation>
    <id>urn:epc:id:sgln:9997777.01994.0</id>
  </bizLocation>
  <extension>
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      <cbvmdata:itemExpirationDate>2029-01-20</cbvmdata:itemExpirationDate>
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        <tl:manufacturingDate>2019-07-25</tl:manufacturingDate>
      </tl:commissionEventExtensions>
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  </bizLocation>
  <extension>
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        <tl:manufacturingDate>2019-07-25</tl:manufacturingDate>
      </tl:commissionEventExtensions>
    </ilmd>
  </extension>
</ObjectEvent>

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        </tl:commissionEventExtensions>
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</extension>
</ObjectEvent>
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    <childEPCs>
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        <epc>urn:epc:id:sgtin:068202.0401034.11220207026273</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <bizLocation>
        <id>urn:epc:id:sgln:9997777.01994.0</id>
    </bizLocation>
</AggregationEvent>
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<ObjectEvent>
    <eventTime>2019-07-25T21:39:27.8Z</eventTime>
    <eventTimeZoneOffset/>
    <epcList>
        <epc>urn:epc:id:sscc:005434.40000000021</epc>
    </epcList>
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_transit</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:9997777.01994.0</id>
    </readPoint>
    <bizTransactionList>
        <bizTransaction type="urn:epcglobal:cbv:btt:po" date="2019-07-
25">urn:epcglobal:cbv:bt:0333331013655:45006290016</bizTransaction>
        <bizTransaction type="urn:epcglobal:cbv:btt:desadv" date="2019-07-
25">urn:epcglobal:cbv:bt:0882028677019:H9022413</bizTransaction>
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        <source type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:9997777.01994.0</source>
        <source type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:9997777.01994.0</source>
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type="urn:epcglobal:cbv:sdt:location">urn:epc:id:sgln:1223331.01384.0</destination>
    </destinationList>
</extension>
<tl:shippingEventExtensions>
    <tl:transactionDate>2019-07-25</tl:transactionDate>
    <tl:shipToCountryCode>US</tl:shipToCountryCode>
    <tl:salesDistributionType>INCOUNTRYSALE</tl:salesDistributionType>
    <tl:supplyType>MedicalCareDistribution</tl:supplyType>
    <tl:contractType>CompetitiveBid</tl:contractType>
    <tl:dropShipmentIndicator>false</tl:dropShipmentIndicator>
    <tl:comments>Special shipment handling</tl:comments>
    <tl:contractNumber>C008</tl:contractNumber>
    <tl:fundingSource>OwnFunds</tl:fundingSource>
    <tl:entryPort></tl:entryPort>
    <tl:exitPort></tl:exitPort>
    <tl:epcOrderItemDetails>
        <tl:epcOrderItemList orderItemNumber="807">
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    </tl:epcOrderItemDetails>
    <tl:orderItemList>
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            <tl:packagingItemCode type="GTIN-14">00882025503022</tl:packagingItemCode>
            <cbvm:mda:itemExpirationDate>2029-07-25</cbvm:mda:itemExpirationDate>
            <tl:quantity>5</tl:quantity>
            <tl:unitPrice currencyCode="USD">100.00</tl:unitPrice>
            <tl:vat currencyCode="USD">50.00</tl:vat>
            <tl:grossPrice currencyCode="USD">150.00</tl:grossPrice>
            <tl:transactionIdentifier type="PO" date="2019-09-25">PO90</tl:transactionIdentifier>
        </tl:orderItem>
    </tl:orderItemList>

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        </tl:orderItemList>
    </tl:shippingEventExtensions>
</ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

Errors

Data Element	Error Message	Description
Class 1		
AggregationEvent parentID	Invalid EPC format !!!	The error occurs if the serial number cannot be translated to GS1 Application Identifier format.
	Invalid EPC format !!!	The error occurs if the source has unrecognized content.
@Authority	Valid Receiver/Identifier Authority is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Valid Sender/Identifier Authority is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
bizLocation id	Event location in the aggregation event is required !!!	The error occurs if the source is empty or null.
	Event location in the commissioning event is required !!!	The error occurs if the source is empty or null.
bizStep	bizStep urn:epcglobal:cbv:bizstep:shipping is required for ObjectEvent shipping !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:shipping".
	bizStep urn:epcglobal:cbv:bizstep:packing is required for the AggregationEvent !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:packing".
	bizStep urn:epcglobal:cbv:bizstep:commissioning is required for ObjectEvent commissioning !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:commissioning".
bizTransaction @type	Valid bizTransaction type is required if bizTransaction is populated !!!	The error occurs if cmn:BizTransaction is populated, but the source is empty or null.
bizTransactionList	Biz transaction list is required in shipping event !!!	The error occurs if the source is empty or null.
cbvmdata:itemExpirationDate	Expiration date is required !!!	The error occurs if the source is empty or null. Required for GTIN and NTIN.

Data Element	Error Message	Description
cbvmdata:lotNumber	Lot number is required !!!	The error occurs if the source is empty or null. Required for GTIN and NTIN.
destination	Valid sold-to business lookup identifier type is required !!!	The error occurs if the source is empty or null.
	Ship-to party identifier must match an identifier in VocabularyElement @id !!!	The error occurs if no match is found between destinationList destination and VocabularyElement @id in the party master data header when party master address data is populated in the header.
	Valid ship-to business lookup identifier type is required !!!	The error occurs if the source is empty or null.
	"urn:epcglobal:cbv:sdt:possessing_party" type in destinationList/destination is invalid !!! "urn:epcglobal:cbv:sdt:location" is required if location present in source !!!	The error occurs if ship-to party address info is not present in the header master data extensions and if destination @type = "urn:epcglobal:cbv:sdt:possessing_party".
disposition	Disposition urn:epcglobal:cbv:disp:in_progress is required for the AggregationEvent !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:in_progress".
	Disposition urn:epcglobal:cbv:disp:in_transit is required for ObjectEvent shipping !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:in_transit".
	Disposition urn:epcglobal:cbv:disp:active is required for ObjectEvent commissioning !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:active".
epc	Invalid EPC format !!!	The error occurs if the serial number cannot be translated to GS1 Application Identifier format.
	Invalid EPC format !!!	The error occurs if the source has unrecognized content.
	At least one serial number in epclist is required !!!	The error occurs if the source is empty or null.
readPoint id	Event location in the shipping event is required !!!	The error occurs if the source is empty or null.
ObjectEvent	Only one shipping event is required !!!	The error occurs if more than one shipping event is present.
	Shipping event data is required !!!	The error occurs if the source is empty or null.

Data Element	Error Message	Description
source	Valid sold-from business lookup identifier type is required !!!	The error occurs if the source is empty or null.
	Valid ship-from business lookup identifier type is required !!!	The error occurs if the source is empty or null.
	Ship-from party identifier must match an identifier in VocabularyElement @id !!!	The error occurs if no match is found between sourceList source and VocabularyElement @id in the party master data header when party master address data is populated in the header.
	Carrier party identifier must match an identifier in VocabularyElement @id !!!	The error occurs if no match is found between sourceList source and VocabularyElement @id in the party master data header when party master address data is populated in the header.
	Valid carrier business lookup identifier type is required !!!	The error occurs if the source is empty or null.
	"urn:epcglobal:cbv:sdt:possessing_party" type in sourceList/source is invalid !!! "urn:epcglobal:cbv:sdt:location" is required if location present in source !!!	The error occurs if ship-from party address info is not present in the header master data extensions and if source @type = "urn:epcglobal:cbv:sdt:possessing_party".
tl:orderItem choice%1	One of internalMaterialCode or packagingItemCode is required !!!	The error occurs if both tl:internalMaterialCode and tl:packagingItemCode are empty or null.
tl:packagingItemCode @type	Packaging item code type is required !!!	The error occurs if the source is empty or null, or source is not a valid value from the enumeration list, and tl:packagingItemCode is populated.
tl:packagingLevel	Packaging Level is required !!!	The error occurs if the source is empty or null. Required for GTIN and NTIN.
tl:quantity	Quantity is required !!!	The error occurs if OrderItemList is populated, but the source is empty or null.
tl:salesDistributionType	Valid sales distributionType is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
tl:shipFromCountryCode	Valid ISO country code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Ship from country for export products is required !!!	The error occurs if SalesDistributionType = EXPORTSALE, EXPORTTRANSFER, or EXPORTRETURN, but the source is empty or null.

Data Element	Error Message	Description
tl:shippingEventExtensions	shippingEventExtensions required if shipping event populated !!!	The error occurs if shipping event is populated, but the source is empty or null.
tl:shipToCountryCode	Valid ISO country code for ship-to country is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
tl:supplyType	Valid supply type code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
tl:transactionDate	Transaction date is required !!!	The error occurs if the source is empty or null.
tl:unitPrice @currencyCode	Valid ISO currency code is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
VocabularyElement	Sold to party identifier is required !!!	The error occurs if soldTo party does not exist as a VocabularyElement @id. SoldTo party must match destinationList owning party.
	Ship from party info required in VocabularyElement if present in sourceList !!!	The error occurs if shipFrom party is present in sourceList, but missing in source.
	Sold from party identifier is required !!!	The error occurs if soldFrom party does not exist as a VocabularyElement @id.
	Ship to party info required in VocabularyElement if present in destinationList !!!	The error occurs if shipTo party is present in sourceList, but missing in source.
	Carrier party info required in VocabularyElement if present in sourceList !!!	The error occurs if carrier party is present in sourceList, but missing in the source.
VocabularyElement attribute	Ship from location street address is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Carrier business party street address is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Sold from business party city is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Ship to business party name is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Sold to business party name is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Ship from business party name is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Sold from business party name is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Carrier business party name is required !!!	The error occurs if the source is empty or null.

Data Element	Error Message	Description
VocabularyElement attribute	Sold to business party street address is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Valid ship from location identifier type is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
VocabularyElement attribute	Ship to location street address is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Party type is required if additional business party identifier is populated !!!	The error occurs if additionalBusinessParty is populated, but the source is empty or null.
VocabularyElement attribute	Valid carrier business party identifier type is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
VocabularyElement attribute	Valid business classification code is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
VocabularyElement attribute	Valid ship to location identifier type is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
VocabularyElement attribute	Ship from location country is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Valid sold from business party identifier type is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
VocabularyElement attribute	Valid Ship to location country is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement attribute	Valid Sold to business party country is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement attribute	Valid sold to business party identifier type is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
VocabularyElement attribute	Party type is required if additional facility identifier is populated !!!	The error occurs if additionalIdentifierType is populated, but the source is empty or null.
VocabularyElement attribute	Sold to business party city is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Sold from business party street address is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Ship from location city is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Packaging Level is required if header master data is populated !!!	The error occurs if master data is populated in the header extension, but the source is empty or null.
VocabularyElement attribute	Valid packagingLevel code required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement attribute	Ship to location city is required !!!	The error occurs if the source is empty or null.

Data Element	Error Message	Description
VocabularyElement attribute	Ship to location state or region is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Sold from business party state or region is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Carrier business party city is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Ship from location state or region is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Carrier business party state or region is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Carrier business party country is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Valid Carrier business party country is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement attribute	Sold from business party country is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Valid Sold from business party country is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement attribute	Sold to business party country is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Ship to location country is required !!!	The error occurs if the source is empty or null.
VocabularyElement attribute	Sold to business party state or region is required !!!	The error occurs if the source is empty or null.
VocabularyElement @id	Item code is required in source VocabularyElement @id !!!	The error occurs if the source is empty or null.
	SGTIN or NTIN or CN-EDMC in VocabularyElement id is required !!!	The error occurs if the source is not an SGTIN or NTIN and master data is present in the header extension.
	Valid carrier business party identifier type is required !!!	The error occurs if the source is empty or null.
	Valid sold from business party identifier type is required !!!	The error occurs if the source is empty or null.
	Valid ship from business party identifier type is required !!!	The error occurs if the source is empty or null.
	Valid sold to business party identifier type is required !!!	The error occurs if the source is empty or null.
	Valid ship to business party identifier type is required !!!	The error occurs if the source is empty or null.
Class 2		
bizTransaction @date	Transaction Identifier Date is required if Ship To Country Code = RU.	The error occurs if tl:shipToCountryCode = "RU" but the source is empty or null.
destinationList	SOM Shipment inbound processing could not be completed. The	The error occurs if the source is empty or null and:

Data Element	Error Message	Description
	ReceiverInfo with either ToBusinessPartyLookupId or ToBusinessPartyInfo for the ShipFromCountryCode of <ShipFromCountryCode> and ShipToCountryCode of <ShipToCountryCode> must be specified.	- Transfer or sale occurs in non-EU FMD markets where the ShipToCountryCode is not an EU FMD country and the ShipFromCountryCode is not an EU FMD country. - Transfer or sale export occurs from the EU FMD markets where the ShipToCountryCode is China, US, South Korea, or Russia and the ShipFromCountryCode is an EU FMD country.
destinationList destination @type	Could not perform Master Data lookup to populate receiver business address fields. <ToBusinessPartyLookupId / type> <ToBusinessPartyLookupId> is not configured in your Company or Partner Company Master Data. Please configure <ToBusinessPartyLookupId / type> <ToBusinessPartyLookupId> in Company or Partner Company Master Data, and reprocess the file.	The error occurs if cmn:ToBusinessPartyLookupId @type or cmn:ToBusinessPartyLookupId is empty or null in Company or Partner Company Master Data.
	Could not perform Location Master Data lookup to populate receiver shipping address fields. <ShipToLocationLookupId / type> <ShipToLocationLookupId> is not configured in your Company or Partner Location Master Data. Please configure <ShipToLocationLookupId / type> <ShipToLocationLookupId> in Company Partner Location Master Data and reprocess the file.	The error occurs if cmn:ShipToLocationLookupId @type or the source is empty or null in Company or Partner Location Master Data.
sourceList	SOM Shipment inbound processing could not be completed. The SenderInfo with either FromBusinessPartyLookupId or FromBusinessPartyInfo for the ShipFromCountryCode of <ShipFromCountryCode> and ShipToCountryCode of <ShipToCountryCode> must be specified.	The error occurs if the source is empty or null and: - Transfer or sale occurs in non-EU FMD markets where the ShipToCountryCode is not an EU FMD country and the ShipFromCountryCode is not an EU FMD country. - Transfer or sale export from the EU FMD markets where the ShipToCountryCode is China, US, South Korea, or Russia and the ShipFromCountryCode is an EU FMD country.
sourceList source @type	Could not perform Master Data lookup to populate sender business address fields. <FromBusinessPartyLookupId / type> <FromBusinessPartyLookupId> is not configured in your Company	The error occurs if cmn:FromBusinessPartyLookupId @type or cmn:FromBusinessPartyLookupId is empty or null in Company or Partner Company Master Data.

Data Element	Error Message	Description
	or Partner Company Master Data. Please configure <FromBusinessPartyLookupId / type> <FromBusinessPartyLookupId> in Company or Partner Company Master Data, and reprocess the file.	
	Could not perform Location Master Data lookup to populate sender shipping address fields. <ShipFromLocationLookupId / type> <ShipFromLocationLookupId> is not configured in your Company Location Master Data nor in your Partner Location Master Data. Please configure <ShipFromLocationLookupId / type> <ShipFromLocationLookupId> in Company Location Master Data or in Partner Location Master Data (if the ship from location is a partner location), and reprocess the file.	The error occurs if cmn:ShipFromLocationLookupId @type or cmn:ShipFromLocationLookupId is empty or null in Company or Partner Location Master Data.
	Could not perform Master Data lookup to populate transportation carrier business address fields. <CarrierBusinessPartyLookupId / type> <CarrierBusinessPartyLookupId > is not configured in your Company or Partner Company Master Data. Please configure <CarrierBusinessPartyLookupId / type> <CarrierBusinessPartyLookupId > in Company or Partner Company Master Data, and reprocess the file.	The error occurs if cmn:CarrierBusinessPartyLookupId @type or the source is empty or null in Company or Partner Company Master Data.
tl:commissionEventExtensions tl:internalMaterialCode	Item Codes do not match between aggregation levels	The error occurs if all packaging levels are not consistent between either tl:internalMaterialCode, tl:countryDrugCode, or both.
tl:countryDrugCode	Item Codes do not match between aggregation levels	The error occurs if all packaging levels are not consistent between either tl:internalMaterialCode, tl:countryDrugCode, or both.
tl:fundingSource	Funding Source is required if Ship To Country Code is RU and Ship From Country Code is RU.	The error occurs if both tl:shipToCountryCode and tl:shipFromCountryCode = "RU", but the source is empty or null.
tl:OrderItemList	Delivery <Delivery Number> could not be processed. Expected <Pick Quantity> for Item <Item Code>, Lot <Lot Number> but <EA Level Serial Number Count> item serial numbers were found.	The error occurs if AllowShortVerificationCount = true, but derived quantity is greater than OrderItemQuantity.
	Delivery <Delivery Number> could not be processed. Expected <Pick Quantity> for Item <Item Code>, Lot <Lot Number> but <EA Level Serial Number Count> item serial numbers were found.	The error occurs if AllowShortVerificationCount = false, but derived quantity does not equal OrderItemQuantity.
tl:salesDistributionType	Serial Numbers with Recalled status cannot be shipped.	(missing or bad snippet) salesDistributionType =

Data Element	Error Message	Description
		INCOUNTRYSALE or EXPORTSALE for sales shipments, but one or more serial numbers have a Recalled reason code.
tl:shipFromCountryCode	SOM Shipment inbound processing could not be completed. Both the ShipToCountryCode and ShipFromCountryCode must be specified when the Sender Info and ReceiverInfo are not specified.	The error occurs if the sourceList and destinationList are both omitted, and tl:shipToCountryCode and tl:ShipFromCountrycode are empty or null.
tl:shipToCountryCode		
tl:transactionIdentifier @date	Order Item Transaction Identifier Date is required if Ship To Country Code = RU.	The error occurs if tl:shipToCountryCode = "RU" but the source is empty or null.
tl:unitPrice	Unit Price is required if Ship To Country Code is RU and Ship From Country Code is any of RU, AM, BY, KZ, KG.	The error occurs if tl:shipToCountryCode = "RU" and tl:shipFromCountryCode = "AM", "BY", "KG", "KZ", or "RU", but the source is empty or null.
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

Void shipment APIs

Why do I use these messages?

Use these messages to communicate that a delivery is cancelled or corrected. These messages use the delivery number to identify the shipment to be voided and provide a reason for the change in status.

Which report do these messages generate?

These messages generate the [251 - Refusal Sender](#) report in the Russia Compliance application if their contents meet the report conditions.

Void Shipment (XML)

Guidelines

Message Type: SOM_VOID_SHIPMENT

Info Exchange Display Name: Void Shipment

- ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.
- ⓘ Only send top-level container serial numbers for this message.

Data Element		Occurs Length	Type	Description
som:SOMVoidShipment		1...1 -	-	Required. Root element of message.
	som:ControlFileHeader	1...1 -	-	Required. XML file control header record.

Data Element				Occurs Length	Type	Description
		cmn:FileSenderNumber		1...1 1/20	String	Required. File sender's company identifier. ¹
		cmn:FileReceiverNumber		1...1 1/20	String	Required. File recipient's company identifier. ²
		cmn:FileControlNumber		1...1 1/*	String	Required. Unique file control ID number. ³
		cmn:FileDate		1...1 1/*	Date	Required. Date file generated in XML YYYY-MM-DD format. ⁴
		cmn:FileTime		1...1 1/*	Time	Required. Time file generated in XML HH:MM:SSZ format. ⁵
		som:MessageBody		1...1 -	-	Required. Main body of message.
		cmn:DeliveryLocation		0...1 0/*	String	Specifies identifier of facility/warehouse to scope the Sales Shipment Status update for the serial numbers matching the specified item code and lot number only at the specified location. If the location is omitted, the Sales Shipment status update will be applied globally to all matching serial numbers in the system. ⁶
			@type	1...1 1/1	String	Conditionally required if cmn:DeliveryLocation is populated. Location identifier type.⁷ See the BusinessAndLocationId enumeration list for valid values.  Only one of the following values may be used per message: - RU_INN_FOREIGN_ENTITY - RU_INN_INDIV - RU_INN_LOCAL_ENTITY

¹8888882028655²8888882028677³20160721063132⁴2016-07-21⁵06:31:32Z⁶8888882028655⁷GLN

Data Element						Occurs Length	Type	Description
		som:VoidShipment				1...* -	-	Required. Looping data element group for void shipment fields.
			cmn:DeliveryNumber			1...1 1/*	String	Required. Delivery number that links the order information to the serialized pick information for this customer delivery. Identifies the delivery document that will be voided or corrected. ¹
			cmn:DeliveryDirection			1...1 1/*	String	Required. Delivery direction describes whether the delivery was sent or received by the partner. Valid values: ² • <code>Sent</code> • <code>Received</code>
			cmn:PartnerId			0...1 0/*	String	Conditionally required if delivery type = <code>Received</code> . Partner ID for the delivery document. ³
				@type		1...1 1/*	String	Required. Partner identifier type. ⁴ See the BusinessAndLocationId enumeration list for valid values.  Only one of the following values may be used per message: • RU_INN_FOREIGN_ENTITY • RU_INN_INDIV • RU_INN_LOCAL_ENTITY
			cmn:SenderInfo			0...1 -	-	Captures information about the business and location of the Partner voiding the shipment.
				cmn:FromBusinessPartyInfo		0...1 -	-	Captures the full business information associated with the sold from business entity.
					cmn:BusinessId	1...* 1/*	String	Conditionally required if cmn:FromBusinessPartyInfo is populated. Indicates the identifier associated with the sold from business entity.
					@type	1...1 1/*	String	Conditionally required if cmn:BusinessId is populated. Indicates the the type of sold from business identifier. See the BusinessAndLocationId enumeration list for valid values.

¹4520010²Sent³8888882028655⁴GLN

Data Element				Occurs Length	Type	Description
			cmn:ShipFromLocationInfo	0...1 -	-	Captures the full business information associated with the ship from location.
			cmn:FacilityId	1...* 1/*	String	Indicates the identifier associated with the ship from location.
			@type	1...1 1/*	String	Conditionally required if cmn:FacilityId is populated. Indicates the the type of sold from business identifier. See the BusinessAndLocationId enumeration list for valid values.
			cmn:TransactionDate	1...1 1/*	Date	Required. Date of void transaction in partner's business system. ¹
			cmn:OrderCancelled	0...1 0/*	Boolean	Tracks whether order is cancelled rather than the intent to correct, aligning better with future government reporting and ERP functionality. Default value is <code>false</code> . ²
			cmn:ReasonCode	1...1 1/*	String	Required. Code identifying reason for the void or correction. ³ See the ReasonCode enumeration list for valid values.
			cmn:ReasonText	0...1 0/*	String	Text description of reason code. ⁴

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<som:SOMVoidShipment xmlns="urn:tracelink:mapper:sl:serialized_operations_manager"
xmlns:som="urn:tracelink:mapper:sl:serialized_operations_manager" xmlns:cmn="urn:tracelink:mapper:sl:commontypes">
  <som:ControlFileHeader>
    <cmn:FileSenderNumber>8888882028655</cmn:FileSenderNumber>
    <cmn:FileReceiverNumber>8888882028677</cmn:FileReceiverNumber>
    <cmn:FileControlNumber>20180614063134</cmn:FileControlNumber>
    <cmn:FileDate>2018-06-14</cmn:FileDate>
    <cmn:FileTime>09:31:32Z</cmn:FileTime>
  </som:ControlFileHeader>
  <som:MessageBody>
```

¹2016-07-21

²false

³Damaged

⁴Damaged product

```

<cmn:DeliveryLocation type="GLN">8887771013655</cmn:DeliveryLocation>
<som:VoidShipment>
  <cmn:DeliveryNumber>4520010</cmn:DeliveryNumber>
  <cmn:DeliveryDirection>Received</cmn:DeliveryDirection>
  <cmn:PartnerId type="GLN">8888882228655</cmn:PartnerId>
  <cmn:SenderInfo>
    <cmn:FromBusinessPartyInfo>
      <cmn:BusinessId type="DUNS4">1234</cmn:BusinessId>
    </cmn:FromBusinessPartyInfo>
    </cmn:ShipFromLocationInfo>
    <cmn:FacilityId type="DUNS4">ABCD</cmn:FacilityId>
    </cmn:ShipFromLocationInfo>
  </cmn:SenderInfo>
  <cmn:TransactionDate>2018-06-14</cmn:TransactionDate>
  <cmn:OrderCancelled>false</cmn:OrderCancelled>
  <cmn:ReasonCode>Correction</cmn:ReasonCode>
  <cmn:ReasonText>Shipment to be corrected</cmn:ReasonText>qAzRGYTG32
</som:VoidShipment>
</som:MessageBody>
</som:SOMVoidShipment>

```

Errors

Data Element	Error Message	Description
Class 1		
cmn:DeliveryDirection	Delivery direction of Sent or Received is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
cmn:DeliveryLocation @type	DeliveryLocation type attribute is required when source delivery location is populated !!!	The error occurs if cmn:DeliveryLocation is populated, but the source is empty or null.
	Valid delivery location type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:PartnerId @type	Party type attribute is required when source partner Id is populated !!!	The error occurs if cmn:PartnerId is populated, but the source is empty or null.
	Valid partner identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.

Data Element	Error Message	Description
cmn:PartnerId	Partner identifier is required for delivery direction Received !!!	The error occurs if DeliveryDirection = Received , but source is empty or null.
cmn:ReasonCode	Valid reason code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:TransactionDate	Transaction date is required !!!	The error occurs if the source is empty or null.
Class 2		
cmn:DeliveryNumber	Delivery [Delivery Number]: Shipment transaction for specified delivery number must be a sales shipment. Transfer shipment may not be voided.	The error occurs if source refers to a transfer shipment instead of a sales shipment.
	Delivery [Delivery Number]: Shipment transaction for specified delivery number has not been submitted.	The error occurs if source does not refer to a shipment in a submitted state.
	Delivery [Delivery Number]: The serial numbers for the specified deliver must be in a Commissioned - Shipped state.	The error occurs if serial numbers are not in a Commissioned - Shipped state.
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

Void Shipment (EPCIS v1.2)

Guidelines

Message Type: SOM_VOID_SHIPMENT

Info Exchange Display Name: Void Shipment

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

Data Element		Occurs Length	Type	Description
epcis:EPCISDocument		1..1	-	Required. EPCIS message root element.

Data Element		Occurs Length	Type	Description
@schemaVersion		1...1 0/*	Decimal	Required. The version of the EPCIS schema used to populate the EPCIS document elements. Must equal 1.2 . ¹
@creationDate		1...1 1/*	DateTime	Required. Date the message was created in YYYY-MM-DDTHH:MM:SS:mmZ format. ²
EPCISHeader		0...1 -	-	Required. The XML file control header.
	sbdh:StandardBusinessDocumentHeader	1...1 -	-	Required. Business header information including EPCIS Header Version, Sender, and Receiver information, along with the document identification.
	sbdh:HeaderVersion	1...1 0/*	String	Required. Version of the Standard Business Document Header (SBDH). The HeaderVersion must be set to 1.0 . ³
	sbdh:Sender	1...* -	-	Required. A unique identification key for the Sender party of the message, representing the organization that created the standard business document. The Sender element must be used only once with GS1 XML messages.
	sbdh:Identifier	1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type.⁴ Send SGLN and all other party types with the GS1-conformant uri prefix, for example: urn:epc:id:sgln:088202.867701.0 http://epcis.gs1us.org/hc/dea/loc/10023141 See the MDPartyTypeAttributes enumeration list for valid values.  GLNs do not have an urn/http prefix.
	@Authority	1...1 1/*	String	Required. The sender identifier type. The Authority was previously expected to be set to GLN for GS1 XML messages. An update made in December 2016 changed this to accept additional values.⁵ See the MDPartyTypeEnums enumeration list for valid values.
	sbdh:ContactInformation	0...*	-	Required. Indicates a unique identification key for the direct Receiver party of the message, representing the

¹1.2²2019-03-31T22:08:02Z³1.0⁴1100001014507⁵GLN

Data Element				Occurs Length	Type	Description
						organization that receives the standard business document. The Receiver element is used only once with GS1 XML messages.
			sbdh:Receiver	1...* -	-	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type.¹ Send SGLN and all other party types with the GS1-conformant uri prefix, for example: <code>urn:epc:id:sgln:088202.867701.0</code> <code>http://epcis.gs1us.org/hc/dea/loc/10023141</code> See the MDPartyTypeAttributes enumeration list for valid values. ① GLNs do not have an urn/http prefix.
			sbdh:Identifier	1...1 1/*	String	Required. The receiver identifier type. The Authority was previously expected to be set to "GLN" for GS1 XML messages. An update made in December 2016 changed this to accept additional values.² See the MDPartyTypeEnums enumeration list for valid values.
			@Authority	1...1 1/*	String	Required. Contains the identification group for the message.
			sbdh:ContactInformation	0...* -	-	Required. Name of the document standard contained in the file or message. The standard value for this field is <code>EPCglobal</code>.³
			sbdh:DocumentIdentification	1...1 -	-	Required. Reflects the version of the document included. This is the complete version of the document itself and is different from the HeaderVersion as these are hard-coded values. The TypeVersion is set to <code>1.0</code>.⁴
			sbdh:Standard	1...1 0/*	String	Required. Reference information that uniquely identifies this instance of the Standard Business Document between the Sender and the Receiver. This identifier confirms this document as being distinct from others.⁵
			sbdh:TypeVersion	1...1 0/*	String	Required. The document type. The Type value is set to "Events" for a void shipment event.⁶

¹0614141123452²GLN³EPCglobal⁴1.0⁵000001⁶Events

Data Element					Occurs Length	Type	Description
				sbdh:InstanceIdentifier	1...1 1/*	String	Required. The date and time of the SBDH document's creation. GMT create date and time for the EPCIS message. The system expects the Z to be appended; however, if it is not included, the system assumes that the time is GMT and therefore appends the Z . ¹
				sbdh:Type	1...1 0/*	String	Required. The document type. The Type value is set to "Events" for a take product sample event. ²
				sbdh:CreationDateAndTime	1...1 0/*	DateTime	Required. EPCIS message root element.
	EPCISBody				1...1 -	-	Required. Contains all of the EPCIS events for this message.
		EventList			1...1 -	-	Required. Only one ObjectEvent will be present in the EventList for the Void Shipment message.
			choice		1...* -	Choice	Required. Only ObjectEvent may be selected for EPCISBody EventList .
			ObjectEvent		1...* -	-	Required. Choice 1 for EventList . Data = ObjectEvent for the Void Shipment message Events. EventList = ObjectEvent Void Shipment when all of the following is true: action = OBSERVE bizStep = urn:epcglobal:cbv:bizstep:void_shipping disposition = urn:epcglobal:cbv:disp:in_progress
				eventTime	1...1 1/*	DateTime	Required. This field indicates the time stamp of date/time when the event occurred. Must include a time zone indicator as specified in Section 9.5 of [EPCIS1.0.1]. The system expects the "Z" to be appended; however if it is not included, the system assumes that the time is GMT and therefore appends the Z. ³
				recordTime	0...1 0/*	DateTime	Not used.
				eventTimeZoneOffset	1...1 1/*	String	Required. Time zone offset in effect at the time and place where the event occurred, consistent with what choice was made for eventTime . Per Section 7.2.8 of [EPCIS1.0.1]. ⁴

¹2018-04-30T22:08:02Z²Events³2016-09-18T22:08:02Z⁴-04:00

Data Element				Occurs Length	Type	Description
			baseExtension	1...1 -	-	Not used.
			epcList	0...* 1/*	String	Required. The EPCs of each item, case, and/or pallet commissioned.
			epc	1...1 0/*	String	Required. The EPC identifier in EPC Pure Identity URI format. See EPC Pure Identifier Format Examples . ¹
			action	0...1 0/*	AnyURI	Required. The action value must equal OBSERVE . ²
			bizStep	0...1 0/*	AnyURI	Required. The bizStep value must equal urn:epcglobal:cbv:bizstep:void_shipping . ³
			disposition	0...1 0/*	AnyURI	Required. The disposition value must equal urn:epcglobal:cbv:disp:in_progress . ⁴
			readPoint	0...1 -	-	This field identifies the location where the event occurred, i.e. the warehouse GLN location ID and storage location (e.g. shelf, bin), in URN format.
			id	1...1 0/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ⁵
			extension	0...1 -	-	Not used - GS1 Reserved.
			bizLocation	1...1 1/*	AnyURI	Required. This value indicates the SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier.
			id	0...1 -	-	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ⁶
			bizTransactionList	0...1 -	-	Required. Business documents required for void shipping message. Delivery document is mandatory.

¹urn:epc:id:sgtin:068202.0401034.11220207026272²OBSERVE³urn:epcglobal:cbv:bizstep:void_shipping⁴urn:epcglobal:cbv:disp:in_progress⁵urn:epc:id:sgln:777776.67345.0⁶urn:epc:id:sgln:777776.67345.0

Data Element						Occurs Length	Type	Description
					bizTransaction	1...* 0/*	String	Required. The business transaction identifiers for the Dispatch Advice (Advance Ship Notice) and/or Invoice and/or Purchase Order governing the shipment being voided, subject to Section 8.4.2 of [CBV1.0].¹ The GLN that occurs after <code>urn:epcglobal:cbv:bt:</code> is the GLN of the party that issued the number (e.g. if the customer issues a PO Number, the customer GLN is entered. If the supplier issues ASN/delivery number, the supplier GLN is entered). Delivery document (ASN) is mandatory but all document types are supported.
					@type	1...1 1/*	String	Required. The transaction identifier type.. DESADV is the only biz transaction type that will be mapped. Valid value:² <code>urn:epcglobal:cbv:btt:desadv</code> = Shipment Notification Number Other types may be present in source file but if shipping document is missing an error will be thrown.
					extension	(missing or bad snippet)0...1 (missing or bad snippet) (missing or bad snippet)– (missing or bad snippet)	-	Indicates extension body for the shipping event.
					sourceList	(missing or bad snippet)0...1 (missing or bad snippet) (missing or bad snippet)– (missing or bad snippet)	-	Captures the sending business, location, and carrier parties for the delivery. Supports one of two functions: - If the VocabularyElement is populated with the party address in master data, the sourceList identifies the sold to and ship to parties. The party master data is mapped from the VocabularyElement. - If the VocabularyElement is not populated with party address from master data, the sourceList party identifiers are used to look up the party address in master data.
					source	(missing or bad snippet)0...* (missing or	String	Captures the source party identifier for the sold from, ship from, or carrier parties. The party identifier in the source either: Identifies the sold from, ship from, or carrier party in the VocabularyElement. The party address info is mapped from the VocabularyElement. Nothing is mapped from the VocabularyElement if

¹urn:epcglobal:cbv:bt:777776067344:8047889791²urn:epcglobal:cbv:btt:desadv

Data Element						Occurs Length	Type	Description
						bad snippet) (missing or bad snippet)0/* (missing or bad snippet)		there is no match between the party identifier in the sourceList source and VocabularyElement [@id]. or - The sourceList source elements are used to perform a master data lookup if the VocabularyElement is not populated or there is no match between party identifiers in the source and VocabularyElement[@id] elements. Valid values: urn:epc:id:sgln: http://epcis.tracelink.com/hc/companyId/loc/ http://epcis.tracelink.com/hc/companySiteId/loc/ http://epcis.gs1us.org/hc/duns/loc/ http://epcis.gs1us.org/hc/duns_plus_four/loc/ http://epcis.gs1us.org/hc/dea/loc/ http://epcis.gs1us.org/hc/hin/loc/ http://epcis.gs1br.org/hc/cpf/loc/ http://epcis.gs1br.org/hc/cnes/loc/ http://epcis.gs1br.org/hc/cnpj/loc/ http://epcis.gs1br.org/hc/professionalReg/loc/ http://epcis.gs1us.org/hc/de_ifa_reg_num/loc/ http://epcis.tracelink.com/hc/gcp/loc/ http://epcis.tracelink.com/hc/in_company_id/loc/ http://epcis.tracelink.com/hc/in_location_id/loc/ http://epcis.tracelink.com/hc/kr_provider_code/loc/ http://epcis.tracelink.com/hc/kr_bus_reg_number/loc/ http://epcis.tracelink.com/hc/cuit/loc/ http://epcis.tracelink.com/hc/in_iec/loc/ http://epcis.tracelink.com/hc/in_pan/loc/ http://epcis.tracelink.com/hc/in_tin/loc/ http://epcis.tracelink.com/hc/ru_account_number/loc/

Data Element							Occurs Length	Type	Description
									http://epcis.tracelink.com/hc/ru_inn_foreign_entity/loc/ http://epcis.tracelink.com/hc/ru_inn_indiv/loc/ http://epcis.tracelink.com/hc/ru_inn_kpp_tax_code/loc/ http://epcis.tracelink.com/hc/ru_inn_local_entity/loc/ http://epcis.tracelink.com/hc/in_mfr/loc/ http://epcis.tracelink.com/hc/in_mrch/loc/ http://epcis.tracelink.com/hc/in_gstn/loc/ http://epcis.tracelink.com/hc/cn_foreign_mah/loc/ http://epcis.tracelink.com/hc/cn_foreign_mfr/loc/ http://epcis.tracelink.com/hc/cn_usid/loc/ http://epcis.tracelink.com/hc/am_tin/loc/ http://epcis.tracelink.com/hc/by_tin/loc/ http://epcis.tracelink.com/hc/kz_bin/loc/ http://epcis.tracelink.com/hc/id_bpom_facilityid/loc/ http://epcis.tracelink.com/hc/kg_tin/loc/  If the sold from party is the same as the ship from party, the ship from identifier does not need to be sent.
						@type	(missing or bad snippet)1...* (missing or bad snippet) (missing or bad snippet)0/* (missing or bad snippet)	String	Conditionally required if source is populated. Captures the type of source party identifier. Valid values: - Sold from party = urn:epcglobal:cbv:sdt:owning_party – The type of identifier used for the business entity transferring ownership of the goods. Value required if source is present and ship from party is the same as the business entity that owns the goods. - Ship from party = urn:epcglobal:cbv:sdt:location – The type of identifier used for the location that ships the goods. Value required if source is present and the ship from party is different from the business entity that owns the goods. - Carrier party = http://epcis.tracelink.com/sdt/carrier_party – The type of identifier used for the party that ships the goods.
					destinationList		(missing or bad	-	Captures the receiving business or location parties and supports one of two functions: If the VocabularyElement is populated with the party address in master data, the

Data Element						Occurs Length	Type	Description
						snippet)0...1 (missing or bad snippet) (missing or bad snippet)– (missing or bad snippet)		destinationList identifies the sold to and ship to parties. The party master data is mapped from VocabularyElement. If the VocabularyElement is not populated with party address from master data, the destinationList party identifiers are used to look up the party address in master data.
					destination	(missing or bad snippet)0...* (missing or bad snippet) (missing or bad snippet)0/* (missing or bad snippet)	String	Captures the destination party identifier for the sold to or ship to parties. Party identifier in destination either: - Identifies the sold from or ship from parties in the VocabularyElement. The party address info is mapped from the VocabularyElement. Nothing is mapped from the VocabularyElement if there is no match between the party identifier in the destinationList destination and VocabularyElement [@id] elements. or - The destinationList destination elements are used to perform a master data lookup if the VocabularyElement is not populated or there is no match between party identifiers in the source and VocabularyElement [@id] elements. Valid values: urn:epc:id:sgln: http://epcis.tracelink.com/hc/companyId/loc/ http://epcis.tracelink.com/hc/companySiteId/loc/ http://epcis.gs1us.org/hc/duns/loc/ http://epcis.gs1us.org/hc/duns_plus_four/loc/ http://epcis.gs1us.org/hc/dea/loc/ http://epcis.gs1us.org/hc/hin/loc/ http://epcis.gs1br.org/hc/cpf/loc/ http://epcis.gs1br.org/hc/cnes/loc/ http://epcis.gs1br.org/hc/cnpj/loc/ http://epcis.gs1br.org/hc/professionalReg/loc/ http://epcis.gs1us.org/hc/de_ifa_reg_num/loc/ http://epcis.tracelink.com/hc/gcp/loc/ http://epcis.tracelink.com/hc/in_company_id/loc/

Data Element								Occurs Length	Type	Description
										http://epcis.tracelink.com/hc/in_location_id/loc/ http://epcis.tracelink.com/hc/kr_provider_code/loc/ http://epcis.tracelink.com/hc/kr_bus_reg_number/loc/ http://epcis.tracelink.com/hc/cuit/loc/ http://epcis.tracelink.com/hc/in_iec/loc/ http://epcis.tracelink.com/hc/in_pan/loc/ http://epcis.tracelink.com/hc/in_tin/loc/ http://epcis.tracelink.com/hc/ru_account_number/loc/ http://epcis.tracelink.com/hc/ru_inn_foreign_entity/loc/ http://epcis.tracelink.com/hc/ru_inn_indiv/loc/ http://epcis.tracelink.com/hc/ru_inn_kpp_tax_code/loc/ http://epcis.tracelink.com/hc/ru_inn_local_entity/loc/ http://epcis.tracelink.com/hc/in_mfr/loc/ http://epcis.tracelink.com/hc/in_mrch/loc/ http://epcis.tracelink.com/hc/in_gstn/loc/ http://epcis.tracelink.com/hc/cn_foreign_mah/loc/ http://epcis.tracelink.com/hc/cn_foreign_mfr/loc/ http://epcis.tracelink.com/hc/cn_usid/loc/ http://epcis.tracelink.com/hc/am_tin/loc/ http://epcis.tracelink.com/hc/by_tin/loc/ http://epcis.tracelink.com/hc/kz_bin/loc/ http://epcis.tracelink.com/hc/id_bpom_facilityid/loc/ http://epcis.tracelink.com/hc/kg_tin/loc/  If the sold from party is the same as the ship from party, the ship from identifier does not need to be sent.
						@type	(missing or bad		String	(missing or bad snippet) if destination is populated. Captures the type of destination party identifier. Valid values: Sold to party = urn:epcglobal:cbv:sdt:owning_party – Value required if destination is

Data Element							Occurs Length	Type	Description
							snippet)1...* (missing or bad snippet) (missing or bad snippet)0/* (missing or bad snippet)		present and the ship from party is the same as the business entity that receives the goods. Ship from party = <code>urn:epcglobal:cbv:sdt:location</code> – Value required if destination is present and the ship to party is different from the business entity that receives the goods.
				tl:locationId			0...1 -	-	Specifies identifier of facility/warehouse to scope the void shipping message for the delivery at the specified location. ¹
					@type		0...1 -	-	Required. Attribute that identifies location types.² See the BusinessAndLocationId enumeration list for valid values.  Only one of the following values may be used per message: - RU_INN_FOREIGN_ENTITY - RU_INN_INDIV - RU_INN_LOCAL_ENTITY
				tl:voidEventExtensions			1...1 -	-	Extensions used for Commission ObjectEvent.
					tl:deliveryDirection		0...1 0/*	String	Required. Indicates whether the delivery is sent or received by the Partner. Determines if the message is for voiding a shipment or receipt. Valid values: <code>Sent</code> – The delivery is sent by the Partner. <code>Received</code> – The delivery is received by the Partner.
					tl:partnerId		1...1 0/*	String	Conditionally required if delivery direction = <code>Received</code> . Partner ID for the delivery document. ³

¹777776067344²GLN³888882028677

Data Element						Occurs Length	Type	Description
					@type	1...1 0/*	String	Required. Partner identifier type.¹ See the BusinessAndLocationId enumeration list for valid values.  Only one of the following values may be used per message: - RU_INN_FOREIGN_ENTITY - RU_INN_INDIV - RU_INN_LOCAL_ENTITY
					tl:transactionDate	1...1 1/*	Date	Required. User-specified date for Serialized Operations Manager Void message in XML date format YYYY-MM-DD. ²
					tl:orderCancelled	0...1 0/*	Boolean	Replaces CorrectShipment. Tracks whether order is cancelled rather than intent to correct, aligning better with future government reporting and ERP functionality. Default value is false. Valid values:³ false = Original order voided and may or may not be corrected at a later time. true = Original order voided and cancelled. Cannot be corrected.
					tl:changeReasonCode	1...1 0/*	String	Required. Code identifying reason for the void or correction.⁴ See the ReasonCodes enumeration list for valid values.
					tl:reasonDescription	0...1 0/*	String	Text description of reason code. ⁵

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
xmlns:tl="http://epcis.tracelink.com/ns" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:gslushc="http://epcis.gslus.org/hc/ns">
```

¹GLN

²2016-09-18

³false

⁴Correction

⁵Shipment to be corrected

```

xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader" schemaVersion="1.2"
creationDate="2018-06-14T08:31:32Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier Authority="GLN">8779891013658</sbdh:Identifier>
      </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier Authority="GLN">8887771013655</sbdh:Identifier>
      </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>2018083006310033</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2018-06-14T08:31:32Z</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
  </EPCISHeader>
  <EPCISBody>
    <EventList>
      <ObjectEvent>
        <eventTime>2018-06-14T08:31:32Z</eventTime>
        <eventTimeZoneOffset>-04:00</eventTimeZoneOffset>
        <epcList>
          <epc>urn:epc:id:sgtin:068202.0401034.11220207024592</epc>
          <epc>urn:epc:id:sgtin:068202.0401034.11220207024593</epc>
        </epcList>
        <action>OBSERVE</action>
        <bizStep>urn:epcglobal:cbv:bizstep:void_shipping</bizStep>
        <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
        <bizLocation>
          <id>urn:epc:id:sgln:8887777.01384.0</id>
        </bizLocation>
        <bizTransactionList>
          <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:8887771013655:8047889791</bizTransaction>
        </bizTransactionList>
        <tl:locationId type="GLN">8887771013655</tl:locationId>

```

```

    <tl:voidEventExtensions>
      <tl:partnerId type="GLN">6667771013655</tl:partnerId>
      <gslushc:transactionDate>2018-06-13</gslushc:transactionDate>
      <tl:orderCancelled>true</tl:orderCancelled>
      <tl:changeReasonCode>DamagedInTransit</tl:changeReasonCode>
      <tl:reasonDescription>Delivery truck was involved in an accident and product was damaged. New
delivery will be sent.</tl:reasonDescription>
    </tl:voidEventExtensions>
  </ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

Errors

Data Element	Error Message	Description
Class 1		
action	action OBSERVE is required for ObjectEvent void shipping !!!	The error occurs if the source does not equal OBSERVE .
bizStep	bizStep urn:epcglobal:cbv:bizstep:void_shipping is required for ObjectEvent void shipping !!!	The error occurs if the source does not equal urn:epcglobal:cbv:bizstep:void_shipping .
bizTransaction	Delivery document is required !!!	The error occurs if bizTransaction @type does not equal urn:epcglobal:cbv:bt:desadv , or if source is empty or null.
	Unable to parse data. bizTransaction must begin with urn:epcglobal:cbv:bt: !!!	The error occurs if the source does not begin with string urn:epcglobal:cbv:bt: .
disposition	Disposition urn:epcglobal:cbv:disp:in_progress is required for ObjectEvent void shipping !!!	The error occurs if the source does not equal urn:epcglobal:cbv:disp:in_progress .
ObjectEvent	At least one ObjectEvent for void shipment transaction is required !!!	The error occurs if the source input file does not include at least one ObjectEvent .
	Only one ObjectEvent for the void shipment transaction is required !!!	The error occurs if more than one ObjectEvent is present.
tl:changeReasonCode	Valid reason code is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
tl:locationId @type	Valid location identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.

Data Element	Error Message	Description
tl:partnerId @type	Party type attribute is required when source partner Id is populated !!!	The error occurs if cmn:PartnerId is populated, but the source is empty or null.
	Valid partner identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
Class 2		
cmn:DeliveryNumber	Delivery [Delivery Number]: Shipment transaction for specified delivery number must be a sales shipment. Transfer shipment may not be voided.	The error occurs if the specified delivery number refers to a transfer shipment, not a sales shipment.
	Delivery [Delivery Number]: Shipment transaction for specified delivery number has not been submitted.	The error occurs if the specified delivery number does not refer to a shipment in a submitted state.
	Delivery [Delivery Number]: The serial numbers for the specified deliver must be in a Commissioned - Shipped state.	The error occurs if the serial numbers are not in a Commissioned - Shipped state.
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

ESM Void Shipment (EPCIS v1.2)

Guidelines

Message Type: SOM_ESM_VOID_SHIPMENT

Info Exchange Display Name: ESM Void Shipment

❗ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

Data Element	Occurs Length	Format	Description
epcis:EPCISDocument	1...1	-	Required. EPCIS message root element.

Data Element				Occurs Length	Format	Description
@schemaVersion				1...1 0/*	Decimal	Required. The version of the EPCIS schema used to populate the EPCIS document elements. Must equal 1.2 . ¹
@creationDate				1...1 1/*	DateTime	Required. Date the message was created in YYYY-MM-DDTHH:MM:SS:mmZ format. ²
EPCISHeader				0...1 -	-	Required. The XML file control header.
	sbdh:StandardBusinessDocumentHeader			1...1 -	-	Required. Business header information including EPCIS Header Version, Sender, and Receiver information, along with the document identification.
		sbdh:HeaderVersion		1...1 0/*	String	Required. Version of the Standard Business Document Header (SBDH). The HeaderVersion must be set to 1.0 . ³
		sbdh:Sender		1... -	-	Required. A unique identification key for the Sender party of the message, representing the organization that created the standard business document. The Sender element must be used only once with GS1 XML messages.
		sbdh:Identifier		1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type.⁴ Send SGLN and all other party types with the GS1-conformant uri prefix, for example: urn:epc:id:sgln:088202.867701.0 http://epcis.gs1us.org/hc/dea/loc/10023141  GLNs do not have a urn/http prefix.
			@Authority	1...1 1/*	String	Required. The sender identifier type. The Authority was previously expected to be set to GLN for GS1 XML messages. An update made in December 2016 changed this to accept additional values. ⁵
		sbdh:ContactInformation		0... -	-	Not used.
		sbdh:Receiver		1... -	-	Required. Indicates a unique identification key for the direct Receiver party of the message, representing the organization that

¹1.2²2013-10-01T22:08:02Z³1.0⁴1100001014507⁵GLN

Data Element				Occurs Length	Format	Description
						receives the standard business document. The Receiver element is used only once with GS1 XML messages.
			sbdh:Identifier	1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type.¹ Send SGLN and all other party types with the GS1-conformant uri prefix, for example: - urn:epc:id:sgln:088202.867701.0 - http://epcis.gs1us.org/hc/dea/loc/10023141  GLNs do not have a urn/http prefix.
			@Authority	1...1 1/*	String	Required. The receiver identifier type. The Authority was previously expected to be set to GLN for GS1 XML messages. An update made in December 2016 changed this to accept additional values. ²
			sbdh:ContactInformation	0...* -	-	Not used.
			sbdh:DocumentIdentification	1...1 -	-	Required. Contains the identification group for the message.
			sbdh:Standard	1...1 0/*	String	Required. Name of the document standard contained in the file or message. The standard value for this field is EPCglobal . ³
			sbdh:TypeVersion	1...1 0/*	String	Required. Reflects the version of the document included. This is the complete version of the document itself and is different from the HeaderVersion as these are hard-coded values. The TypeVersion is set to 1.0 . ⁴
			sbdh:InstanceIdentifier	1...1 1/*	String	Required. Reference information that uniquely identifies this instance of the Standard Business Document between the Sender and the Receiver. This identifier confirms this document as being distinct from others. ⁵
			sbdh:Type	1...1 0/*	String	Required. Document type. The Type value is set to Events for a shipping event. ⁶
			sbdh:CreationDateAndTime	1...1	DateTime	Required. The date and time of the SBDH document's creation. GMT create date and time for the EPCIS message. The system

¹0614141123452²GLN³EPCglobal⁴1.0⁵000001⁶Events

Data Element					Occurs Length	Format	Description
							to be appended; however, if it is not included, the system assumes that the time is GMT and therefore appends the Z. ¹
	EPCISBody				1...1 –	-	Required. The main body of the shipment message.
		EventList			1...1 –	-	Required. The EventList includes one ObjectEvent for shipping.
			choice		1...* –	Choice	Required. Only ObjectEvent may be selected for EventList .
			ObjectEvent		1...* –	-	Required. Indicates the transaction type. Choice 1 for the EventList . Data = ObjectEvent for the commissioning events. EventList = ObjectEvent when all of the following is true: • action = OBSERVE • bizStep = urn:epcglobal:cbv:bizstep:shipping • disposition = urn:epcglobal:cbv:disp:in_progress
				eventTime	1...1 1/*	DateTime	Required. The time stamp of the date/time when the event occurred in YYYY-MM-DDTHH:MM:SS.mm or YYYY-MM-DDTHH:MM:SS.mmm format. Must include a time zone indicator as specified in Section 9.5 of [EPCIS1.0.1]. The system expects the Z to be appended if it is not included; however, the system assumes that the time is GMT and therefore appends the Z. ²
				recordTime	0...1 0/*	DateTime	Not used.
				eventTimeZoneOffset	1...1 1/*	String	Required. The time zone offset in the place where the event occurred, consistent with what choice was made for eventTime. A time offset is an amount of time subtracted from or added to UTC (Coordinated Universal Time) to get the current civil time, whether it is standard time or Daylight saving time. Per Section 7.2.8 of [EPCIS1.0.1]. ³
				epcList	1...1 –	-	Required. List of the EPCs of topmost containers (e.g. pallets, cases) in the shipment.
				epc	0...* 1/*	String	The identifier of the epc type in EPC Pure Identity URI format. See EPC Pure Identifier Format Examples . ⁴

¹2013-10-01T22:08:02Z²2016-09-18T22:08:02Z³-04:00⁴urn:epc:id:sgtin:068202.0401034.11220207026272

Data Element					Occurs Length	Format	Description
				action	0...1 0/*	AnyURI	Required. The action type of the event. The action value must equal OBSERVE for a shipping event. ¹
				bizStep	0...1 0/*	AnyURI	Required. The business step taken in the event. The bizStep value must equal urn:epcglobal:cbv:bizstep:void_shipping for a shipping event. ²
				disposition	0...1 0/*	AnyURI	Required. The bizStep and disposition fields define the message event and are grouped together under the GS1 EPCIS guidelines. The disposition indicates the status of the message. The disposition value must equal urn:epcglobal:cbv:disp:in_progress . ³
				readPoint	0...1 -	-	Identifies the location where the event occurred; that is, the warehouse GLN location ID and storage location (e.g. shelf, bin) that recorded the shipping event, in URN format.
				id	1...1 0/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN or a finer-grain location identifier. ⁴
				extension	0...1 -	-	Not used - GS1 Reserved.
				bizLocation	1...1 1/*	AnyURI	Not used.
				id	0...1 -	-	Not used.
				bizTransactionList	1...1 -	-	Required. This element contains a list of the business transaction identifiers.
				bizTransaction	1...1 0/*	String	Required. The business transaction identifiers for the Dispatch Advice (Advance Ship Notice) and/or Invoice and/or Purchase Order governing this shipment, which are subject to Section 8.4.2 of (CBV1.0). The GLN that occurs after urn:epcglobal:cbv:bt: is the GLN of the party that issued the number (e.g. if customer issues PO Number, customer GLN is entered. If supplier issues ASN/delivery number, supplier GLN is entered). ⁵
				@type	1...1 1/*	String	Required. The transaction identifier type using the supported enumeration values. DESADV is the only biz transaction type that will be mapped. ⁶

¹OBSERVE²urn:epcglobal:cbv:bizstep:void_shipping³urn:epcglobal:cbv:disp:in_progress⁴urn:epc:id:sgln:7777776.67345.0⁵urn:epcglobal:cbv:bt:7777776067344:8047889791⁶urn:epcglobal:cbv:btt:desadv

Data Element							Occurs Length	Format	Description
									<code>urn:epcglobal:cbv:btt:desadv</code> = Shipment Notification Number Other types may be present in source file, but if shipping document is missing an error will be thrown.
				extension			- -	-	Indicates extension body for the shipping event.
					sourceList		0...1 -	-	Captures the sending business, location, and carrier parties for the delivery. Supports one of two functions: - If the VocabularyElement is populated with the party address in master data, the sourceList identifies the sold to and ship to parties. The party master data is mapped from the VocabularyElement. - If the VocabularyElement is not populated with party address from master data, the sourceList party identifiers are used to look up the party address in master data.
						source	0...* 0/*	String	Captures the source party identifier for the sold from, ship from, or carrier parties. The party identifier in the source either: - Identifies the sold from, ship from, or carrier party in the VocabularyElement. The party address info is mapped from the VocabularyElement. Nothing is mapped from the VocabularyElement if there is no match between the party identifier in the sourceList source and VocabularyElement[@id]. or - The sourceList source elements are used to perform a master data lookup if the VocabularyElement is not populated or there is no match between party identifiers in the source and VocabularyElement[@id] elements. Valid values: <code>urn:epc:id:sgln:</code> <code>http://epcis.tracelink.com/hc/companyId/loc/</code> <code>http://epcis.tracelink.com/hc/companySiteId/loc/</code> <code>http://epcis.gs1us.org/hc/duns/loc/</code> <code>http://epcis.gs1us.org/hc/duns_plus_four/loc/</code> <code>http://epcis.gs1us.org/hc/dea/loc/</code> <code>http://epcis.gs1us.org/hc/hin/loc/</code> <code>http://epcis.gs1br.org/hc/cpf/loc/</code> <code>http://epcis.gs1br.org/hc/cnes/loc/</code> <code>http://epcis.gs1br.org/hc/cnpj/loc/</code> <code>http://epcis.gs1br.org/hc/professionalReg/loc/</code> <code>http://epcis.gs1us.org/hc/de_ifa_reg_num/loc/</code>

Data Element							Occurs Length	Format	Description
									http://epcis.tracelink.com/hc/gcp/loc/ http://epcis.tracelink.com/hc/in_company_id/loc/ http://epcis.tracelink.com/hc/in_location_id/loc/ http://epcis.tracelink.com/hc/kr_provider_code/loc/ http://epcis.tracelink.com/hc/kr_bus_reg_number/loc/ http://epcis.tracelink.com/hc/cuit/loc/ http://epcis.tracelink.com/hc/in_iec/loc/ http://epcis.tracelink.com/hc/in_pan/loc/ http://epcis.tracelink.com/hc/in_tin/loc/ http://epcis.tracelink.com/hc/ru_account_number/loc/ http://epcis.tracelink.com/hc/ru_inn_foreign_entity/loc/ http://epcis.tracelink.com/hc/ru_inn_indiv/loc/ http://epcis.tracelink.com/hc/ru_inn_kpp_tax_code/loc/ http://epcis.tracelink.com/hc/ru_inn_local_entity/loc/ http://epcis.tracelink.com/hc/in_mfr/loc/ http://epcis.tracelink.com/hc/in_mrch/loc/ http://epcis.tracelink.com/hc/in_gstn/loc/ http://epcis.tracelink.com/hc/cn_foreign_mah/loc/ http://epcis.tracelink.com/hc/cn_foreign_mfr/loc/ http://epcis.tracelink.com/hc/cn_usid/loc/ http://epcis.tracelink.com/hc/am_tin/loc/ http://epcis.tracelink.com/hc/by_tin/loc/ http://epcis.tracelink.com/hc/kz_bin/loc/ http://epcis.tracelink.com/hc/id_bpom_facilityid/loc/ http://epcis.tracelink.com/hc/kg_tin/loc/ If the sold from party is the same as the ship from party, the ship from identifier does not need to be sent.

Data Element							Occurs Length	Format	Description
					@type		1... 0/*	String	Conditionally required if source is populated. Captures the type of source party identifier. Valid values: - Sold from party = urn:epcglobal:cbv:sdt:owning_party – The type of identifier used for the business entity transferring ownership of the goods. Value required if source is present and ship from party is the same as the business entity that owns the goods. - Ship from party = urn:epcglobal:cbv:sdt:location – The type of identifier used for the location that ships the goods. Value required if source is present and the ship from party is different from the business entity that owns the goods. - Carrier party = http://epcis.tracelink.com/sdt/carrier_party – The type of identifier used for the party that ships the goods.
				destinationList			0...1 –	-	Captures the receiving business or location parties and supports one of two functions: - If the VocabularyElement is populated with the party address in master data, the destinationList identifies the sold to and ship to parties. The party master data is mapped from VocabularyElement. - If the VocabularyElement is not populated with party address from master data, the destinationList party identifiers are used to look up the party address in master data.
					destination		0... 0/*	String	Captures the destination party identifier for the sold to or ship to parties. Party identifier in destination either: - Identifies the sold from or ship from parties in the VocabularyElement. The party address info is mapped from the VocabularyElement. Nothing is mapped from the VocabularyElement if there is no match between the party identifier in the destinationList destination and VocabularyElement[@id] elements. or - The destinationList destination elements are used to perform a master data lookup if the VocabularyElement is not populated or there is no match between party identifiers in the source and VocabularyElement[@id] elements. Valid values: urn:epc:id:sgln: http://epcis.tracelink.com/hc/companyId/loc/ http://epcis.tracelink.com/hc/companySiteId/loc/ http://epcis.gs1us.org/hc/duns/loc/ http://epcis.gs1us.org/hc/duns_plus_four/loc/ http://epcis.gs1us.org/hc/dea/loc/ http://epcis.gs1us.org/hc/hin/loc/ http://epcis.gs1br.org/hc/cpf/loc/

Data Element						Occurs Length	Format	Description
								• http://epcis.gs1br.org/hc/cnes/loc/ • http://epcis.gs1br.org/hc/cnpj/loc/ • http://epcis.gs1br.org/hc/professionalReg/loc/ • http://epcis.gs1us.org/hc/de_ifa_reg_num/loc/ • http://epcis.tracelink.com/hc/gcp/loc/ • http://epcis.tracelink.com/hc/in_company_id/loc/ • http://epcis.tracelink.com/hc/in_location_id/loc/ • http://epcis.tracelink.com/hc/kr_provider_code/loc/ • http://epcis.tracelink.com/hc/kr_bus_reg_number/loc/ • http://epcis.tracelink.com/hc/cuit/loc/ • http://epcis.tracelink.com/hc/in_iec/loc/ • http://epcis.tracelink.com/hc/in_pan/loc/ • http://epcis.tracelink.com/hc/in_tin/loc/ • http://epcis.tracelink.com/hc/ru_account_number/loc/ • http://epcis.tracelink.com/hc/ru_inn_foreign_entity/loc/ • http://epcis.tracelink.com/hc/ru_inn_indiv/loc/ • http://epcis.tracelink.com/hc/ru_inn_kpp_tax_code/loc/ • http://epcis.tracelink.com/hc/ru_inn_local_entity/loc/ • http://epcis.tracelink.com/hc/in_mfr/loc/ • http://epcis.tracelink.com/hc/in_mrch/loc/ • http://epcis.tracelink.com/hc/in_gstn/loc/ • http://epcis.tracelink.com/hc/cn_foreign_mah/loc/ • http://epcis.tracelink.com/hc/cn_foreign_mfr/loc/ • http://epcis.tracelink.com/hc/cn_usid/loc/ • http://epcis.tracelink.com/hc/am_tin/loc/ • http://epcis.tracelink.com/hc/by_tin/loc/ • http://epcis.tracelink.com/hc/kz_bin/loc/ • http://epcis.tracelink.com/hc/id_bpom_facilityid/loc/

Data Element						Occurs Length	Format	Description
								http://epcis.tracelink.com/hc/kg_tin/loc/ If the sold from party is the same as the ship from party, the ship from identifier does not need to be sent.
					@type	1...* 0/*	String	Conditionally required if destination is populated. Captures the type of destination party identifier. Valid values: - Sold to party = urn:epcglobal:cbv:sdt:owning_party – Value required if destination is present and the ship from party is the same as the business entity that receives the goods. - Ship from party = urn:epcglobal:cbv:sdt:location – Value required if destination is present and the ship to party is different from the business entity that receives the goods.
				tl:locationId		0...1 –	-	Specifies identifier of facility/warehouse to scope the void shipping transaction for the delivery at the specified location. ¹
					@type	0...1 –	-	Required. Attribute that identifies location types. See the LocationIdType enumeration list for valid values:² ⚠ Only one of the following values may be used per message: - RU_INN_FOREIGN_ENTITY - RU_INN_INDIV - RU_INN_LOCAL_ENTITY
				tl:voidEventExtensions		1...1 –	-	Required. Extensions used for commission ObjectEvent .
					tl:deliveryDirection	0...1 0/*	String	Required. Indicates whether the delivery is sent or received by the Partner. Determines if the message is for voiding a shipment or receipt. Valid values: Sent – The delivery is sent by the Partner. Received – The delivery is received by the Partner.

¹777776067344²GLN

Data Element						Occurs Length	Format	Description
					tl:partnerId	0...1 0/*	String	Conditionally required if deliveryDirection = received . Partner ID for the delivery document. ¹
					@type	1...1 0/*	String	Required. Partner identifier type. ²  Only one of the following values may be used per message: - RU_INN_FOREIGN_ENTITY - RU_INN_INDIV - RU_INN_LOCAL_ENTITY See the BusinessAndLocationId enumeration list for valid values.
					tl:transactionDate	1...1 1/*	Date	Required. User-specified date for Serialized Operations Manager Void message in XML date format YYYY-MM-DD. ³
					tl:orderCancelled	0...1 0/*	Boolean	Replaces CorrectShipment . Tracks whether order is cancelled rather than intent to correct, aligning better with future government reporting and ERP functionality. Default value is false . Valid values: ⁴ false = Original order voided and may or may not be corrected at a later time. true = Original order voided and cancelled. Cannot be corrected.
					tl:changeReasonCode	1...1 0/*	String	Required. Code identifying reason for the void or correction. ⁵ See the ReasonCodes enumeration list for valid values.
					tl:reasonDescription	0...1 0/*	String	Text description of reason code. ⁶

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
xmlns:tl="http://epcis.tracelink.com/ns" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```

¹8888882028677

²GLN

³2016-09-18

⁴false

⁵Correction

⁶Shipment to be corrected

```

xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader" schemaVersion="1.2"
creationDate="2016-09-18T22:08:02Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.1</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier Authority="GLN">8887771013655</sbdh:Identifier>
      </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier Authority="GLN">8779891013658</sbdh:Identifier>
      </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.1</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>2019072522090033</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2019-07-25T22:10:53Z</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
  </EPCISHeader>
  <EPCISBody>
    <EventList>
      <ObjectEvent>
        <eventTime>2019-07-25T22:10:53Z</eventTime>
        <eventTimeZoneOffset>-04:00</eventTimeZoneOffset>
        <epcList>
          <epc/>
        </epcList>
        <action>OBSERVE</action>
        <bizStep>urn:epcglobal:cbv:bizstep:void_shipping</bizStep>
        <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
        <readPoint>
          <id>urn:epc:id:sgln:8887777.01384.0</id>
        </readPoint>
        <bizLocation>
          <id>urn:epc:id:sgln:8887777.01384.0</id>
        </bizLocation>
        <bizTransactionList>
          <bizTransaction
type="urn:epcglobal:cbv:btt:desadv">urn:epcglobal:cbv:bt:7777776067344:8047889791</bizTransaction>

```

```

</bizTransactionList>
  <extension>
    <sourceList>
      <source type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:088202.867701
    </sourceList>
    <destinationList>
      <destination type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:033333.1
    </destinationList>
  </extension>
<tl:locationId type="GLN">8887771013655</tl:locationId>
<tl:voidEventExtensions>
  <tl:deliveryDirection>Sent</tl:deliveryDirection>
  <tl:partnerId type="GLN">8887771013655</tl:partnerId>
  <tl:transactionDate>2019-07-25</tl:transactionDate>
  <tl:orderCancelled>false</tl:orderCancelled>
  <tl:changeReasonCode>DamagedInTransit</tl:changeReasonCode>
  <tl:reasonDescription>Delivery truck was involved in an accident and product was damaged. New
delivery will be sent.</tl:reasonDescription>
</tl:voidEventExtensions>
</ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

Errors

Data Element	Error Message	Description
Class 1		
action	action OBSERVE is required for ObjectEvent void shipping !!!	The error occurs if the source does not equal OBSERVE .
bizStep	bizStep urn:epcglobal:cbv:bizstep:void_shipping is required for ObjectEvent void shipping !!!	The error occurs if the source does not equal urn:epcglobal:cbv:bizstep:void_shipping .
bizTransaction	Delivery document is required !!!	The error occurs if the source does not equal urn:epcglobal:cbv:btt:desadv , or is empty or null.
	Unable to parse data. bizTransaction must begin with urn:epcglobal:cbv:bt: !!!	The error occurs if source does not begin with urn:epcglobal:cbv:bt:.

Data Element	Error Message	Description
disposition	Disposition urn:epcglobal:cbv:disp:in_progress is required for ObjectEvent void shipping !!!	The error occurs if the source does not equal <code>urn:epcglobal:cbv:disp:in_progress</code> .
ObjectEvent	At least one ObjectEvent for void shipment transaction is required !!!	The error occurs if there is not at least one ObjectEvent present.
	Only one ObjectEvent for the void shipping transaction is required !!!	The error occurs if more than one source is present.
tl:changeReasonCode	Valid reason code is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
tl:locationId @type	Valid location identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
tl:partnerId @type	Party type attribute is required when source partner Id is populated !!!	The error occurs if tl:partnerId is populated, but the source is empty or null.
	Valid partner identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
Class 2		
cmn:DeliveryNumber	Delivery [Delivery Number]: Shipment transaction for specified delivery number must be a sales shipment. Transfer shipment may not be voided.	The error occurs if source refers to a transfer shipment.
	Delivery [Delivery Number]: Shipment transaction for specified delivery number has not been submitted.	The error occurs if source refers to a shipment that is not in a submitted state.
	Delivery [Delivery Number]: The serial numbers for the specified deliver must be in a Commissioned - Shipped state.	The error occurs if the serial numbers are not in a Commissioned - Shipped state.
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

Void Shipment (SOAP)

Void Shipment Request

Guidelines

❗ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

The following data is sent in the request to TraceLink:

Data Element					Occurs Length	Type	Description
soapenv:Envelope					1...1 -	-	Required. SOAP Envelope root element.
soapenv:Header					1...1 -	-	Not used.
soapenv:Body					1...1 -	-	Required. SOAP Message Body.
		urn:VoidShipment			1...1 -	-	Required. Create void shipment request message. Communicates the location, delivery number, order cancel status, transaction date, and reason of a void shipment message. The system validates the delivery in order to ensure that it is a valid shipment and that the serial numbers are in a Shipped status. The Order Cancel status determines whether the delivery is voided and canceled such that the delivery may not be corrected or whether the delivery is voided and not corrected such that the delivery may be updated at a later time.
			LocationId		0...1 -	-	Optional location associated with the original delivery.
				@identiervalue	1...1 0/*	String	Specifies identifier of facility/warehouse to scope the void shipment. This is intended to provide access control for the void message. When the transaction is updated, the location of the original delivery will be used to return the serial numbers to an available state. ¹
				@identifiertype	1...1 1/1	String	Required. Location identifier type.² See the LocationId enumeration list for valid values.

¹8888882028677

²GLN

Data Element				Occurs Length	Type	Description
			DeliveryNumber	1...1 1/*	String	Required. Delivery number that refers to a previously submitted delivery (Serialized Operations Manager Sales Shipment). The system will validate that: ¹ - This original delivery is a sales shipment and not a transfer order. - The original delivery is in a submitted state. - The serial numbers for the original delivery are in a shipped status.
			DeliveryDirection	1...1 1/*	String	Required. Indicates whether the delivery is sent or received by the Partner which determines if the message is for voiding shipment or receipt. Valid values: Sent Received
			PartnerId	0...1 -	-	Optional Partner ID associated with the original delivery.
			SenderInfo	0...1 -	-	Conditionally required if the same DeliveryNumber is used for multiple shipments. Captures information about the business entity and location that is sending the shipment.
			FromBusinessPartyInfo	0...1 -	-	Captures the identifiers associated with the business entity that is sending the shipment.
			BusinessId	0...* -	-	Captures the identifiers associated with the business entity that is sending the shipment.
			@type	1...1 1/*	String	Conditionally required if the same BusinessId is present. Captures the sold from business identifier value. See the BusinessAndLocationId enumeration list for valid values.
			ShipFromLocationInfo	0...1 -	-	Captures the identifiers associated with the location that is sending the shipment.
			FacilityId	0...* -	-	Indicates the identifiers associated with the business location that is sending the shipment.
			@type	1...1 1/*	String	Conditionally required if the FacilityId is present. Indicates the ship from location identifier value. See the BusinessAndLocationId enumeration list for valid values.
			TransactionDate	1...1 1/*	Date	Date of void transaction in partner's business system. ²

¹D12345²2015-06-01

Data Element				Occurs Length	Type	Description
			OrderCancelled	1...1 1/*	Boolean	Required. Represents the status of the order/delivery in the ERP system. ¹ - If the order/delivery is canceled (true), the original order is voided and canceled. Cannot be corrected. - If the order/delivery is not canceled (false), the original order is voided and can be corrected a later time.
			ReasonCode	1...1 1/*	String	Required. Code identifying reason for the void or correction. ² See the ReasonCodes enumeration list for valid values.
			ReasonText	0...1 0/*	String	Text description of reason code. ³

Example

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:urn="urn:tracelink:soap">
  <soapenv:Body>
    <urn:VoidShipment>
      <VoidShipmentRequest>
        <LocationId identiifiertype="GLN" identiifiervalue="8888882028655"/>
        <DeliveryNumber>D12345</DeliveryNumber>
        <DeliveryDirection>Sent</DeliveryDirection>
        <SenderInfo>
          <FromBusinessPartyInfo>
            <BusinessId type="GLN">6368866569756</BusinessId>
          </FromBusinessPartyInfo>
          <ShipFromLocationInfo>
            <FacilityId type="GLN">6368866569163</FacilityId>
          </ShipFromLocationInfo>
        </SenderInfo>
        <TransactionDate>2015-06-01</TransactionDate>
        <OrderCancelled>true</OrderCancelled>
        <ReasonCode>ORDER_CANCELLED</ReasonCode>
      </VoidShipmentRequest>
    </urn:VoidShipment>
  </soapenv:Body>
</soapenv:Envelope>
```

¹true

²ORDER_CANCELLED

³Customer cancelled order.

```

        <ReasonText>Order cancelled by customer.</ReasonText>
    </VoidShipmentRequest>
</urn:VoidShipment>
</soapenv:Body>
</soapenv:Envelope>

```

Errors

Exception Code	Exception Message
DELIVERY_NUMBER_MISSING	Delivery number must be specified for Void Shipment transaction.
INVALID_ORDER_CANCELED_STATUS	Delivery [Delivery Number]: The Order Cancelled field must be true or false.
INVALID_REASON_CODE	Delivery [Delivery Number]: A valid void reason [Reason] must be specified.
INVALID_SERIAL_NUMBER_STATUS	Delivery [Delivery Number]: The serial numbers for the specified deliver must be in a Commissioned - Shipped state.
INVALID_SHIPMENT_STATUS	Delivery [Delivery Number]: Shipment transaction for specified delivery number has not been submitted.
NO_SHIPMENT_FOUND_FOR_COMPANY	Delivery [Delivery Number]: No shipment found for specified delivery number in specified company [CompanyID].
NO_SHIPMENT_FOUND_FOR_LOCATION	Delivery [Delivery Number]: No shipment found for specified delivery number in specified location [LocationID].
REASON_CODE_MISSING	Delivery [Delivery Number]: A void reason must be specified.
INVALID_RECEIPT_STATUS	Delivery [Delivery Number]: Receipt transaction for specified delivery number is not present in the system.
INVALID_SERIAL_NUMBER_STATUS_RECEIPT	Delivery [Delivery Number]: The serial numbers for the specified delivery must be in a Commissioned - Available or Commissioned - Pending Receipt state when Delivery Direction is Received.
DELIVERY_NUMBER_DUPLICATE	Operation could not be performed because multiple deliveries with the delivery number [DELIVERY NUMBER] were found in the system. Please provide additional details (SoldFromParty and ShipFromLocation) to fetch the intended delivery and perform the operation.
NO_RECEIPT_FOUND_FOR_LOCATION	Delivery [Delivery Number]: No receipt found for specified delivery number in specified location [LocationID].
NO_RECEIPT_FOUND_FOR_COMPANY	Delivery [Delivery Number]: No receipt found for specified delivery number in specified company [CompanyID].
INVALID_DIRECTION_DIRECTION	Delivery [Delivery Number]: A Delivery Direction must be specified.

Void Shipment Response

Guidelines

The following data is included in the message response:

Data Element						Occurs Length	Type	Description
S:Envelope						1...1 -	-	Required. SOAP Envelope root element.
	S:Body					1...1 -	-	Required. SOAP Message Body.
		ns2:VoidShipmentResponse				1...1 -	-	Required. Void Shipment Response Message.
			TLResponse			1...1 -	-	Required. Response.
				Success		0...1 -	-	Indicates if Void Shipment processing succeeds. ¹
				ExceptionReturn		0...1 -	-	Populated with error information only if Success = false , otherwise omitted.
					CallException	1...* -	-	Required. Contains error details.
					ExceptionCode	0...1 0/*	String	Required. Error code.
					ExceptionMessage	0...1 0/*	String	Message that further describes error condition.

Example (Success)

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:VoidShipmentResponse xmlns:ns2="urn:tracelink:soap" xmlns:ns3="http://tracelink.com/som">
```

¹true

```

    <TLResponse>
      <Success>true</Success>
    </TLResponse>
  </ns2:VoidShipmentResponse>
</S:Body>
</S:Envelope>

```

Example (Error)

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:VoidShipmentResponse xmlns:ns2="urn:tracelink:soap" xmlns:ns3="http://tracelink.com/som">
      <TLResponse>
        <Success>false</Success>
        <ExceptionReturn>
          <CallException>
            <ExceptionCode>INVALIDDELIVERYNUMBER</ExceptionCode>
            <ExceptionMessage>Invalid delivery number. Delivery number not found.</ExceptionMessage>
          </CallException>
        </ExceptionReturn>
      </TLResponse>
    </ns2:VoidShipmentResponse>
  </S:Body>
</S:Envelope>

```


Customs clearance

Customs clearance APIs

Why do I use these messages?

Use these messages to record that a customs agency has approved items for import to Russia and provide supporting documentation.

Which report do these messages generate?

These messages generate the [335 - FTS Data](#) report in the Russia Compliance application if their contents meet the report conditions.

Country Clearance (XML)

Guidelines

Message Type: SOM_COUNTRY_CLEARANCE

Info Exchange Display Name: Country Clearance

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

Data Element			Occurs Length	Type	Description
som:SOMCountryClearanceMessage			1...1 -	-	Required. Transaction root element.
	som:ControlFileHeader		1...1 -	-	Required. The message document's header information.
		cmn:FileSenderNumber	1...1 1/20	String	Required. The company identifier of the file's sender. ¹

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Data Element			Occurs Length	Type	Description
		cmn:FileReceiverNumber	1...1 1/20	String	Required. The company identifier of the file's recipient. ¹
		cmn:FileControlNumber	1...1 1/*	String	Required. The message's unique file control ID number. A file control ID number is mandatory for all messages. ²
		cmn:FileDate	1...1 1/*	Date	Required. The date that the message is sent in YYYY-MM-DD format. Date and times must be in GMT. ³
		cmn:FileTime	1...1 1/*	Time	Required. Time file generated in XML in HH:MM:SSZ format. The system expects the Z to be appended; however, if it is not included, the system assumes that the time is GMT and therefore appends the Z . ⁴
		som:MessageBody	1...1 -	-	Required. Country Clearance message details.
		cmn:EventDateTime	1...1 0/*	DateTime	Required. Timestamp of date and time of the product release with the UTC time zone indicator in XML YYYY-MM-DDTHH:MM:SS.nnZ format.
		cmn:EventTimeZoneOffset	0...1 6/6	String	Event time zone offset. Default value is +00:00 if the source is not populated.
		cmn:ClearanceType	1...1 0/*	String	Required. Identifies the clearance type. ⁵ See the ClearanceType enumeration list for valid values.
		cmn:ImportFromCountry	1...1 1/*	String	Required. Country the product is being imported from using the standard two-letter abbreviation specified in ISO 3166-1 alpha-2:1997 country code. ⁶ See the ISOCountryCode enumeration list for valid values.
		cmn:ImportToCountry	1...1 1/*	String	Required. Country the product is being imported into using the standard two-letter abbreviation specified in ISO 3166-1 alpha-2:1997 country code. ⁷ See the ISOCountryCode enumeration list for valid values.
		cmn:RegistrationDate	0...1	Date	Conditionally required if cmn:ClearanceType = CUSTOMS . Registration date in YYYY-MM-DD XML date format. ⁸

¹8888882028677²20190821063132³2019-08-21⁴06:31:32Z⁵CUSTOMS⁶FR⁷RU⁸2019-05-14

Data Element						Occurs Length	Type	Description
		cmn:CustomsAuthorityCode				0...1 0/*	String	Conditionally required if cmn:ClearanceType = CUSTOMS . Customs authority code. ¹
		cmn:DeclarationReleaseNumber				0...1 0/*	String	Conditionally required if cmn:ClearanceType = CUSTOMS . Declaration release number for product. ²
		cmn:ActionCode				0...1 0/*	String	Conditionally required if cmn:ClearanceType = CUSTOMS . Action code. ³ See the ActionCode enumeration list for valid values.
		cmn:EventLocation				0...1 0/*	String	Required. Business or location identifier for the entity that is importing the products.
		cmn:EventLocationType				0...1 0/*	String	Required. Business or location identifier type for the entity that is importing the products. See the BusinessAndLocationId enumeration list for valid values.
		cmn:ImportingPartyId				1...1 1/*	String	Required. Importing party identifier. ⁴
			@type			1...1 -	String	Required. Importing party identifier type. ⁵ See the BusinessAndLocationId enumeration list for valid values.
		cmn:ItemList				0...1 -	-	Conditionally required if both cmn:HomogeneousContainersList and cmn:HeterogeneousContainersList are not populated. List of items. Each item is a single product of loose items (e.g. sampled serial numbers).
			cmn:Items			1... *	-	Required. Products that are being imported. One item will be present for each unique product.
				cmn:NumberList		1...1 -	-	Required. Contains the list of serial numbers of eaches.
					cmn:Serial	1... *	String	Required. The serial number being imported. Serial number is expressed in the GS1 Application Identifier format without parentheses for the AI keys. AI(01) (21) formatted serial number for GTINs. ⁶

¹201960876²198765³DOMESTIC⁴0333331013655⁵GLN⁶015088202501033321100000060001

Data Element					Occurs Length	Type	Description
				cmn:CustomsValue	0...1 -	Decimal	Conditionally required if cmn:ClearanceType = CUSTOMS . Per unit customs cost for each order item in order item list. ¹
				@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ²
				cmn:TransactionIdentifier	0...* 0/*	String	The transaction identifier associated with the country clearance. ³
				@type	1...1 1/*	String	Required. The transaction identifier type. ⁴ See the ClearanceTransactionId enumeration list for valid values.
				@date	1...1 -	Date	Required. Transaction date attribute in YYYY-MM-DD format. ⁵
				cmn:HomogeneousContainersList	0...1 -	-	Conditionally required if both cmn:HomogeneousContainersList and cmn:HeterogeneousContainersList are not populated. List of homogeneous containers. Each container represents one or more batches of the same product.
				cmn:HomogeneousContainer	1...* -	-	Required. Cases or pallets containing the same product.
				cmn:NumberList	1...1 -	-	Required. Contains the list of serial numbers of eaches.
				cmn:Serial	1...* 1/*	String	Required. Contains the serial number or numbers that are being imported. Serial number expressed in the GS1 Application Identifier format without parenthesis for the AI keys. AI(01)(21) formatted serial number for GTINs. ⁶
				cmn:CustomsValue	0...1 0/*	Decimal	Conditionally required if cmn:ClearanceType = CUSTOMS . Per unit customs cost for each order item in order item list. ⁷  Mandatory if cmn:ClearanceType = "CUSTOMS".

¹1976.00²RUB³9876987321⁴CERTIFICATECONFORMITY⁵2019-05-12⁶015088202501033321100000060010⁷1976.00

Data Element						Occurs Length	Type	Description
					@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ¹
				cmn:TransactionIdentifier		0...* 0/*	String	The transaction identifier associated with the country clearance. ²
					@type	1...1 1/*	String	Required. The transaction identifier type. ³ See the ClearanceTransactionId enumeration list for valid values.
					@date	1...1 -	Date	Required. Transaction date attribute. ⁴
		cmn:HeterogeneousContainersList				0...1 -	-	Conditionally required if both cmn:ItemList and cmn:HomogeneousContainersList are not populated. List of heterogeneous containers. Each container is a case or pallet with different products inside.
			cmn:HeterogeneousContainer			1...* -	-	Required. Case or pallet containing a mix of different products.
				cmn:Serial		1...1 1/*	String	Required. Contains the serial number or numbers that are being imported. Serial number expressed in the GS1 Application Identifier format without parentheses for the AI keys. AI(01)(21) formatted serial number for GTINs. ⁵
				cmn:ContainerContents		1...* -	-	Required. Contents of heterogeneous containers.
					cmn:PackagingItemCode	1...1 1/*	String	Required. The packaging level item code (e.g. GTIN-14, CN-ResCode) associated with the serialized items that are being imported. ⁶
					@type	1...1 1/*	String	Required. The product code type for the packaging item code. ⁷ See the ItemCode enumeration list for valid values.
					cmn:LotNumber	1...1 1/*	String	Required. The lot number associated with the specified serial numbers used to identify the serial numbers that are being updated. ⁸

¹RUB²9876987324³CERTIFICATECONFORMITY⁴2019-05-12⁵01508820250103321100000060021⁶00882025030223⁷GTIN-14⁸ABC123

Data Element						Occurs Length	Type	Description
					cmn:CustomsValue	0...1 0/*	Decimal	Conditionally required if cmn:ClearanceType = CUSTOMS . Per unit customs cost for each order item in order item list. ¹
					@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ²
					cmn:TransactionIdentifier	0...* 0/*	String	The transaction identifier(s) associated with the country clearance, if available. ³
					@type	1...1 1/*	String	Required. The transaction identifier type. ⁴ See the ClearanceTransactionId enumeration list for valid values.
					@date	1...1 -	Date	Required. Transaction date attribute. ⁵

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<som:SOMCountryClearanceMessage xmlns:som="urn:tracelink:mapper:sl:serialized_operations_manager"
xmlns:cmn="urn:tracelink:mapper:sl:commontypes">
  <som:ControlFileHeader>
    <cmn:FileSenderNumber>8888882028644</cmn:FileSenderNumber>
    <cmn:FileReceiverNumber>8888882028677</cmn:FileReceiverNumber>
    <cmn:FileControlNumber>20130821065245</cmn:FileControlNumber>
    <cmn:FileDate>19-09-20</cmn:FileDate>
    <cmn:FileTime>06:52:45.02</cmn:FileTime>
  </som:ControlFileHeader>
  <som:MessageBody>
    <cmn:EventDateTime>2019-09-20T06:30:32.12</cmn:EventDateTime>
    <cmn:EventTimeZoneOffset>+04:02</cmn:EventTimeZoneOffset>
    <cmn:ClearanceType>CUSTOMS</cmn:ClearanceType>
    <cmn:ImportFromCountry>FR</cmn:ImportFromCountry>
    <cmn:ImportToCountry>RU</cmn:ImportToCountry>
  </som:MessageBody>
</som:SOMCountryClearanceMessage>
```

¹1976.00²RUB³9876987327⁴CERTIFICATECONFORMITY⁵2019-05-12

```

<cmn:RegistrationDate>2019-09-20</cmn:RegistrationDate>
<cmn:CustomsAuthorityCode>201960876</cmn:CustomsAuthorityCode>
<cmn:DeclarationReleaseNumber>198765</cmn:DeclarationReleaseNumber>
<cmn:ActionCode>REEXPORT</cmn:ActionCode>
<cmn:EventLocation>0333331013655</cmn:EventLocation>
<cmn:EventLocationType>GCP</cmn:EventLocationType>
<cmn:ImportingPartyId type="GLN">0333331013655</cmn:ImportingPartyId>
<cmn:ItemList>
  <cmn:Items>
    <cmn:NumberList>
      <cmn:Serial>015088202501033321100000060001</cmn:Serial>
      <cmn:Serial>015088202501033321100000060002</cmn:Serial>
      <cmn:Serial>015088202501033321100000060003</cmn:Serial>
      <cmn:Serial>015088202501033321100000060004</cmn:Serial>
      <cmn:Serial>015088202501033321100000060005</cmn:Serial>
      <cmn:Serial>015088202501033321100000060006</cmn:Serial>
      <cmn:Serial>015088202501033321100000060007</cmn:Serial>
      <cmn:Serial>015088202501033321100000060008</cmn:Serial>
      <cmn:Serial>015088202501033321100000060009</cmn:Serial>
    </cmn:NumberList>
    <cmn:CustomsValue currencyCode="RUB">1976.00</cmn:CustomsValue>
    <cmn:TransactionIdentifier type="CERTIFICATECONFORMITY" date="2019-07-01">9876987321</cmn:TransactionIdentifier>
    <cmn:TransactionIdentifier type="DECLARATIONCONFORMITY" date="2019-10-04">7777222</cmn:TransactionIdentifier>
  </cmn:Items>
  <cmn:Items>
    <cmn:NumberList>
      <cmn:Serial>015088202501033321100000060011</cmn:Serial>
      <cmn:Serial>015088202501033321100000060012</cmn:Serial>
      <cmn:Serial>015088202501033321100000060013</cmn:Serial>
      <cmn:Serial>015088202501033321100000060014</cmn:Serial>
      <cmn:Serial>015088202501033321100000060015</cmn:Serial>
      <cmn:Serial>015088202501033321100000060016</cmn:Serial>
      <cmn:Serial>015088202501033321100000060017</cmn:Serial>
      <cmn:Serial>015088202501033321100000060018</cmn:Serial>
      <cmn:Serial>015088202501033321100000060019</cmn:Serial>
    </cmn:NumberList>
    <cmn:CustomsValue currencyCode="RUX">1976.00</cmn:CustomsValue>
    <cmn:TransactionIdentifier type="CERTIFICATECONFORMITY" date="2019-09-

```

```

20">9876987321</cmn:TransactionIdentifier>
    <cmn:TransactionIdentifier type="DECLARATIONCONFORMITY" date="2019-10-
21">7777222</cmn:TransactionIdentifier>
    </cmn:Items>
    <cmn:Items>
        <cmn:NumberList>
            <cmn:Serial>015088202501033321100000060021</cmn:Serial>
            <cmn:Serial>015088202501033321100000060022</cmn:Serial>
        </cmn:NumberList>
        <cmn:CustomsValue currencyCode="USD">2000.00</cmn:CustomsValue>
        <cmn:TransactionIdentifier type="CERTIFICATECONFORMITY" date="2019-01-
11">9876982222</cmn:TransactionIdentifier>
        </cmn:Items>
    </cmn:ItemList>
    <cmn:HomogeneousContainersList>
        <cmn:HomogeneousContainer>
            <cmn:NumberList>
                <cmn:Serial>015088202501033321100000060010</cmn:Serial>
                <cmn:Serial>015088202501033321100000060012</cmn:Serial>
                <cmn:Serial>015088202501033321100000060013</cmn:Serial>
                <cmn:Serial>015088202501033321100000060014</cmn:Serial>
                <cmn:Serial>015088202501033321100000060015</cmn:Serial>
                <cmn:Serial>015088202501033321100000060016</cmn:Serial>
                <cmn:Serial>015088202501033321100000060017</cmn:Serial>
                <cmn:Serial>015088202501033321100000060018</cmn:Serial>
                <cmn:Serial>015088202501033321100000060019</cmn:Serial>
            </cmn:NumberList>
            <cmn:CustomsValue currencyCode="RUB">1976.00</cmn:CustomsValue>
            <cmn:TransactionIdentifier type="CERTIFICATECONFORMITY" date="2019-09-
20">9876987322</cmn:TransactionIdentifier>
            <cmn:TransactionIdentifier type="DECLARATIONCONFORMITY" date="2019-11-
11">774784</cmn:TransactionIdentifier>
            </cmn:HomogeneousContainer>
        <cmn:HomogeneousContainer>
            <cmn:NumberList>
                <cmn:Serial>015088202501033321100000060030</cmn:Serial>
                <cmn:Serial>015088202501033321100000060032</cmn:Serial>
                <cmn:Serial>015088202501033321100000060033</cmn:Serial>
            </cmn:NumberList>
            <cmn:CustomsValue currencyCode="RUB">111</cmn:CustomsValue>

```

```

    <cmn:TransactionIdentifier type="CERTIFICATECONFORMITY" date="2019-09-
20">9876987322</cmn:TransactionIdentifier>
  </cmn:HomogeneousContainer>
  <cmn:HomogeneousContainer>
    <cmn:NumberList>
      <cmn:Serial>015088202501033321100000060040</cmn:Serial>
      <cmn:Serial>015088202501033321100000060042</cmn:Serial>
      <cmn:Serial>015088202501033321100000060043</cmn:Serial>
      <cmn:Serial>015088202501033321100000060044</cmn:Serial>
    </cmn:NumberList>
    <cmn:CustomsValue currencyCode="USD">5500.76</cmn:CustomsValue>
    <cmn:TransactionIdentifier type="DECLARATIONCONFORMITY" date="2019-11-
11">774784</cmn:TransactionIdentifier>
    <cmn:TransactionIdentifier type="CERTIFICATECONFORMITY" date="2019-09-
20">7322</cmn:TransactionIdentifier>
    </cmn:HomogeneousContainer>
  </cmn:HomogeneousContainersList>
  <cmn:HeterogeneousContainersList>
    <cmn:HeterogeneousContainer>
      <cmn:Serial>015088202501033321100000060020</cmn:Serial>
      <cmn:ContainerContents>
        <cmn:PackagingItemCode type="GTIN-14">00882025030223</cmn:PackagingItemCode>
        <cmn:LotNumber>ABC123</cmn:LotNumber>
        <cmn:CustomsValue currencyCode="RUB">1976.00</cmn:CustomsValue>
        <cmn:TransactionIdentifier type="CERTIFICATECONFORMITY" date="2019-09-
20">9876987323</cmn:TransactionIdentifier>
        <cmn:TransactionIdentifier type="DECLARATIONCONFORMITY" date="2019-12-
12">121211</cmn:TransactionIdentifier>
      </cmn:ContainerContents>
    </cmn:HeterogeneousContainer>
    <cmn:ContainerContents>
      <cmn:PackagingItemCode type="CN-RESCODE">999999999</cmn:PackagingItemCode>
      <cmn:LotNumber>HKHYT45792</cmn:LotNumber>
      <cmn:CustomsValue currencyCode="RUB">777</cmn:CustomsValue>
      <cmn:TransactionIdentifier type="CERTIFICATECONFORMITY" date="2019-09-
20">444987323</cmn:TransactionIdentifier>
      <cmn:TransactionIdentifier type="DECLARATIONCONFORMITY" date="2019-12-
12">121211</cmn:TransactionIdentifier>
    </cmn:ContainerContents>
  </cmn:HeterogeneousContainer>
</cmn:HeterogeneousContainer>

```

```

    <cmn:Serial>015088202501033321100000060021</cmn:Serial>
    <cmn:ContainerContents>
      <cmn:PackagingItemCode type="GTIN-14">00882025030223</cmn:PackagingItemCode>
      <cmn:LotNumber>ABC123</cmn:LotNumber>
      <cmn:CustomsValue currencyCode="USD">1976.00</cmn:CustomsValue>
      <cmn:TransactionIdentifier type="CERTIFICATECONFORMITY" date="2019-09-
20">9876987323</cmn:TransactionIdentifier>
    </cmn:ContainerContents>
  </cmn:HeterogeneousContainer>
  <cmn:HeterogeneousContainer>
    <cmn:Serial>015088202501033321100000060022</cmn:Serial>
    <cmn:ContainerContents>
      <cmn:PackagingItemCode type="GTIN-14">00882025030223</cmn:PackagingItemCode>
      <cmn:LotNumber>ABC123</cmn:LotNumber>
      <cmn:CustomsValue currencyCode="USD">1976.00</cmn:CustomsValue>
      <cmn:TransactionIdentifier type="DECLARATIONCONFORMITY" date="2019-09-
20">9777</cmn:TransactionIdentifier>
    </cmn:ContainerContents>
  </cmn:HeterogeneousContainer>
  <cmn:HeterogeneousContainer>
    <cmn:Serial>015088202501033321100000060023</cmn:Serial>
    <cmn:ContainerContents>
      <cmn:PackagingItemCode type="GTIN-14">00882025030223</cmn:PackagingItemCode>
      <cmn:LotNumber>ABC123</cmn:LotNumber>
      <cmn:CustomsValue currencyCode="RUZ">4444</cmn:CustomsValue>
      <cmn:TransactionIdentifier type="CERTIFICATECONFORMITY" date="2019-09-
20">9876987323</cmn:TransactionIdentifier>
    </cmn:ContainerContents>
  </cmn:HeterogeneousContainer>
</cmn:HeterogeneousContainersList>
</som:MessageBody>
</som:SOMCountryClearanceMessage>

```

Errors

Data Element	Error Message	Description
Class 1		

Data Element	Error Message	Description
cmn:ClearanceType	Valid clearance type code is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
cmn:ImportFromCountry	Valid import from country is required !!!	The error occurs if the source is greater than 2 characters, or is empty or null.
cmn:ImportToCountry	Valid import to country is required !!!	The error occurs if the source is greater than 2 characters, or is empty or null.
cmn:RegistrationDate	Registration date is required !!!	The error occurs if cmn:ClearanceType = "CUSTOMS", but the source is empty or null.
cmn:CustomsAuthorityCode	Customs authority code is required !!!	The error occurs if cmn:ClearanceType = "CUSTOMS", but the source is empty or null.
cmn:DeclarationReleaseNumber	Declaration release number is required !!!	The error occurs if cmn:ClearanceType = "CUSTOMS", but the source is empty or null.
cmn:ActionCode	Valid action code is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
cmn:EventLocation	Event location in the country clearance event is required !!!	The error occurs if the source is empty or null.
cmn:EventLocationType	Valid event location type is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
cmn:ImportingPartyId	Importing party identifier is required !!!	The error occurs if the source is empty or null.
cmn:ImportingPartyId @type	Valid importing party identifier type is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
cmn:ItemList	At least one of Item List, Homogeneous Containers List, or Heterogeneous Containers List is required !!!	The error occurs if cmn:ItemList, cmn:HomogeneousContainersList, and cmn:HeterogeneousContainersList are all empty or null.
cmn:Items cmn:NumberList cmn:Serial	Serial number is required if itemList is present !!!	The error occurs if the source is empty or null.
cmn:Items cmn:CustomsValue	Customs value is required !!!	The error occurs if cmn:ClearanceType = "CUSTOMS", but the source is empty or null.
cmn:Items cmn:CustomsValue @currencyCode	Valid currency code for customs value is required !!!	The error occurs if the source is less than 3 characters, or is empty or null.
cmn:Items cmn:TransactionIdentifier @type	Valid transaction identifier type is required !!!	The error occurs if cmn:TransactionIdentifier is populated, but the source is either not a valid value from the enumeration list or is empty or null.

Data Element	Error Message	Description
cmn:Items cmn:TransactionIdentifier @date	Transaction date is required !!!	The error occurs if the source is empty or null.
cmn:HomogeneousContainersList	At least one of Item List, Homogeneous Containers List, or Heterogeneous Containers List is required !!!	The error occurs if cmn:ItemList, cmn:HomogeneousContainersList, and cmn:HeterogeneousContainersList are all empty or null.
cmn:HomogeneousContainer cmn:NumberList cmn:Serial	Serial number is required if homogeneousContainersList is present !!!	The error occurs if the source is empty or null.
cmn:HomogeneousContainer cmn:CustomsValue	Customs value is required !!!	The error occurs if cmn:ClearanceType = "CUSTOMS", but the source is empty or null.
cmn:HomogeneousContainer cmn:CustomsValue @currencyCode	Valid currency code for customs value is required !!!	The error occurs if the source is less than 3 characters, or is empty or null.
cmn:HomogeneousContainer cmn:TransactionIdentifier @type	Valid transaction identifier type is required !!!	The error occurs if cmn:TransactionIdentifier is populated, but the source is either not a valid value from the enumeration list or is empty or null.
cmn:HomogeneousContainer cmn:TransactionIdentifier @date	Transaction date is required !!!	The error occurs if the source is empty or null.
cmn:HeterogeneousContainersList	At least one of Item List, Homogeneous Containers List, or Heterogeneous Containers List is required !!!	The error occurs if cmn:ItemList, cmn:HomogeneousContainersList, and cmn:HeterogeneousContainersList are all empty or null.
cmn:HeterogeneousContainer cmn:Serial	Serial number is required if heterogeneousContainersList is present !!!	The error occurs if the source is empty or null.
cmn:HeterogeneousContainer cmn:ContainerContents cmn:PackagingItemCode	Packaging item code is required !!!	The error occurs if the source is empty or null.
cmn:HeterogeneousContainer cmn:ContainerContents cmn:PackagingItemCode @type	Valid packaging item code type required if packagingItemCode is populated !!!	The error occurs if cmn:PackagingItemCode is populated, but the source is either not a valid value from the enumeration list or is empty or null.
cmn:HeterogeneousContainer cmn:ContainerContents cmn:LotNumber	Lot number is required !!!	The error occurs if the source is empty or null.
cmn:HeterogeneousContainer cmn:ContainerContents cmn:CustomsValue	Customs value is required !!!	The error occurs if cmn:clearanceType = "CUSTOMS", but the source is empty or null.
cmn:HeterogeneousContainer cmn:ContainerContents cmn:CustomsValue @currencyCode	Valid currency code for customs value is required !!!	The error occurs if the source is less than 3 characters, or is empty or null.
cmn:HeterogeneousContainer cmn:ContainerContents cmn:TransactionIdentifier @type	Valid transaction identifier type is required !!!	The error occurs if cmn:transactionIdentifier is populated, but the source is either not a valid value from the enumeration list or is empty or null.
cmn:HeterogeneousContainer cmn:ContainerContents	Transaction date is required !!!	The error occurs if the source is empty or null.

Data Element	Error Message	Description
cmn:TransactionIdentifier @date		
Class 2		
cmn:Serial	Serial Number <SerialNumber> does not exist.	The error occurs if the serial number does not exist in TraceLink.
	Serial Number <Serial> was never commissioned.	The error occurs if the status of the serial number is not commissioned or registered.
	Serial Number <Serial> is repeated in the transaction. All serial numbers should appear only once.	The error occurs if a serial number appears multiple times in this message.
cmn:Items cmn:NumberList cmn:Serial	All serial numbers per row must belong to the same product (GTIN).	The error occurs if loose item serial numbers do not belong to the same product.
	Loose Item Serial Numbers must be in GTIN (01) (21) format.	The error occurs if a loose item serial number is not in GTIN(01)(21) format.
	Serial Number <Serial> is not disaggregated from parent serial number.	The error occurs if a loose item serial number is aggregated to a parent serial number.
	Serial Number <Serial> has Packaging Level of <PackagingLevel>. Loose Item serial numbers must have Packaging Level of Each.	The error occurs if a loose item serial number is not at the "each" packaging level.
cmn:HomogeneousContainer cmn:NumberList cmn:Serial	Serial Numbers for pallets and cases must be in SSCC (00) format.	The error occurs if serial numbers are not in SSCC(00) format.
	Container Serial Number <Serial> contains items that belong to multiple products or lots. This container must be entered as a Mixed Container	The error occurs if the serial number includes different products or lots instead of a single product or lot.
cmn:HeterogeneousContainer cmn:Serial	Serial Numbers for pallets and cases must be in SSCC (00) format.	The error occurs if serial numbers are not in SSCC(00) format.
cmn:PackagingItemCode	Packaging Code <PackagingCode> does not exist.	The error occurs if the packaging code is not a GTIN.
cmn:PackagingItemCode, cmn:LotNumber	Container Serial Number <Serial> must include country clearance information for each unique product within the container. The following items are missing from this transaction: <list of packaging code-Lot Number combinations that are missing>	The error occurs if the heterogeneous container contains a Packaging Item Code and Lot Number combination that is not included in the message.
cmn:PackagingItemCode, cmn:LotNumber	Lot <Packaging Code - Lot Number> in heterogeneous container serial number <serial> cannot appear multiple times in the container	The error occurs if the Packaging Item Code and Lot Number combination is repeated in this message within a single heterogeneous container serial number.
cmn:PackagingItemCode, cmn:LotNumber	Item <Packaging Code - Lot Number> does not exist in container serial number <Serial>	The error occurs if the Packaging Item Code and Lot Number combination does not exist in the heterogeneous container.

Data Element	Error Message	Description
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

Country Clearance (EPCIS v1.2)

Guidelines

Message Type: SOM_COUNTRY_CLEARANCE

Info Exchange Display Name: Country Clearance

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

Data Element	Occurs Length	Type	Description
epcis:EPCISDocument	1...1 -	-	Required. EPCIS message root element.
@schemaVersion	1...1 0/*	Decimal	Required. The version of the EPCIS schema used to populate the EPCIS document elements. Must equal 1.2. ¹
@creationDate	1...1 1/*	DateTime	Required. Date the message was created in YYYY-MM-DDTHH:MM:SS:mmZ format. ²
EPCISHeader	0...1 -	-	Required. The XML file control header.
sbdh:StandardBusinessDocumentHeader	1...1 -	-	Required. Business header information including EPCIS Header Version, Sender, and Receiver information, along with the document identification.

¹1.2

²2018-04-30T22:08:02Z

Data Element				Occurs Length	Type	Description
			sbdh:HeaderVersion	1...1 0/*	String	Required. Version of the Standard Business Document Header (SBDH). The HeaderVersion must be set to 1.0 . ¹
			sbdh:Sender	1...* -	-	Required. A unique identification key for the Sender party of the message, representing the organization that created the standard business document. The Sender element must be used only once with GS1 XML messages.
			sbdh:Identifier	1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type.² Send SGLN and all other party types with the GS1-conformant uri prefix. For example: - urn:epc:id:sgln:088202.867701.0 - http://epcis.gs1us.org/hc/dea/loc/10023141 See the MDPartyTypeAttributes enumeration list for valid values.  GLNs do not have an urn/http prefix.
			@Authority	1...1 1/*	String	Required. The sender identifier type. The Authority was previously expected to be set to GLN for GS1 XML messages. An update made in December 2016 changed this to accept additional values.³ See the MDPartyTypeEnums enumeration list for valid values.
			sbdh:Receiver	1...* -	-	Required. Indicates a unique identification key for the direct Receiver party of the message, representing the organization that receives the standard business document. The Receiver element is used only once with GS1 XML messages.
			sbdh:Identifier	1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type.⁴ Send SGLN and all other party types with the GS1-conformant uri prefix. For example: - urn:epc:id:sgln:088202.867701.0 - http://epcis.gs1us.org/hc/dea/loc/10023141 See the MDPartyTypeAttributes enumeration list for valid values.

¹1.0²1100001014507³GLN⁴0614141123452

Data Element					Occurs Length	Type	Description
							 GLNs do not have an urn/http prefix.
				@Authority	1...1 1/*	String	Required. The receiver identifier type. The Authority was previously expected to be set to "GLN" for GS1 XML messages. An update made in December 2016 changed this to accept additional values. ¹ See the MDPartyTypeEnums enumeration list for valid values.
			sbdh:DocumentIdentification		1...1 -	-	Required. Contains the identification group for the message.
				sbdh:Standard	1...1 0/*	String	Required. Name of the document standard contained in the file or message. The standard value for this field is EPCglobal . ²
				sbdh:TypeVersion	1...1 0/*	String	Required. Reflects the version of the document included. This is the complete version of the document itself and is different from the HeaderVersion as these are hard-coded values. The TypeVersion is set to 1.0 . ³
				sbdh:InstanceIdentifier	1...1 1/*	String	Required. Reference information that uniquely identifies this instance of the Standard Business Document between the Sender and the Receiver. This identifier confirms this document as being distinct from others. ⁴
				sbdh:Type	1...1 0/*	String	Required. The document type. The Type value is set to Events for a commission event. ⁵
				sbdh:CreationDateAndTime	1...1 0/*	DateTime	Required. The date and time of the SBDH document's creation. GMT create date and time for the EPCIS message. The system expects the Z to be appended; however, if it is not included, the system assumes that the time is GMT and therefore appends the Z . ⁶
	EPCISBody				1...1 -	-	Required. Contains all of the EPCIS events for this message.
		EventList			1...1 -	-	Required. EventList must include one or more instances of ObjectEvent for country clearance.

¹GLN²EPCglobal³1.0⁴000001⁵Events⁶2018-04-30T22:08:02Z

Data Element					Occurs Length	Type	Description
				ObjectEvent	1...* -	-	Required. The ObjectEvent indicates the message type. Indicates a country clearance event when: action = OBSERVE bizStep = urn:epcglobal:cbv:bizstep:inspecting disposition = http://epcis.tracelink.com/disp/cleared_customs
				eventTime	1...1 1/*	DateTime	Required. The time stamp of the date/time when the event occurred in YYYY-MM-DDTHH:MM:SS.mm or YYYY-MM-DDTHH:MM:SS.mmm format. Must include a time zone indicator as specified in Section 9.5 of [EPCIS1.0.1]. The system expects the Z to be appended if it is not included; however, the system assumes that the time is GMT and therefore appends the Z. ¹
				eventTimeZoneOffset	1...1 1/*	String	Required. The time zone offset in the place where the event occurred, consistent with what choice was made for eventTime. Per Section 7.2.8 of [EPCIS1.0.1]. ²
				epcList	1...1 -	-	This element group is not mapped. Send an empty tag (<epcList/>). Serial numbers are mapped from the tl:itemList , tl:homogeneousContainersList , and tl:heterogeneousContainersList element groups in tl:countryClearanceEventExtensions .
				action	1...1 0/*	String	Required. The action type of the event. This value must equal OBSERVE . ³
				bizStep	0...1 0/*	AnyURI	Required. The business step taken in the event. This value must equal urn:epcglobal:cbv:bizstep:inspecting . ⁴
				disposition	0...1 0/*	AnyURI	Required. The status of the message. This value must equal http://epcis.tracelink.com/disp/cleared_customs . ⁵
				readPoint	0...1 -	-	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN or a more granular location identifier. For country clearance, this is the importing party identifier.
				id	1...1 0/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN or a finer-grain location identifier. For country clearance, this is the importing party identifier. ⁶ See the MDPartyTypeAttributes enumeration list for valid values.

¹2018-04-30T22:08:02Z²-04:00³OBSERVE⁴urn:epcglobal:cbv:bizstep:inspecting⁵http://epcis.tracelink.com/disp/cleared_customs⁶urn:epc:id:sgln:7777776.67345.0

Data Element					Occurs Length	Type	Description
				tl:countryClearanceEventExtensions	0...1 -	-	Main extension body.
				tl:clearanceType	1...1 1/*	String	Required. Identifies the clearance type. ¹ See the ClearanceType enumeration list for valid values.
				tl:importFromCountry	1...1 1/*	String	Required. Country the product is being imported from using the standard two-letter abbreviation specified in ISO 3166-1 alpha-2:1997 country code. ² See the ISOCountryCode enumeration list for valid values.
				tl:importToCountry	1...1 1/*	String	Required. Country the product is being imported into using the standard two-letter abbreviation specified in ISO 3166-1 alpha-2:1997 country code. ³ See the ISOCountryCode enumeration list for valid values.
				tl:registrationDate	0...1 0/*	Date	Conditionally required if tl:clearanceType = CUSTOMS . Registration date in YYYY-MM-DD XML date format. ⁴
				tl:customsAuthorityCode	0...1 0/*	String	Conditionally required for Russia if tl:clearanceType = CUSTOMS . Customs authority code. ⁵
				tl:declarationReleaseNumber	0...1 0/*	String	Conditionally required for Russia if tl:clearanceType = CUSTOMS . Declaration release number for product. ⁶
				tl:actionCode	0...1 0/*	String	Conditionally required for Russia if tl:clearanceType = CUSTOMS . Action code. ⁷ See the ActionCode enumeration list for valid values.
				tl:importingPartyId	1...1 1/*	String	Required. Importing party identifier. ⁸
				@type	1...1 1/*	String	Required. Importing party identifier type. ⁹ See the BusinessAndLocationId enumeration list for valid values.

¹CUSTOMS²FR³RU⁴2019-05-14⁵201960876⁶198765⁷DOMESTIC⁸0333331013655⁹GLN

Data Element						Occurs Length	Type	Description
					tl:itemList	0...1 -	-	Conditionally required if both tl:homogeneousContainersList and tl:heterogeneousContainersList are not populated. List of items. Each item is a single product of loose items (e.g. sampled serial numbers).
					tl:items	1...* -	-	Required. Products that are being imported. One item will be present for each unique product.
					tl:numberList	1...1 1/*	String	Required. Contains the list of serial numbers of eaches.
					tl:serial	1...* 1/*	String	Required. The serial number being imported. Serial number is expressed in the GS1 Application Identifier format without parentheses for the AI keys. AI(01)(21) formatted serial number for GTINs. ¹
					tl:customsValue	0...1 -	Decimal	Conditionally required if tl:clearanceType = CUSTOMS . Per unit customs cost for each order item in order item list. ²
					@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ³ See the ISOCurrency enumeration list for valid values.
					tl:transactionIdentifier	0...* 0/*	String	The transaction identifier associated with the country clearance. ⁴
					@type	1...1 1/*	String	Required. The transaction identifier type. ⁵ See the ClearanceTransactionId enumeration list for valid values.
					@date	1...1 -	Date	Required. Transaction date attribute in YYYY-MM-DD format. ⁶
					tl:homogeneousContainersList	0...1 -	-	Conditionally required if both tl:itemList and tl:heterogeneousContainersList are not populated. List of homogeneous containers. Each container represents one or more batches of the same product.
					tl:homogeneousContainer	1...* -	-	Required. Cases or pallets containing the same product.
					tl:numberList	1...1	String	Required. Contains the list of serial numbers of eaches.

¹015088202501033321100000060001²1976.00³RUB⁴9876987321⁵CERTIFICATECONFORMITY⁶2019-05-12

Data Element								Occurs Length	Type	Description
							tl:serial	1...* 1/*	String	Required. Contains the serial number or numbers that are being imported. Serial number expressed in the GS1 Application Identifier format without parenthesis for the AI keys. AI(01)(21) formatted serial number for GTINs. ¹
							tl:customsValue	0...1 0/*	Decimal	Conditionally required if tl:clearanceType = CUSTOMS . Per unit customs cost for each order item in order item list. ²
							@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ³ See the ISOCurrency enumeration list for valid values.
							tl:transactionIdentifier	0...* 0/*	String	The transaction identifier associated with the country clearance. ⁴
							@type	1...1 1/*	String	Required. The transaction identifier type. ⁵ See the ClearanceTransactionId enumeration list for valid values.
							@date	1...1 -	Date	Required. Transaction date attribute. ⁶
							tl:heterogeneousContainersList	0...1 -	-	Conditionally required if both tl:itemList and tl:homogeneousContainersList are not populated. List of heterogeneous containers. Each container is a case or pallet with different products inside.
							tl:heterogeneousContainer	1...* -	-	Required. Case or pallet containing a mix of different products.
							tl:serial	1...1 1/*	String	Required. Contains the serial number or numbers that are being imported. Serial number expressed in the GS1 Application Identifier format without parentheses for the AI keys. AI(00) formatted serial numbers for SSCCs. ⁷
							tl:containerContents	1...* -	-	Required. Contents of heterogeneous containers.

¹015088202501033321100000060010²1976.00³RUB⁴9876987324⁵CERTIFICATECONFORMITY⁶2019-05-12⁷00508820250103332110

Data Element								Occurs Length	Type	Description
							tl:packagingItemCode	1...1 1/*	String	Required. The packaging level item code (e.g. GTIN-14, CN-ResCode) associated with the serialized items that are being imported. ¹
							@type	1...1 1/*	String	Required. The product code type for the packaging item code. ² See the ItemCode enumeration list for valid values.
							cbvmda:lotNumber	1...1 1/*	String	Required. The lot number associated with the specified serial numbers used to identify the serial numbers that are being updated. ³
							tl:customsValue	0...1 0/*	Decimal	Required. Per unit customs cost for each order item in order item list. ⁴
							@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ⁵ See the ISOCurrency enumeration list for valid values.
							tl:transactionIdentifier	0...* 0/*	String	The transaction identifier(s) associated with the country clearance, if available. ⁶
							@type	1...1 1/*	String	Required. The transaction identifier type. ⁷ See the ClearanceTransactionId enumeration list for valid values.
							@date	1...1 -	Date	Required. Transaction date attribute. ⁸

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
xmlns:tl="http://epcis.tracelink.com/ns" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader" schemaVersion="1.2"
creationDate="2019-05-15T17:45:20.00Z">
  <EPCISHeader>
```

¹00882025030223

²GTIN-14

³ABC123

⁴1976.00

⁵RUB

⁶9876987327

⁷CERTIFICATECONFORMITY

⁸2019-05-12

```

<sbdh:StandardBusinessDocumentHeader>
  <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
  <sbdh:Sender>
    <sbdh:Identifier Authority="GLN">0882028677019</sbdh:Identifier>
  </sbdh:Sender>
  <sbdh:Receiver>
    <sbdh:Identifier Authority="GLN">0333331013655</sbdh:Identifier>
  </sbdh:Receiver>
  <sbdh:DocumentIdentification>
    <sbdh:Standard>EPCglobal</sbdh:Standard>
    <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
    <sbdh:InstanceIdentifier>201901311745200001</sbdh:InstanceIdentifier>
    <sbdh:Type>Events</sbdh:Type>
    <sbdh:CreationDateAndTime>2019-05-15T17:45:20.00Z</sbdh:CreationDateAndTime>
  </sbdh:DocumentIdentification>
</sbdh:StandardBusinessDocumentHeader>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <ObjectEvent>
      <eventTime>2019-05-15T00:12:23.8307Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList/>
      <action>OBSERVE</action>
      <bizStep>urn:epcglobal:cbv:bizstep:inspecting</bizStep>
      <disposition>http://epcis.tracelink.com/disp/cleared_customs</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:7777776.67345.0</id>
      </readPoint>
      <tl:countryClearanceEventExtensions>
        <tl:clearanceType>CUSTOMS</tl:clearanceType>
        <tl:importFromCountry>FR</tl:importFromCountry>
        <tl:importToCountry>RU</tl:importToCountry>
        <tl:registrationDate>2019-07-14</tl:registrationDate>
        <tl:customsAuthorityCode>201960876</tl:customsAuthorityCode>
        <tl:declarationReleaseNumber>198765</tl:declarationReleaseNumber>
        <tl:actionCode>EXPORT</tl:actionCode>
        <tl:importingPartyId type="BR_CNES">0333331013655</tl:importingPartyId>
        <tl:itemList>
          <tl:items>

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        <tl:numberList>
          <tl:serial>015088202501033321100000060001</tl:serial>
          <tl:serial>015088202501033321100000060002</tl:serial>
          <tl:serial>015088202501033321100000060003</tl:serial>
          <tl:serial>015088202501033321100000060004</tl:serial>
          <tl:serial>015088202501033321100000060005</tl:serial>
        </tl:numberList>
        <tl:customsValue currencyCode="RUB">1976.00</tl:customsValue>
        <tl:transactionIdentifier type="CERTIFICATECONFORMITY" date="2019-07-
12">9876987321</tl:transactionIdentifier>
        <tl:transactionIdentifier type="DECLARATIONCONFORMITY" date="2019-07-
12">4875986412</tl:transactionIdentifier>
      </tl:items>
      <tl:items>
        <tl:numberList>
          <tl:serial>015088202501033321100000060006</tl:serial>
          <tl:serial>015088202501033321100000060007</tl:serial>
          <tl:serial>015088202501033321100000060008</tl:serial>
          <tl:serial>015088202501033321100000060009</tl:serial>
          <tl:serial>015088202501033321100000060010</tl:serial>
        </tl:numberList>
        <tl:customsValue currencyCode="RUB">1976.00</tl:customsValue>
        <tl:transactionIdentifier type="CERTIFICATECONFORMITY" date="2019-07-
12">9876987322</tl:transactionIdentifier>
        <tl:transactionIdentifier type="DECLARATIONCONFORMITY" date="2019-07-
12">4875986413</tl:transactionIdentifier>
      </tl:items>
    </tl:itemList>
    <tl:homogeneousContainersList>
      <tl:homogeneousContainer>
        <tl:numberList>
          <tl:serial>015088202501033321100000060011</tl:serial>
          <tl:serial>015088202501033321100000060012</tl:serial>
          <tl:serial>015088202501033321100000060013</tl:serial>
          <tl:serial>015088202501033321100000060014</tl:serial>
          <tl:serial>015088202501033321100000060015</tl:serial>
        </tl:numberList>
        <tl:customsValue currencyCode="RUB">1976.00</tl:customsValue>
        <tl:transactionIdentifier type="CERTIFICATECONFORMITY" date="2019-07-
12">9876987324</tl:transactionIdentifier>

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        <tl:transactionIdentifier type="DECLARATIONCONFORMITY" date="2019-07-
12">4875986415</tl:transactionIdentifier>
    </tl:homogeneousContainer>
    <tl:homogeneousContainer>
        <tl:numberList>
            <tl:serial>015088202501033321100000060016</tl:serial>
            <tl:serial>015088202501033321100000060017</tl:serial>
            <tl:serial>015088202501033321100000060018</tl:serial>
            <tl:serial>015088202501033321100000060019</tl:serial>
            <tl:serial>015088202501033321100000060020</tl:serial>
        </tl:numberList>
        <tl:customsValue currencyCode="RUB">1976.00</tl:customsValue>
        <tl:transactionIdentifier type="CERTIFICATECONFORMITY" date="2019-07-
12">9876987326</tl:transactionIdentifier>
        <tl:transactionIdentifier type="DECLARATIONCONFORMITY" date="2019-07-
12">4875986417</tl:transactionIdentifier>
    </tl:homogeneousContainer>
</tl:homogeneousContainersList>
<tl:heterogeneousContainersList>
    <tl:heterogeneousContainer>
        <tl:serial>urn:epc:id:sscc:030944.10105363280</tl:serial>
        <tl:containerContents>
            <tl:packagingItemCode type="GTIN-14">00882025030223</tl:packagingItemCode>
            <cbvmda:lotNumber>ABC123</cbvmda:lotNumber>
            <tl:customsValue currencyCode="RUB">1976.00</tl:customsValue>
            <tl:transactionIdentifier type="CERTIFICATECONFORMITY" date="2019-07-
12">9876987327</tl:transactionIdentifier>
            <tl:transactionIdentifier type="DECLARATIONCONFORMITY" date="2019-07-
12">4875986418</tl:transactionIdentifier>
        </tl:containerContents>
    </tl:heterogeneousContainer>
    <tl:heterogeneousContainer>
        <tl:serial>urn:epc:id:sscc:030944.10105363281</tl:serial>
        <tl:containerContents>
            <tl:packagingItemCode type="GTIN-14">00882025030233</tl:packagingItemCode>
            <cbvmda:lotNumber>ABC456</cbvmda:lotNumber>
            <tl:customsValue currencyCode="RUB">1976.00</tl:customsValue>
            <tl:transactionIdentifier type="CERTIFICATECONFORMITY" date="2019-07-
12">9876988327</tl:transactionIdentifier>
            <tl:transactionIdentifier type="DECLARATIONCONFORMITY" date="2019-07-

```

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12">4875987418</tl:transactionIdentifier>
    </tl:containerContents>
</tl:heterogeneousContainer>
<tl:heterogeneousContainer>
    <tl:serial>urn:epc:id:sscc:030944.10105363282</tl:serial>
    <tl:containerContents>
        <tl:packagingItemCode type="GTIN-14">00882025030244</tl:packagingItemCode>
        <cbvmda:lotNumber>ABC789</cbvmda:lotNumber>
        <tl:customsValue currencyCode="RUB">1976.00</tl:customsValue>
        <tl:transactionIdentifier type="CERTIFICATECONFORMITY" date="2019-07-
12">9876987328</tl:transactionIdentifier>
            <tl:transactionIdentifier type="DECLARATIONCONFORMITY" date="2019-07-
12">4875986419</tl:transactionIdentifier>
                </tl:containerContents>
            </tl:heterogeneousContainer>
        </tl:heterogeneousContainersList>
    </tl:countryClearanceEventExtensions>
</ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

Errors

Data Element	Error Message	Description
Class 1		
action	Action OBSERVE is required for country clearance event !!!	The error occurs if the source does not equal "OBSERVE".
bizStep	bizStep urn:epcglobal:cbv:bizstep:inspecting is required for country clearance event !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:inspecting".
disposition	Disposition http://epcis.tracelink.com/disp/cleared_customs is required for country clearance event !!!	The error occurs if the source does not equal "http://epcis.tracelink.com/disp/cleared_customs".
readPoint	Valid readPoint identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Event location in the country clearance event is required !!!	The error occurs if the source is empty or null.
tl:clearanceType	Valid clearance type code is required !!!	The error occurs if the source is empty or null, or is not a valid value

Data Element	Error Message	Description
		from the enumeration list.
tl:importFromCountry	Valid import from country is required !!!	The error occurs if the source is not 2 characters, or is empty or null.
tl:importToCountry	Valid import to country is required !!!	The error occurs if the source is not 2 characters, or is empty or null.
tl:registrationDate	Registration date is required !!!	The error occurs if tl:clearanceType = "CUSTOMS", but the source is empty or null.
tl:actionCode	Valid action code is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
tl:importingPartyId	Importing party identifier is required !!!	The error occurs if the source is empty or null.
tl:importingPartyId @type	Valid importing party identifier type is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
tl:items	At least one of Item List, Homogeneous Containers List, or Heterogeneous Containers List is required !!!	The error occurs if tl:itemList, tl:homogeneousContainersList, and tl:heterogeneousContainersList are all empty or null.
tl:items tl:numberList tl:serial	Serial number is required if itemList is present !!!	The error occurs if the source is empty or null.
tl:items tl:customsValue	Customs value is required !!!	The error occurs if tl:clearanceType = "CUSTOMS", but the source is empty or null.
tl:items tl:customsValue @currencyCode	Valid currency code for customs value is required !!!	The error occurs if the source is less than 3 characters, or is empty or null.
tl:items tl:transactionIdentifier @type	Valid transaction identifier type is required !!!	The error occurs if tl:transactionIdentifier is populated, but the source is either not a valid value from the enumeration list or is empty or null.
tl:items tl:transactionIdentifier @date	Transaction date is required !!!	The error occurs if the source is empty or null.
tl:homogeneousContainer	At least one of Item List, Homogeneous Containers List, or Heterogeneous Containers List is required !!!	The error occurs if tl:itemList, tl:homogeneousContainersList, and tl:heterogeneousContainersList are all empty or null.
tl:homogeneousContainer tl:numberList tl:serial	Serial number is required if homogeneousContainersList is present !!!	The error occurs if the source is empty or null.
tl:homogeneousContainer tl:customsValue	Customs value is required !!!	The error occurs if tl:clearanceType = "CUSTOMS", but the source is empty or null.
tl:homogeneousContainer tl:customsValue @currencyCode	Valid currency code for customs value is required !!!	The error occurs if the source is less than 3 characters, or is empty or null.
tl:homogeneousContainer tl:transactionIdentifier @type	Valid transaction identifier type is required !!!	The error occurs if tl:transactionIdentifier is populated, but the source is

Data Element	Error Message	Description
		either not a valid value from the enumeration list or is empty or null.
tl:homogeneousContainer tl:transactionIdentifier @date	Transaction date is required !!!	The error occurs if the source is empty or null.
tl:heterogeneousContainer	At least one of Item List, Homogeneous Containers List, or Heterogeneous Containers List is required !!!	The error occurs if tl:itemList, tl:homogeneousContainersList, and tl:heterogeneousContainersList are all empty or null.
tl:heterogeneousContainer tl:serial	Serial number is required if heterogeneousContainersList is present !!!	The error occurs if the source is empty or null.
tl:heterogeneousContainer tl:containerContents tl:packagingItemCode	Packaging item code is required !!!	The error occurs if the source is empty or null.
tl:heterogeneousContainer tl:containerContents tl:packagingItemCode @type	Valid packaging item code type required if packagingItemCode is populated !!!	The error occurs if tl:packagingItemCode is populated, but the source is either not a valid value from the enumeration list or is empty or null.
tl:heterogeneousContainer tl:containerContents cbvmda:lotNumber	Lot number is required !!!	The error occurs if the source is empty or null.
tl:heterogeneousContainer tl:containerContents tl:customsValue	Customs value is required !!!	The error occurs if tl:clearanceType = "CUSTOMS", but the source is empty or null.
tl:heterogeneousContainer tl:containerContents tl:customsValue @currencyCode	Valid currency code for customs value is required !!!	The error occurs if the source is less than 3 characters, or is empty or null.
tl:heterogeneousContainer tl:containerContents tl:transactionIdentifier @type	Valid transaction identifier type is required !!!	The error occurs if tl:transactionIdentifier is populated, but the source is either not a valid value from the enumeration list or is empty or null.
tl:heterogeneousContainer tl:containerContents tl:transactionIdentifier @date	Transaction date is required !!!	The error occurs if the source is empty or null.
Class 2		
tl:serial	Serial Number <SerialNumber> does not exist.	The error occurs if the serial number does not exist in TraceLink.
	Serial Number <Serial> was never commissioned.	The error occurs if the status of the serial number is not commissioned or registered.
	Serial Number <Serial> is repeated in the transaction. All serial numbers should appear only once.	The error occurs if a serial number appears multiple times in this message.
tl:items tl:numberList tl:serial	All serial numbers per row must belong to the same product (GTIN).	The error occurs if loose item serial numbers do not belong to the same product.
	Loose Item Serial Numbers must be in GTIN (01) (21) format.	The error occurs if a loose item serial number is not in GTIN(01)(21) format.

Data Element	Error Message	Description
	Serial Number <Serial> is not disaggregated from parent serial number.	The error occurs if a loose item serial number is aggregated to a parent serial number.
	Serial Number <Serial> has Packaging Level of <PackagingLevel>. Loose Item serial numbers must have Packaging Level of Each.	The error occurs if a loose item serial number is not at the "each" packaging level.
tl:homogeneousContainer tl:numberList tl:serial	Serial Numbers for pallets and cases must be in SSCC (00) format.	The error occurs if serial numbers are not in SSCC(00) format.
	Container Serial Number <Serial> contains items that belong to multiple products or lots. This container must be entered as a Mixed Container	The error occurs if the serial number includes different products or lots instead of a single product or lot.
tl:heterogeneousContainer tl:serial	Serial Numbers for pallets and cases must be in SSCC (00) format.	The error occurs if serial numbers are not in SSCC(00) format.
tl:packagingItemCode	Packaging Code <PackagingCode> does not exist.	The error occurs if the packaging code is not a GTIN.
tl:packagingItemCode, tl:lotNumber	Container Serial Number <Serial> must include country clearance information for each unique product within the container. The following items are missing from this transaction: <list of packaging code-Lot Number combinations that are missing>	The error occurs if the heterogeneous container contains a Packaging Item Code and Lot Number combination that is not included in the message.
tl:packagingItemCode, tl:lotNumber	Lot <Packaging Code - Lot Number> in heterogeneous container serial number <serial> cannot appear multiple times in the container	The error occurs if the Packaging Item Code and Lot Number combination is repeated in this message within a single heterogeneous container serial number.
tl:packagingItemCode, tl:lotNumber	Item <Packaging Code - Lot Number> does not exist in container serial number <Serial>	The error occurs if the Packaging Item Code and Lot Number combination does not exist in the heterogeneous container.
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

ESM Country Clearance (EPCIS v1.2)

Guidelines

Message Type: SOM_ESM_COUNTRY_CLEARANCE

Info Exchange Display Name: ESM Country Clearance

❗ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

Data Element					Occurs Length	Type	Description
epcis:EPCISDocument					1...1 -	-	Required. EPCIS message root element.
	@schemaVersion				1...1 0/*	Decimal	Required. The version of the EPCIS schema used to populate the EPCIS document elements. Must equal 1.2.1 .
	@creationDate				1...1 1/*	DateTime	Required. Date the message was created in YYYY-MM-DDTHH:MM:SS:mmZ format. ²
EPCISHeader					0...1 -	-	Required. The XML file control header.
	sbdh:StandardBusinessDocumentHeader				1...1 -	-	Required. Business header information including EPCIS Header Version, Sender, and Receiver information, along with the document identification.
		sbdh:HeaderVersion			1...1 0/*	String	Required. Version of the Standard Business Document Header (SBDH). The HeaderVersion must be set to 1.0.3 .
		sbdh:Sender			1... *	-	Required. A unique identification key for the Sender party of the message, representing the organization that created the standard business document. The Sender element must be used only once with GS1 XML messages.
			sbdh:Identifier		1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type. ⁴ Send SGLN and all other party types with the GS1-conformant uri prefix, for example: - urn:epc:id:sgln:088202.867701.0 - http://epcis.gs1us.org/hc/dea/loc/10023141  GLNs do not have an urn/http prefix.

¹1.2²2016-12-18T22:08:02Z³1.0⁴1100001014507

Data Element					Occurs Length	Type	Description
							See the MDPartyTypeAttributes enumeration list for valid values.
				@Authority	1...1 1/*	String	Required. The sender identifier type. The Authority was previously expected to be set to GLN for GS1 XML messages. An update made in December 2016 changed this to accept additional values. ¹ See the MDPartyTypeEnums enumeration list for valid values.
			sbdh:Receiver		1...* -	-	Required. Indicates a unique identification key for the direct Receiver party of the message, representing the organization that receives the standard business document. The Receiver element is used only once with GS1 XML messages.
			sbdh:Identifier		1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type. ² Send SGLN and all other party types with the GS1-conformant uri prefix, for example: - urn:epc:id:sgln:088202.867701.0 - http://epcis.gs1us.org/hc/dea/loc/10023141  GLNs do not have an urn/http prefix. See the MDPartyTypeAttributes enumeration list for valid values.
				@Authority	1...1 1/*	String	Required. The receiver identifier type. The Authority was previously expected to be set to "GLN" for GS1 XML messages. An update made in December 2016 changed this to accept additional values. ³ See the MDPartyTypeEnums enumeration list for valid values.
			sbdh:DocumentIdentification		1...1 -	-	Required. Contains the identification group for the message.
			sbdh:Standard		1...1 0/*	String	Required. Name of the document standard contained in the file or message. The standard value for this field is EPCglobal . ⁴
			sbdh:TypeVersion		1...1 0/*	String	Required. Reflects the version of the document included. This is the complete version of the document itself and is different from the HeaderVersion as these are hard-coded values. The TypeVersion is set to 1.0 . ⁵

¹GLN²0614141123452³GLN⁴EPCglobal⁵1.0

Data Element					Occurs Length	Type	Description
				sbdh:InstanceIdentifier	1...1 1/*	String	Required. Reference information that uniquely identifies this instance of the Standard Business Document between the Sender and the Receiver. This identifier confirms this document as being distinct from others. ¹
				sbdh:Type	1...1 0/*	String	Required. Identifies the document type. The Type value is set to "Events" for a shipment event. ²
				sbdh:CreationDateAndTime	1...1 0/*	DateTime	Required. The date and time of the SBDH document's creation. GMT create date and time for the EPCIS message. The system expects the Z to be appended; however, if it is not included, the system assumes that the time is GMT and therefore appends the Z .
	EPCISBody				1...1 -	-	Required. Contains all of the EPCIS events for this message.
	EventList				1...1 -	-	Required. The EventList must include one or more Object Events for country clearance.
				ObjectEvent	1...* -	-	Required. The ObjectEvent indicates the message type. Indicates a country clearance event when: • action = OBSERVE • bizStep = urn:epcglobal:cbv:bizstep:inspecting • disposition = http://epcis.tracelink.com/disp/cleared_customs
				eventTime	1...1 1/*	DateTime	Required. The time stamp of the date/time when the event occurred in YYYY-MM-DDTHH:MM:SS.mm or YYYY-MM-DDTHH:MM:SS.mmm format. Must include a time zone indicator as specified in Section 9.5 of [EPCIS1.0.1]. The system expects the Z to be appended if it is not included, however, the system assumes that the time is GMT and therefore appends the Z . ³
				eventTimeZoneOffset	1...1 1/*	String	Required. The time zone offset in the place where the event occurred, consistent with what choice was made for eventTime. A time offset is an amount of time subtracted from or added to UTC (Coordinated Universal Time) to get the current civil time, whether it is standard time or Daylight saving time. Per Section 7.2.8 of [EPCIS1.0.1]. ⁴
				epcList	1...1 -	-	This element group is not mapped. Send an empty tag (i.e. <epcList/>). Serial numbers are mapped from the tl:itemList , tl:homogeneousContainersList , and tl:heterogeneousContainersList element groups in tl:countryClearanceEventExtensions .

¹201609201745200001²Events³2018-04-30T22:08:02Z⁴-04:00

Data Element					Occurs Length	Type	Description
				action	1...1 0/*	String	Required. The action type of the event. This value must equal OBSERVE . ¹
				bizStep	0...1 0/*	AnyURI	Required. The business step taken in the event. This value must equal urn:epcglobal:cbv:bizstep:inspecting . ²
				disposition	0...1 0/*	AnyURI	Required. Indicates the status of the message. This value must equal http://epcis.tracelink.com/disp/cleared_customs . ³
				readPoint	0...1 -	-	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN or a more granular location identifier. For country clearance, this is the importing party identifier.
				id	1...1 0/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN or a more granular location identifier. For country clearance, this is the importing party identifier. ⁴ See the MDPartyTypeAttributes enumeration list for valid values.
				tl:countryClearanceEventExtensions	0...1 -	-	Main extension body.
				tl:clearanceType	1...1 1/*	String	Required. Identifies the clearance type. ⁵ See the ClearanceType enumeration list for valid values.
				tl:importFromCountry	1...1 1/*	String	Required. Country the product is being imported from using the standard two-letter abbreviation specified in ISO 3166-1 alpha-2:1997 country code. ⁶
				tl:importToCountry	1...1 1/*	String	Required. Country the product is being imported into using the standard two-letter abbreviation specified in ISO 3166-1 alpha-2:1997 country code. ⁷
				tl:registrationDate	0...1 0/*	Date	Conditionally required if tl:clearanceType = CUSTOMS . Registration date in YYYY-MM-DD XML date format. ⁸
				tl:customsAuthorityCode	0...1	String	Conditionally required for Russia if tl:clearanceType = CUSTOMS . Customs authority code. ⁹

¹OBSERVE²urn:epcglobal:cbv:bizstep:inspecting³http://epcis.tracelink.com/disp/cleared_customs⁴urn:epc:id:sgln:7777776.67345.0⁵CUSTOMS⁶FR⁷RU⁸2019-05-14⁹201960876

Data Element						Occurs Length	Type	Description
					tl:declarationReleaseNumber	0...1 0/*	String	Conditionally required for Russia if tl:clearanceType = CUSTOMS . Declaration release number for product. ¹
					tl:actionCode	0...1 0/*	String	Conditionally required for Russia if tl:clearanceType = CUSTOMS . Action code. ² See the ActionCode enumeration list for valid values.
					tl:importingPartyId	1...1 1/*	String	Required . Importing party identifier. ³
					@type	1...1 1/*	String	Required . Importing party identifier type. ⁴ See the BusinessAndLocationId enumeration list for valid values.
					tl:itemList	0...1 -	-	Conditionally required if both tl:homogeneousContainersList and tl:heterogeneousContainersList are not present. List of items. Each item is a single product of loose items (e.g. sampled serial numbers).
					tl:items	1...* -	-	Required . Products that are being imported. One item will be present for each unique product.
					tl:numberList	1...1 1/*	String	Required . Contains the list of serial numbers of eaches.
					tl:serial	1...1 1/*	String	Required . The serial number being imported. Serial number is expressed in the GS1 Application Identifier format without parentheses for the AI keys. AI(01) (21) formatted serial number for GTINs. ⁵
					tl:customsValue	1...1 -	Decimal	Required . Per unit customs cost for each order item in order item list. ⁶
					@currencyCode	1...1 3/3	String	Required . Currency ISO code using ISO 4217-2015 format. ⁷ See the ISOCurrency enumeration list for valid values.
					tl:transactionIdentifier	1...* 0/*	String	Required . The transaction identifier associated with the country clearance. ⁸

¹198765²DOMESTIC³0333331013655⁴GLN⁵015088202501033321100000060001⁶1976.00⁷RUB⁸9876987321

Data Element								Occurs Length	Type	Description
							@type	1...1 1/*	String	Required. The transaction identifier type. ¹ See the ClearanceTransactionId enumeration list for valid values.
							@date	1...1 -	Date	Required. Transaction date attribute in YYYY-MM-DD format. ²
					tl:homogeneousContainersList			0...1 -	-	Conditionally required if both tl:itemList and tl:heterogeneousContainersList are not present. List of homogeneous containers. Each container represents one or more batches of the same product.
					tl:homogeneousContainer			1...* -	-	Required. Cases or pallets containing the same product.
						tl:numberList		1...1 1/*	String	Required. Contains the list of serial numbers of cases or pallets.
							tl:serial	1...* 1/*	String	Required. Contains the serial number or numbers that are being imported. Serial number expressed in the GS1 Application Identifier format without parenthesis for the AI keys. AI(00) formatted serial number for SSCCs. ³
						tl:customsValue		1...1 0/*	Decimal	Required. Per unit customs cost for each order item in order item list. ⁴
							@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ⁵ See the ISOCurrency enumeration list for valid values.
						tl:transactionIdentifier		1...* 0/*	String	Required. The transaction identifier associated with the country clearance. ⁶
							@type	1...1 1/*	String	Required. The transaction identifier type. ⁷ See the ClearanceTransactionId enumeration list for valid values.
							@date	1...1 -	Date	Required. Transaction date attribute. ⁸

¹CERTIFICATECONFORMITY²2019-05-12³00138526195501000048⁴1976.00⁵RUB⁶9876987324⁷CERTIFICATECONFORMITY⁸2019-05-12

Data Element						Occurs Length	Type	Description
					tl:heterogeneousContainersList	0...1 -	-	Conditionally required if both tl:itemList and tl:homogeneousContainersList are not present. List of heterogeneous containers. Every container is a case or pallet with different products inside.
					tl:heterogeneousContainer	1...* -	-	Required. Case or pallet containing a mix of different products.
					tl:serial	1...1 1/*	String	Required. Contains the serial number or numbers that are being imported. Serial number expressed in the GS1 Application Identifier format without parentheses for the AI keys. AI(00) formatted serial number for SSCCs. ¹
					tl:containerContents	1...* -	-	Required. Contents of heterogeneous containers.
					tl:packagingItemCode	1...1 1/*	String	Required. The packaging level item code (e.g. GTIN-14, CN-ResCode) associated with the serialized items that are being imported. ²
					@type	1...1 1/*	String	Required. The product code type for the packaging item code. ³ See the ItemCode enumeration list for valid values.
					cbvmda:lotNumber	1...1 1/*	String	Required. The lot number associated with the specified serial numbers used to identify the serial numbers that are being updated. ⁴
					tl:customsValue	1...1 0/*	Decimal	Required. Per unit customs cost for each order item in order item list. ⁵
					@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ⁶ See the ISOCurrency enumeration list for valid values.
					tl:transactionIdentifier	1...* 0/*	String	Required. The transaction identifier(s) associated with the country clearance, if available. ⁷
					@type	1...1 1/*	String	Required. The transaction identifier type. ⁸ See the ClearanceTransactionId enumeration list for valid values.

¹00138526195501000055²00882025030223³GTIN-14⁴ABC123⁵1976.00⁶RUB⁷9876987327⁸CERTIFICATECONFORMITY

Data Element										Occurs Length	Type	Description
									@date	1...1 -	Date	Required. Transaction date attribute. ¹

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
xmlns:tl="http://epcis.tracelink.com/ns" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader" schemaVersion="1.2"
creationDate="2019-05-15T17:45:20.00Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier Authority="GLN">0882028677019</sbdh:Identifier>
      </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier Authority="GLN">0333331013655</sbdh:Identifier>
      </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>201901311745200001</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2019-05-15T17:45:20.00Z</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
  </EPCISHeader>
  <EPCISBody>
    <EventList>
      <ObjectEvent>
        <eventTime>2019-05-15T00:12:23.8307Z</eventTime>
        <eventTimeZoneOffset>+00:00</eventTimeZoneOffset>
        <epcList/>
        <action>OBSERVE</action>
      </ObjectEvent>
    </EventList>
  </EPCISBody>
</EPCISDocument>
```

¹2019-05-12

```

<bizStep>urn:epcglobal:cbv:bizstep:inspecting</bizStep>
<disposition>https://epcis.tracelink.com/disp/cleared_customs</disposition>
<readPoint>
  <id>urn:epc:id:sgln:7777776.67345.0</id>
</readPoint>
<tl:countryClearanceEventExtensions>
  <tl:clearanceType>CUSTOMS</tl:clearanceType>
  <tl:importFromCountry>FR</tl:importFromCountry>
  <tl:importToCountry>RU</tl:importToCountry>
  <tl:registrationDate>2019-05-14</tl:registrationDate>
  <tl:customsAuthorityCode>201960876</tl:customsAuthorityCode>
  <tl:declarationReleaseNumber>198765</tl:declarationReleaseNumber>
  <tl:actionCode>CUSTOMS</tl:actionCode>
  <tl:itemList>
    <tl:items>
      <tl:numberList>
        <tl:serial>015088202501033321100000060001</tl:serial>
        <tl:serial>015088202501033321100000060002</tl:serial>
        <tl:serial>015088202501033321100000060003</tl:serial>
        <tl:serial>015088202501033321100000060004</tl:serial>
        <tl:serial>015088202501033321100000060005</tl:serial>
      </tl:numberList>
      <tl:customsValue currencyCode="RUB">1976.00</tl:customsValue>
      <tl:transactionIdentifier type="CERTIFICATECONFORMITY" date="2019-05-
12">9876987321</tl:transactionIdentifier>
      <tl:transactionIdentifier type="DECLARATIONCONFORMITY" date="2019-05-
12">4875986412</tl:transactionIdentifier>
    </tl:items>
    <tl:items>
      <tl:numberList>
        <tl:serial>015088202501033321100000060006</tl:serial>
        <tl:serial>015088202501033321100000060007</tl:serial>
        <tl:serial>015088202501033321100000060008</tl:serial>
        <tl:serial>015088202501033321100000060009</tl:serial>
        <tl:serial>015088202501033321100000060010</tl:serial>
      </tl:numberList>
      <tl:customsValue currencyCode="RUB">1976.00</tl:customsValue>
      <tl:transactionIdentifier type="CERTIFICATECONFORMITY" date="2019-05-
12">9876987322</tl:transactionIdentifier>
      <tl:transactionIdentifier type="DECLARATIONCONFORMITY" date="2019-05-

```

```

12">4875986413</tl:transactionIdentifier>
    </tl:items>
  </tl:itemList>
  <tl:homogenousContainersList>
    <tl:homogeneousContainer>
      <tl:numberList>
        <tl:serial>00138526195501000048</tl:serial>
        <tl:serial>00138526195501000049</tl:serial>
        <tl:serial>00138526195501000050</tl:serial>
        <tl:serial>00138526195501000051</tl:serial>
        <tl:serial>00138526195501000052</tl:serial>
      </tl:numberList>
      <tl:customsValue currencyCode="RUB">1976.00</tl:customsValue>
      <tl:transactionIdentifier type="CERTIFICATECONFORMITY" date="2019-05-
12">9876987324</tl:transactionIdentifier>
        <tl:transactionIdentifier type="DECLARATIONCONFORMITY" date="2019-05-
12">4875986415</tl:transactionIdentifier>
          </tl:homogeneousContainer>
          <tl:homogeneousContainer>
            <tl:numberList>
              <tl:serial>00138526195501000055</tl:serial>
              <tl:serial>00138526195501000056</tl:serial>
              <tl:serial>00138526195501000057</tl:serial>
              <tl:serial>00138526195501000058</tl:serial>
              <tl:serial>00138526195501000059</tl:serial>
            </tl:numberList>
            <tl:customsValue currencyCode="RUB">1976.00</tl:customsValue>
            <tl:transactionIdentifier type="CERTIFICATECONFORMITY" date="2019-05-
12">9876987326</tl:transactionIdentifier>
              <tl:transactionIdentifier type="DECLARATIONCONFORMITY" date="2019-05-
12">4875986417</tl:transactionIdentifier>
                </tl:homogeneousContainer>
              </tl:homogenousContainersList>
              <tl:heterogenousContainersList>
                <tl:heterogenousContainer>
                  <tl:serial>00138526195501000095</tl:serial>
                  <tl:containerContents>
                    <tl:packagingItemCode type="GTIN-14">00882025030223</tl:packagingItemCode>
                    <cbvm:lotNumber>ABC123</cbvm:lotNumber>
                    <tl:customsValue currencyCode="RUB">1976.00</tl:customsValue>

```

```

        <tl:transactionIdentifier type="CERTIFICATECONFORMITY" date="2019-05-
12">9876987327</tl:transactionIdentifier>
        <tl:transactionIdentifier type="DECLARATIONCONFORMITY" date="2019-05-
12">4875986418</tl:transactionIdentifier>
        </tl:containerContents>
    </tl:heterogenousContainer>
    <tl:heterogenousContainer>
        <tl:serial>00138526195501000088</tl:serial>
        <tl:containerContents>
            <tl:packagingItemCode type="GTIN-14">00882025030233</tl:packagingItemCode>
            <cbvmda:lotNumber>ABC456</cbvmda:lotNumber>
            <tl:customsValue currencyCode="RUB">1976.00</tl:customsValue>
            <tl:transactionIdentifier type="CERTIFICATECONFORMITY" date="2019-05-
12">9876988327</tl:transactionIdentifier>
            <tl:transactionIdentifier type="DECLARATIONCONFORMITY" date="2019-05-
12">4875987418</tl:transactionIdentifier>
            </tl:containerContents>
        </tl:heterogenousContainer>
        <tl:heterogenousContainer>
            <tl:serial>00138526195501000077</tl:serial>
            <tl:containerContents>
                <tl:packagingItemCode type="GTIN-14">00882025030244</tl:packagingItemCode>
                <cbvmda:lotNumber>ABC789</cbvmda:lotNumber>
                <tl:customsValue currencyCode="RUB">1976.00</tl:customsValue>
                <tl:transactionIdentifier type="CERTIFICATECONFORMITY" date="2019-05-
12">9876987328</tl:transactionIdentifier>
                <tl:transactionIdentifier type="DECLARATIONCONFORMITY" date="2019-05-
12">4875986419</tl:transactionIdentifier>
            </tl:containerContents>
        </tl:heterogenousContainer>
    </tl:heterogenousContainersList>
</tl:countryClearanceEventExtensions>
</ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

Errors

Data Element	Error Message	Description
Class 1		
sbdh:Sender sbdh:Identifier @Authority	Valid Sender/Identifier Authority is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
sbdh:Receiver sbdh:Identifier @Authority	Valid Receiver/Identifier Authority is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
action	Action OBSERVE is required for country clearance event !!!	The error occurs if the source does not equal "OBSERVE".
bizStep	bizStep urn:epcglobal:cbv:bizstep:inspecting is required for country clearance event !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:inspecting".
readPoint	Valid readPoint identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
tl:clearanceType	Valid clearance type code is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
tl:importFromCountry	Valid import from country is required !!!	The error occurs if the source is greater than 2 characters, or is empty or null.
tl:importToCountry	Valid import to country is required !!!	The error occurs if the source is greater than 2 characters, or is empty or null.
tl:registrationDate	Registration date is required !!!	The error occurs if tl:clearanceType = "CUSTOMS", but the source is empty or null.
tl:actionCode	Valid action code is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
tl:importingPartyId	Importing party identifier is required !!!	The error occurs if the source is empty or null.
tl:importingPartyId @type	Valid importing party identifier type is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
tl:items tl:numberList tl:serial	Serial number is required if itemList is present !!!	The error occurs if the source is empty or null.
tl:items tl:customsValue	Customs value is required !!!	The error occurs if the source is empty or null.
tl:items tl:customsValue @currencyCode	Valid currency code for customs value is required !!!	The error occurs if the source is less than 3 characters, or is empty or null.
tl:items tl:transactionIdentifier	Transaction identifier is required !!!	The error occurs if the source is empty or null.

Data Element	Error Message	Description
tl:items tl:transactionIdentifier @type	Valid transaction identifier type is required !!!	The error occurs if tl:transactionIdentifier is populated, but the source is either not a valid value from the enumeration list or is empty or null.
tl:items tl:transactionIdentifier @date	Transaction date is required !!!	The error occurs if the source is empty or null.
tl:homogeneousContainer tl:numberList tl:serial	Serial number is required if homogeneousContainersList is present !!!	The error occurs if the source is empty or null.
tl:homogeneousContainer tl:customsValue	Customs value is required !!!	The error occurs if the source is empty or null.
tl:homogeneousContainer tl:customsValue @currencyCode	Valid currency code for customs value is required !!!	The error occurs if the source is less than 3 characters, or is empty or null.
tl:homogeneousContainer tl:transactionIdentifier	Transaction identifier is required !!!	The error occurs if the source is empty or null.
tl:homogeneousContainer tl:transactionIdentifier @type	Valid transaction identifier type is required !!!	The error occurs if tl:transactionIdentifier is populated, but the source is either not a valid value from the enumeration list or is empty or null.
tl:homogeneousContainer tl:transactionIdentifier @date	Transaction date is required !!!	The error occurs if the source is empty or null.
tl:heterogeneousContainer tl:serial	Serial number is required if heterogeneousContainersList is present !!!	The error occurs if the source is empty or null.
tl:heterogeneousContainer tl:containerContents tl:packagingItemCode	Packaging item code is required !!!	The error occurs if the source is empty or null.
tl:heterogeneousContainer tl:containerContents tl:packagingItemCode @type	Valid packaging item code type required if packagingItemCode is populated !!!	The error occurs if tl:packagingItemCode is populated, but the source is either not a valid value from the enumeration list or is empty or null.
tl:heterogeneousContainer tl:containerContents cbvmda:lotNumber	Lot number is required !!!	The error occurs if the source is empty or null.
tl:heterogeneousContainer tl:containerContents tl:customsValue	Customs value is required !!!	The error occurs if the source is empty or null.
tl:heterogeneousContainer tl:containerContents tl:customsValue @currencyCode	Valid currency code for customs value is required !!!	The error occurs if the source is less than 3 characters, or is empty or null.
tl:heterogeneousContainer tl:containerContents tl:transactionIdentifier	Transaction identifier is required !!!	The error occurs if the source is empty or null.
tl:heterogeneousContainer tl:containerContents tl:transactionIdentifier @type	Valid transaction identifier type is required !!!	The error occurs if tl:transactionIdentifier is populated, but the source is either not a valid value from the enumeration list or is empty or null.
tl:heterogeneousContainer tl:containerContents tl:transactionIdentifier @date	Transaction date is required !!!	The error occurs if the source is empty or null.
Class 2		

Data Element	Error Message	Description
tl:serial	Serial Number <SerialNumber> does not exist.	The error occurs if the serial number does not exist in TraceLink.
	Serial Number <Serial> was never commissioned/registered.	The error occurs if the status of the serial number is not commissioned or registered.
tl:packagingItemCode	Packaging Code <PackagingCode> does not exist.	The error occurs if the packaging code is not a GTIN.
cbvmdata:lotNumber	Lot Number<LotNumber> does not exist for Packaging Code <PackagingCode> .	The error occurs if the specified lot number does not exist for the specified packaging code.
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

8

Receipt

Receipt APIs

Why do I use these messages?

Use the following messages to receive any type delivery (i.e. purchase, return, or transfer) and move the serial numbers from the delivery into inventory.

 Administrators for companies that Own Serialized Operations Manager can configure the app to automatically receive transfer shipments without submitting a receipt message. See the *Administration Online Help* for more information.

Which reports do these messages generate?

These messages generate one of the following reports in the Russia Compliance application if their contents meet the report conditions:

- [701 - Accept](#) (for [603 - Move Owner Notification](#)) – Captures approval of items transferred from the manufacturing CMO to the MAH after the items have been part of a product release.
- [701 - Accept](#) (for [610 - Move Return Notification](#)) – Captures approval of items returned from the Wholesale Distributor to the MAH for the suspended products.
- [701 - Accept](#) (for [613 - Foreign Shipment Notification](#)) – Captures approval of items in a non-consignment direct order sent to the Russia Compliance Owner.
- [332 - Foreign Import](#) – Captures the receipt of serialized items imported to Russia as a non-consignment reverse order.
- [333 - Foreign Import Owner](#) – Captures the receipt of serialized items imported to Russia as an own funds or consignment order.
- [341 - Receive Importer](#) – Captures information about serialized items that are received at a warehouse in Russia after being cleared by customs for distribution.
- [701 - Accept](#) (for [601 - Move Order Notification](#)) – Captures approval of items purchased from or returned to a seller in Russia.

Receipt (XML)

Guidelines

This message allows shipment data to be received in two parts (i.e. shipment information and serial numbers). For example, shipment information can originate from an ERP system and serial numbers from WMS system or 3PL partner.

This message uses the Park and Retry functionality. If a prerequisite condition for this message has not been met, TraceLink stops processing the task, returns the task to the queue, and then tries to process the task again every 15 minutes for up to 2 hours.

Message Type: SOM_RECEIPT

Info Exchange Display Name: Shipment Receipt

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

Data Element			Occurs Length	Type	Description
SOMReceiptMessage			1...1 -	-	Required. The SOMReceiptMessage input is the root element of the Serialized Operations Manager Receipt message. This element contains additional elements/segments that detail the message's header information (e.g. sender, receiver information) as well as the body of the actual message. This is the first element in the document.
	som:ControlFileHeader		1...1 -	-	Required. The message document's header information.
		cmn:FileSenderNumber	1...1 1/20	String	Required. The company identifier of the file's sender. ¹
		cmn:FileReceiverNumber	1...1 1/20	String	Required. The company identifier of the file's recipient. ²
		cmn:FileControlNumber	1...1 1/20	String	Required. The message's unique file control ID number. A file control ID number is mandatory for all messages. ³
		cmn:FileDate	1...1 10/10	Date	Required. The date that the message is sent in YYYY-MM-DD format. Date and times must be in GMT. ⁴
		cmn:FileTime	1...1	Time	Required. Time file generated in XML in HH:MM:SSZ format. The system expects the Z to be

¹8888882028655

²8888882028677

³20130821063132

⁴2013-08-21

Data Element			Occurs Length	Type	Description
					¹
	som:MessageBody		1...1 -	-	Required. The Message Body includes all of the Serialized Operations Manager Receipt message details including, but not restricted to, location, delivery, and order information.
		cmn:LocationId	0..1 0/34	String	Required. The LocationId field specifies the identifier of the facility/warehouse so as to scope the Receipt status update for the serial numbers matching the specified item code and lot number only at the specified location. If the location is omitted, the Receipt status update will be applied globally to all matching serial numbers in the system. ²
		cmn:DeliveryNumber	1...1 1/*	String	Required. This field indicates the DeliveryNumber that links the order information to the serialized pick information for this customer delivery. ³
		cmn:DeliveryCompleteFlag	1...1 1/*	Boolean	Required. This mandatory field supports incremental receipts. If all of the information (e.g. order details, picked serial numbers) are provided in a single message, the delivery complete flag is set to true. Values must be lowercase.⁴ When set to true, the DeliveryCompleteFlag instructs TraceLink to: 1. Process an outbound delivery. 2. Update the status of all serial numbers and sub-child aggregations to be shipped. 3. Trigger generation of regulatory reporting messages based on customer configuration. If only partial information is provided in the message (e.g. only the order details are provided and picked items are sent incrementally) the delivery complete flag is set to false for all intermediate messages. The flag is then set to true when all information has been communicated to TraceLink and the delivery is complete.
		cmn:RegisterUnknownSNs	0..1 0/*	Boolean	Determines whether the serial numbers that are unknown to SOM should be registered. Valid values:⁵ • true – register all serial numbers that do not currently exist in Serialized Operations Manager in an available state. • false – (default) all serial numbers that do not currently exist in Serialized

¹06:31:32Z²8888882028655³4520010⁴true⁵false

Data Element			Occurs Length	Type	Description
					Operations Manager are rejected.
		som:OrderDetails	0...1 -	-	Conditionally required if som:AddReceivedItems is present. The OrderDetails complex message communicates pertinent details such as the business transaction identifiers, date, order item pick list, sender, and recipient information. This element is mandatory before the delivery complete flag can be set. However, it can be communicated at any time (e.g. with, before, or after the picked serial numbers have been communicated).
		cmn:CorrectiveReceipt	0...1 0/*	Boolean	Indicates that a new Serialized Operations Manager receipt is correcting a previously voided Serialized Operations Manager receipt. Valid values: true – The receipt is a corrective receipt. false – (default) The receipt is not a corrective receipt.
		cmn:OriginalDeliveryNumber	0...1 0/*	String	Original delivery number. Records the original delivery number that is replaced when a receipt is voided and corrections are made to that receipt.
		cmn:EntryPort	0...1 0/*	String	Name of the shipment's port of entry into a country (e.g. an airport, maritime port, border checkpoint).
		cmn:ExitPort	0...1 0/*	String	Name of the shipment's port of exit from a country (e.g. an airport, maritime port, border checkpoint).
		cmn:TransactionIdentifier	0...* 0/*	String	Conditionally required for the following countries: The transaction identifier is associated with the picked serial numbers for regulatory reporting purposes. ¹
		@type	1...1 1/*	String	Required. The transaction identifier type. ² See the TransactionId enumeration list for valid values.
		@date	0...1 0/*	Date	Conditionally required if cmn:ShipToCountryCode = RU . The transaction identifier date. ³
		cmn:TransactionDate	1...1 1/*	Date	Required. The date of the transaction in XML YYYY-MM-DD format. This field indicates the date when the transfer of ownership occurred between the shipper and receiver. ⁴

¹PO303005 or D70301²RETURN³2019-03-30⁴2013-08-21

Data Element				Occurs Length	Type	Description
			cmn:TransactionTime	0...1 0/*	Time	The time of the transaction in XML HH:MM:SS format. ¹
			cmn:ShipToCountryCode	1...1 2/2	String	Required. Two-letter ISO country code for ship-to country. This value will be referenced to advise regulatory reporting if it is mandatory for the specified country market. Setting this value alone does not trigger regulatory reporting. The actual trigger for regulatory reporting is governed by customer administrative configuration in the TraceLink application. ² See the ISOCountryCode enumeration list for valid values.
			cmn:ShipFromCountryCode	0...1 2/2	String	Required. Two-letter ISO country code for the ship-from country. This value will be referenced to advise regulatory reporting if it is required for the specified country market. Setting this value alone does not trigger regulatory reporting. Actual triggering of regulatory reporting is governed by customer administrative configuration in the TraceLink application. ³ See the ISOCountryCode enumeration list for valid values.
			cmn:ReceiptDistributionType	0...1 1/*	String	Conditionally required if cmn:ReceiptDistributionType was not provided in a previously saved incomplete or pending receipt for the delivery number. This field indicates which types of regulatory reporting may be triggered based on the nature of the transaction. Can send the ReceiptDistributionType in a previously saved incomplete or pending receipt for the delivery number. See the ReceiptDistributionType enumeration list for valid values.
			cmn:TransferWithoutShipment	0...1 0/*	Boolean	Indicates that the serial numbers are already in an Available state because there is no associated shipment event. Valid values: true – Serial numbers are in the Available state. false (default) – Serial numbers are in the Pending Receipt state. Only use when cmn:ReceiptDistributionType = INCOUNTRYTRANSFER or IMPORTTRANSFER .
			cmn:SupplyType	0...1 0/*	String	Conditionally required if cmn:shipToCountryCode = KR and cmn:ReceiptDistributionType = INCOUNTRYRETURN . Identifies the type of supply that is being performed using one of the permitted values. All values except for Collection apply. See the SupplyType enumeration list for valid values.

¹02:30:55Z²US³US

Data Element				Occurs Length	Type	Description
						 Brazil: populate only if performing a Collection, Donation or SampleDistribution.
			cmn:ContractType	0...1 0/*	String	Conditionally required if cmn:ShipFromCountryCode = KR and cmn:SalesDistributionType = EXPORTSALE or INCOUNTRYSALE. Identifies if a private or competitive bid contract is used for the sale of goods. See the ContractType enumeration list for valid values.
			cmn:Comments	0...1 0/*	String	Optional remarks or comments associated with delivery.
			cmn:ContractNumber	0...1 0/*	String	Identification number of the contract. ¹
			cmn:FundingSource	0...1 0/*	String	Required. Source of the funding. ² See the FundingSource enumeration list for valid values.
			cmn:DeliveryInspection	0...1 0/*	String	The inspection status of the physical delivery against the delivery documentation. See the DeliveryInspection enumeration list for valid values.
			cmn:DeliveryInspectionDate	0...1 10/10	Date	The date of the physical delivery inspection against the delivery documentation in YYYY-MM-DD format. ³
			cmn:DeliveryInspectionNote	0...1 0/*	String	Comments about the physical delivery inspection against the delivery documentation.
			cmn:RemovalFromCirculation	0...1 0/*	String	Reason the product in the delivery is taken out of the supply chain. See the RemovalFromCirculation enumeration list for valid values.
			cmn:AggregationInspection	0...1 0/*	String	The inspection status of the aggregation hierarchy of the container. See the AggregationInspection enumeration list for valid values.
			cmn:OrderItemList	0...1 -	-	Conditionally required if cmn:ShipToCountryCode = KR and ReceiptDistributionType = INCOUNTRYRETURN. Order item list group is populated to communicate the expected pick

¹1234567²FederalBudgetFunds³2021-12-21

Data Element					Occurs Length	Type	Description
							quantities for each item code at the EACH (unit) level. This information is used in verification of the actual serial number picked to verify the correct product, correct lot number (if provided) and correct each quantity.
				cmn:AllowShortVerificationCount	0...1 0/*	Boolean	Allow a short verification count flag. When comparing picked or received serial number counts in the ItemList counts this flag instructs the system to whether an error should be generated if the picked or received counts are less than expected. ¹
				cmn:OrderItem	1...* -	-	Required. Order item group is a repeating element that captures the item code, lot number, and quantity for each item that will be picked for the order. Each unique item code and lot number are communicated in a separate order item group.
				cmn:OrderItemNumber	0...1 0/*	String	Order item number attribute associating specific serial numbers to the price, VAT, and cost taxes reported in a specific instance of cmn:OrderItem .
				choice%1	1...1 -	Choice	Required. Populate only one of cmn:InternalMaterialCode , cmn:PackagingItemCode , or cmn:CountryDrugCode . One of the three options must be present.
				cmn:InternalMaterialCode	0...1 1/*	String	Conditionally required if neither cmn:PackagingItemCode nor cmn:CountryDrugCode is present. Option 1 for choice%1 in cmn:OrderItem . Use to identify the product using the internal material number configured in Product Master Data. ²
				cmn:PackagingItemCode	0...1 1/*	String	Conditionally required if neither cmn:InternalMaterialCode nor cmn:CountryDrugCode is present. Option 2 for choice%1 in cmn:OrderItem . Use to identify the product using the packaging level item code (e.g. GTIN-14) configured in Product Master Data. ³
				@type	0...1 0/*	String	Required. The product code type for the packaging item code using the supported enumeration values. Valid values: • CN-RESCODE • GTIN-14 • NTIN
				cmn:CountryDrugCode	0...1 1/*	String	Conditionally required if neither cmn:InternalMaterialCode nor cmn:PackagingItemCode is present. Option 3 for choice%1 in cmn:OrderItem . Use to identify the product using the country

¹false²100253³00882026030229

Data Element						Occurs Length	Type	Description
								1
					@type	0...1 0/*	String	Required. The national drug code type using the supported enumeration values. ²
					cmn:LotNumber	0...1 0/*	String	The lot or batch code for the items to be picked (if available) in an alphanumeric string. ³
					cmn:ExpirationDate	0...1 1/*	Date	Expiration date of the serialized item, in YYYY-MM-DD format.
					cmn:Quantity	1...1 1/*	Integer	Required. The quantity of items at the EACH (unit) level of the item code and lot if specified to be picked. Quantity must be greater than zero if cmn:IsSerialized = false . ⁴
					cmn:UnitPrice	0...1 -	Decimal	Required. if: Unit price of item. ⁵
					@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. See the ISOCurrency enumeration list for valid values.
					cmn:VAT	0...1 -	Decimal	Value Added Tax per unit. ⁶
					@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ⁷ See the ISOCurrency enumeration list for valid values.
					cmn:GrossPrice	0...1 0/*	Decimal	Price including unit price and all taxes and fees. ⁸
					@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ⁹ See the ISOCurrency enumeration list for valid values.

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Data Element						Occurs Length	Type	Description
					cmn:IsSerialized	0...1 -	Boolean	Indicates if item is not serialized. If omitted, defaults to true . ¹
					cmn:TransactionIdentifier	0...* 0/*	String	Transaction identifier at the line-item level of shipment. More than one transaction identifier may be present. ²
					@type	1...1 1/*	String	Required. The transaction identifier type. Valid values: • DESTRUCTION • INVOICE • NOTAFISCALELETRONICA • OTHER • PO • RETURN
					@date	0...1 0/*	Date	Required. The date of the transaction in XML YYYY-MM-DD format. This value is used for regulatory reporting of the transaction date. ³
			cmn:SenderInfo			0...1 -	-	Required. This message contains information about the supply chain partner that is sending the return shipment. The FromBusinessParty and ShipFromLocation elements determine whether to use master data lookup to populate the address, license, and contact elements. Only one of FromBusinessParty or ShipFromLocation elements may be present at once.
				choice%1		0...1 -	Choice	Option 1 within choice%1 of cmn:SenderInfo contains only the FromBusinessPartyLookupId (in this case, TraceLink will populate all of the FromBusinessPartyInfo field data based on company master data lookup). Populate this element <i>only</i> if no master data lookup is desired. Option 2 within choice%1 of cmn:SenderInfo contains full FromBusinessPartyInfo business address field data that is populated by the customer directly in the interface. Populate this element fully <i>only</i> if no master data lookup is desired.
					cmn:FromBusinessPartyLookupId	0...1 0/*	String	Option 1 for SenderInfo group. The FromBusinessPartyLookupId is a look-up identifier associated with the sold from business entity from the provided enumeration list. Use this value

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Data Element					Occurs Length	Type	Description
							1  This field is optional, but may be used for master data lookup in TraceLink. An error is thrown if both cmn:FromBusinessPartyLookupId and cmn:FromBusinessPartyInfo are populated.
				@type	1...1 1/*	String	Required. The type of the sold from business entity identifier. See the BusinessLookupId enumeration list for valid values.
				cmn:FromBusinessPartyInfo	0...1 1/*	-	Conditionally required if cmn:SenderInfo is present, but cmn:FromBusinessPartyLookupId is not present. This is option 2 within the SenderInfo field. This field contains full FromBusinessPartyInfo business address field data that will be populated by the customer directly in the interface. Populate this element fully only if no master data look-up is desired.
				cmn:BusinessId	1...* 1/*	String	Required. Identifier associated with either the sold from business entity or the sold to business entity. This value is mandatory for regulatory reporting. ²
				@type	1...1 1/*	String	Required. The business id type. See the BusinessAndLocationId enumeration list for valid values.  Only one of the following values may be used per message: - RU_INN_FOREIGN_ENTITY - RU_INN_INDIV - RU_INN_LOCAL_ENTITY
				cmn:BusinessClassification	0...1 0/*	String	Conditionally required : - For Argentina. - If cmn:ShipToCountryCode = KR and cmn:ReceiptDistributionType = INCOUNTRYRETURN. This field classifies the business type of the TraceLink customer or trading partner. See the BusinessClassification enumeration list for valid values.

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Data Element						Occurs Length	Type	Description
					BusinessInfo	0...1 -	-	Conditionally required for the US: Provide all required child data elements. Populated with the business name and address of the sold from business entity.
					cmn:BusinessName	1...1 1/*	String	Required. The business name of the TraceLink Customer or Trading Partner. ¹
					cmn:Street1	1...1 1/*	String	Required. The first line of the street address for the company indicated in cmn:BusinessName . ²
					cmn:Street2	0...1 0/*	String	The second line of the street address for the company indicated in cmn:BusinessName . ³
					cmn:City	1...1 1/*	String	Required. The city of the company indicated in cmn:BusinessName . ⁴
					cmn:Village	0...1 0/*	String	Name of the village in which the company is located.
					cmn:HouseNumber	0...1 0/*	String	Building, house, or unit number of the company. House numbers are usually only separated from the street address in China. For all addresses outside of China, continue to enter the building, house, or unit number in Street1 .
					cmn:Township	0...1 0/*	String	Name of the township in which the company is located.
					cmn:District	0...1 0/*	String	District Code. ⁵ ⓘ Must be a 3-digit numeric code.
					cmn:StateOrRegion	1...1 1/*	String	Required. The standard two-letter abbreviation specified in ISO 3166-2:1998 country subdivision code. The state, province, or region of the company specified in cmn:BusinessName . ⁶ See the ISOCountryCode enumeration list for valid values.

¹Kendall Pharma²300 Trade Center³Suite 7690⁴Woburn⁵002⁶MA

Data Element						Occurs Length	Type	Description
					cmn:PostalCode	1...1 1/*	String	Required. The zip or other postal code of the company indicated in cmn:BusinessName . ¹
					cmn:Country	1...1 1/*	String	Required. Two-letter abbreviation specified in ISO 3166-1alpha-2:1997 country code. The country code of the company indicated in cmn:BusinessName . ² See the ISOCountryCode enumeration list for valid values.
					cmn:CorporateFax	0...1 0/*	String	Company fax number.
					cmn:AddressObjectGUID	0...1 0/*	String	The global identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum 36 characters, using the digits 0-9 and letters A-F.
					cmn:HouseGUID	0...1 0/*	String	The global House identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum 36 characters, using the digits 0-9 and letters A-F.
					cmn:TaxRegistrationCode	0...1 0/*	String	The code used to identify this entity for tax or other legal reporting purposes (e.g. a Russia KPP Registration Code).
					cmn:PremisesCode	0...1 0/*	String	Identifier representing a physical area within the company location (e.g. a location's second floor).
				choice%2		0...1 -	Choice	Choice of either cmn:ShipFromLocationLookupId or cmn:ShipFromLocationInfo . Only one can be present.
					cmn:ShipFromLocationLookupId	0...1 1/*	String	Option 1 for the SenderInfo group . This field is a partner identifier (e.g. GLN, DUNS) which triggers the look-up of the partner's address information in TraceLink (the master data). This information then populates the details in the ShipFromLocationInfo. ³
				@type		1...1 1/*	String	Required. The location type. See the LocationLookupId enumeration list for valid values.

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Data Element						Occurs Length	Type	Description
				cmn:ShipFromLocationInfo		0...1 -	-	Conditionally required for the US or if cmn:ShipFromLocationLookupId is not populated. This is Option 2 for the SenderInfo group. The full business information associated with the ship-from location is provided directly. Countries outside the U.S. do not track sold from business and ship-from location separately.
					cmn:FacilityId	1...* 1/*	String	Required. This field is populated with either the ship-from Location Identifier or the ship-to location identifier. ¹ <i>ⓘ</i> For the for US: Provide a DEA, GLN, HIN, or SGLN identifier associated with the ship-from location, and provide the SGLN for the location where the event occurred if not already provided as the selected location identifier.
					@type	1...1 1/*	String	Required. The facility type. See the BusinessAndLocationId enumeration list for valid values. <i>⚠</i> Only one of the following values may be used per message: - RU_INN_FOREIGN_ENTITY - RU_INN_INDIV - RU_INN_LOCAL_ENTITY
				cmn:LocationInfo		0...1 -	String	Conditionally required for the US. This field is populated with the business name and address of the business entity. This field is contingent on if this field is associated with the ShipFromLocationInfo or ShipToLocationInfo element.
					cmn:BusinessName	1...1 1/*	String	Required. The business name of the ship-from business entity.
					cmn:Street1	1...1 1/*	String	Required. The first line of the street address for the company indicated in cmn:BusinessName .
					cmn:Street2	0...1 0/*	String	The second line of the street address for the company indicated in cmn:BusinessName .
					cmn:City	1...1 1/*	String	Required. The city of the company indicated in cmn:BusinessName .

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Data Element						Occurs Length	Type	Description
					cmn:Village	0...1 0/*	String	Name of the village in which the company is located.
					cmn:HouseNumber	0...1 0/*	String	Building, house, or unit number of the company. House numbers are usually only separated from the street address in China. For all addresses outside of China, continue to enter the building, house, or unit number in Street1 .
					cmn:Township	0...1 0/*	String	Name of the township in which the company is located.
					cmn:District	0...1 0/*	String	District Code.  Must be a 3-digit numeric code.
					cmn:StateOrRegion	1...1 1/*	String	Required. The state, province, or region of the company specified in cmn:BusinessName . Use the standard two-letter abbreviation specified in ISO 3166-2:1998 country subdivision code.
					cmn:PostalCode	1...1 1/*	String	Required. The zip or other postal code of the company indicated in cmn:BusinessName .
					cmn:Country	1...1 1/*	String	Required. The country code of the company indicated in cmn:BusinessName . See the ISOCountryCode enumeration list for valid values.
					cmn:CorporateFax	0...1 0/*	String	Company fax number.
					cmn:AddressObjectGUID	0...1 0/*	String	The global identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum 36 characters, using the digits 0-9 and letters A-F.
					cmn:HouseGUID	0...1 0/*	String	The global House identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum 36 characters, using the digits 0-9 and letters A-F.
					cmn:TaxRegistrationCode	0...1 0/*	String	The code used to identify this entity for tax or other legal reporting purposes (e.g. a Russia KPP Registration Code).
					cmn:PremisesCode	0...1	String	Identifier representing a physical area within the company location (e.g. a location's second

Data Element						Occurs Length	Type	Description
								floor).
					cmn:LicenseNumber	0...* 0/*	String	Conditionally required for the US. The LicenseNumber field is populated with the license number of the ship-to or ship-from facility. This element may be repeated to include as many license numbers as required (e.g. state and federal license). ¹
					@state	0...1 0/*	String	The state or region in which the trading partner is licensed, using the standard two-letter abbreviation specified in ISO 3166-2:1998 country sub-division code. ²
					@agency	0...1 0/*	String	This attribute is used to give additional context to the LicenseNumber field. It indicates the agency that granted the license to the facility (e.g. Florida DOH, NABP). ³
					cmn:ContactInfo	0...1 -	String	The ContactInfo field contains contact information for use by downstream trading partners to authenticate (i.e. verify) the transaction information recorded on the pedigree with the sender party. This field must contain a name and telephone number but could also include an individual's title, email and/or URL. Do not include for Ship-From Location.
					cmn:Name	0...1 0/*	String	Required. The name of the contact department or individual at the designated company. ⁴
					cmn:Title	0...1 0/*	String	The title refers to the individual's job title who is indicated in the Name field. Title information is optional within cmn:ContactInfo . ⁵
					cmn:Telephone	1...1 1/*	String	Required. The phone number of the contact department or individual at the designated company. This value must begin with the "+" character followed by the Country Calling Code. ⁶
					cmn:Email	0...1 0/*	String	The email address of the contact department or individual at the designated company. Should be included if available. ⁷
					cmn:Url	0...1 0/*	String	URL information is optional within cmn:ContactInfo . The URL refers to the designated company's web address that facilitates authentication. ⁸

¹8888800003604²TN³BOP⁴Customer Service⁵Customer Service Representative⁶+1-781-555-562⁷support@kendallpharma.com⁸www.KendallPharma.com

Data Element						Occurs Length	Type	Description
			cmn:ReceiverInfo			0...1 -	String	Required. Information about the supply chain partner that is receiving the shipment. ReceiverInfo contains an XML Choice element on the ToBusinessPartyLookupId and ShipToLocationLookupId that decide whether master data look-up is used to populate the address, license, and contact elements.
				choice%1		0...1 -	Choice	Option 1 within choice%1 of ReceiverInfo contains only the ToBusinessPartyLookupId (in this case TraceLink populates all of the ToBusinessPartyInfo field data based on company master data lookup). Populate this element <i>only</i> if master data lookup is desired. Option 2 within choice%1 of ReceiverInfo contains full ToBusinessPartyInfo business address field data that is populated by the customer directly in the interface. Populate this element <i>fully only</i> if no master data lookup is desired.
				cmn:ToBusinessPartyLookupId		0...1 0/*	String	Option 1 for ReceiverInfo message. A look-up identifier associated with the sold to business entity from the provided enumeration list. Use this value as the look-up key in master data to populate the details in ToBusinessPartyInfo. ¹  This field is optional, but may be used for master data lookup in TraceLink. An error is thrown if both cmn:ToBusinessPartyLookupId and cmn:ToBusinessPartyInfo are populated.
					@type	1...1 1/*	String	Required. The type of the sold to business entity identifier. See the BusinessLookupId enumeration list for valid values.
				cmn:ToBusinessPartyInfo		0...1 -	String	Conditionally required if the cmn:ReceiverInfo group is populated, but cmn:ToBusinessPartyLookupId is not populated. Option 2 for ReceiverInfo group. This field is populated with the full business information associated with the sold to business entity.
					cmn:BusinessId	1...* 1/*	String	Required. This field is populated with the full business information associated with the sold to business entity. This value is mandatory for regulatory reporting. ²
					@type	1...1 1/*	String	Required. The business id type. See the BusinessAndLocationId enumeration list for valid values.  Only one of the following values may be used per message:

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Data Element							Occurs Length	Type	Description
									- RU_INN_FOREIGN_ENTITY - RU_INN_INDIV - RU_INN_LOCAL_ENTITY
					cmn:BusinessClassification		0...1 1/*	String	Conditionally required: - For Argentina. - If cmn:shipToCountryCode = KR and ReceiptDistributionType = INCOUNTRYRETURN. This field classifies the business type of the receiving business entity. See the BusinessClassification enumeration list for valid values.
					cmn:BusinessInfo		0...1 0/*	String	Populated with the business name and address of the sold to business entity.
						cmn:BusinessName	1...1 1/*	String	Required. The name of the receiving business entity.
						cmn:Street1	1...1 1/*	String	Required. The first line of the street address for the company indicated in cmn:BusinessName .
						cmn:Street2	0...1 0/*	String	The second line of the street address for the company indicated in cmn:BusinessName .
						cmn:City	1...1 1/*	String	Required. The city of the company indicated in cmn:BusinessName .
						cmn:Village	0...1 0/*	String	Name of the village in which the company is located.
						cmn:HouseNumber	0...1 0/*	String	Building, house, or unit number of the company. House numbers are usually only separated from the street address in China. For all addresses outside of China, continue to enter the building, house, or unit number in Street1 .
						cmn:Township	0...1 0/*	String	Name of the township in which the company is located.
						cmn:District	0...1 0/*	String	District Code.

Data Element						Occurs Length	Type	Description
								 Must be a 3-digit numeric code.
					cmn:StateOrRegion	1...1 1/*	String	Required. Two-letter abbreviation specified in ISO 3166-2:1998 country subdivision code. The state, province, or region of the company specified in cmn:BusinessName .
					cmn:PostalCode	1...1 1/*	String	Required. The zip or other postal code of the company indicated in cmn:BusinessName .
					cmn:Country	1...1 1/*	String	Required. Standard two-letter abbreviation specified in ISO 3166-1alpha-2:1997 country code. The country code of the company indicated in cmn:BusinessName . See the ISOCountryCode enumeration list for valid values.
					cmn:CorporateFax	0...1 0/*	String	Company fax number.
					cmn:AddressObjectGUID	0...1 0/*	String	The global identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum 36 characters, using the digits 0-9 and letters A-F.
					cmn:HouseGUID	0...1 0/*	String	The global House identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum 36 characters, using the digits 0-9 and letters A-F.
					cmn:TaxRegistrationCode	0...1 0/*	String	The code used to identify this entity for tax or other legal reporting purposes (e.g. a Russia KPP Registration Code).
					cmn:PremisesCode	0...1 0/*	String	Identifier representing a physical area within the company location (e.g. a location's second floor).
				choice%2		1...1 -	Choice	Can choose either cmn:ShipToLocationLookupId or cmn:ShipToLocationInfo ; cannot choose both. No error thrown if none are present.
					cmn:ShipToLocationLookupId	0...1 0/*	String	Option 1 for ReceiverInfo. A look-up identifier associated with the ship-to location using the provided enumeration list. This value will be used as the look-up key in master data to populate the details in ShipToLocationInfo.
				@type		1...1 1/*	String	Required. ship-to location type. See the LocationLookupId enumeration list for valid values.

Data Element					Occurs Length	Type	Description
				cmn:ShipToLocationInfo	0...1 0/*	String	Conditionally required if cmn:ShipToLocationLookupId is not present. Option 2 for ReceiverInfo group. This field is populated with the full business information associated with the ship-to location, which is provided directly.
				cmn:FacilityId	1...* 1/*	String	Required. This field is populated with either the ship-from Location Identifier or the ship-to location identifier. ¹  For the US: Provide a DEA, GLN, HIN, or SGLN identifier associated with the ship-to location.
				@type	1...1 1/*	String	Required. The facility id type. See the BusinessAndLocationId enumeration list for valid values.  Only one of the following values may be used per message: - RU_INN_FOREIGN_ENTITY - RU_INN_INDIV - RU_INN_LOCAL_ENTITY
				cmn:LocationInfo	0...1 1/*	String	Conditionally required for the US. This field is populated with the business name and address of the business entity.
				cmn:BusinessName	1...1 1/*	String	Required. The name of the receiving business entity.
				cmn:Street1	1...1 1/*	String	Required. The first line of the street address for the company indicated in cmn:BusinessName .
				cmn:Street2	0...1 0/*	String	The second line of the street address for the company indicated in cmn:BusinessName .
				cmn:City	1...1 1/*	String	Required. The city of the company indicated in cmn:BusinessName .
				cmn:Village	0...1 0/*	String	Name of the village in which the company is located.

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Data Element						Occurs Length	Type	Description
					cmn:HouseNumber	0...1 0/*	String	Building, house, or unit number of the company. House numbers are usually only separated from the street address in China. For all addresses outside of China, continue to enter the building, house, or unit number in Street1 .
					cmn:Township	0...1 0/*	String	Name of the township in which the company is located.
					cmn:District	0...1 0/*	String	District Code.  Must be a 3-digit numeric code.
					cmn:StateOrRegion	1...1 1/*	String	Required. Two-letter abbreviation specified in ISO 3166-2:1998 country subdivision code. The state, province, or region of the company specified in cmn:BusinessName .
					cmn:PostalCode	1...1 1/*	String	Required. The zip or other postal code of the company indicated in cmn:BusinessName .
					cmn:Country	1...1 1/*	String	Required. Standard two-letter abbreviation specified in ISO 3166-1alpha-2:1997 country code. The country code of the company indicated in cmn:BusinessName . See the ISOCountryCode enumeration list for valid values.
					cmn:CorporateFax	0...1 0/*	String	Company fax number.
					cmn:AddressObjectGUID	0...1 0/*	String	The global identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum 36 characters, using the digits 0-9 and letters A-F.
					cmn:HouseGUID	0...1 0/*	String	The global House identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum 36 characters, using the digits 0-9 and letters A-F.
					cmn:TaxRegistrationCode	0...1 0/*	String	The code used to identify this entity for tax or other legal reporting purposes (e.g. a Russia KPP Registration Code).
					cmn:PremisesCode	0...1 0/*	String	Identifier representing a physical area within the company location (e.g. a location's second floor).

Data Element						Occurs Length	Type	Description
					cmn:LicenseNumber	0... 0/*	String	Conditionally required for the US. The LicenseNumber field is populated with the license number of the ship-to or ship-from facility. This element may be repeated to include as many license numbers as required (such as, state and federal license).
					@state	0...1 0/*	String	Use the standard two-letter abbreviation specified in ISO 3166-2:1998 country sub-division code. This attribute is used to give additional context to the LicenseNumber field. It indicates the state or region in which the trading partner is licensed.
					@agency	0...1 0/*	String	This attribute is used to give additional context to the LicenseNumber field. It indicates the agency that granted the license to the facility (e.g. Florida DOH, NABP).
					cmn:ContactInfo	0...1 -	String	This element contains the contact information to be used by downstream trading partners to verify the message's information. This information may be associated with the fromBusiness, shipFromLocation, toBusiness, and/or shipToLocation elements.
					cmn:Name	0...1 0/*	String	The name field is an attribute of cmn:ContactInfo . It indicates the name of either an individual or department that represents the fromBusiness entity, the shipFromLocation entity, the toBusiness entity, and/or the shipToLocation entity, contingent on which entity the attribute is affixed to.
					cmn:Title	0...1 0/*	String	The title field is an optional attribute of cmn:ContactInfo . It indicates the title of the person indicated in the name field of either the fromBusiness entity, the shipFromLocation entity, the toBusiness entity, and/or the shipToLocation entity, contingent on which entity the attribute is affixed to.
					cmn:Telephone	1...1 1/*	String	Required. This value must begin with the + character followed by the Country Calling Code. The telephone field is an optional attribute of cmn:ContactInfo . It indicates the telephone number of either the fromBusiness entity, the shipFromLocation entity, the toBusiness entity, and/or the shipToLocation entity, contingent on which entity the attribute is affixed to.
					cmn:Email	0...1 0/*	String	The email field is a recommended attribute of cmn:ContactInfo . It indicates the email address of either the fromBusiness entity, the shipFromLocation entity, the toBusiness entity, and/or the shipToLocation entity, contingent on which entity the attribute is affixed to.
					cmn:Url	0...1 0/*	String	The url field is an optional attribute of cmn:ContactInfo . It indicates the website of either the fromBusiness entity, the shipFromLocation entity, the toBusiness entity and/or the shipToLocation entity, contingent on which entity the url field is affixed to.
					cmn:CarrierInfo	0... -	-	Information about the transportation partner that is transporting the shipment.
				choice1		1...1 -	Choice	Required. Must choose populate cmn:CarrierBusinessPartyLookupId or cmn:CarrierBusinessPartyInfo .

Data Element					Occurs Length	Type	Description
				cmn:CarrierBusinessPartyLookupId	0...1 1/*	String	Conditionally required if cmn:CarrierBusinessPartyInfo is not populated. This is Option 1 for cmn:CarrierInfo . This value indicates the look-up identifier associated with the Carrier entity from the provided enumeration list. This value will be used as the look-up key in master data to populate the details in CarrierBusinessPartyInfo. ¹
				@type	1...1 1/*	String	Required. The business party type. See the BusinessLookupId enumeration list for valid values.
				cmn:CarrierBusinessPartyInfo	0...1 -	-	Conditionally required for Brazil, or if cmn:CarrierBusinessPartyLookupId is not populated. Option 2 for cmn:CarrierInfo choice%1 group. The full business information associated with the transportation carrier business entity is provided.
				cmn:BusinessId	1...* 1/*	String	Required. The identifier associated with the transport carrier business entity. This value is mandatory for regulatory reporting.  For Brazil: provide the BR_CNPJ, BR_CPF, BR_CNES or BR_PROF_REG, and BR_CNPJ is the value preferred by ANVISA if the company has one.
				@type	1...1 1/*	String	Required. The business id type. See the BusinessAndLocationId enumeration list for valid values.  Only one of the following values may be used per message: - RU_INN_FOREIGN_ENTITY - RU_INN_INDIV - RU_INN_LOCAL_ENTITY
				cmn:BusinessClassification	0...1 0/*	String	This field classifies the business type of the carrier party. Valid values: - DISTRIBUTOR - HEALTHCARE - LOGISTICS - MANUFACTURER - PHARMACY

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Data Element						Occurs Length	Type	Description
								• WHOLESALER
					cmn:BusinessInfo	0...1 -	-	Populated with the business name and address of the transportation carrier business entity.
					cmn:BusinessName	1...1 1/*	String	Required. The name of the receiving business entity.
					cmn:Street1	1...1 1/*	String	Required. The first line of the street address for the company indicated in cmn:BusinessName .
					cmn:Street2	0...1 0/*	String	The second line of the street address for the company indicated in cmn:BusinessName .
					cmn:City	1...1 1/*	String	Required. The city of the company indicated in cmn:BusinessName .
					cmn:Village	0...1 0/*	String	Name of the village in which the company is located.
					cmn:HouseNumber	0...1 0/*	String	Building, house, or unit number of the company. House numbers are usually only separated from the street address in China. For all addresses outside of China, continue to enter the building, house, or unit number in Street1 .
					cmn:Township	0...1 0/*	String	Name of the township in which the company is located.
					cmn:District	0...1 0/*	String	District Code.  Must be a 3-digit numeric code.
					cmn:StateOrRegion	1...1 1/*	String	Required. Two-letter abbreviation specified in ISO 3166-2:1998 country subdivision code. The state, province, or region of the company specified in cmn:BusinessName .
					cmn:PostalCode	1...1 1/*	String	Required. The zip or other postal code of the company indicated in cmn:BusinessName .
					cmn:Country	1...1 1/*	String	Required. Standard two-letter abbreviation specified in ISO 3166-1alpha-2:1997 country code. The country code of the company indicated in cmn:BusinessName . See the ISOCountryCode enumeration list for valid values.
					cmn:CorporateFax	0...1	String	Company fax number.

Data Element						Occurs Length	Type	Description
					cmn:AddressObjectGUID	0...1 0/*	String	The global identifier assigned by the Russian Federation Information Address System (FIAS). Maximum 36 characters, using the digits 0-9 and letters A-F.
					cmn:HouseGUID	0...1 0/*	String	The global House identifier assigned by the Russian Federation Information Address System (FIAS). Maximum 36 characters, using the digits 0-9 and letters A-F.
					cmn:TaxRegistrationCode	0...1 0/*	String	The code used to identify this entity for tax or other legal reporting purposes (e.g. a Russia KPP Registration Code).
					cmn:PremisesCode	0...1 0/*	String	Identifier representing a physical area within the company location (e.g. a location's second floor).
		cmn:WarehouseOperatorName				0...1 0/*	String	Conditionally required for China. This field indicates the name of the person responsible for warehouse operations. This element can be communicated at any time (e.g. with, before, or after the order details or picked items have been communicated). ¹
		som:AddReceivedItems				0...1 -	-	Conditionally required if som:RemoveReceivedItems is not populated. The som:AddReceivedItems group is populated with the list of serial numbers for the outermost handling units received for this order. TraceLink will look up the child aggregations of the serial numbers provided in the list and update the container and all sub-child items with the received status.
			cmn:Serial			1...* 1/*	String	Required. This attribute identifies the received serial numbers included in the message and their format. ²
				@format		0...1 0/*	String	Required. The format of the serial number. See the Format enumeration list for valid values.
				@orderItemNumber		0...1 0/*	String	Order item number attribute associating specific serial numbers to the price, VAT, and cost taxes reported in a specific instance of cmn:OrderItem .
		som:RemoveReceivedItems				0...1 -	-	Conditionally required if som:AddReceivedItems is not populated. The

¹John Smith²015088202501033321100000060001

Data Element				Occurs Length	Type	Description
						som:RemoveReceivedItems group is populated with the list of serial numbers that were previously reported as received for this delivery, but have been unreceived (e.g. will not be a part of the order). TraceLink will look up the child aggregations of the serial numbers provided in the list and update the container and all sub-child items with the available status and disassociate it from the order.
			cmn:Serial	1...* 1/*	String	Required. This attribute identifies the unreceived serial numbers included in the transaction and their format.
			@format	0...1 0/*	String	Required. The format of the serial number. See the Format enumeration list for valid values.

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<som:SOMReceiptMessage xmlns="urn:tracelink:mapper:sl:serialized_operations_manager"
xmlns:som="urn:tracelink:mapper:sl:serialized_operations_manager" xmlns:cmn="urn:tracelink:mapper:sl:commontypes"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" >
  <som:ControlFileHeader>
    <cmn:FileSenderNumber>88888882028655</cmn:FileSenderNumber>
    <cmn:FileReceiverNumber>88888882028677</cmn:FileReceiverNumber>
    <cmn:FileControlNumber>20180612063132</cmn:FileControlNumber>
    <cmn:FileDate>2018-06-12</cmn:FileDate>
    <cmn:FileTime>06:31:32Z</cmn:FileTime>
  </som:ControlFileHeader>
  <som:MessageBody>
    <cmn:LocationId>412333444</cmn:LocationId>
    <cmn:DeliveryNumber>4610044</cmn:DeliveryNumber>
    <cmn:DeliveryCompleteFlag>true</cmn:DeliveryCompleteFlag>
    <cmn:RegisterUnknownSNs>false</cmn:RegisterUnknownSNs>
    <som:OrderDetails>
      <cmn:CorrectiveReceipt>true</cmn:CorrectiveReceipt>
      <cmn:OriginalDeliveryNumber>123456</cmn:OriginalDeliveryNumber>
      <cmn:EntryPort></cmn:EntryPort>
      <cmn:ExitPort></cmn:ExitPort>
      <cmn:TransactionIdentifier type="BOL" date="2018-06-12">BOL-111010</cmn:TransactionIdentifier>
      <cmn:TransactionIdentifier type="PO" date="2018-06-12">PO303005</cmn:TransactionIdentifier>
      <cmn:TransactionIdentifier type="INVOICE" date="2018-06-12">INV9978</cmn:TransactionIdentifier>
    </som:OrderDetails>
  </som:MessageBody>
</som:SOMReceiptMessage>
```

```

<cmn:TransactionIdentifier type="ASN" date="2018-06-12">ASN53014</cmn:TransactionIdentifier>
<cmn:TransactionDate>2018-06-12</cmn:TransactionDate>
<cmn:TransactionTime>06:30:30</cmn:TransactionTime>
<cmn:ShipToCountryCode>BR</cmn:ShipToCountryCode>
<cmn:ShipFromCountryCode>US</cmn:ShipFromCountryCode>
<cmn:ReceiptDistributionType>IMPORTPURCHASE</cmn:ReceiptDistributionType>
<cmn:TransferWithoutShipment>false</cmn:TransferWithoutShipment>
<cmn:SupplyType>PatientDistribution</cmn:SupplyType>
<cmn:ContractType>PrivateContract</cmn:ContractType>
<cmn:Comments>Purchase for import</cmn:Comments>
<cmn:ContractNumber>C110</cmn:ContractNumber>
<cmn:FundingSource>OwnFunds</cmn:FundingSource>
<cmn:OrderItemList>
  <cmn:OrderItem>
    <cmn:OrderItemNumber>190</cmn:OrderItemNumber>
    <cmn:InternalMaterialCode>133661</cmn:InternalMaterialCode>
    <cmn:LotNumber>PPP555</cmn:LotNumber>
    <cmn:ExpirationDate>2020-06-12</cmn:ExpirationDate>
    <cmn:Quantity>500</cmn:Quantity>
    <cmn:UnitPrice currencyCode="USD">50.00</cmn:UnitPrice>
    <cmn:IsSerialized>true</cmn:IsSerialized>
    <cmn:VAT currencyCode="USD">50.00</cmn:VAT>
    <cmn:GrossPrice currencyCode="USD">100.00</cmn:GrossPrice>
    <cmn:IsSerialized>false</cmn:IsSerialized>
    <cmn:TransactionIdentifier type="PO" date="2018-06-12">PO1078</cmn:TransactionIdentifier>
  </cmn:OrderItem>
</cmn:OrderItemList>
<cmn:SenderInfo>
  <cmn:FromBusinessPartyInfo>
    <cmn:BusinessId type="DEA">712333444</cmn:BusinessId>
    <cmn:BusinessClassification>MANUFACTURER</cmn:BusinessClassification>
    <cmn:BusinessInfo>
      <cmn:BusinessName>Clara Manufacturing</cmn:BusinessName>
      <cmn:Street1>10 Welsh St</cmn:Street1>
      <cmn:City>Malden</cmn:City>
      <cmn:Village></cmn:Village>
      <cmn:HouseNumber></cmn:HouseNumber>
      <cmn:Township></cmn:Township>
      <cmn:StateOrRegion>MA</cmn:StateOrRegion>
    </cmn:BusinessInfo>
  </cmn:FromBusinessPartyInfo>
</cmn:SenderInfo>

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        <cmn:PostalCode>02148</cmn:PostalCode>
        <cmn:Country>US</cmn:Country>
        <cmn:CorporateFax></cmn:CorporateFax>
        <cmn:AddressObjectGUID>19406454-0022-000C-00B0-000000000152</cmn:AddressObjectGUID>
        <cmn:HouseGUID>986f2934-be05-438f-A30E-c15b90e15dbc</cmn:HouseGUID>
        <cmn:TaxRegistrationCode></cmn:TaxRegistrationCode>
        <cmn:PremisesCode></cmn:PremisesCode>
    </cmn:BusinessInfo>
</cmn:FromBusinessPartyInfo>
<cmn:ShipFromLocationInfo>
    <cmn:FacilityId type="SGLN">9997777.01994.0</cmn:FacilityId>
    <cmn:LocationInfo>
        <cmn:BusinessName>Clara Manufacturing</cmn:BusinessName>
        <cmn:Street1>10 Welsh St</cmn:Street1>
        <cmn:City>Malden</cmn:City>
        <cmn:Village></cmn:Village>
        <cmn:HouseNumber></cmn:HouseNumber>
        <cmn:Township></cmn:Township>
        <cmn:StateOrRegion>MA</cmn:StateOrRegion>
        <cmn:PostalCode>02148</cmn:PostalCode>
        <cmn:Country>US</cmn:Country>
        <cmn:CorporateFax></cmn:CorporateFax>
        <cmn:AddressObjectGUID>19406454-0022-000C-00B0-000000000152</cmn:AddressObjectGUID>
        <cmn:HouseGUID>986f2934-be05-438f-A30E-c15b90e15dbc</cmn:HouseGUID>
        <cmn:TaxRegistrationCode></cmn:TaxRegistrationCode>
        <cmn:PremisesCode></cmn:PremisesCode>
    </cmn:LocationInfo>
</cmn:ShipFromLocationInfo>
</cmn:SenderInfo>
<cmn:ReceiverInfo>
    <cmn:ToBusinessPartyLookupId type="GLN">8811891013778</cmn:ToBusinessPartyLookupId>
    <cmn:ShipToLocationInfo>
        <cmn:FacilityId type="GLN">8811891013778</cmn:FacilityId>
        <cmn:FacilityId type="DUNS">710040867</cmn:FacilityId>
        <cmn:LocationInfo>
            <cmn:BusinessName>Wilbur Pharmaceutical Imports</cmn:BusinessName>
            <cmn:Street1>154 Broadway</cmn:Street1>
            <cmn:City>Somerville</cmn:City>
            <cmn:Village></cmn:Village>

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    <cmn:HouseNumber></cmn:HouseNumber>
    <cmn:Township></cmn:Township>
    <cmn:StateOrRegion>MA</cmn:StateOrRegion>
    <cmn:PostalCode>02145</cmn:PostalCode>
    <cmn:Country>US</cmn:Country>
    <cmn:CorporateFax></cmn:CorporateFax>
    <cmn:AddressObjectGUID>19406454-0022-000C-00B0-000000000155</cmn:AddressObjectGUID>
    <cmn:HouseGUID>986f2934-be05-438f-A30E-c15b90e15dbe</cmn:HouseGUID>
    <cmn:TaxRegistrationCode></cmn:TaxRegistrationCode>
    <cmn:PremisesCode></cmn:PremisesCode>
  </cmn:LocationInfo>
  <cmn:LicenseNumber state="MA" agency="BORP">773BT8</cmn:LicenseNumber>
  <cmn:ContactInfo>
    <cmn:Name>Customer Service</cmn:Name>
    <cmn:Telephone>+1-781-555-5624</cmn:Telephone>
    <cmn:Email>support@wilburpharma.com</cmn:Email>
  </cmn:ContactInfo>
</cmn:ShipToLocationInfo>
</cmn:ReceiverInfo>
<cmn:CarrierInfo>
  <cmn:CarrierBusinessPartyInfo>
    <cmn:BusinessId type="DEA">712333444</cmn:BusinessId>
    <cmn:BusinessClassification>MANUFACTURER</cmn:BusinessClassification>
    <cmn:BusinessInfo>
      <cmn:BusinessName>Clara Manufacturing</cmn:BusinessName>
      <cmn:Street1>10 Welsh St</cmn:Street1>
      <cmn:City>Malden</cmn:City>
      <cmn:Village></cmn:Village>
      <cmn:HouseNumber></cmn:HouseNumber>
      <cmn:Township></cmn:Township>
      <cmn:StateOrRegion>MA</cmn:StateOrRegion>
      <cmn:PostalCode>02148</cmn:PostalCode>
      <cmn:Country>US</cmn:Country>
      <cmn:CorporateFax></cmn:CorporateFax>
      <cmn:AddressObjectGUID>19406454-0022-000C-00B0-000000000152</cmn:AddressObjectGUID>
      <cmn:HouseGUID>986f2934-be05-438f-A30E-c15b90e15dbc</cmn:HouseGUID>
      <cmn:TaxRegistrationCode></cmn:TaxRegistrationCode>
      <cmn:PremisesCode></cmn:PremisesCode>
    </cmn:BusinessInfo>
  </cmn:CarrierBusinessPartyInfo>
</cmn:CarrierInfo>

```

```

        </cmn:CarrierBusinessPartyInfo>
    </cmn:CarrierInfo>
</som:OrderDetails>
<cmn:WarehouseOperatorName>Patrick Murphy</cmn:WarehouseOperatorName>
<som:AddReceivedItems>
    <cmn:Serial format="AI(01)+AI(21)" orderItemNumber="190">010088202501033821100000880001</cmn:Serial>
    <cmn:Serial format="AI(01)+AI(21)" orderItemNumber="190">010088202501033821100000880002</cmn:Serial>
    <cmn:Serial format="AI(01)+AI(21)" orderItemNumber="190">010088202501033821100000880003</cmn:Serial>
    <cmn:Serial format="AI(01)+AI(21)" orderItemNumber="190">010088202501033821100000880051</cmn:Serial>
</som:AddReceivedItems>
</som:MessageBody>
</som:SOMReceiptMessage>

```

Errors

Data Element	Error Message	Description
Class 1		
choice%1	Missing mandatory choice. One of InternalMaterialCode OR PackagingItemCode OR CountryDrugCode is required !!!	The error occurs if cmn:InternalMaterialCode , cmn:PackagingItemCode , and cmn:CountryDrugCode are empty or null.
	Only one of InternalMaterialCode OR PackagingItemCode OR CountryDrugCode is required !!!	The error occurs if more than one value is provided for cmn:InternalMaterialCode , cmn:PackagingItemCode , and cmn:CountryDrugCode .
cmn:BusinessId @type	Valid carrier business party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	CarrierBusinessPartyInfo BusinessId is required when ShipToCountry is Brazil !!!	The error occurs if cmn:ShipToCountry = BR , but source is empty or null.
	Party type attribute is required when source FromBusinessPartyInfo/BusinessId is populated !!!	The error occurs if cmn:FromBusinessPartyInfo cmn:BusinessId is populated, but the source is empty or null.
	Party type attribute is required when source CarrierBusinessPartyLookupId is populated !!!	The error occurs if cmn:CarrierBusinessPartyLookupId is populated, but the source is empty or null.
	Party type attribute is required when source ToBusinessPartyInfo/BusinessId is populated !!!	The error occurs if cmn:ToBusinessPartyInfo cmn:BusinessId is populated, but the source is empty or null.

Data Element	Error Message	Description
cmn:BusinessType @type	Party type attribute is required when source FromBusinessPartyLookupId is populated !!!	The error occurs if cmn:FromBusinessPartyLookupId is populated, but the source is empty or null.
cmn:BusinessName	BusinessName is required if FromBusinessPartyInfo is populated !!!	The error occurs if cmn:FromBusinessPartyInfo cmn:BusinessInfo is populated, but the source is empty or null.
	BusinessName is required if ShipToLocationInfo is populated !!!	The error occurs if cmn:ShipToLocationInfo cmn:LocationInfo is populated, but the source is empty or null.
	BusinessName is required if ToBusinessPartyInfo is populated !!!	The error occurs if cmn:ToBusinessPartyInfo cmn:BusinessInfo is populated, but the source is empty or null.
	BusinessName is required if ShipFromLocationInfo is populated !!!	The error occurs if cmn:ShipFromLocationInfo cmn:LocationInfo is populated, but the source is empty or null.
	Carrier name in source cmn:BusinessName is required if cmn:BusinessInfo is populated !!!	The error occurs if cmn:CarrierBusinessPartyInfo cmn:BusinessInfo is populated, but the source is empty or null.
cmn:CarrierInfo cmn:ToBusinessPartyInfo	Missing mandatory choice. One of ToBusinessPartyLookupId OR ToBusinessPartyInfo group is required !!!	The error occurs if neither cmn:ToBusinessPartyLookupId nor cmn:ToBusinessPartyInfo are populated.
	Only one of ToBusinessPartyLookupId OR ToBusinessPartyInfo group is required !!!	The error occurs if both cmn:ToBusinessPartyLookupId and cmn:ToBusinessPartyInfo are populated.
cmn:CarrierInfo cmn:ToBusinessPartyLookupId	Missing mandatory choice. One of ToBusinessPartyLookupId OR ToBusinessPartyInfo group is required !!!	The error occurs if neither cmn:ToBusinessPartyLookupId nor cmn:ToBusinessPartyInfo are populated.
	Only one of ToBusinessPartyLookupId OR ToBusinessPartyInfo group is required !!!	The error occurs if both cmn:ToBusinessPartyLookupId and cmn:ToBusinessPartyInfo are populated.
cmn:City	City is required if CarrierBusinessPartyInfo is populated !!!	The error occurs if cmn:CarrierBusinessPartyInfo cmn:BusinessInfo is populated, but the source is empty or null.
	City is required if ShipFromLocationInfo is populated !!!	The error occurs if cmn:ShipFromLocationInfo cmn:LocationInfo is populated, but the source is empty or null.
	City is required if ToBusinessPartyInfo is populated !!!	The error occurs if cmn:ToBusinessPartyInfo cmn:BusinessInfo is populated, but the source is empty or null.
	City is required if ShipToLocationInfo is populated !!!	The error occurs if cmn:ShipToLocationInfo cmn:LocationInfo is populated, but the source is empty or null.
	City is required if FromBusinessPartyInfo is populated !!!	The error occurs if cmn:FromBusinessPartyInfo cmn:BusinessInfo is populated, but the source is empty or null.

Data Element	Error Message	Description
cmn:ContractType	Valid Contract Type is required !!!	The error occurs if source is populated, but the entry in the lookup file is invalid.
cmn:CountryCode	Country is required if FromBusinessPartyInfo is populated !!!"	The error occurs if cmn:FromBusinessPartyInfo cmn:BusinessInfo s populated, but the source is empty or null.
	Country is required if ShipToLocationInfo is populated !!!	The error occurs if cmn:ShipToLocationInfo cmn:LocationInfo s populated, but the source is empty or null.
	Country is required if ToBusinessPartyInfo is populated !!!	The error occurs if cmn:ToBusinessPartyInfo cmn:BusinessInfo s populated, but the source is empty or null.
	Country is required if ShipFromLocationInfo is populated !!!	The error occurs if cmn:ShipFromLocationInfo cmn:LocationInfo s populated, but the source is empty or null.
	Country is required if CarrierBusinessPartyInfo is populated !!!	The error occurs if cmn:CarrierBusinessPartyInfo cmn:BusinessInfo s populated, but the source is empty or null.
cmn:DeliveryCompleteFlag	DeliveryComplete Flag required!	The error occurs if the source is empty or null.
	Data Error: DeliveryCompleteFlag occurs fewer times than its minimum number of occurrences	The error occurs if source is not all lowercase.
cmn:FacilityId	FacilityId is required when ShipToLocationInfo is populated !!!	The error occurs if cmn:ShipToLocationInfo is populated, but the source is empty or null.
	FacilityId is required when ShipFromLocationInfo is populated !!!	The error occurs if cmn:ShipFromLocationInfo is populated, but the source is empty or null.
cmn:FacilityId @type	Party type attribute is required when source ShipToLocationInfo/FacilityId is populated !!!	The error occurs if cmn:FacilityId is populated, but the source is empty or null.
	Party type attribute is required when source ShipFromLocationInfo/FacilityId is populated !!!	The error occurs if cmn:FacilityId is populated, but the source is empty or null.
cmn:FileControlNumber	Data Error: FileControlNumber occurs fewer times than its minimum number of occurrences	The error occurs if the source is empty or null.
cmn:FileDate	Data Error: FileDate occurs fewer times than its minimum number of occurrences	The error occurs if the source is empty or null.
cmn:FileReceiverNumber	Data Error: FileReceiverNumber occurs fewer times than its minimum number of occurrences	The error occurs if the source is empty or null.
cmn:FileSenderNumber	Data Error: FileSenderNumber occurs fewer times than its minimum	The error occurs if the source is empty or null.

Data Element	Error Message	Description
	number of occurrences.	
cmn:FileTime	Data Error: FileTime occurs fewer times than its minimum number of occurrences	The error occurs if the source is empty or null.
cmn:Name	Contact name is required if source contactInfo is populated !!!	The error occurs if the source is empty or null.
cmn:PackagingItemCode @type	Product type attribute is required when source PackagingItemCode is populated !!!	The error occurs if cmn:PackagingItemCode is populated, but the source is empty or null.
	Valid Item Code Type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:PostalCode	PostalCode is required if FromBusinessPartyInfo is populated !!!	The error occurs if cmn:FromBusinessPartyInfo cmn:BusinessInfo is populated, but the source is empty or null.
	PostalCode is required if ShipFromLocationInfo is populated !!!	The error occurs if cmn:ShipFromLocationInfo cmn:LocationInfo is populated, but the source is empty or null.
	PostalCode is required if CarrierBusinessPartyInfo is populated !!!	The error occurs if cmn:CarrierBusinessPartyInfo cmn:BusinessInfo is populated, but the source is empty or null.
	PostalCode is required if ShipToLocationInfo is populated !!!	The error occurs if cmn:ShipToLocationInfo cmn:LocationInfo is populated, but the source is empty or null.
	PostalCode is required if ToBusinessPartyInfo is populated !!!	The error occurs if cmn:ToBusinessPartyInfo cmn:BusinessInfo is populated, but the source is empty or null.
cmn:Quantity	Source Quantity is required !!!	The error occurs if the source is empty or null.
cmn:ReceiverInfo cmn:ShipToLocationLookupId	Only one of ShipToLocationLookupId OR ShipToLocationInfo group is required !!!	The error occurs if both cmn:ShipFromLocationLookupId and cmn:ShipFromLocationInfo are populated.
cmn:ReceiverInfo cmn:ShipToLocationInfo	Only one of ShipToLocationLookupId OR ShipToLocationInfo group is required !!!	The error occurs if both cmn:ShipFromLocationLookupId and cmn:ShipFromLocationInfo are populated.
cmn:ReceiverInfo cmn:ToBusinessPartyInfo	Missing mandatory choice. One of ToBusinessPartyLookupId OR ToBusinessPartyInfo group is required !!!	The error occurs if neither cmn:ToBusinessPartyLookupId or cmn:ToBusinessPartyInfo are populated.
	Only one of ToBusinessPartyLookupId OR ToBusinessPartyInfo group is required !!!	The error occurs if both cmn:ToBusinessPartyLookupId and cmn:ToBusinessPartyInfo are populated.
cmn:ReceiverInfo cmn:ToBusinessPartyLookupId	Missing mandatory choice. One of ToBusinessPartyLookupId OR ToBusinessPartyInfo group is required !!!	The error occurs if neither cmn:ToBusinessPartyLookupId or cmn:ToBusinessPartyInfo are populated.

Data Element	Error Message	Description
	Only one of ToBusinessPartyLookupId OR ToBusinessPartyInfo group is required !!!	The error occurs if both cmn:ToBusinessPartyLookupId and cmn:ToBusinessPartyInfo are populated.
cmn:SenderInfo cmn:FromBusinessPartyLookupId	Only one of ShipFromLocationLookupId OR ShipFromLocationInfo group is required !!!	The error occurs if both cmn:ShipFromLocationLookupId and cmn:ShipFromLocationInfo are populated.
cmn:SenderInfo cmn:FromBusinessPartyInfo	Only one of ShipFromLocationLookupId OR ShipFromLocationInfo group is required !!!	The error occurs if both cmn:ShipFromLocationLookupId and cmn:ShipFromLocationInfo are populated.
cmn:ShipFromCountryCode	Valid ShipFrom Country Code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:ShipFromLocation @type	Party type attribute is required when source ShipFromLocationLookupId is populated !!!	The error occurs if cmn:ShipFromLocationLookupId is populated, but the source is empty or null.
cmn:ShipFromLocationInfo	Only one of ShipFromLocationLookupId OR ShipFromLocationInfo group is required !!!	The error occurs if both cmn:ShipFromLocationLookupId and cmn:ShipFromLocationInfo are populated.
cmn:ShipFromLocationLookupId	Only one of ShipFromLocationLookupId OR ShipFromLocationInfo group is required !!!	The error occurs if both cmn:ShipFromLocationLookupId and cmn:ShipFromLocationInfo are populated.
cmn:ShipToLocationLookupId @type	Party type attribute is required when source ShipToLocationLookupId is populated !!!	The error occurs if cmn:ShipToLocationLookupId is populated, but the source is empty or null.
cmn:ShipToCountryCode	Valid ShipTo Country Code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:StateOrRegion	StateOrRegion is required if ShipToLocationInfo is populated !!!	The error occurs if cmn:ShipToLocationInfo cmn:LocationInfois populated, but the source is empty or null.
	State or region code is required if ShipFromLocationInfo is populated !!!	The error occurs if cmn:ShipFromLocationInfo cmn:LocationInfois populated, but the source is empty or null.
	State or region code is required if ToBusinessPartyInfo is populated !!!	The error occurs if cmn:ToBusinessPartyInfo cmn:BusinessInfois populated, but the source is empty or null.
	StateOrRegion is required if FromBusinessPartyInfo is populated !!!	The error occurs if cmn:FromBusinessPartyInfo cmn:BusinessInfois populated, but the source is empty or null.
	State or region code is required if CarrierBusinessPartyInfo is populated !!!	The error occurs if cmn:CarrierBusinessPartyInfo cmn:BusinessInfois populated, but the source is empty or null.
cmn:Street1	Street1 is required if CarrierBusinessPartyInfo is populated !!!	The error occurs if cmn:CarrierBusinessPartyInfo cmn:BusinessInfois populated, but the source is empty or null.

Data Element	Error Message	Description
	Street1 is required if ShipFromLocationInfo is populated !!!	The error occurs if cmn:ShipFromLocationInfo cmn:LocationInfo is populated, but the source is empty or null.
	Street1 is required if ToBusinessPartyInfo is populated !!!	The error occurs if cmn:ToBusinessPartyInfo cmn:BusinessInfo is populated, but the source is empty or null.
	Street1 is required if ShipToLocationInfo is populated !!!	The error occurs if cmn:ShipToLocationInfo cmn:LocationInfo is populated, but the source is empty or null.
	Street1 is required if FromBusinessPartyInfo is populated !!!	The error occurs if cmn:FromBusinessPartyInfo cmn:BusinessInfo is populated, but the source is empty or null.
cmn:SupplyType	Valid Supply Type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:Telephone	Data Error: Telephone occurs fewer times than its minimum number of occurrences.	The error occurs if the source is empty or null.
cmn:ToBusinessPartyLookupId @type	Party type attribute is required when source ToBusinessPartyLookupId is populated !!!	The error occurs if cmn:ToBusinessPartyLookupId is populated, but the source is empty or null.
cmn:ToBusinessPartyLookupId cmn:ToBusinessPartyInfo CarrierInfo	Missing mandatory choice. One of ToBusinessPartyLookupId OR ToBusinessPartyInfo group is required !!!	The error occurs if neither cmn:ToBusinessPartyLookupId nor cmn:ToBusinessPartyInfo are populated.
	Only one of ToBusinessPartyLookupId OR ToBusinessPartyInfo group is required !!!"	The error occurs if both cmn:ToBusinessPartyLookupId and cmn:ToBusinessPartyInfo are populated.
cmn:UnitPrice @currencyCode	Currency code is required if unit price exists !!!	The error occurs if the source is empty or null.
	Valid ISO currency code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
ShipToLocationLookupId/ShipToLocationInfo (cmn:ReceiverInfo)	Only one of ShipToLocationLookupId OR ShipToLocationInfo group is required !!!	The error occurs if both cmn:ShipToLocationLookupId and cmn:ShipToLocationInfo are populated.
snx:ControlFileHeader	Data Error: ControlFileHeader occurs fewer times than its minimum number of occurrences.	The error occurs if the source is empty or null.
snx:SOMReceiptMessage	Unable to read input data for business object SOMReceiptMessage due to a XML Error.	
som:OrderDetails	OrderDetails group is required when AddReceivedItems group is populated !!!	The error occurs if AddReceivedItems is populated, but source is empty or null.
cmn:ReceiverInfo cmn:ToBusinessPartyInfo	Missing mandatory choice. One of ToBusinessPartyLookupId OR	The error occurs if neither cmn:ToBusinessPartyLookupId nor

Data Element	Error Message	Description
	ToBusinessPartyInfo group is required !!!	cmn:ToBusinessPartyInfo are populated.
	Only one of ToBusinessPartyLookupId OR ToBusinessPartyInfo group is required !!!	The error occurs if both cmn:ToBusinessPartyLookupId and cmn:ToBusinessPartyInfo are populated.
cmn:ReceiverInfo cmn:ToBusinessPartyLookupId	Missing mandatory choice. One of ToBusinessPartyLookupId OR ToBusinessPartyInfo group is required !!!	The error occurs if neither cmn:ToBusinessPartyLookupId nor cmn:ToBusinessPartyInfo are populated.
	Only one of ToBusinessPartyLookupId OR ToBusinessPartyInfo group is required !!!	The error occurs if both cmn:ToBusinessPartyLookupId and cmn:ToBusinessPartyInfo are populated.
Class 2		
addressee, receiving, deliveryNumber	<addressee> district field for <receiving> event for delivery <deliveryNumber> must contain exactly 3 numeric digits. (addressee, "receiving", deliveryNumber)	The error occurs if country = IN , but addressee is not a 3-digit numeric code.
	<addressee> district field for <receiving> event for delivery <deliveryNumber> not found. (addressee, "receiving", deliveryNumber)	The error occurs if country = IN , but addressee is empty or null.
CarrierBusinessPartyInfo	CarrierBusinessPartyInfo lookup failed	The error occurs if source lookup failed.
CarrierBusinessPartyInfo, CarrierBusinessPartyLookupId	CarrierBusinessPartyInfo and CarrierBusinessPartyLookupId are both empty	The error occurs if both cmn:CarrierBusinessPartyInfo and cmn:CarrierBusinessPartyLookupId are empty or null.
CarrierBusinessPartyLookupId	Could not perform Company Master Data lookup to populate transportation carrier business address identifier. None of the permitted regulatory identifier types were configured in your Company Master Data. Please configure a COMPANYID, DUNS, GLN, BR_CPF, BR_CNES, BR_CNPJ, BR_PROF_REG, GCP, IN_COMPANY_ID, KR_BUS_REG_NUMBER, KR_PROVIDER_CODE for <ToBusinessPartyLookupId / type> <ToBusinessPartyLookupId> as appropriate for the requirement of your ship from market, and reprocess the file."	The error occurs if none of the valid regulatory identifier types exist in Master Data.
ContractType	ContractType for receiving event for delivery <n> contains invalid value. format(receipt.deliveryNumber)	The error occurs if the source is invalid.
	ContractType for receiving event for delivery <n> not found. format (receipt.deliveryNumber)	The error occurs if the required source is missing or null.
CurrencyCode	CurrencyCode for receiving event for delivery <n> not found. format (receipt.deliveryNumber)	The error occurs if the required source is missing or null.
deliveryNumber, senderInfo, receiverInfo, shipToCountryCode, ReceiptDistributionType, SenderInfo, ReceiverInfo, TransactionDate,	Required field <x> is null (deliveryNumber, senderInfo, receiverInfo, shipToCountryCode, ReceiptDistributionType, SenderInfo, ReceiverInfo,	The error occurs if a required field is empty or null.

Data Element	Error Message	Description
TransactionIdentifier	TransactionDate, TransactionIdentifier)	
District	District for receiving event for delivery <n> not found. format (receipt.deliveryNumber)	The error occurs if the required source is missing or null.
	District for receiving event for delivery <n> must contain exactly 3 numeric digits. format(receipt.deliveryNumber)	The error occurs if source is not a 3-digit numeric code.
FromBusinessPartyInfo	FromBusinessPartyInfo lookup failed	The error occurs if source lookup failed.
FromBusinessPartyInfo, FromBusinessPartyLookupId	FromBusinessPartyInfo and FromBusinessPartyLookupId are both empty	The error occurs if both cmn:FromBusinessPartyInfo and cmn:FromBusinessPartyLookupId empty or null.
FromBusinessPartyLookupId	Could not perform Master Data lookup to populate sender business address identifier. None of the permitted regulatory identifier types were configured in your Company or Partner Company Master Data. Please configure a COMPANYID, DUNS, GLN, BR_CPF, BR_CNES, BR_CNPJ, BR_PROF_REG, GCP, IN_COMPANY_ID, IN_LOCATION_ID, KR_BUS_REG_NUMBER, KR_PROVIDER_CODE for <FromBusinessPartyLookupId / type> <FromBusinessPartyLookupId> as appropriate for the requirement of your ship to market, and reprocess the file.	The error occurs if none of the valid regulatory identifier types exist in Master Data.
idTyp	Ship From Location LookupId type is empty	The error occurs if the source is empty or null.
	Ship To Location LookupId type is empty	
	From Business Party LookupId type is empty	
	To Business Party LookupId type is empty	
idVal	To Business Party LookupId value is empty	The error occurs if the source is empty or null.
	From Business Party LookupId value is empty	
	Ship From Location LookupId value is empty	
	Ship To Location LookupId value is empty	
inFilename, origFilename, origFilename, origFileDate, cntrlID	File <inFilename> is a potential duplicate match with file <origFilename> sent from <origFilename> received on <origFileDate>, based on both files having the same File Control Number <cntrlID>.	The error occurs if file is a duplicate.
InternalMaterialCode or PackagingItemCode	Either InternalMaterialCode or PackagingItemCode must be provided.	The error occurs if both cmn:InternalMaterialCode and cmn:PackagingItemCode are empty or null.

Data Element	Error Message	Description
lookupTyp, lookupVal	Could not perform Master Data lookup to populate sender business address fields. <lookupTyp> <lookupVal> is not configured in your Company or Partner Master Data. Please configure <lookupTyp> <lookupVal> in Company or Partner Master Data, and reprocess the file. (lookupType, lookupVal, lookupType, lookupVal)	The error occurs if the lookupTyp and lookupVal for Company or Partner Master Data has not been configured.
	Could not perform Master Data lookup to populate the sender shipping address identifier. None of the permitted regulatory identifier types were configured in your Company or Partner Location Master Data. Please configure a COMPANYSITEID, DEA, DUNS4, GLN, HIN, SGLN, BR_CPF, BR_CNES, BR_CNPJ, BR_PROF_REG, CUIT, HIN, GCP, IN_LOCATION_ID, IN_IEC, IN_PAN, IN_TIN, KR_BUS_REG_NUMBER, KR_PROVIDER_CODE for <lookupTyp> <lookupVal> as appropriate for the requirement of your ship from market, and reprocess the file. (lookupType, lookupVal)	The error occurs if no valid lookupTyp and lookupVal were configured to populate the sender shipping address identifier.
	Could not perform Location Master Data lookup to populate the receiving address identifier. None of the permitted regulatory identifier types were configured in your Company nor Partner Location Master Data. Please configure a COMPANYSITEID, DEA, DUNS4, GLN, HIN, SGLN, BR_CPF, BR_CNES, BR_CNPJ, BR_PROF_REG, CUIT, HIN, GCP, IN_LOCATION_ID, IN_IEC, IN_PAN, IN_TIN, KR_BUS_REG_NUMBER, KR_PROVIDER_CODE for <lookupTyp> <lookupVal> as appropriate for the requirement of your ship to market, and reprocess the file. (lookupType, lookupVal)	The error occurs if no valid lookupTyp and lookupVal were configured to populate the receiving address identifier.
	Could not perform Master Data lookup to populate transportation carrier business address identifier. None of the permitted regulatory identifier types were configured in your Company or Partner Company Master Data. Please configure a COMPANYID, CUIT, DUNS, GLN, BR_CPF, BR_CNES, BR_CNPJ, BR_PROF_REGGCP, IN_COMPANY_ID, IN_IEC, IN_PAN, IN_TIN, KR_BUS_REG_NUMBER, KR_PROVIDER_CODE for <lookupTyp> <lookupVal> as appropriate for the requirement of your ship from market, and reprocess the file. (lookupType, lookupVal)	The error occurs if no valid lookupTyp and lookupVal were configured to populate the transportation carrier business address identifier.
	Could not perform Company Master Data lookup to populate receiver business address identifier. None of the permitted regulatory identifier types were configured in your Company Master Data. Please configure a COMPANYID, CUIT, DUNS, GLN, BR_CPF, BR_CNES, BR_CNPJ, BR_PROF_REGGCP, IN_COMPANY_ID, IN_IEC, IN_PAN, IN_TIN, KR_BUS_REG_NUMBER, KR_PROVIDER_CODE for <lookupTyp> <lookupVal> as appropriate for the requirement of your ship to market, and reprocess	The error occurs if no valid lookupTyp and lookupVal were configured to populate the receiver business address identifier.

Data Element	Error Message	Description
	the file. (lookupType, lookupVal)	
	Could not perform Master Data lookup to populate sender business address identifier. None of the permitted regulatory identifier types were configured in your Company or Partner Company Master Data. Please configure a COMPANYID, CUIT, DUNS, GLN, BR_CPF, BR_CNES, BR_CNPJ, BR_PROF_REG, GCP, IN_COMPANY_ID, IN_IEC, IN_PAN, IN_TIN, KR_BUS_REG_NUMBER, KR_PROVIDER_CODE for <lookupType> <lookupVal> as appropriate for the requirement of your ship to market, and reprocess the file. (lookupType, lookupVal)	The error occurs if no valid lookupTyp and lookupVal were configured to populate the sender business address identifier.
	Could not perform Company Master Data lookup to populate receiver business address fields. <lookupType> <lookupVal> is not configured in your Company Master Data. Please configure <lookupType> <lookupVal> in Company Master Data, and reprocess the file. (lookupType, lookupVal, lookupType, lookupVal)	The error occurs if lookupTyp and lookupVal for Company Master Data have not been configured.
	Could not perform Master Data lookup to populate sender shipping address fields. <lookupType> <lookupVal> is not configured in your Company or Partner Location Master Data. Please configure <lookupType> <lookupVal> in Company or Partner Location Master Data, and reprocess the file. (lookupType, lookupVal, lookupType, lookupVal)	The error occurs if lookupTyp and lookupVal for Company or Partner Master Data have not been configured.
	Could not perform Location Master Data lookup to populate receiver shipping address fields. <lookupType> <lookupVal> is not configured in your Company Location Master Data nor in your Partner Location Master Data. Please configure <lookupType> <lookupVal> in Company Location Master Data or in Partner Location Master Data (if the ship to location is a partner location) and reprocess the file. (lookupType, lookupVal, lookupType, lookupVal)	The error occurs if lookupTyp and lookupVal for Company or Partner Location Master Data have not been configured.
	Could not perform Master Data lookup to populate transportation carrier business address fields. <lookupType> <lookupVal> is not configured in your Company or Partner Company Master Data. Please configure <lookupType> <lookupVal> in Company or Partner Company Master Data, and reprocess the file. (lookupType, lookupVal, lookupType, lookupVal)	The error occurs if lookupTyp and lookupVal for Company or Partner Master Data have not been configured.
message	message body is null	The error occurs if the source is empty or null.
OrderItemList	OrderItemList for receiving event for delivery <n> not found. format (receipt.deliveryNumber)	The error occurs if the required source is missing or null.

Data Element	Error Message	Description
OrderItems	OrderItems for receiving event for delivery <n> not found. format (receipt.deliveryNumber)	The error occurs if the required source is missing or null.
Quantity	Quantity is required if IsSerialized = false	The error occurs if IsSerialized = false , but source is empty or null.
ReceiptDistributionType	For Receipt <DeliveryNumber>, receipt serials was not found.	The error occurs if the source was not previously submitted
ReceiverInfo	Serialized Operations Manager Receipt inbound processing could not be completed. The ReceiverInfo with either ToBusinessPartyLookupId or ToBusinessPartyInfo for the ShipFromCountryCode of <ShipFromCountryCode> and ShipToCountryCode of <ShipToCountryCode> must be specified.	The error occurs if - Transfer or Sale occurs in non-EU FMD markets where the ShipToCountryCode is not an EU FMD country and the ShipFromCountryCode is not an EU FMD country. - Transfer or Sale Export occurs from the EU FMD markets where the ShipToCountryCode is China, US, South Korea, or Russia and the ShipFromCountryCode is an EU FMD country.
ReceiverInfo	Serialized Operations Manager Receipt inbound processing could not be completed. Both the ShipToCountryCode and ShipFromCountryCode must be specified when the Sender Info and ReceiverInfo are not specified.	The error occurs if ReceiverInfo and the source are both empty or null, and both the ShipToCountryCode and ShipFromCountryCode are empty or null.
SenderInfo		
SenderInfo	Serialized Operations Manager Receipt inbound processing could not be completed. The SenderInfo with either FromBusinessPartyLookupId or FromBusinessPartyInfo for the ShipFromCountryCode of <ShipFromCountryCode> and ShipToCountryCode of <ShipToCountryCode>.	The error occurs if - Transfer or Sale occurs in non-EU FMD markets where the ShipToCountryCode is not an EU FMD country and the ShipFromCountryCode is not an EU FMD country. - Transfer or Sale Export occurs from the EU FMD markets where the ShipToCountryCode is China, US, South Korea, or Russia and the ShipFromCountryCode is an EU FMD country.
serialNumber	Serial Number <n> does not exist. (serial number)	The error occurs if the source provided does not exist.
	Cannot perform operation on serial number <n> with item state PendingReceipt. This operation can only be performed when the serial number is Available. (serial number)	The error occurs if source is still in a pending state.
ShipFromLocationLookupId	Could not perform Master Data lookup to populate the sender shipping address identifier. None of the permitted regulatory identifier types were configured in your Company or Partner Location Master Data. Please configure a COMPANYSITEID, DEA, DUNS4, GLN, HIN, SGLN, BR_CPF, BR_CNES, BR_CNPNJ or BR_PROF_REG, HIN, GCP, IN_	The error occurs if none of the valid regulatory identifier types exist in Master Data.

Data Element	Error Message	Description
	LOCATION_ID, KR_BUS_REG_NUMBER, KR_PROVIDER_CODE for <ShipFromLocationLookupId / type> <ShipFromLocationLookupId> as appropriate for the requirement of your ship from market, and reprocess the file.	
ShipToLocationInfo	ShipToLocationInfo lookup failed	The error occurs if source lookup failed.
ShipToLocationInfo, ShipToLocationLookupId	ShipToLocationInfo and ShipToLocationLookupId are both empty	The error occurs if both cmn:ShipToLocationInfo and cmn:ShipToLocationLookupId are empty or null.
ShipToLocationLookupId	Could not perform Location Master Data lookup to populate the receiving address identifier. None of the permitted regulatory identifier types were configured in your Company nor Partner Location Master Data. Please configure a COMPANYSITEID, DEA, DUNS4, GLN, HIN , SGLN, BR_CPF, BR_CNES, BR_CNPJ, BR_PROF_REG, HIN, GCP, IN_LOCATION_ID, KR_BUS_REG_NUMBER, or KR_PROVIDER_CODE for <ShipToLocationLookupId / type> <ShipToLocationLookupId> as appropriate for the requirement of your ship to market, and reprocess the file.	The error occurs if none of the valid regulatory identifier types exist in Master Data.
SupplyType	SupplyType for receiving event for delivery <n> contains invalid value. format(receipt.deliveryNumber)	The error occurs if the source is invalid.
	SupplyType for receiving event for delivery <n> not found. format (receipt.deliveryNumber)	The error occurs if the required source is missing or null.
ToBusinessPartyInfo	ToBusinessPartyInfo lookup failed	The error occurs if source lookup failed.
ToBusinessPartyInfo, ToBusinessPartyLookupId	ToBusinessPartyInfo and ToBusinessPartyLookupId are both empty	The error occurs if both cmn:ToBusinessPartyInfo and cmn:ToBusinessPartyLookupId are empty or null.
ToBusinessPartyLookupId	Could not perform Company Master Data lookup to populate receiver business address identifier. None of the permitted regulatory identifier types were configured in your Company Master Data. Please configure a COMPANYID, DUNS, GLN, BR_CPF, BR_CNES, BR_CNPJ, BR_PROF_REG, GCP, KR_BUS_REG_NUMBER for <ToBusinessPartyLookupId / type> <ToBusinessPartyLookupId> as appropriate for the requirement of your ship to market, and reprocess the file.	The error occurs if none of the valid regulatory identifier types exist in Master Data.
UnitPrice	UnitPrice for receiving event for delivery <n> not found. format (receipt.deliveryNumber)	The error occurs if the required source is missing or null.
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

Receipt (EPCIS v1.2)

Guidelines

To receive both shipment information and serial numbers in this message, all shipment data must originate from the same system. If shipment information and serial numbers must be received separately (e.g. because shipment information is managed in a separate ERP system), use a combination of this message and the Receipt (XML) message (i.e. submit the Receipt (XML) message containing the shipment information and set the DeliveryComplete flag to "false", and then submit the Receipt (EPCIS v1.2) message containing the Delivery Number and list of EPCs.

This message uses the Park and Retry functionality. If a prerequisite condition for this message has not been met, TraceLink stops processing the task, returns the task to the queue, and then tries to process the task again every 15 minutes for up to 2 hours.

Message Type: SOM_RECEIPT

Info Exchange Display Name: Shipment Receipt

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

ⓘ NTINs *must* follow the [GS1 Guidance](#) standards as found on the GS1 website.

- Ex: urn:epc:id:sgtin:415001647778.0.1000000000022
- Format: urn:epc:id:sgtin:[company prefix].[indicator digit].[item ref].[serial number]

Information regarding NTINs cannot be exchanged with trade partners unless the specific format outlined above is followed. If using an NTIN without following this format, an outbound error occurs when passing data from TraceLink to a trade partner.

Data Element	Occurs Length	Type	Description
epcis:EPCISDocument	1...1 -	-	Required. EPCIS message root element.

Data Element				Occurs Length	Type	Description
			@schemaVersion	1...1 0/*	Decimal	Required. The version of the EPCIS schema used to populate the EPCIS document elements. Must equal 1.2. ¹
			@creationDate	1...1 1/*	DateTime	Required. Date the message was created in YYYY-MM-DDTHH:MM:SS:mmZ format. ²
			EPCISHeader	0...1 -	-	Required. The XML file control header. Only receiving event is supported: no aggregation.
			sbdh:StandardBusinessDocumentHeader	1...1 -	-	Required. Business header information including EPCIS Header Version, Sender, and Receiver information, along with the document identification.
			sbdh:HeaderVersion	1...1 0/*	String	Required. Version of the Standard Business Document Header (SBDH). The HeaderVersion must be set to 1.0. ³
			sbdh:Sender	1...* -	-	Required. A unique identification key for the Sender party of the message, representing the organization that created the standard business document. The Sender element must be used only once with GS1 XML messages.
			sbdh:Identifier	1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type. ⁴ SGLN and all other party types should be sent with a GS1-conformant uri prefix. For example: • <code>urn:epc:id:sgln:088202.867701.0</code> • <code>http://epcis.gs1us.org/hc/dea/loc/10023141</code> <i>i</i> GLN will not have a urn/http prefix.
			@Authority	1...1 1/*	String	Required. The sender identifier type. The Authority was previously expected to be set to GLN for GS1 XML messages. An update made in December 2016 changed this to accept additional values. ⁵ See the BusinessAndLocationId enumeration list for valid values.
			sbdh:Receiver	1...* -	-	Required. Indicates a unique identification key for the direct Receiver party of the message, representing the organization that receives the standard business document. The Receiver element is used only once with GS1 XML messages.

¹1.2²2016-12-18T22:08:02Z³1.0⁴1100001014507⁵GLN

Data Element					Occurs Length	Type	Description
				sbdh:Identifier	1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type.¹ SGLN and all other party types should be sent with a GS1-conformant uri prefix. For example: <code>urn:epc:id:sgln:088202.867701.0</code> <code>http://epcis.gs1us.org/hc/dea/loc/10023141</code>  GLN will not have a urn/http prefix.
				@Authority	1...1 1/*	String	Required. The receiver identifier type. The Authority was previously expected to be set to GLN for GS1 XML messages. An update made in December 2016 changed this to accept additional values.² See the BusinessAndLocationId enumeration list for valid values.
				sbdh:DocumentIdentification	1...1 -	-	Required. Contains the identification group for the message.
				sbdh:Standard	1...1 0/*	String	Required. Name of the document standard contained in the file or message. The standard value for this field is EPCglobal . ³
				sbdh:TypeVersion	1...1 0/*	String	Required. Reflects the version of the document included. This is the complete version of the document itself and is different from the HeaderVersion as these are hard-coded values. The TypeVersion is set to 1.0 . ⁴
				sbdh:InstanceIdentifier	1...1 1/*	String	Required. Reference information that uniquely identifies this instance of the Standard Business Document between the Sender and the Receiver. This identifier confirms this document as being distinct from others. ⁵
				sbdh:Type	1...1 0/*	String	Required. This element identifies the document type. The Type value is set to "Events". ⁶
				sbdh:CreationDateAndTime	1...1 0/*	DateTime	Required. The date and time of the SBDH document's creation. GMT create date and time for the EPCIS message. The system expects the Z to be appended; however, if it is not included, the system assumes that the time is GMT and therefore appends the Z . ⁷
				extension	0...1	-	Header extension area with master data attributes.

¹0614141123452²GLN³EPCGlobal⁴1.0⁵201703301745200001⁶Events⁷2017-03-30T22:08:02Z

Data Element							Occurs Length	Type	Description
						EPCISMasterData	0...1 -	-	Master data extension header. May contain business and ship party address information. If there is no partner address data in the header extensions, the identifiers in the Source and Destination lists is used for partner master data lookup by TraceLink. i Full GS1 conformance requires that all party master data be stored in the EPCIS header extension EPCISMasterData / VocabularyList / Vocabulary / VocabularyElementList / VocabularyElement. It is strongly urged that all party address info for receiving events be sent in the VocabularyElement within the EPCISMasterData header extension.
						VocabularyList	1...1 -	-	Required. Vocabulary list group master data elements.
						Vocabulary	0...* -	-	Looping vocabulary element with discrete partner master data element groups. Vocabulary occurs once each for sold from, ship from, sold to, ship to parties present. Group is optional. If it does not appear in master data header extension, no error will be thrown.
						@type	1...1 0/*	String	Required. Vocabulary type identifying location master data elements for receiving events. Master data type defined by VocabularyElement @id. ¹ Valid value: <code>urn:epcglobal:epcis:vtype:Location</code> = location master data. i Track the sold from, ship from, sold to, and ship to for receiving event in header master data. Party data in receiving event is mapped from header master in Vocabulary.
						VocabularyElementList	0...1 -	-	List of vocabulary elements that includes all partner master information. Party identifiers and address info are stored in instances of the looping group VocabularyElement .
						VocabularyElement	1...* -	-	Required. Looping group header for data elements identifying all business party and location master data, including identifiers, identifier types, and address info. VocabularyElement repeats once for each party type: - Sold/Transfer from business party (mandatory). - Ship-from location (optional). - Sold/Transfer to business party (mandatory) . - Ship-to location (optional). - Carrier (Brazil) (optional).

¹urn:epcglobal:epcis:vtype:Location

Data Element								Occurs Length	Type	Description
										 - Master data lookup is supported. If partner master data is available in TraceLink, indicate master data lookup by sending partner identifiers in the sourceList and destinationList of the receiving event and do not include any address data in any VocabularyElement group. - If master data lookup is not intended, send complete address information for at least the sold-from and sold-to partners in the header master data extension. Ship-from and ship-to addresses can also be included.
						@id		1...1 0/*	String	Required. SGLN or other partner identifier and type for party master data in VocabularyElement. Must match sourceList or destinationList owning or location party in receiving event from either: - ObjectEvent extension sourceList source (transfer from, carrier) - ObjectEvent extension destinationList destination (transfer to) The identifier value is required for regulatory reporting.¹ See the MDPartyTypeAttributes enumeration list for valid values.
						attribute		1...1 0/*	String	Conditionally required if the above Vocabulary @id attribute is populated. Looping Name/Value pairs identifying partner address master data elements. This is the value element in the Name/Value pair attribute @id. Stores master data item value defined by @id.² Partner master data items currently supported for receiving event: - Business name - Additional identifier - Additional identifier type - Business classification - Street address 1 & 2 - City - District - Village - House Number

¹urn:epc:id:sgln:088202.867701.0²Kendall Pharma

Data Element								Occurs Length	Type	Description
										• Township • Corporate Fax • State/Province/Region • Postal code • Country code • Premises code • Tax registration code  Create one instance of the Name/Value pair attribute and @id for each master data element returned.
							@id	1...1 0/*	String	Conditionally required if the above attribute element is populated. Provides the name in the Name/Value pair attribute @id. Identifies the master data value stored in the attribute value element, using urn or http prefix. ¹ Valid values: • http://epcis.tracelink.com/mda/additionalPartyIdentificationValue • http://epcis.tracelink.com/mda/additionalPartyIdentificationTypeCode • http://epcis.tracelink.com/mda/AddressObjectGUID • http://epcis.tracelink.com/mda/district • http://epcis.tracelink.com/mda/village • http://epcis.tracelink.com/mda/houseNumber • http://epcis.tracelink.com/mda/township • http://epcis.tracelink.com/mda/corporateFax • http://epcis.tracelink.com/mda/HouseGUID • http://epcis.tracelink.com/mda/partyRoleCode • http://epcis.tracelink.com/mda/premisesCode • http://epcis.tracelink.com/mda/taxRegistrationCode • urn:epcglobal:cbv:mda#name • urn:epcglobal:cbv:mda#streetAddressOne

¹urn:epcglobal:cbv:mda#name

Data Element										Occurs Length	Type	Description	
											- urn:epcglobal:cbv:mda#streetAddressTwo - urn:epcglobal:cbv:mda#streetAddressThree - urn:epcglobal:cbv:mda#city - urn:epcglobal:cbv:mda#state - urn:epcglobal:cbv:mda#postalCode - urn:epcglobal:cbv:mda#countryCode		
EPCISBody										1...1 -	-	Required. Contains all of the EPCIS events for this message.	
	EventList									1...1 -	-	Required. The EventList only contains the ObjectEvent (required).	
		ObjectEvent								1...* -	-	Required. EventList. Data = "ObjectEvent" for receiving events when all of the following is true: - action = OBSERVE - bizStep = urn:epcglobal:cbv:bizstep:receiving - disposition = urn:epcglobal:cbv:disp:in_progress	
			eventTime							1...1 1/*	DateTime	Required. Timestamp of the date/time when the event occurred. Include a time zone indicator as specified in Section 9.5 of [EPCIS1.0.1]. ¹	
			eventTimeZoneOffset							1...1 1/*	String	Required. Time zone offset in effect at time and place where the event occurred, consistent with what choice was made for eventTime. Per Section 7.2.8 of [EPCIS1.0.1]. ²	
			epcList							1...1 -	-	Required. List of the EPCs of top most containers (e.g. pallets, cases) in the shipment.	
				epc							1...* 1/*	String	Required. The EPC identifier in EPC Pure Identity URI format . ³
			action							1...1 0/*	String	Required. This field indicates the action taken in the message. The action value is set to OBSERVE for a receiving event. ⁴ See the ActionType enumeration list for valid values.	

¹2017-03-29T22:08:02Z²-04:00³urn:epc:id:sgtin:068202.0401034.11220207026272⁴OBSERVE

Data Element					Occurs Length	Type	Description
				bizStep	0...1 0/*	AnyURI	Required. This value indicates the business step taken in the event. The bizStep value is set to urn:epcglobal:cbv:bizstep:receiving for a receiving event. ¹
				disposition	0...1 0/*	AnyURI	Required. The bizStep , disposition , and action elements define the message event and are grouped together under the GS1 EPCIS guidelines. The disposition indicates the status of the transaction. The disposition value is set to urn:epcglobal:cbv:disp:in_progress for a receiving event. ²
				readPoint	0...1 -	-	Not used.
				id	1...1 0/*	AnyURI	Not used.
				bizLocation	0...1 -	-	Not used.
				id	1...1 1/*	AnyURI	Not used.
				bizTransactionList	0...1 -	-	Conditionally required if bizStep = urn:epcglobal:cbv:bizstep:receiving .
				bizTransaction	1...* 0/*	AnyURI	Required. The business transaction identifiers for the Dispatch Advice (Advance Ship Notice) and/or the Return and/or Purchase Order governing this shipment, subject to Section 8.4.2 of [CBV1.0]. ³ Delivery document is mandatory in the receiving transaction. All other document types are optional.
				@type	1...1 1/*	String	Required. The transaction identifier type (e.g. PO, ASN, RETURN, etc). ⁴ See the TransactionId enumeration list for valid values.
				@date	0...1 0/*	Date	Conditionally required if tl:shipFromCountryCode = RU . The transaction identifier date. ⁵
				tl:locationId	0...1 -	String	Serialized Operations Manager external subscriber location identifier.  When an external Serialized Operations Manager subscriber submits messages, TraceLink uses the

¹urn:epcglobal:cbv:bizstep:receiving²urn:epcglobal:cbv:disp:in_progress³urn:epcglobal:cbv:bt:0882028677019:H9022413⁴urn:epcglobal:cbv:btt:desadv⁵2019-03-30

Data Element						Occurs Length	Type	Description
								subscriber company integration user to perform the action and log this message in the audit trail, so that all messages executed by that subscriber are attributed to that company.
				extension		0...1 -	-	GS1 ObjectEvent extension.
				sourceList		0...1 -	-	Conditionally required if partner master data for transfer from party/location is populated in header extension VocabularyElement. Source list identifying sending and carrier parties identified in header extensions level. If Master Data exists in the Tracelink system, then master data lookup is supported. To use master data lookup, do not send any partner address info in the EPCIS header master data extension. Only send the partner identifiers in sourceList and destinationList. TraceLink reads the party identifiers from sourceList and destinationList to run the master data lookup. Do not send partner identifiers and address info in the master data header.  - If partner master data is present in the header, the system will map from the header. Partner identifiers must match the partner identifiers in the sourceList and destinationList. - If the partner master data header, sourceList, and destinationList are not populated, an error occurs.
				source		1...* 0/*	String	Required. Source party identifier for sold-from, ship-from, or carrier parties. Must match same partner identifiers in header extension VocabularyElement.¹ Used for master data lookup if partner identifier and address info is not present in header master data. If ship-from party is the same as sold-from party, ship-from does not need to be included.
				@type		1...1 0/*	String	Required. Identifies type of source party identifier, ie, owning (sold-from) or location (ship-from) party. Valid values:² - Sold-from party = <code>urn:epcglobal:cbv:sdt:owning_party</code> (mandatory). - Ship-from party = <code>urn:epcglobal:cbv:sdt:location</code> (only include if identifier different from owning_party).
				destinationList		0...1 -	-	Conditionally required if partner master data for transfer from party/location is populated in header extension VocabularyElement. Destination list identifying receiving parties identified in header extensions level.

¹urn:epc:id:sgln:088202.867701.0²urn:epcglobal:cbv:sdt:owning_party

Data Element						Occurs Length	Type	Description
								If Master Data exists in the Tracelink system, master data lookup is supported. To use master data lookup, do not send any partner address info in the EPCIS header master data extension. Only send the partner identifiers in destinationList and sourceList. TraceLink reads the party identifiers from destinationList and sourceList to run master data lookup. Do not send partner identifiers and address info in the master data header.  - If partner master data is present in the header, the system will map from the header. Partner identifiers must match the partner identifiers in the sourceList and destinationList. - If the partner master data header, sourceList, and destinationList are not populated, an error occurs.
					destination	1...* 0/*	String	Required. Destination party identifier for sold-to and ship-to parties. Must match same partner identifiers in header extension VocabularyElement.¹ Used for master data lookup if partner identifier and address info is not present in header master data. If ship-to party the same as sold-to party, ship-from does not need to be included.
					@type	1...1 0/*	String	Required. Identifies type of destination party identifier, i.e. owning (sold-to) or location (ship-to) party. Valid values:² - Sold-to party = <code>urn:epcglobal:cbv:sdt:owning_party</code> (mandatory). - Ship-to party = <code>urn:epcglobal:cbv:sdt:location</code> (only include if identifier different from owning_party).
					tl:receivingEventExtensions	0...1 -	-	Receiving event with the list of serial numbers being received from supplier's shipment.
					tl:transactionDate	1...1 -	Date	Required. Date associated with the business transaction document in bizTransactionList in YYYY-MM-DD format. This date may or may not be the same as the eventTime.³
					tl:shipToCountryCode	1...1 2/2	String	Required. 2-letter ISO country code for ship-to country. This value is referenced to advise regulatory reporting if it is required for the specified country market.⁴

¹urn:epc:id:sgln:033333.101365.0²urn:epcglobal:cbv:sdt:owning_party³2017-03-29⁴US

Data Element					Occurs Length	Type	Description
							ⓘ Setting this value alone does not trigger regulatory reporting. Actual triggering of regulatory reporting is governed by customer administrative configuration in the TraceLink application. See the ISOCountryCode enumeration list for valid values.
				tl:shipFromCountryCode	0...1 2/2	String	2-letter ISO country code for ship-from country. This value is referenced to advise regulatory reporting if it is required for the specified country market. ¹ ⓘ Setting this value alone does not trigger regulatory reporting. Actual triggering of regulatory reporting is governed by customer administrative configuration in the TraceLink application. See the ISOCountryCode enumeration list for valid values.
				tl:receiptDistributionType	1...1 1/*	String	Required. Informs what types of regulatory reporting may be triggered based on the nature of the transaction: ² • Purchase, transfer, or return within the same country. • Purchase, transfer, or return from another country. See the ReceiptDistributionType enumeration list for valid values.
				tl:supplyType	0...1 0/*	String	Conditionally required if ShipToCountryCode = KR and SalesDistributionType = EXPORTSALE or EXPORTRETURN; all values except for Collection apply. Identifies the type of supply that is being performed. ³ See the SupplyType enumeration list for valid values.
				tl:contractType	0...1 0/*	String	Identifies if a private or competitive bid contract is used for the sale of goods. See the ContractType enumeration list for valid values.
				tl:comments	0...1 0/*	String	Optional remarks or comments associated with the delivery.
				tl:contractNumber	0...1 0/*	String	Identification number of the contract. ⁴

¹US²INCOUNTRYSALE³PatientDistribution⁴1234567

Data Element					Occurs Length	Type	Description
				tl:fundingSource	0...1 0/*	String	Required. Source of the funding. ¹ See the FundingSource enumeration list for valid values.
				tl:registerUnknownSNs	0...1 0/*	Boolean	Determines whether the serial numbers that are unknown to SOM (in tl:epcOrderItemList) should be registered. Valid values: ² true – register all serial numbers that do not currently exist in Serialized Operations Manager in an available state. false – (default) all serial numbers that do not currently exist in Serialized Operations Manager are rejected.
				tl:transferWithoutShipment	0...1 0/*	Boolean	Indicates that the serial numbers are already in an Available state because there is no associated shipment event. Valid values: true – Serial numbers are in the Available state. false (default) – Serial numbers are in the Pending Receipt state. Only use when tl:receiptDistributionType = INCOUNTRYTRANSFER or IMPORTTRANSFER .
				tl:entryPort	0...1 0/*	String	Name of the shipment's port of entry into a country (e.g. an airport, maritime port, border checkpoint).
				tl:exitPort	0...1 0/*	String	Name of the shipment's port of exit from a country (e.g. an airport, maritime port, border checkpoint).
				tl:deliveryInspection	0...1 0/*	String	The inspection status of the physical delivery against the delivery documentation. See the DeliveryInspection enumeration list for valid values.
				tl:deliveryInspectionDate	0...1 10/10	Date	The date of the physical delivery inspection against the delivery documentation in YYYY-MM-DD format. ³
				tl:deliveryInspectionNote	0...1 0/*	String	Comments about the physical delivery inspection against the delivery documentation.
				tl:removalFromCirculation	0...1 0/*	String	Reason the product in the delivery is taken out of the supply chain. See the RemovalFromCirculation enumeration list for valid values.
				tl:aggregationInspection	0...1	String	The inspection status of the aggregation hierarchy of the container.

¹FederalBudgetFunds²false³2021-12-21

Data Element						Occurs Length	Type	Description
								See the AggregationInspection enumeration list for valid values.
					tl:epcOrderItemDetails	0...1 -	-	Group header with specific link between tl:orderItemNumber in the ObjectEvent for Shipping Events and the epc serial number.
					tl:epcOrderItemList	1...* -	-	Group header.
					@orderItemNumber	0...1 0/*	String	List of serial numbers associated with the pricing and tax information in the current instance of the orderItem .
					tl:epcOrderItem	1...* 0/*	String	Order item number attribute associating specific serial numbers to the price, VAT, and cost taxes reported in a specific instance of OrderItem , in EPC Pure Identity URI format.
					tl:orderItemList	0...1 -	-	Populate the order item list group to communicate the return quantities for each item code at the EACH (unit) level.
					tl:allowShortVerificationCount	0...1 0/*	Boolean	Instructs TraceLink whether or not to generate an error if the picked or received counts are less than expected when comparing picked or received serial number counts in tl:epcOrderItemList . Valid values: ¹ true – instructs TraceLink to generate an error if the picked or received counts are less than expected. false – (default) TraceLink does not generate an error if the picked or received counts are less than expected.
					tl:orderItem	1...* -	-	Required. Order item group is a repeating element that captures the item code, lot number, and quantity for each item in the order. Communicate each unique item code and lot number in a separate order item group.
					tl:orderItemNumber	0...1 0/*	String	Order item number attribute associating specific serial numbers to the price, VAT, and cost taxes reported in a specific instance of tl:orderItem .
					choice%1	1...1 -	Choice	Required. Populate only one of tl:InternalMaterialCode , tl:PackagingItemCode , or tl:countryDrugCode . One of the three options must be present.
					tl:internalMaterialCode	0...1 1/*	String	Conditionally required if neither tl:packagingItemCode nor tl:countryDrugCode is present. Option 1 for choice%1 in tl:orderItem . Use to identify the product using the internal material number configured in Product Master Data. ²

¹false²100234

Data Element								Occurs Length	Type	Description
							tl:packagingItemCode	0...1 0/*	String	Conditionally required if neither tl:internalMaterialCode nor tl:countryDrugCode is present. Option 2 for choice%1 in tl:orderItem . Use to identify the product using the packaging level item code (e.g. GTIN-14) configured in Product Master Data. ¹
							@type	0...1 0/*	String	Required. The product code type for the packaging item code. See the ItemCode enumeration list for valid values.
							tl:countryDrugCode	0...1 0/*	String	Conditionally required if neither tl:internalMaterialCode nor tl:packagingItemCode is present. Option 3 for choice%1 in OrderItem . Use to identify the product using the country drug code configured in Product Master Data. ²
							@type	0...1 0/*	String	Required. The national drug code type using the supported enumeration values. ³
							cbvmdata:lotNumber	0...1 0/*	String	The lot or batch code for the picked items (if available) in an alphanumeric string. ⁴
							cbvmdata:itemExpirationDate	0...1 1/*	Date	The expiration date for the serialized item, formatted in YYYY-MM-DD format. ⁵
							tl:quantity	1...1 0/*	String	Required. The quantity of items at the EACH (unit) level of the item code and lot if specified to be picked. ⁶
							tl:unitPrice	0...1 0/*	Decimal	Required. Conditionally required if: Unit price of item. ⁷
							@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ⁸ See the ISOCurrency enumeration list for valid values.
							tl:vat	0...1 -	Decimal	Value Added Tax per unit. ⁹

¹00882025030223²0069-4220-66³US_NDC442⁴A12345⁵2019-12-31⁶50⁷35.67⁸USD⁹152.22

Data Element								Occurs Length	Type	Description
							@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ¹ See the ISOCurrency enumeration list for valid values.
							tl:grossPrice	0...1 0/*	Decimal	Price including unit price and all taxes and fees. ²
							@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ³ See the ISOCurrency enumeration list for valid values.
							tl:isSerialized	0...1 0/*	Boolean	Indicates if item is not serialized. ⁴  If omitted, defaults value to "true".
							tl:transactionIdentifier	0...* 0/*	String	Transaction identifier at the line-item level of shipment. More than one transaction identifier may be present.
							@type	1...1 1/*	String	Required. The transaction identifier type. Valid values: • DESTRUCTION • INVOICE • NOTAFISCALELETRONICA • OTHER • PO • RETURN
							@date	0...1 0/*	Date	Conditionally required if tl:shipToCountryCode = RU . The transaction identifier date.
							tl:warehouseOperatorName	0...1 0/*	String	Name of the person responsible for warehouse operations. ⁵
							tl:correctiveReceipt	0...1 0/*	Boolean	Indicates that a new Serialized Operations Manager receipt is correcting a previously voided Serialized Operations Manager receipt. Valid values:

¹USD²45.67³USD⁴true⁵John Smith

Data Element						Occurs Length	Type	Description
								true – The receipt is a corrective receipt. false – (default) The receipt is not a corrective receipt.
					tl:originalDeliveryNumber	0...1 0/*	String	Original delivery number. Records the original delivery number that is replaced when a receipt is voided and corrections are made to that receipt.

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:tl="http://epcis.tracelink.com/ns"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader" schemaVersion="1.2"
creationDate="2018-06-12T06:31:32Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier Authority="GLN">8779891013658</sbdh:Identifier>
      </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier Authority="GLN">8811891013778</sbdh:Identifier>
      </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>201806121745200001</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2018-06-12T06:31:32Z</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
  </extension>
  <EPCISMasterData>
    <VocabularyList>
      <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
        <VocabularyElementList>
```

```

<!-- SourceList owning_party (sold from business party) -->
  <VocabularyElement id="urn:epc:id:sgln:9997777.01994.0">
    <attribute id="urn:epcglobal:cbv:mda#name">Clara Manufacturing</attribute>
    <attribute
id="http://epcis.tracelink.com/mda/additionalPartyIdentificationValue">712333444</attribute>
    <attribute
id="http://epcis.tracelink.com/mda/additionalPartyIdentificationTypeCode">DEA</attribute>
    <attribute id="http://epcis.tracelink.com/mda/partyRoleCode">MANUFACTURER</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">10 Welsh St</attribute>
    <attribute id="urn:epcglobal:cbv:mda#city">Malden</attribute>
    <attribute id="http://epcis.tracelink.com/mda/district"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/village"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/houseNumber"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/township"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/corporateFax"></attribute>
    <attribute id="urn:epcglobal:cbv:mda#state">MA</attribute>
    <attribute id="urn:epcglobal:cbv:mda#postalCode">02148</attribute>
    <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    <attribute id="http://epcis.tracelink.com/mda/premisesCode"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/taxRegistrationCode"></attribute>
  </VocabularyElement>
<!-- DestinationList owning_party (sold to business party) -->
  <VocabularyElement id="urn:epc:id:gln:8811891013778">
    <attribute id="urn:epcglobal:cbv:mda#name">Wilbur Pharmaceutical</attribute>
    <attribute
id="http://epcis.tracelink.com/mda/additionalPartyIdentificationValue">412333444</attribute>
    <attribute
id="http://epcis.tracelink.com/mda/additionalPartyIdentificationTypeCode">DEA</attribute>
    <attribute id="http://epcis.tracelink.com/mda/partyRoleCode">DISTRIBUTOR</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">154 Broadway</attribute>
    <attribute id="urn:epcglobal:cbv:mda#city">Somerville</attribute>
    <attribute id="http://epcis.tracelink.com/mda/district"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/village"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/houseNumber"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/township"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/corporateFax"></attribute>
    <attribute id="urn:epcglobal:cbv:mda#state">MA</attribute>
    <attribute id="urn:epcglobal:cbv:mda#postalCode">02145</attribute>
    <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>

```

```

        <attribute id="http://epcis.tracelink.com/mda/premisesCode"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/taxRegistrationCode"></attribute>
    </VocabularyElement>
</VocabularyElementList>
</Vocabulary>
</VocabularyList>
</EPCISMasterData>
</extension>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <ObjectEvent>
            <eventTime>2018-06-12T06:31:32Z</eventTime>
            <eventTimeZoneOffset/>
            <epcList>
                <epc>urn:epc:id:sscc:425093.05100564312</epc>
                <epc>urn:epc:id:sscc:425093.05100564329</epc>
                <epc>urn:epc:id:sscc:425093.05100564336</epc>
                <epc>urn:epc:id:sscc:425093.05100564343</epc>
                <epc>urn:epc:id:sscc:425093.05100564350</epc>
                <epc>urn:epc:id:sscc:425093.05100564367</epc>
                <epc>urn:epc:id:sscc:425093.05100564374</epc>
                <epc>urn:epc:id:sscc:425093.05100564381</epc>
                <epc>urn:epc:id:sscc:425093.05100564398</epc>
            </epcList>
            <action>OBSERVE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
            <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
            <bizTransactionList>
                <bizTransaction type="http://epcis.tracelink.com/hc/btt/transfer" date="2018-06-12">urn:epcglobal:cbv:bt:8779891013658:987654321</bizTransaction>
                <bizTransaction type="urn:epcglobal:cbv:btt:desadv" date="2018-06-12">urn:epcglobal:cbv:bt:8811891013778:ASN654321</bizTransaction>
            </bizTransactionList>
            <tl:locationId>urn:epc:id:sgln:9997777.01994.0</tl:locationId>
            <extension>
                <sourceList>
                    <!-- owning_party = from business party -->
                    <source type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:9997777.01994.0</source>
                </sourceList>
            </extension>
        </ObjectEvent>
    </EventList>
</EPCISBody>
</EPCIS>

```

```

    </sourceList>
    <destinationList>
      <!-- owning_paty = to business party -->
      <destination type="urn:epcglobal:cbv:sdt:owning_
party">urn:epc:id:sgln:881189.101377.8</destination>
    </destinationList>
  </extension>
  <tl:receivingEventExtensions>
    <tl:transactionDate>2018-06-12</tl:transactionDate>
    <tl:shipToCountryCode>US</tl:shipToCountryCode>
    <tl:receiptDistributionType>INCOUNTRYPURCHASE</tl:receiptDistributionType>
    <tl:supplyType>PatientDistribution</tl:supplyType>
    <tl:contractType>PrivateContract</tl:contractType>
    <tl:comments>Wilbur Processing</tl:comments>
    <tl:contractNumber>C102</tl:contractNumber>
    <tl:fundingSource>OwnFunds</tl:fundingSource>
    <tl:transferWithoutShipment>false</tl:transferWithoutShipment>
    <tl:entryPort></tl:entryPort>
    <tl:exitPort></tl:exitPort>
    <tl:epcOrderItemDetails>
      <tl:epcOrderItemList orderItemNumber="205">
        <tl:epcOrderItem>urn:epc:id:sscc:425093.05100564312</tl:epcOrderItem>
        <tl:epcOrderItem>urn:epc:id:sscc:425093.05100564329</tl:epcOrderItem>
      </tl:epcOrderItemList>
    </tl:epcOrderItemDetails>
    <tl:orderItemList>
      <tl:orderItem>
        <tl:orderItemNumber>205</tl:orderItemNumber>
        <tl:packagingItemCode type="GTIN-14">00992326050107</tl:packagingItemCode>
        <cbvmdata:lotNumber>PPP555</cbvmdata:lotNumber>
        <cbvmdata:itemExpirationDate>2020-06-12</cbvmdata:itemExpirationDate>
        <tl:quantity>500</tl:quantity>
        <tl:unitPrice currencyCode="USD">50.43</tl:unitPrice>
        <tl:vat currencyCode="USD">10.45</tl:vat>
        <tl:grossPrice currencyCode="USD">100.00</tl:grossPrice>
        <tl:isSerialized>true</tl:isSerialized>
        <tl:transactionIdentifier type="PO" date="2018-06-12">TI008</tl:transactionIdentifier>
      </tl:orderItem>
    </tl:orderItemList>

```

```

    <tl:warehouseOperatorName>Patrick Murphy</tl:warehouseOperatorName>
    <tl:correctiveReceipt>true</tl:correctiveReceipt>
    <tl:originalDeliveryNumber>6</tl:originalDeliveryNumber>
    </tl:receivingEventExtensions>
  </ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

Errors

Data Element	Error Message	Description
Class 1		
attribute	Carrier business party city is required !!!	The error occurs if the source is empty or null.
attribute	Carrier business party state or region is required !!!	
attribute	Carrier business party country is required !!!	
attribute	Carrier business party street address is required !!!	
attribute	Ship from location state or region is required !!!	
attribute	Ship from location street address is required !!!	

Data Element	Error Message	Description
attribute	Ship from location city is required !!!	The error occurs if the source is empty or null.
attribute	Ship from location country is required !!!	
attribute	Ship to location country is required !!!	
attribute	Ship to location city is required !!!	
attribute	Ship to location street address is required !!!	
attribute	Ship to location state or region is required !!!	
attribute	Sold from business party state or region is required !!!	
attribute	Sold from business party street address is required !!!	
attribute	Sold from business party city is required !!!	
attribute	Sold from business party country is required !!!	
attribute	Sold from business party name is required !!!	
attribute	Sold to business party city is required !!!	
attribute	Sold to business party country is required !!!	
attribute	Sold to business party state or region is required !!!	
attribute	Sold to business party street address is required !!!	
attribute	Valid business classification code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
attribute	Valid business classification code is required !!!	
attribute	Valid Carrier business party country is required !!!	
attribute	Valid carrier business party identifier type is required !!!	
attribute	Valid Ship to location country is required !!!	
attribute	Valid ship to location identifier type is required !!!	
attribute	Valid ship from location identifier type is required !!!	
attribute	Valid Ship from location country is required !!!	

Data Element	Error Message	Description
attribute	Valid sold from business party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
attribute	Valid Sold to business party country is required !!!	
attribute	Valid sold to business party identifier type is required !!!	
attribute	Valid Sold from business party country is required !!!	
attribute	Carrier business party name is required !!!	The error occurs if VocabularyElement/attribute fields are populated, but the source is empty or null.
attribute	Ship to business party name is required !!!	
attribute	Ship from business party name is required !!!	
attribute	Sold to business party name is required !!!	
attribute	Party type is required if additional business party identifier is populated !!!	The error occurs if @id (attribute) = "http://epcis.tracelink.com/mda/additionalIdentifier", but the source is empty or null.
attribute	Party type is required if additional facility identifier is populated !!!	
@currencyCode	Valid ISO currency code is required !!!	The error occurs if tl:unitPrice is populated, but the source is not a valid value from the enumeration list.
bizStep	bizStep urn:epcglobal:cbv:bizstep:receiving is required for ObjectEvent receiving !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:receiving".
bizTransaction @type	Valid bizTransaction type is required if bizTransaction is populated !!!	The error occurs if bizTransaction is populated, but the source is empty or null.
bizTransactionList	Biz transaction list is required in receiving event !!!	The error occurs if the source is empty or null.
choice1	Only one of either InternalMaterialCode or PackagingItemCode or CountryDrugCode is required !!!	The error occurs if tl:internalMaterialCode, tl:packagingItemCode, and tl:countryDrugCode are empty or null.
destination	Valid sold-to business lookup identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Valid ship-to business lookup identifier type is required !!!	
disposition	Disposition urn:epcglobal:cbv:disp:in_progress is required for ObjectEvent receiving !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:in_progress".
epc	Invalid EPC format !!!	The error occurs if the source is invalid.
ObjectEvent	Receiving event is required !!!	The error occurs if the source is empty or null.

Data Element	Error Message	Description
source	Valid carrier business lookup identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Valid sold-from business lookup identifier type is required !!!	
	Valid ship-from business lookup identifier type is required !!!	
tl:packagingItemCode @type	Packaging item code type is required !!!	The error occurs if tl:packagingItemCode is populated, but the source is empty or null or there is not a valid value from the enumeration list.
tl:quantity	Quantity is required !!!	The error occurs if the source is empty or null or is equal to "0".
tl:receiptDistributionType	Valid receipt distributionType is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
tl:receivingEventExtensions	receivingEventExtensions required if receiving event populated !!!	The error occurs if ObjectEvent is populated, but the source is empty or null.
tl:shipFromCountryCode	Valid ISO country code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Ship from country for import products is required !!!	The error occurs if ReceiptDistributionType equals "IMPORTSALE", "IMPORTTRANSFER", or "IMPORTRETURN" but the source is empty or null.
tl:shipToCountryCode	Valid ISO country code for ship-to country is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
tl:supplyType	Valid supply type code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
tl:transactionDate	Transaction date is required !!!	The error occurs if the source is empty or null.
VocabularyElement	Ship to party info required in VocabularyElement if present in destinationList !!!	The error occurs if ship-to is present in destinationList but not in the source.
	Sold to party identifier is required !!!	The error occurs if sold-to party does not exist as an @id (VocabularyElement).
	Ship from party info required in VocabularyElement if present in sourceList !!!	The error occurs if ship-from is present in sourceList but not in the source.
	Carrier party info required in VocabularyElement if present in sourceList !!!	The error occurs if carrier party is present in sourceList but not in the source.
	Sold from party identifier is required !!!	The error occurs if Vocabulary @type =

Data Element	Error Message	Description
		"urn:epcglobal:epcis:vtype:location", but there is no sold-from party in the source.
VocabularyElement @id	Valid carrier business party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement @id	Valid ship from business party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement @id	Valid ship to business party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement @id	Valid ship to location identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement @id	Valid sold from business party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement @id	Valid sold to business party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement @id	Party type is required if additional facility identifier is populated !!!	The error occurs if @id (attribute) = "http://epcis.tracelink.com/mda/additionalIdentifier", but the source is empty or null.
Class 2		
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

Receipt Event (EPCIS v1.2)

Guidelines

Serialized Operations Manager Owners and Partners use this message to create receipts for deliveries sent from trade partners. This message supports the required Object Event Receiving event and the optional Aggregation Event.

This message uses the Park and Retry functionality. If a prerequisite condition for this message has not been met, TraceLink stops processing the task, returns the task to the queue, and then tries to process the task again every 15 minutes for up to 2 hours.

Message Types:

- SOM_RECEIPT_EVENT
- SOM_RECEIPT_EVENT_IB

Info Exchange Display Name: Receipt Event

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

⚠ NTINs *must* follow the [GS1 Guidance](#) standards as found on the GS1 website.

- Ex: urn:epc:id:sgtin:415001647778.0.100000000022
- Format: urn:epc:id:sgtin:[company prefix].[indicator digit].[item ref].[serial number]

Information regarding NTINs cannot be exchanged with trade partners unless the specific format outlined above is followed. If using an NTIN without following this format, an outbound error occurs when passing data from TraceLink to a trade partner.

Data Element	Occurs Length	Type	Description
epcis:EPCISDocument	1...1 -	-	Required. EPCIS message root element.
@schemaVersion	1...1 0/*	Decimal	Required. The version of the EPCIS schema used to populate the EPCIS document elements. Must equal 1.2 . ¹
@creationDate	1...1 1/*	DateTime	Required. The date and time of the SBDH document's creation. GMT create date and time for the EPCIS message. The system expects the Z to be appended; however, if it is not included, the system assumes that the time is GMT and therefore appends the Z . ²

¹1.2

²2016-12-18T22:08:02Z

Data Element				Occurs Length	Type	Description
EPCISHeader				0...1 -	-	Required. XML file control header record. The following use cases are supported in this message: • Aggregation + Receiving events • Receiving event only: no aggregation  Receiving event is mandatory, all other events are optional.
sbdh:StandardBusinessDocumentHeader				1...1 -	-	Required. Business header information including EPCIS Header Version, Sender, and Receiver information, along with the document identification.
sbdh:HeaderVersion				1...0/*	String	Required. Version of the Standard Business Document Header (SBDH). The HeaderVersion must be set to 1.0.¹
sbdh:Sender				1...*-	-	Required. A unique identification key for the Sender party of the message, representing the organization that created the standard business document. The Sender element must be used only once with GS1 XML messages.
sbdh:Identifier				1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type.² SGLN and all other party types should be sent with a GS1-conformant uri prefix. For example: • <code>urn:epc:id:sgln:088202.867701.0</code> • <code>http://epcis.gs1us.org/hc/dea/loc/10023141</code>  GLN will not have a urn/http prefix. See the MDPartyTypeAttributes enumeration list for valid values.
@Authority				1...1 1/*	String	Required. The sender identifier type. The Authority was previously expected to be set to GLN for GS1 XML messages. An update made in December 2016 changed this to accept additional values.³ See the BusinessAndLocationId enumeration list for valid values.
sbdh:Receiver				1...*-	-	Required. Indicates a unique identification key for the direct Receiver party of the message, representing the organization that receives the standard business document. The Receiver element is used only once with GS1 XML messages.
sbdh:Identifier				1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type.⁴ SGLN and all other party types should be sent with a GS1-conformant uri prefix. For example:

¹1.0²1100001014507³SGLN⁴1100001014507

Data Element					Occurs Length	Type	Description
							urn:epc:id:sgln:088202.867701.0 http://epcis.gs1us.org/hc/dea/loc/10023141  GLN will not have a urn/http prefix.
				@Authority	1...1 1/*	String	Required. The sender identifier type. The Authority was previously expected to be set to GLN for GS1 XML messages. An update made in December 2016 changed this to accept additional values. ¹ See the BusinessAndLocationId enumeration list for valid values.
				sbdh:DocumentIdentification	1...1 -	-	Required. Contains the identification group for the message.
				sbdh:Standard	1...1 0/*	String	Required. Name of the document standard contained in the file or message. The standard value for this field is EPCglobal . ²
				sbdh:TypeVersion	1...1 0/*	String	Required. Reflects the version of the document included. This is the complete version of the document itself and is different from the HeaderVersion as these are hard-coded values. The TypeVersion is set to 1.0 . ³
				sbdh:InstanceIdentifier	1...1 1/*	String	Required. Reference information that uniquely identifies this instance of the Standard Business Document between the Sender and the Receiver. This identifier confirms this document as being distinct from others. ⁴
				sbdh:Type	1...1 0/*	String	Required. Identifies the document type. The sbdh:Type value is set to Events for a shipment event. ⁵
				sbdh:CreationDateAndTime	1...1 0/*	DateTime	Required. The date and time of the SBDH document's creation. GMT create date and time for the EPCIS message. The system expects the Z to be appended; however, if it is not included, the system assumes that the time is GMT and therefore appends the Z . ⁶
				extension	0...1 -	-	Header extension area with master data attributes.
				EPCISMasterData	0...1	-	Master data extension header. Will contain business and ship party address information.

¹SGLN²EPCglobal³1.0⁴201609201745200001⁵Events⁶2016-12-18T22:08:02Z

Data Element							Occurs Length	Type	Description
						VocabularyList	1...1 -	-	Required. Vocabulary list group master data elements.
						Vocabulary	0...* -		Looping vocabulary with discrete master data element groups. Vocabulary will occur once each for sold from, ship from, sold to, and ship to parties.
						@type	1...1 0/*	String	Required. Vocabulary type identifying location master data elements. Master data type defined by VocabularyElement @id. Valid value: urn:epcglobal:epcis:vtype:Location = party master data. ¹ Sold from, ship from, sold to, and ship to for shipping event are all tracked in header master data. Party data in shipping event is mapped from header master in Vocabulary .
						VocabularyElementList	0...1 -	-	List of vocabulary elements that includes all partner master information. Party identifiers and address info are stored in instances of the looping group VocabularyElement .
						VocabularyElement	1...* -	-	Required. Looping group header for data elements that identify all business party and location master data, including identifiers, identifier types, and address info. VocabularyElement repeats once for each party type: - Sold/Transfer from business party (Mandatory) - Ship from location (Optional) - Sold/Transfer to business party (Mandatory) - Ship to location (Optional)
						@id	1...1 0/*	String	Required. SGLN or other partner identifier and type for party master data in VocabularyElement . Must match sourceList or destinationList owning or location party in shipping event from: ² - ObjectEvent extension sourceList source (transfer from, carrier) OR - ObjectEvent extension destinationList destination (transfer to) The identifier value is mandatory for regulatory reporting. The identifier type must include a valid urn or http string prefix. Valid prefix formats include by namespace: - GS1: urn:epc:id:sgln:[CompanyPrefix].[LocationReference].[Extension] - GS1 USHC: http://epcis.gs1us.org/hc/[identifierType]/loc/[identificationValue] - TraceLink: http://epcis.tracelink.com/hc/[identifierType]/loc/[identificationValue]

¹urn:epcglobal:epcis:vtype:Location²urn:epc:id:sgln:088202.867701.0

Data Element									Occurs Length	Type	Description
								attribute(1)	0...* 0/*	String	Required. Looping Name/Value pairs identifying partner address master data elements. This is the value element in the Name/Value pair attribute @id. Stores master data item value defined by @id.¹ Partner master data items currently supported: • Business name – Mandatory if address populated in VocabularyElement. • Business classification – Optional. • Street address 1 – Mandatory if address populated. • Street address 2 – Optional. • City – Mandatory if address populated. • District – Optional • Village – Optional. • House number – Optional. • Township – Optional. • Corporate fax – Optional. • State/Province/Region – Mandatory if address populated. • Postal code – Optional. • Country code – Mandatory if address populated. • Premises code – Optional. • Tax registration code – Optional. Create one instance of the Name/Value pair attribute and attribute @id for each master data element returned.
								@id	1...1 0/*	String	Conditionally required if attribute is present. Provides the name in the Name/Value pair attribute @id. Identifies the master data value stored in the attribute value element, using urn or http prefix. Valid values:² • urn:epcglobal:cbv:mda#name • urn:epcglobal:cbv:mda#streetAddressOne • urn:epcglobal:cbv:mda#streetAddressTwo • urn:epcglobal:cbv:mda#streetAddressThree • urn:epcglobal:cbv:mda#city

¹Kendall Pharma²urn:epcglobal:cbv:mda#name

Data Element										Occurs Length	Type	Description
												http://epcis.tracelink.com/mda/district http://epcis.tracelink.com/mda/village http://epcis.tracelink.com/mda/houseNumber http://epcis.tracelink.com/mda/township http://epcis.tracelink.com/mda/corporateFax urn:epcglobal:cbv:mda#state urn:epcglobal:cbv:mda#postalCode urn:epcglobal:cbv:mda#countryCode http://epcis.tracelink.com/mda/AddressObjectGUID http://epcis.tracelink.com/mda/HouseGUID http://epcis.tracelink.com/mda/partyRoleCode http://epcis.tracelink.com/mda/premisesCode http://epcis.tracelink.com/mda/taxRegistrationCode
							attribute(2)	0...*	0/*		String	Required. Looping Name/Value pairs identifying additional party identifier elements. This is the value element in the Name/Value pair attribute @id. Stores additional party identifiers and identifier types defined by @id.¹ Partner master data items currently supported: - Additional party identifier - optional (1 or more supported). - Additional party identifier type - optional (1 or more supported). Create one instance of the Name/Value pair attribute and @id for each master data element returned. Additional party identifiers must be sent in a double attribute combination. The sequence must be: - Attribute 1 identifies and provides the party identifier value. - Attribute 2 identifies the party identifier type. For example: <pre><attribute id="http://epcis.tracelink.com/mda/additionalPartyIdentificationValue">10023141</attribute> <attribute id="http://epcis.tracelink.com/mda/additionalPartyIdentificationTypeCode">DUNS_ PLUS_FOUR</attribute></pre>

¹10023141

Data Element										Occurs Length	Type	Description
												<code><attribute id="http://epcis.tracelink.com/mda/additionalIdentifier">10023141</attribute></code> <code><attribute id="http://epcis.tracelink.com/mda/additionalIdentifierType">DUNS4</attribute></code> ❗ If this sequence of double attributes is not followed for additional party identifiers, the additional party identifier will not be mapped to the TraceLink system and no error will be thrown. ❗ Only one of the following values may be used per message: - RU_INN_FOREIGN_ENTITY - RU_INN_INDIV - RU_INN_LOCAL_ENTITY See the BusinessAndLocationId enumeration list for valid values.
								@id		1...1 0/*	String	Conditionally required if attribute is populated. Provides the name in the Name/Value pair attribute @id. Identifies the master data value stored in the attribute value element, using urn or http prefix. Valid values:¹ <code>http://epcis.tracelink.com/mda/additionalPartyIdentificationValue</code> <code>http://epcis.tracelink.com/mda/additionalPartyIdentificationTypeCode</code>
EPCISBody										1...1 -	-	Required. Contains all of the EPCIS events for this message.
		EventList								1...1 -	-	Required. The EventList has the following structure: AggregationEvent: Optional, looping, zero or more instances. ObjectEvent Receipt: One instance for receiving event. Order of events in message if all events are present: - Aggregation (optional) - Receipt (mandatory)
		choice%1								1...* -	-	Required. Only one of the following choice options may be selected in any one loop on EPCISBody EventList: AggregationEvent

¹<http://epcis.tracelink.com/mda/additionalPartyIdentificationValue>

Data Element				Occurs Length	Type	Description
						ObjectEvent (with receiving extensions)
			AggregationEvent	0...* -	-	AggregationEvent is option 1 for the EventList choice for the Aggregation events. EventList = AggregationEvent when all of the following is true: action = ADD bizStep = urn:epcglobal:cbv:bizstep:packing disposition = urn:epcglobal:cbv:disp:in_progress
			eventTime	1...1 1/*	DateTime	Required. Timestamp of date/time when the event occurred. Must include a time zone indicator as specified in Section 9.5 of [EPCIS1.0.1]. ¹
			eventTimeZoneOffset	1...1 1/*	String	Required. Time zone offset in effect at time and place where the event occurred, consistent with what choice was made for eventTime . Per Section 7.2.8 of [EPCIS1.0.1]. ²
			parentID	1...1 1/*	AnyURI	Required. An Identifier of the parent container in EPC Pure Identity URI format (e.g. for an item-to-case aggregation, the EPC is of the case; for a case-to-pallet aggregation, the EPC is of the pallet). See EPC Pure Identifier Format Examples . ³
			childEPCs	1...1 -	-	Required. A list of identifiers, including the child items, in the parent container in EPC Pure Identity URI format (e.g. for an item-to-case aggregation, the EPCs is of the items; for a case-to-pallet aggregation, the EPCs is of the cases).
			epc	1...* 1/*	String	Required. The identifier of the child items in the parent container in EPC Pure Identity URI format. See EPC Pure Identifier Format Examples . ⁴
			action	1...1 1/*	String	Required. The action value must equal ADD for the aggregation event. ⁵
			bizStep	0...1 0/*	AnyURI	The bizStep value must equal urn:epcglobal:cbv:bizstep:packing . ⁶
			disposition	0...1	AnyURI	The disposition value must equal urn:epcglobal:cbv:disp:in_progress . ⁷

¹2013-10-01T22:10:02Z²-04:00³urn:epc:id:sgtin:088202.5503022.100000000670, urn:epc:id:sscc:088202.002000000034, <http://epcis.tracelink.com/obj/cn-edmc/88102321100002005943>, <http://epcis.tracelink.com/obj/ntin/4150.001647778.100000000002>⁴urn:epc:id:sgtin:088202.5503022.100000000670, urn:epc:id:sscc:088202.002000000034, <http://epcis.tracelink.com/obj/cn-edmc/88102321100002005943>, <http://epcis.tracelink.com/obj/ntin/4150.001647778.100000000002>⁵ADD⁶urn:epcglobal:cbv:bizstep:packing⁷urn:epcglobal:cbv:disp:in_progress

Data Element					Occurs Length	Type	Description
				readPoint	0...1 -	-	Optional for AggregationEvent .
				id	1...1 0/*	AnyURI	Required. The SGLN EPC of the location of where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ¹
				bizLocation	0...1 -	-	Required. Mandatory for AggregationEvent .
				id	1...1 0/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ²
				tl:aggregationEventExtensions	0...1 -	-	Extensions used for Aggregation Event.
				tl:packedStatus	0...1 0/*	String	The packout of the item or container using the supported enumeration values. ³
				tl:quantity	0...1 -	Int	The quantity of child serial numbers aggregated to the parent container in this aggregation. ⁴
				tl:resetContainerAggregation	0...1 -	Boolean	Reset container aggregation flag. ⁵
				tl:extensionField	0...* -	-	Customer extension point to pass in one or more name/value pairs containing additional data attributes not already supported in this message. These extensions are not stored by TraceLink and are used only for outbound mapping purposes when there is a requirement to provide additional data to a trade partner for this message, such as when a CMO is required to provide additional data fields to the Pharmaceutical Manufacturer. In this case, TraceLink would have a custom map for that trade partner to map these fields outbound. Different trade partners may have different field requirements and may therefore require that tl:extensionField be populated differently per trade partner. If this element group is populated, both the tl:fieldName and tl:fieldValue elements must be populated.
				tl:fieldName	1...1 1/*	String	Conditionally required if tl:ExtensionField is present. Populate with the field name provided by the trade partner receiving the

¹urn:epc:id:sgln:1100001.12345.0²urn:epc:id:sgln:1100001.12345.0³FULL⁴48⁵false

Data Element						Occurs Length	Type	Description
								mapped outbound message. The field name must match the field name provided by the trade partner exactly, including case, so that it can be properly detected in the outbound mapping.
					tl:fieldValue	1...1 1/*	String	Conditionally required if tl:ExtensionField is present. Populate with the field value content that corresponds to tl:fieldName .
			ObjectEvent			1...1 -	-	Required. EventList. Data = ObjectEvent for Receipt Event. Define ReceivingEvent with: • action = OBSERVE • bizStep = urn:epcglobal:cbv:bizstep:receiving • disposition = urn:epcglobal:cbv:disp:in_progress
				eventTime		1...1 1/*	DateTime	Required. Timestamp of date/time when the event occurred. Must include a time zone indicator as specified in Section 9.5 of [EPCIS1.0.1]. ¹
				eventTimeZoneOffset		1...1 1/*	String	Required. Time zone offset in effect at time and place where the event occurred, consistent with what choice was made for eventTime . Per Section 7.2.8 of [EPCIS1.0.1]. ²
				epcList		1...1 -	-	Required. List of the EPCs of top-most containers (e.g. pallets, cases) in the shipment.
				epc		1...* 1/*	String	Required. The identifier of the child items in the parent container in EPC Pure Identity URI format. See EPC Pure Identifier Format Examples . ³
				action		1...1 0/*	String	Required. The action value must equal OBSERVE . ⁴
				bizStep		0...1 0/*	AnyURI	Required. The bizStep value must equal urn:epcglobal:cbv:bizstep:receiving . ⁵
				disposition		0...1 0/*	AnyURI	Required. The disposition value must equal urn:epcglobal:cbv:disp:in_progress . ⁶

¹2013-10-01T22:08:02Z²-04:00³urn:epc:id:sgtin:068202.0401034.11220207026272, urn:epc:id:sscc:030944.10105363280, http://epcis.tracelink.com/obj/cn-edmc/88102321100002005943, http://epcis.tracelink.com/obj/ntin/4150.001647778.100000000002⁴OBSERVE⁵urn:epcglobal:cbv:bizstep:receiving⁶urn:epcglobal:cbv:disp:in_progress

Data Element				Occurs Length	Type	Description
			readPoint	0...1 -	-	Required. The location where the event occurred, i.e. the warehouse GLN location ID and storage location (shelf, bin, etc.) in URN format, that recorded the Object event.
			id	1...1 0/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ¹
			bizTransactionList	0...1 -	-	Conditionally required if bizStep = <code>urn:epcglobal:cbv:bizstep:shipping</code> .
			bizTransaction	1...* 0/*	AnyURI	Required. This field is the business transaction identifiers for the Dispatch Advice (Advance Ship Notice) and/or invoice and/or purchase order governing this shipment, which are subject to Section 8.4.2 of (CBV1.0). The GLN that occurs after <code>urn:epcglobal:cbv:bt:</code> is the GLN of the party that issued the number (e.g. if customer issues PO Number, customer GLN is entered. If supplier issues ASN/delivery number supplier GLN is entered).²  A delivery number or ASN is mandatory. All other transaction types are optional. The transaction number requirements vary by region. It is recommended that the following are always provided, when available, to fulfill compliance needs: • Purchase Order Number • Invoice Number • ASN
			@type	1...1 1/*	String	Required. The transaction identifier type using the supported enumeration values (e.g. PO, ASN, RETURN).³ Mandatory if cmn:TransactionIdentifier is populated. A delivery number or ASN is mandatory. All other transaction types are optional. See the TransactionId enumeration list for valid values.
			@date	0...1 0/*	Date	Required. The transaction identifier date. ⁴
			extension	0...1 -	-	Main extension body for receipt event.  Source and Destination lists are optional even if party address master data is stored in the VocabularyElement in the

¹urn:epc:id:sgln:0614141.12345.RP1²urn:epcglobal:cbv:bt:0614141000029:9847856³urn:epcglobal:cbv:btt:desadv⁴2019-03-30

Data Element					Occurs Length	Type	Description
							EPCISMasterData extension in the message header.
				sourceList	0...1 -	-	Required. Source list identifies sending business, location, and carrier parties. sourceList supports one of two functions: VocabularyElement is populated with party address master data: sourceList identifies sold-from, ship-from, or carrier party. Party master data is mapped from VocabularyElement. VocabularyElement is not populated with party address master data: sourceList party identifiers used for master data lookup in the backend.
				source	1...* 0/*	String	Required. Source party identifier for sold-from, ship-from, or carrier parties. Party identifier in source either:¹ - Identifies sold-from, ship-from, or carrier party in populated VocabularyElement. Party address info is mapped from VocabularyElement. Nothing is mapped from VocabularyElement if there is no match between party identifier in sourceList source and VocabularyElement @id. sourceList/source supports master data lookup in TraceLink system. VocabularyElement is not populated or there is no match between party identifiers in source and VocabularyElement @id. If ship-from party the same as sold-from party, ship-from identifier does not need to be sent.  If the ship-from party is the same as the sold-from party, the ship-from identifier does not need to be sent.
				@type	1...* 0/*	String	Required. Type of source party identifier, i.e. owning (sold-from), location (ship-from), or carrier party. Valid values:² - Sold-from party = urn:epcglobal:cbv:sdt:owning_party Mandatory. - Ship-from party = urn:epcglobal:cbv:sdt:location (only include if identifier different from owning_party).
				destinationList	0...1 -	-	Required. Destination list identifies receiving business or location parties identified in header extensions level. destinationList supports one of two functions: VocabularyElement populated with party address master data: destinationList identifies sold-to, ship-to parties. Party master data mapped from VocabularyElement. VocabularyElement NOT populated with party address master data: destinationList party identifiers used for

¹urn:epc:id:sgln:088202.867701.0²urn:epcglobal:cbv:sdt:owning_party

Data Element						Occurs Length	Type	Description
								master data lookup in backend.
					destination	1...* 0/*	String	Required. Destination party identifier for sold-to or ship-to parties. Party identifier in destination either:¹ - Identifies sold-to or ship-to parties in populated VocabularyElement. Party address info mapped from VocabularyElement. Nothing is mapped from VocabularyElement if there is no match between party identifier in destinationList destination and VocabularyElement @id. - destinationList destination supports master data lookup in the TraceLink system. VocabularyElement is NOT populated or there is NO match between party identifiers in destination and VocabularyElement @id.  If ship-to party the same as sold-to party, ship-to identifier does not need to be included. See the MDPartyTypeAttributes enumeration list for valid values.
					@type	1...1 0/*	String	Required. Identifies type of destination party identifier, i.e. owning (sold-to) or location (ship-to) party. Valid values:² - Sold-to party = <code>urn:epcglobal:cbv:sdt:owning_party</code> (mandatory). - Ship-to party = <code>urn:epcglobal:cbv:sdt:location</code> (only include if identifier different from owning_party).
					tl:receivingEventExtensions	0...1 -	-	Receiving event with list of serial numbers being received from supplier's shipment.
					tl:transactionDate	1...1 -	Date	Required. Date associated with the business transaction document in bizTransactionList in YYYY-MM-DD format. This date may or may not be the same as the eventTime . ³
					tl:shipToCountryCode	1...1 2/2	String	Required. 2 letter ISO country code for ship to country. This value is referenced to advise regulatory reporting if it is mandatory for the specified country market.⁴ Setting this value alone does not trigger regulatory reporting. Actual triggering of regulatory reporting is governed by customer administrative configuration in the TraceLink system.
					tl:shipFromCountryCode	0...1 2/2	String	2 letter ISO country code for ship from country. This value is referenced to advise regulatory reporting if it is mandatory for the specified country market.⁵ Setting this value alone does not trigger regulatory reporting. Actual triggering of regulatory reporting is governed by customer administrative configuration in the TraceLink system.

¹urn:epc:id:sgln:033333.101365.0²urn:epcglobal:cbv:sdt:owning_party³2013-09-30⁴US⁵US

Data Element					Occurs Length	Type	Description
				tl:receiptDistributionType	1...1 1/*	String	Required. Informs what types of regulatory reporting may be triggered based on the nature of the transaction: a purchase, transfer, or return within the same country or a purchase, transfer, or return from another country. ¹ See the SalesDistType enumeration list for valid values.
				tl:supplyType	0...1	String	Conditionally required if tl:shipFromCountryCode = KR and tl:salesDistributionType = EXPORTSALE or EXPORTRETURN . All values except for Collection apply. Identifies the type of supply that is being performed using one of the permitted values. ² See the SupplyType enumeration list for valid values.
				tl:contractType	0...1 0/*	String	Conditionally required if tl:shipFromCountryCode = KR and tl:salesDistributionType = EXPORTSALE or EXPORTRETURN . Identifies the type of contract for the sale of goods using one of the permitted values. ³ See the ContractType enumeration list for valid values.
				tl:comments	0...1 0/*	String	Optional remarks or comments associated with delivery.
				tl:contractNumber	0...1 0/*	String	Identification number of the contract. ⁴
				tl:fundingSource	0...1 0/*	String	Required. Source of the funding. ⁵ See the FundingSource enumeration list for valid values.
				tl:transferWithoutShipment	0...1 0/*	String	Indicates that the serial numbers are already in an Available state because there is no associated shipment event. Valid values: true – Serial numbers are in the Available state false – (default) Serial numbers are in the Pending Receipt state.  Only use this element when tl:receiptDistributionType = INCOUNTRYTRANSFER or IMPORTTRANSFER.
				tl:entryPort	0...1 0/*	String	Name of the shipment's port of entry into a country (e.g. an airport, maritime port, border checkpoint).
				tl:exitPort	0...1 0/*	String	Name of the shipment's port of exit from a country (e.g. an airport, maritime port, border checkpoint).

¹INCOUNTRYSALE²PatientDistribution³CompetitiveBid⁴1234567⁵FederalBudgetFunds

Data Element					Occurs Length	Type	Description
				tl:deliveryInspection	0...1 0/*	String	The inspection status of the physical delivery against the delivery documentation. See the DeliveryInspection enumeration list for valid values.
				tl:deliveryInspectionDate	0...1 10/10	Date	The date of the physical delivery inspection against the delivery documentation in YYYY-MM-DD format. ¹
				tl:deliveryInspectionNote	0...1 0/*	String	Comments about the physical delivery inspection against the delivery documentation.
				tl:removalFromCirculation	0...1 0/*	String	Reason the product in the delivery is taken out of the supply chain. See the RemovalFromCirculation enumeration list for valid values.
				tl:aggregationInspection	0...1 0/*	String	The inspection status of the aggregation hierarchy of the container. See the AggregationInspection enumeration list for valid values.
				tl:orderItemList	0...1 -	-	Order item list group is populated to communicate the pick quantities for each item code at the EACH (unit) level.
				tl:orderItem	1...* -	-	Required. Order item group is a repeating element that captures the item code, lot number and quantity for each item in the order. Each unique item code and lot number are communicated in a separate order item group.
				tl:orderItemNumber	0...1 0/*	String	Order item number attribute associating specific serial numbers with the price, VAT, and cost taxes reported in a specific instance of tl:orderItem .
				choice%1	- -	-	Conditionally required if tl:shipFromCountryCode = KR . Populate only one of cmn:InternalMaterialCode or cmn:PackagingItemCode . One of the two options must be present. Populate only one of tl:InternalMaterialCode , tl:PackagingItemCode , or tl:countryDrugCode . One of the three options must be present.
				tl:internalMaterialCode	0...1 1/*	String	Conditionally required if neither tl:packagingItemCode nor tl:countryDrugCode is present. Option 1 for choice%1 in OrderItem . Use to identify the product using the internal material number configured in Product Master Data. ²
				tl:packagingItemCode	0...1 0/*	String	Conditionally required if neither tl:internalMaterialCode nor tl:countryDrugCode is present. Option 2 for choice%1 in OrderItem . Use to identify the product using the packaging level item code (e.g. GTIN-14) configured in Product Master Data. ³
				@type	0...1 0/*	String	Required. The product code type for the packaging item code using the supported enumeration values (e.g. GTIN-14).

¹2021-12-21²100234³00882025030223

Data Element								Occurs Length	Type	Description
										See the ItemCode enumeration list for valid values.
							tl:countryDrugCode	0...1 0/*	String	Conditionally required if neither tl:internalMaterialCode nor tl:packagingItemCode is present. Option 3 for choice%1 in OrderItem . Use to identify the product using the country drug code configured in Product Master Data. ¹
							@type	0...1 0/*	String	Required. The national drug code type using the supported enumeration values (e.g. US_NDC442). See the CountryDrugCode enumeration list for valid values.
							cbvmdata:lotNumber	0...1 0/*	String	Conditionally required if tl:shipFromCountryCode = KR and tl:isSerialized = false . The lot or batch code for the items to be picked (if available) in an alphanumeric string. ²
							cbvmdata:itemExpirationDate	0...1 1/*	Date	The expiration date for the serialized item in YYYY-MM-DD format. ³
							tl:quantity	1...1 0/*	String	Conditionally required if tl:shipFromCountryCode = KR and tl:isSerialized = false . The quantity of items at the EACH (unit) level of the item code and lot if specified to be picked. ⁴
							tl:unitPrice	0...1 0/*	Decimal	Required. Unit price of item. ⁵
							@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ⁶
							tl:vat	0...1 -	Decimal	Value Added Tax per unit. ⁷
							@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ⁸ See the ISOCurrency enumeration list for valid values.
							tl:grossPrice	0...1 -	Decimal	Gross price including unit price and all taxes and fees. ⁹

¹0069-4220-66²A12345³2017-12-31⁴50⁵35.67⁶USD⁷152.22⁸USD⁹152.22

Data Element								Occurs Length	Type	Description
							@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ¹ See the ISO Currency enumeration list for valid values.
							tl:isSerialized	0...1 0/*	Boolean	Indicates if item is not serialized. If omitted, defaults to <code>true</code> . ²
							tl:transactionIdentifier	0...* 0/*	String	Transaction identifier at the line-item level of shipment. More than one transaction identifier may be present. ³
							@type	1...1 1/*	String	Required. The transaction identifier type. Valid values: <code>DESTRUCTION</code> <code>INVOICE</code> <code>NOTAFISCAL</code> <code>OTHER</code> <code>PO</code> <code>RETURN</code>
							@date	0...1 0/*	Date	Conditionally required if <code>tl:shipToCountryCode</code> = <code>RU</code> . The transaction identifier date. ⁴
							tl:warehouseOperatorName	0...1 0/*	String	Name of the person responsible for warehouse operations.
							tl:correctiveReceipt	0...1 0/*	Boolean	Indicates that a new Serialized Operations Manager receipt is correcting a previously voided Serialized Operations Manager receipt. Valid values: <code>false</code> – (default) The receipt is not a corrective receipt. <code>true</code> – The receipt is a corrective receipt.
							tl:originalDeliveryNumber	0...1 0/*	String	Original delivery number. Records the original delivery number that is replaced when a receipt is voided and corrections are made to that receipt.

Example

¹USD²true³PO303005⁴2019-03-30

```

<?xml version="1.0" encoding="UTF-8"?>
<epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda" xmlns:epcis="urn:epcglobal:epcis:xsd:1"
xmlns:gslushc="http://epcis.gslus.org/hc/ns" xmlns:tl="http://epcis.tracelink.com/ns"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader" schemaVersion="1.2"
creationDate="2017-08-31T17:45:20.0Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier Authority="GLN">8779891013658</sbdh:Identifier>
      </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier Authority="GLN">8887771013655</sbdh:Identifier>
      </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>2019082106310032</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2019-07-25T15:39:53Z</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
    <extension>
      <EPCISMasterData>
        <VocabularyList>
          <Vocabulary type="urn:epcglobal:epcis:vtype:Location">
            <VocabularyElementList>
              <VocabularyElement id="urn:epc:id:sgln:9997777.01994.0">
                <attribute id="urn:epcglobal:cbv:mda#name">Clara Manufacturing</attribute>
                <attribute
id="http://epcis.tracelink.com/mda/additionalIdentifier">712333444</attribute>
                <attribute
id="http://epcis.tracelink.com/mda/additionalIdentifierType">DEA</attribute>
                <attribute
id="http://epcis.tracelink.com/mda/partyRoleCode">MANUFACTURER</attribute>
                <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">10 Welsh St</attribute>
                <attribute id="urn:epcglobal:cbv:mda#city">Malden</attribute>
                <attribute id="http://epcis.tracelink.com/mda/district"></attribute>
              </VocabularyElement>
            </VocabularyElementList>
          </Vocabulary>
        </VocabularyList>
      </EPCISMasterData>
    </extension>
  </EPCISHeader>
</epcis:EPCISDocument>

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```

        <attribute id="http://epcis.tracelink.com/mda/village"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/houseNumber"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/township"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/corporateFax"></attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">MA</attribute>
        <attribute id="urn:epcglobal:cbv:mda#postalCode">02148</attribute>
        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        <attribute id="http://epcis.tracelink.com/mda/AddressObjectGUID"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/HouseGUID"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/partyRoleCode"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/premisesCode"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/taxRegistrationCode"></attribute>
    </VocabularyElement>
    <VocabularyElement id="urn:epc:id:sgln:9297187.01994.0">
        <attribute id="urn:epcglobal:cbv:mda#name">Watson Wholesaler</attribute>
        <attribute
id="http://epcis.tracelink.com/mda/additionalIdentifier">512333444</attribute>
        <attribute
id="http://epcis.tracelink.com/mda/additionalIdentifierType">DEA</attribute>
        <attribute
id="http://epcis.tracelink.com/mda/businessClassification">WHOLESALE</attribute>
        <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">555 Neelan Road</attribute>
        <attribute id="urn:epcglobal:cbv:mda#city">Sacramento</attribute>
        <attribute id="http://epcis.tracelink.com/mda/district"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/village"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/houseNumber"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/township"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/corporateFax"></attribute>
        <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
        <attribute id="urn:epcglobal:cbv:mda#postalCode">95833</attribute>
        <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
        <attribute id="http://epcis.tracelink.com/mda/AddressObjectGUID"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/HouseGUID"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/partyRoleCode"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/premisesCode"></attribute>
        <attribute id="http://epcis.tracelink.com/mda/taxRegistrationCode"></attribute>
    </VocabularyElement>
</VocabularyElementList>
</Vocabulary>

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        </VocabularyList>
    </EPCISMasterData>
</extension>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <AggregationEvent>
            <eventTime>2019-09-25T00:12:23.8Z</eventTime>
            <eventTimeZoneOffset>-04:00</eventTimeZoneOffset>
            <parentID>urn:epc:id:sscc:005434.40000000021</parentID>
            <childEPCs>
                <epc>urn:epc:id:sgtin:068202.0401034.11220207024596</epc>
                <epc>urn:epc:id:sgtin:068202.0401034.11220207024597</epc>
            </childEPCs>
            <action>ADD</action>
            <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
            <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:8887777.01384.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:8887777.01384.0</id>
            </bizLocation>
        </AggregationEvent>
        <!-- Receiving -->
        <ObjectEvent>
            <eventTime>2019-09-25T00:12:23.8Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sscc:005434.40000000020</epc>
            </epcList>
            <action>OBSERVE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
            <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:8887777.01384.0</id>
            </readPoint>
            <bizLocation>
                <id>urn:epc:id:sgln:8887777.01384.0</id>
            </bizLocation>
        </ObjectEvent>
    </EventList>
</EPCISBody>
</EPCIS>

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```

    </bizLocation>
    <bizTransactionList>
      <bizTransaction type="urn:epcglobal:cbv:btt:desadv" date="2019-09-
25">urn:epcglobal:cbv:bt:8779891013658:987654321</bizTransaction>
      <bizTransaction type="urn:epcglobal:cbv:btt:po" date="2019-09-
25">urn:epcglobal:cbv:bt:9297187019944:4747880013</bizTransaction>
      <bizTransaction type="urn:epcglobal:cbv:btt:inv" date="2019-09-
25">urn:epcglobal:cbv:bt:9997777019940:987654321</bizTransaction>
    </bizTransactionList>
    <extension>
      <sourceList>
        <source type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:9997777.01994.0</source>
      </sourceList>
      <destinationList>
        <destination type="urn:epcglobal:cbv:sdt:owning_
party">urn:epc:id:sgln:9297187.01994.0</destination>
      </destinationList>
    </extension>
    <tl:receivingEventExtensions>
      <tl:transactionDate>2019-07-25</tl:transactionDate>
      <tl:shipToCountryCode>US</tl:shipToCountryCode>
      <tl:shipFromCountryCode>US</tl:shipFromCountryCode>
      <tl:receiptDistributionType>INCOUNTRYTRANSFER</tl:receiptDistributionType>
      <tl:supplyType>MedicalCareDistribution</tl:supplyType>
      <tl:contractType>PrivateContract</tl:contractType>
      <tl:contractNumber>C102</tl:contractNumber>
      <tl:fundingSource>OwnFunds</tl:fundingSource>
      <tl:transferWithoutShipment>false</tl:transferWithoutShipment>
      <tl:entryPort></tl:entryPort>
      <tl:exitPort></tl:exitPort>
      <tl:epcOrderItemDetails>
        <tl:epcOrderItemList orderItemNumber="15">
          <tl:epcOrderItem>urn:epc:id:sscc:005434.400000000021</tl:epcOrderItem>
        </tl:epcOrderItemList>
      </tl:epcOrderItemDetails>
      <tl:orderItemList>
        <tl:orderItem>
          <tl:orderItemNumber>15</tl:orderItemNumber>
          <tl:packagingItemCode type="GTIN-14">00992326050107</tl:packagingItemCode>

```

```

        <cbvmda:lotNumber>L120012</cbvmda:lotNumber>
        <cbvmda:itemExpirationDate>2029-07-25</cbvmda:itemExpirationDate>
        <tl:quantity>5</tl:quantity>
        <tl:unitPrice currencyCode="USD">89.55</tl:unitPrice>
        <tl:vat currencyCode="USD">10.45</tl:vat>
        <tl:grossPrice currencyCode="USD">100.00</tl:grossPrice>
        <tl:isSerialized>true</tl:isSerialized>
        <tl:transactionIdentifier type="PO" date="2019-03-30">TI007</tl:transactionIdentifier>
    </tl:orderItem>
</tl:orderItemList>
    <tl:warehouseOperatorName>Patrick Murphy</tl:warehouseOperatorName>
    <tl:correctiveReceipt>false</tl:correctiveReceipt>
    <tl:originalDeliveryNumber>False9022413</tl:originalDeliveryNumber>
</tl:receivingEventExtensions>
</ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

Errors

Data Element	Error Message	Description
Class 1		
sbdh:Sender sbdh:Identifier @Authority	Valid Sender/Identifier Authority is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
sbdh:Receiver sbdh:Identifier @Authority	Valid Receiver/Identifier Authority is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement	Sold from party identifier is required !!!	The error occurs if sold from party does not exist as a VocabularyElement @id .
VocabularyElement @id	Valid sold from business party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.

Data Element	Error Message	Description
VocabularyElement attribute	Sold from business party name is required !!!	The error occurs if the source is empty or null.
	Party type is required if additional business party identifier is populated !!!	The error occurs if additionalIdentifier is populated, but the source is empty or null.
	Valid sold from business party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Valid business classification code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Sold from business party street address is required !!!	The error occurs if the source is empty or null.
	Sold from business party city is required !!!	The error occurs if the source is empty or null.
	3-digit numeric District code required for country India !!!	The error occurs if country= IN, but district is not a 3-digit numeric code.
	Sold from business party state or region is required !!!	The error occurs if the source is empty or null.
	Sold from business party country is required !!!	The error occurs if the source is empty or null.
	Valid Sold from business party country is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement	Ship from party info required in VocabularyElement if present in sourceList !!!	The error occurs if ship from is present in sourceList, but not in VocabularyElement.
VocabularyElement @id	Valid ship from business party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.

Data Element	Error Message	Description
VocabularyElement attribute	Ship from business party name is required !!!	The error occurs if the source is empty or null.
	Party type is required if additional facility identifier is populated !!!	The error occurs if additionalIdentifier is populated, but the source is empty or null.
	Valid ship from location identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Ship from location street address is required !!!	The error occurs if the source is empty or null.
	Ship from location city is required !!!	The error occurs if the source is empty or null.
	Ship from location state or region is required !!!	The error occurs if the source is empty or null.
	Ship from location country is required !!!	The error occurs if the source is empty or null.
	Valid Ship from location country is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement	Sold to party identifier is required !!!	The error occurs if ship to is present in destinationList, but not in the source.
VocabularyElement @id	Valid sold to business party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement attribute	Sold to business party name is required !!!	The error occurs if the source is empty or null.
	Valid sold to business party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Sold to business party street address is required !!!	The error occurs if the source is empty or null.
	Sold to business party city is required !!!	The error occurs if the source is empty or null.
	Sold to business party state or region is required !!!	The error occurs if the source is empty or null.
	Sold to business party country is required !!!	The error occurs if the source is empty or null.
	Valid Sold to business party country is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement	Ship to party info required in VocabularyElement if present in destinationList !!!	The error occurs if ship to is present in destinationList, but not in the source.
VocabularyElement @id	Valid ship to business party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry

Data Element	Error Message	Description
		in the lookup file.
VocabularyElement attribute	Ship to business party name is required !!!	The error occurs if the source is empty or null.
	Valid ship to location identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Ship to location street address is required !!!	The error occurs if the source is empty or null.
	Ship to location city is required !!!	The error occurs if the source is empty or null.
	Ship to location state or region is required !!!	The error occurs if the source is empty or null.
	Ship to location country is required !!!	The error occurs if the source is empty or null.
	Valid Ship to location country is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement	Carrier party info required in VocabularyElement if present in sourceList !!!	The error occurs if carrier party is present in sourceList, but not in VocabularyElement.
VocabularyElement @id	Valid carrier business party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement attribute	Carrier business party name is required !!!	The error occurs if the source is empty or null.
	Valid carrier business party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Carrier business party street address is required !!!	The error occurs if the source is empty or null.
	Carrier business party city is required !!!	The error occurs if the source is empty or null.
	Carrier business party state or region is required !!!	The error occurs if the source is empty or null.
	Carrier business party country is required !!!	The error occurs if the source is empty or null.
	Valid Carrier business party country is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
choice	At least one object event for receiving is required !!!	The error occurs if the source is empty or null.

Data Element	Error Message	Description
AggregationEvent parentID	Invalid EPC format !!!	The error occurs if the value cannot be translated.
	Serial number in source epc is required !!!	The error occurs if the source is empty or null.
	Invalid EPC format !!!	The error occurs if the source is invalid.
childEPCs epc	Invalid EPC format !!!	The error occurs if the source is invalid or cannot be translated.
AggregationEvent bizStep	bizStep urn:epcglobal:cbv:bizstep:packing is required for the AggregationEvent !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:packing" for a aggregation event.
AggregationEvent disposition	Disposition urn:epcglobal:cbv:disp:in_progress is required for the AggregationEvent !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:in_progress".
bizLocation id	Event location in the aggregation event is required !!!	The error occurs if the source is empty or null.
tl:extensionField tl:fieldName	Field name is required if ExtensionField group present in source !!!	The error occurs if tl:extensionField group is populated, but the source is empty or null.
tl:extensionField tl:fieldValue	Field value is required if ExtensionField group present in source !!!	The error occurs if tl:extensionField group is populated, but the source is empty or null.
ObjectEvent (Receiving Events)	Receiving event data is required !!!	The error occurs if the required source is missing or null.
	Only one receiving event is required !!!	The error occurs if more than one receiving event is present.
epcList epc	Invalid EPC format !!!	The error occurs if the source is invalid or cannot be translated.
ObjectEvent (Receiving Events) bizStep	bizStep urn:epcglobal:cbv:bizstep:receiving is required for ObjectEvent receiving !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:receiving" for a receiving event.
ObjectEvent (Receiving Events) disposition	Disposition urn:epcglobal:cbv:disp:in_progress is required for ObjectEvent receiving !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:in_progress".
ObjectEvent (Receiving Events) readPoint id	Event location in the receiving event is required !!!	The error occurs if the source is empty or null.
bizTransactionList	Biz transaction list is required in receiving event !!!	The error occurs if the source is empty or null.
bizTransaction @type	Valid bizTransaction type is required if bizTransaction is populated !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.

Data Element	Error Message	Description
source	Valid sold-from business lookup identifier type is required !!!	The error occurs if the source is invalid.
	Valid ship-from business lookup identifier type is required !!!	The error occurs if the source is invalid.
	Valid carrier business lookup identifier type is required !!!	The error occurs if the source is invalid.
destination	Valid sold-to business lookup identifier type is required !!!	The error occurs if the source is invalid.
	Valid ship-to business lookup identifier type is required !!!	The error occurs if the source is invalid.
tl:receivingEventExtensions	receivingEventExtensions required if receiving event populated !!!	The error occurs if the source is empty or null.
tl:shipToCountryCode	Valid ISO country code for ship-to country is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
tl:shipFromCountryCode	Valid ISO country code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Ship from country for import products is required !!!	The error occurs if ReceiptDistributionType = "IMPORTSALE", "IMPORTTRANSFER", or "IMPORTRETURN", but the source is empty or null.
tl:receiptDistributionType	Valid receipt distributionType is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
choice1	One of internalMaterialCode or packagingItemCode is required !!!	The error occurs if both tl:internalMaterialCode and tl:packagingItemCode are empty or null.
tl:packagingItemCode @type	Packaging item code type is required !!!	The error occurs if tl:packagingItemCode is populated, but the source is empty or null.
tl:unitPrice @currencyCode	Valid ISO currency code is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
tl:warehouseOperatorName	Warehouse operator name for China product is required !!!	The error occurs if epcList epc = "http://epcis.tracelink.com/obj/cn-edmc/", but source is empty or null.
Class 2		
bizTransaction @date	Transaction Identifier Date is required if Ship To Country Code = RU.	The error occurs if tl:shipToCountryCode = "RU" but the source is empty or null.

Data Element	Error Message	Description
tl:shipToCountryCode	Serialized Operations Manager Receipt inbound processing could not be completed. Both the ShipToCountryCode and ShipFromCountryCode must be specified when the Sender Info and ReceiverInfo are not specified.	The error occurs if the sourceList and destinationList are both omitted, and tl:shipToCountryCode and tl:ShipFromCountrycode are empty or null.
tl:shipFromCountryCode		
tl:fundingSource	Funding Source is required if Ship To Country Code is RU and Ship From Country Code is RU.	The error occurs if both tl:shipToCountryCode and tl:shipFromCountryCode = "RU", but the source is empty or null.
tl:unitPrice	Unit Price is required if Ship To Country Code is RU and Ship From Country Code is any of RU, AM, BY, KZ, KG.	The error occurs if tl:shipToCountryCode = "RU" and tl:shipFromCountryCode = "AM", "BY", "KG", "KZ", or "RU", but the source is empty or null.
tl:transactionIdentifier @date	Order Item Transaction Identifier Date is required if Ship To Country Code = RU.	The error occurs if tl:shipToCountryCode = "RU" but the source is empty or null.
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

ESM Receipt (XML)

Guidelines

This message uses the Park and Retry functionality. If a prerequisite condition for this message has not been met, TraceLink stops processing the task, returns the task to the queue, and then tries to process the task again every 15 minutes for up to 2 hours.

Message Type: SOM_ESM_RECEIPT

Info Exchange Display Name: ESM Receipt

❗ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

Data Element			Occurs Length	Type	Description
som:SOMReceiptMessage			1...1 -	-	Required. Root element of message.
	som:ControlFileHeader		1...1 -	-	Required. The message document's header information.
		cmn:FileSenderNumber	1...1 1/20	String	Required. The company identifier of the file's sender. ¹
		cmn:FileReceiverNumber	1...1 1/20	String	Required. The company identifier of the file's recipient. ²
		cmn:FileControlNumber	1...1 1/20	String	Required. The message's unique file control ID number. A file control ID number is mandatory for all messages. ³
		cmn:FileDate	1...1 10/10	Date	Required. The date that the message is sent in YYYY-MM-DD format. Date and times must be in GMT. ⁴
		cmn:FileTime	1...1 9/9	Time	Required. Time file generated in XML in HH:MM:SSZ format. The system expects the <u>Z</u> to be appended; however, if it is not included, the system assumes that the time is GMT and therefore appends the <u>Z</u> . ⁵
	som:MessageBody		1...1 -	-	Required. Main body of the message.
		cmn:LocationId	1...1 0/34	String	Specifies the facility or warehouse identifier to scope the Sales Shipment Status update for the serial numbers matching the specified item code and lot number. ⁶ If the location is omitted, the Sales Shipment status update is applied globally to all matching serial numbers in the system.
		cmn:DeliveryNumber	1...1 1/*	String	Required. Links the order information to the serialized receive information for this customer delivery. ⁷

¹8888882028655²8888882028677³0000000001⁴2012-06-30⁵06:30:32Z⁶8888882028655⁷4520010

Data Element				Occurs Length	Type	Description
			cmn:DeliveryCompleteFlag	1...1 1/*	Boolean	Required. Instructs TraceLink to process the outbound delivery, update the status of all serial numbers and child aggregations to be shipped, and trigger generation of regulatory reporting messages based on customer configuration.¹ If all of the information (order detail and received serial numbers) is in a single message, the delivery complete flag is set to true. If only partial information is in the message (e.g. order detail only, received items sent incrementally, etc.) the delivery complete flag is set to false for all intermediate messages, and then set to true when the delivery is complete and all information has been communicated to TraceLink.  Values must be lower case only. True or TRUE will throw an error.
			cmn:RegisterUnknownSNs	0...1 0/*	Boolean	Determines if serial numbers that are not known to SOM should be registered or not. Valid values: true – All serial numbers that do not currently exist in SOM are registered in the Available state. false – All serial numbers that do not currently exist in SOM are rejected.
			som:OrderDetails	1...1 -	-	Required. Includes business transaction identifier and date, order item receive list, and sender and recipient information. This element is mandatory before the delivery complete flag can be set, though it can be communicated at any time (e.g. with, before, or after the received serial numbers have been communicated).
			cmn:CorrectiveReceipt	0...1 0/*	Boolean	Indicates that a new Serialized Operations Manager receipt is correcting a previously voided Serialized Operations Manager receipt. Valid values: false – (default) The receipt is not a corrective receipt. true – The receipt is a corrective receipt.
			cmn:OriginalDeliveryNumber	0...1 0/*	String	Original delivery number. Records the original delivery number that is replaced when a receipt is voided and corrections are made to that receipt.
			cmn:EntryPort	0...1 0/*	String	Name of the shipment's port of entry into a country (e.g. an airport, maritime port, border checkpoint).
			cmn:ExitPort	0...1 0/*	String	Name of the shipment's port of exit from a country (e.g. an airport, maritime port, border checkpoint).

¹true

Data Element				Occurs Length	Type	Description
			cmn:TransactionIdentifier	1...* 1/*	String	Required. Identifier associated with the received serial numbers, for regulatory reporting purposes. ¹ At least one transaction id is mandatory.
			@type	1...1 1/*	String	Required. The transaction identifier type using supported enumeration values (e.g. ASN , PO , RETURN). ² See the TransactionId enumeration list for valid values.
			@date	0...1 0/*	Date	Required. The transaction identifier date. ³
			cmn:TransactionDate	1...1 1/*	Date	Required. The date of the message in YYYY-MM-DD format. ⁴
			cmn:TransactionTime	0...1 0/*	Time	The time of the message in HH:MM:SS format. ⁵
			cmn:ShipToCountryCode	1...1 2/2	String	Required. ISO country code for ship to country. Provides application with the information it needs to trigger regulatory reporting in response to relevant events. ⁶ See the ISOCountryCode enumeration list for valid values.
			cmn:ShipFromCountryCode	0...1 2/2	String	Conditionally required if the product is being exported from country (e.g. when ReceiptDistributionType = EXPORTSALE , EXPORTTRANSFER , or EXPORTRETURN). ISO country code for ship from country. Provides application with the information it needs to trigger regulatory reporting in response to relevant events. ⁷ See the ISOCountryCode enumeration list for valid values.
			cmn:ReceiptDistributionType	1...1 1/*	String	Required. Advises the application of sale (change of ownership of the product) and transfer (no change of ownership of product, but physical movement of product) for application and regulatory reporting purposes. The actual triggering of regulatory reporting is governed by the configuration in TraceLink. ⁸ INCOUNTRYTRANSFER and EXPORTTRANSFER include:

¹P0303005²PO³2019-03-30⁴2017-05-30⁵02:23:55⁶US⁷US⁸INCOUNTRYSALE

Data Element				Occurs Length	Type	Description
						- Intra-company warehouse transfer of goods. - Transfers between Manufacturer (Brand Owner) and 3PL. - Transfers between Manufacturer (Brand Owner) and CMO/CPO. - Transfers between CMO/CPO and 3PL of Manufacturer (Brand Owner).  Setting this value alone does not trigger regulatory reporting. See the ReceiptDistributionType enumeration list for valid values.
			cmn:TransferWithoutShipment	0...1 0/*	Boolean	Indicates that the serial numbers are already in an Available state because there is no associated shipment event. Valid values: true – Serial numbers are in the Available state. false – (default) Serial numbers are in the Pending Receipt state. Only use when tl:receiptDistributionType = INCOUNTRYTRANSFER or IMPORTTRANSFER.
			cmn:SupplyType	0...1 0/*	String	Conditionally required if cmn:ShipFromCountryCode = KR and cmn:ReceiptDistributionType = EXPORTSALE or EXPORTRETURN; All values except for Collection apply.: Identifies the type of supply that is being performed using a valid value from the enumerations list. See the SupplyType enumeration list for valid values.
			cmn:ContractType	0...1 0/*	String	Conditionally required if cmn:ShipFromCountryCode = KR and cmn:ReceiptDistributionType = EXPORTSALE or EXPORTRETURN. Identifies the type of contract for the sale of goods using a valid value from the enumerations list. See the ContractType enumeration list for valid values.
			cmn:Comments	0...1 0/*	String	Optional remarks or comments regarding with delivery.
			cmn:ContractNumber	0...1 0/*	String	Identification number of the contract. ¹
			cmn:FundingSource	0...1	String	Required. Source of the funding. ²

¹1234567²FederalBudgetFunds

Data Element						Occurs Length	Type	Description
								See the FundingSource enumeration list for valid values.
				cmn:DeliveryInspection		0...1 0/*	String	The inspection status of the physical delivery against the delivery documentation. See the DeliveryInspection enumeration list for valid values.
				cmn:DeliveryInspectionDate		0...1 10/10	Date	The date of the physical delivery inspection against the delivery documentation in YYYY-MM-DD format. ¹
				cmn:DeliveryInspectionNote		0...1 0/*	String	Comments about the physical delivery inspection against the delivery documentation.
				cmn:RemovalFromCirculation		0...1 0/*	String	Reason the product in the delivery is taken out of the supply chain. See the RemovalFromCirculation enumeration list for valid values.
				cmn:AggregationInspection		0...1 0/*	String	The inspection status of the aggregation hierarchy of the container. See the AggregationInspection enumeration list for valid values.
				cmn:OrderItemList		1...1 -	-	Conditionally required. Order item list group is populated to communicate the expected receive quantities for each item code at the EACH (unit) level. This information verifies the actual serial number received, the correct product, the correct lot number (if provided), and the correct each quantity.
				cmn:AllowShortVerificationCount		0...1 0/*	Boolean	When set to true , allows the count to come up short without an error. If set to false , an error is thrown if the count does not match what is expected. ²
				cmn:OrderItem		1...* -	-	Required. A repeating element that captures the item code, lot number, and quantity for each item that will be received for the order. Each unique item code and lot number are communicated in a separate order item group.
				cmn:OrderItemNumber		0...1 0/*	String	Order item number attribute associating specific serial numbers with the price, VAT, and cost taxes reported in a specific instance of cmn:OrderItem .
				choice1%		1...1 -	Choice	Required. Populate only one of cmn:InternalMaterialCode , cmn:PackagingItemCode , or cmn:CountryDrugCode . One of the three options must be present.
				cmn:InternalMaterialCode		0...1 1/*	String	Conditionally required if neither cmn:PackagingItemCode nor cmn:CountryDrugCode is present. Option 1 for OrderItem choice1% . Use to identify the product using the internal

¹2021-12-21²true

Data Element						Occurs Length	Type	Description
								1
					cmn:PackagingItemCode	0...1 1/*	String	Conditionally required if neither cmn:InternalMaterialCode nor cmn:CountryDrugCode is present. Option 2 for OrderItem choice1% . Use to identify the product using the packaging level item code (e.g. GTIN-14) configured in Product Master Data. ²
					@type	1...1 1/*	String	Required. The product code type for the packaging item code using the supported enumeration values (e.g. GTIN-14). ³ See the ItemCode enumeration list for valid values.
					cmn:CountryDrugCode	0...1 1/*	String	Conditionally required if neither cmn:InternalMaterialCode nor cmn:PackagingItemCode is present. Option 3 for choice%1 in OrderItem . Use to identify the product using the country drug code configured in Product Master Data. ⁴
					@type	0...1 0/*	String	The national drug code type using the supported enumeration values. ⁵ See the CountryDrugCode enumeration list for valid values.
					cmn:LotNumber	0...1 0/*	String	Conditionally required if cmn:ShipFromCountryCode = KR and cmn:IsSerialized = false . The lot or batch code for the items to be received (if available) in an alphanumeric String. ⁶
					cmn:ExpirationDate	0...1 0/*	Date	Expiration date for product in YYYY-MM-DD format. ⁷
					cmn:Quantity	1...1 1/*	Integer	Conditionally required if cmn:ShipFromCountryCode = KR and cmn:IsSerialized = false . The quantity of items at the EACH (unit) level of the item code and lot if specified to be received. ⁸
					cmn:UnitPrice	0...1 1/*	Decimal	Required. The unit price of an item. ⁹
					@currencyCode	1...1	String	Required. Currency ISO code using ISO 4217-2015 format. ¹⁰

¹100253²00882026030229³GTIN-14⁴0069-4220-66⁵US_NDC442⁶A12345⁷2018-08-15⁸480⁹50.43¹⁰USD

Data Element						Occurs Length	Type	Description
					cmn:VAT	0...1 -	Decimal	Value Added Tax per unit. ¹
					@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ² See the ISOCurrency enumeration list for valid values.
					cmn:GrossPrice	0...1 -	Decimal	Gross price including unit price and all taxes and fees. ³
					@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ⁴ See the ISOCurrency enumeration list for valid values.
					cmn:IsSerialized	0...1 0/*	Boolean	Conditionally required. Indicates if the item is not serialized. ⁵  If omitted, and cmn:OrderItem exists, defaults value to true .
					cmn:TransactionIdentifier	0...* 0/*	String	Transaction identifier at the line-item level of shipment. More than one transaction identifier may be present. ⁶
					@type	1...1 1/*	String	Required. The transaction identifier type. Valid values: • DESTRUCTION • INVOICE • NOTAFISCAL • OTHER • PO • RETURN

¹152.22²USD³152.22⁴USD⁵false⁶PO303005

Data Element							Occurs Length	Type	Description	
						@date	0...1 0/*	Date	Required. The transaction identifier date. ¹	
			cmn:SenderInfo				1...1 -	-	Required. Information about the supply chain partner that is sending the shipment. Contains XML choice elements of FromBusinessParty and ShipFromLocation that govern whether to use master data lookup to populate the address, license, and contact elements. Only one option in choice1% may be populated.	
				choice1%				1...1 -	Choice	Required. One of the following options: - Option 1: Contains only cmn:FromBusinessPartyLookupId. - Populate this element only if master data lookup is desired. - Option 2: Contains full cmn:FromBusinessPartyInfo business address the customer populates directly in the interface. - Populate this element fully only if master data lookup is not desired.
				cmn:FromBusinessPartyLookupId				0...1 1/*	String	Conditionally required if full business address is provided in cmn:FromBusinessPartyInfo option. Option 1 for senderInfo choice1% group. ² A lookup identifier associated with the sold-from business entity. This value is used as the lookup key in master data to populate the details in cmn:FromBusinessPartyInfo .
					@type			1...1 1/*	String	Conditionally required if full business address is not provided in cmn:FromBusinessPartyInfo option. The type of the sold from business entity identifier from the provided enumeration list. ³ See the BusinessLookupId enumeration list for valid values.
				cmn:FromBusinessPartyInfo				0...1 -	-	Conditionally required if cmn:FromBusinessPartyLookupId to leverage master data lookup is not populated. Option 2 for senderInfo choice1% group. The full business information associated with the sold from business entity is provided.
					cmn:BusinessId			1...* 1/*	String	Required. The identifier associated with the sold from business entity. Mandatory for regulatory reporting. ⁴
						@type	1...1 1/*	String	Required. The type of the BusinessId identifier. ⁵	

¹2019-03-30²115740³COMPANYID⁴8888882028677⁵GLN

Data Element							Occurs Length	Type	Description
									❗ Only one of the following values may be used per message: - RU_INN_FOREIGN_ENTITY - RU_INN_INDIV - RU_INN_LOCAL_ENTITY See the BusinessAndLocationId enumeration list for valid values.
					cmn:BusinessClassification		0...1 0/*	String	Business classification. ¹ See the BusinessClassification enumeration list for valid values.
					cmn:BusinessInfo		0...1 -	-	The business name and address of the sold from business entity.
					cmn:BusinessName		1...1 0/*	String	Required. The business name of the trading partner. ²
					cmn:Street1		1...1 0/*	String	Required. The first line of the street address. ³
					cmn:Street2		0...1 0/*	String	The second line of the street address. ⁴
					cmn:City		1...1 1/*	String	Required. The city. ⁵
					cmn:Village		0...1 0/*	String	Name of the village in which the company is located.
					cmn:HouseNumber		0...1 0/*	String	Building, house, or unit number of the company. House numbers are usually only separated from the street address in China. For all addresses outside of China, continue to enter the building, house, or unit number in Street1 .
					cmn:Township		0...1	String	Name of the township in which the company is located.

¹MANUFACTURER²Kendall Pharma³300 Trade Center⁴Suite 7690⁵Woburn

Data Element						Occurs Length	Type	Description
					cmn:District	0...1 0/*	String	District Code. ¹  Must be a 3-digit numeric code.
					cmn:StateOrRegion	1...1 0/*	String	Required. The state, province, or region using the standard two-letter abbreviation specified in ISO 3166-2:1998 country subdivision code. ²
					cmn:PostalCode	1...1 0/*	String	Required. The ZIP or other postal code. ³
					cmn:Country	0...1 0/*	String	Required. The country using the standard two-letter abbreviation specified in ISO 3166-1alpha-2:1997 country code. ⁴
					cmn:CorporateFax	0...1 0/*	String	Company fax number.
					cmn:AddressObjectGUID	0...1 0/*	String	The global identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum of 36 characters, using the digits 0-9 and letters A-F.
					cmn:HouseGUID	0...1 0/*	String	The global house identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum of 36 characters, using the digits 0-9 and letters A-F.
					cmn:TaxRegistrationCode	0...1 0/*	String	The code used to identify this entity for tax or other legal reporting purposes (e.g. a Russia KPP Registration Code).
					cmn:PremisesCode	0...1 0/*	String	Identifier representing a physical area within the company location (e.g. a location's second floor).
				choice2%		0...1	Choice	Optional choice element (no error if neither are present):

¹035²MA³01801⁴US

Data Element					Occurs Length	Type	Description
							- Option 1: Contains only the cmn:ShipFromLocationLookupId. - Populate this element only if master data lookup is desired. - Option 2: Contains full cmn:ShipFromLocationInfo business address fielded data that will be populated by the customer directly in the interface. - Populate this element fully only if master data lookup is not desired.
				cmn:ShipFromLocationLookupId	0...1 1/*	String	Required. Option 1 for senderInfo choice2% group. ¹ A lookup identifier associated with the ship from location. Use this value as the lookup key in master data to populate the details in cmn:ShipFromLocationInfo .
				@type	1...1 1/*	String	Conditionally required if full business address is not provided in cmn:ShipFromLocationInfo option. The type of the ship from location identifier using the enumeration list. ² See the LocationLookupId enumeration list for valid values.
				cmn:ShipFromLocationInfo	0...1 -	-	Required. Option 2 for senderInfo choice2% group. The full business information associated with the ship from location is provided directly.
				cmn:FacilityId	0...* 0/*	String	Required. The ship from location identifier. ³
				@type	1...1 1/*	String	Required. The type of the cmn:FacilityId identifier. ⁴  Only one of the following values may be used per message: - RU_INN_FOREIGN_ENTITY - RU_INN_INDIV - RU_INN_LOCAL_ENTITY See the BusinessAndLocationId enumeration list for valid values.
				cmn:LocationInfo	0...1 -	-	Conditionally required for US. The business name and address of the ship from location.

¹1056231²COMPANYSITEID³8888882028655⁴GLN

Data Element						Occurs Length	Type	Description
					cmn:BusinessName	1...1 0/*	String	Required. The business name of the trading partner. ¹
					cmn:Street1	1...1 0/*	String	Required. The first line of the street address. ²
					cmn:Street2	0...1 0/*	String	The second line of the street address.
					cmn:City	1...1 0/*	String	Required. The city. ³
					cmn:Village	0...1 0/*	String	Name of the village in which the company is located.
					cmn:HouseNumber	0...1 0/*	String	Building, house, or unit number of the company. House numbers are usually only separated from the street address in China. For all addresses outside of China, continue to enter the building, house, or unit number in Street1 .
					cmn:Township	0...1 0/*	String	Name of the township in which the company is located.
					cmn:District	0...1 0/*	String	Conditionally required for India. District Code. ⁴  Must be a 3-digit numeric code.
					cmn:StateOrRegion	1...1 0/*	String	Required. The state, province, or region using the standard two-letter abbreviation specified in ISO 3166-2:1998 country subdivision code. ⁵
					cmn:PostalCode	1...1 0/*	String	Required. The ZIP or other postal code. ⁶
					cmn:Country	0...1	String	Required. The country using the standard two-letter abbreviation specified in ISO 3166-1

¹Rx Logistics²1 Distribution Drive³Memphis⁴035⁵TN⁶13184

Data Element							Occurs Length	Type	Description
									1
						cmn:CorporateFax	0...1 0/*	String	Company fax number.
						cmn:AddressObjectGUID	0...1 0/*	String	The global identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum of 36 characters, using the digits 0-9 and letters A-F.
						cmn:HouseGUID	0...1 0/*	String	The global house identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum of 36 characters, using the digits 0-9 and letters A-F.
						cmn:TaxRegistrationCode	0...1 0/*	String	The code used to identify this entity for tax or other legal reporting purposes (e.g. a Russia KPP Registration Code).
						cmn:PremisesCode	0...1 0/*	String	Identifier representing a physical area within the company location (e.g. a location's second floor).
					cmn:LicenseNumber		0...* 0/*	String	The license number of the facility. This element may be repeated to include as many license numbers as mandatory (e.g. state and federal license). ²
						@state	0...1 0/*	String	Required. The state or region in which the trading partner is licensed, using the standard two letter abbreviation specified in ISO 3166-2:1998 country sub-division code. Used to give additional context to the license number. ³
						@agency	0...1 0/*	String	Required. The agency that granted the license (e.g. Florida DOH, NABP). Used to give additional context to the license number. ⁴
					cmn:ContactInfo		0...1 -	-	Contact information for use by downstream trading partners to authenticate (e.g. verify) the message information recorded on the pedigree with the sender party.
						cmn:Name	0...1	String	Required. The name of the contact department or individual at the company. ⁵

¹US²8888800003604³TN⁴BOP⁵Customer Service

Data Element						Occurs Length	Type	Description	
						cmn:Title	0...1 0/*	String	The title of the individual if a person was provided in cmn:Name . ¹
						cmn:Telephone	1...1 1/*	String	Required. The phone number of the contact department or individual at the company. Must begin with the + character followed by the Country Calling Code. ²
						cmn:Email	0...1 0/*	String	The email address of the contact department or individual at the company. Should be included if available. ³
						cmn:Url	0...1 0/*	String	The Web address to facilitate authentication. ⁴
			cmn:ReceiverInfo				1...1 -	-	Required. Information about the supply chain partner that is receiving the shipment. cmn:ReceiverInfo contains XML choice elements for ToBusinessParty and ShipToLocation that govern whether to use master data lookup to populate the address, license, and contact elements. Only one option in choice1% may be populated.
				choice1%			1...1 -	Choice	Required. Required choice element. One option must be selected, but not both. - Option 1: Contains only the cmn:ToBusinessPartyLookupId. - Populate this element only if master data lookup is desired. - Option 2: Contains full cmn:ToBusinessPartyInfo business address fielded data populated by the customer directly in the interface. - Populate this element fully only if master data lookup is not desired.
				cmn:ToBusinessPartyLookupId			0...1 0/*	String	Required. Option 1 for ReceiverInfo choice1% group. ⁵ A lookup identifier associated with the sold to business entity. Use this value as the lookup key in master data to populate the details in cmn: ToBusinessPartyInfo .
					@type		1...1 1/*	String	Conditionally required if full business address not provided in cmn:ToBusinessPartyInfo option. The type of the sold to business entity identifier from the provided enumeration list. ⁶ See the BusinessLookupId enumeration list for valid values.

¹Customer Service²+1-781-555-5624³support@kendallpharma.com⁴<https://www.kendallpharma.com/authenticate>⁵13655⁶COMPANYID

Data Element					Occurs Length	Type	Description
				cmn:ToBusinessPartyInfo	0...1 -	-	Required. Option 2 for ReceiverInfo choice1% group. The full business information associated with the sold to business entity is provided.
				cmn:BusinessId	1...* 1/*	String	Required. The return to business entity identifier. Mandatory for regulatory reporting. ¹
				@type	1...1 1/*	String	Required. The type of the cmn:BusinessId identifier. ²  Only one of the following values may be used per message: - RU_INN_FOREIGN_ENTITY - RU_INN_INDIV - RU_INN_LOCAL_ENTITY See the BusinessAndLocationId enumeration list for valid values.
				cmn:BusinessClassification	0...1 0/*	String	Business classification. ³ See the BusinessClassification enumeration list for valid values.
				cmn:BusinessInfo	0...1 -	-	The sold to business entity business name and address.
				cmn:BusinessName	1...1 0/*	String	Required. The business name of the trading partner. ⁴
				cmn:Street1	1...1 0/*	String	Required. The first line of the street address. ⁵
				cmn:Street2	0...1 0/*	String	The second line of the street address.
				cmn:City	1...1 0/*	String	Required. The city. ⁶

¹3333331013655²GLN³DISTRIBUTOR⁴Wholesale Inc⁵555 Neelan Road⁶Sacramento

Data Element						Occurs Length	Type	Description
					cmn:Village	0...1 0/*	String	Name of the village in which the company is located.
					cmn:HouseNumber	0...1 0/*	String	Building, house, or unit number of the company. House numbers are usually only separated from the street address in China. For all addresses outside of China, continue to enter the building, house, or unit number in Street1 .
					cmn:Township	0...1 0/*	String	Name of the township in which the company is located.
					cmn:District	0...1 0/*	String	District Code. ¹  Must be a 3-digit numeric code.
					cmn:StateOrRegion	1...1 0/*	String	Required. The state, province, or region using the standard two-letter abbreviation specified in ISO 3166-2:1998 country subdivision code. ²
					cmn:PostalCode	1...1 0/*	String	Required. The ZIP or other postal code. ³
					cmn:Country	0...1 0/*	String	Required. The country using the standard two-letter abbreviation specified in ISO 3166-1 alpha-2:1997 country code. ⁴
					cmn:CorporateFax	0...1 0/*	String	Company fax number.
					cmn:AddressObjectGUID	0...1 0/*	String	The global identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum of 36 characters, using the digits 0-9 and letters A-F.
					cmn:HouseGUID	0...1 0/*	String	The global house identifier assigned by the Russian Federation Information Address System (FIAS).

¹035²CA³M95833⁴US

Data Element							Occurs Length	Type	Description
									 Maximum of 36 characters, using the digits 0-9 and letters A-F.
						cmn:TaxRegistrationCode	0...1 0/*	String	The code used to identify this entity for tax or other legal reporting purposes (e.g. a Russia KPP Registration Code).
						cmn:PremisesCode	0...1 0/*	String	Identifier representing a physical area within the company location (e.g. a location's second floor).
				choice2%			0...1 -	Choice	Optional choice element: - Option 1: Contains only the cmn:ShipToLocationLookupId. - Populate this element only if master data lookup is desired. - Option 2: Contains full cmn:ShipToLocationInfo business address fielded data populated by the customer directly in the interface. - Populate this element fully only if master data lookup is not desired.
				cmn:ShipToLocationLookupId			0...1 1/*	String	Required. Option 1 for ReceiverInfo choice2% group. ¹ A lookup identifier associated with the ship to location using the enumeration list. Use this value as the lookup key in master data to populate the details in cmn:ShipToLocationInfo .
					@type		1...1 1/*	String	Required. The type of the ship to location identifier. ² See the LocationLookupId enumeration list for valid values.
				cmn:ShipToLocationInfo			0...1 -	-	Conditionally required for US. Option 2 for ReceiverInfo choice2% group. The full business information associated with the ship to location is provided directly.
					cmn:FacilityId		0...* 0/*	String	Required. Populated with the ship from location identifier. ³
						@type	1...1 1/*	String	Required. The type of the cmn:FacilityId identifier. ⁴  Only one of the following values may be used per message:

¹1056231²COMPANYSITEID³3333331013655⁴GLN

Data Element						Occurs Length	Type	Description
								- RU_INN_FOREIGN_ENTITY - RU_INN_INDIV - RU_INN_LOCAL_ENTITY See the BusinessAndLocationId enumeration list for valid values.
					cmn:LocationInfo	0...1 -	-	Populated with the business name and address of the ship to location.
					cmn:BusinessName	1...1 0/*	String	Required. The business name of the trading partner. ¹
					cmn:Street1	1...1 0/*	String	Required. The first line of the street address. ²
					cmn:Street2	0...1 0/*	String	The second line of the street address.
					cmn:City	1...1 0/*	String	Required. The city. ³
					cmn:Village	0...1 0/*	String	Name of the village in which the company is located.
					cmn:HouseNumber	0...1 0/*	String	Building, house, or unit number of the company. House numbers are usually only separated from the street address in China. For all addresses outside of China, continue to enter the building, house, or unit number in Street1 .
					cmn:Township	0...1 0/*	String	Name of the township in which the company is located.
					cmn:District	0...1 0/*	String	District Code. ⁴ <i>i</i> Must be a 3-digit numeric code.

¹Wholesale Inc²555 Neelan Road³Sacramento⁴035

Data Element						Occurs Length	Type	Description
					cmn:StateOrRegion	1...1 0/*	String	Required. The state, province, or region using the standard two-letter abbreviation specified in ISO 3166-2:1998 country subdivision code. ¹
					cmn:PostalCode	1...1 0/*	String	Required. The ZIP or other postal code. ²
					cmn:Country	0...1 0/*	String	Required. The country using the standard two-letter abbreviation specified in ISO 3166-1 alpha-2:1997 country code. ³
					cmn:CorporateFax	0...1 0/*	String	Company fax number.
					cmn:AddressObjectGUID	0...1 0/*	String	The global identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum of 36 characters, using the digits 0-9 and letters A-F.
					cmn:HouseGUID	0...1 0/*	String	The global house identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum of 36 characters, using the digits 0-9 and letters A-F.
					cmn:TaxRegistrationCode	0...1 0/*	String	The code used to identify this entity for tax or other legal reporting purposes (e.g. a Russia KPP Registration Code).
					cmn:PremisesCode	0...1 0/*	String	Identifier representing a physical area within the company location (e.g. a location's second floor).
					cmn:LicenseNumber	0...* 0/*	String	Populated with the license number of the facility. This element may be repeated to include as many license numbers as required (e.g. state and federal license). ⁴
					@state	0...1 0/*	String	Required. The state or region in which the trading partner is licensed, using the standard two letter abbreviation specified in ISO 3166-2:1998 country sub-division code. Used to give additional context to the license number. ⁵

¹CA²95833³US⁴3333300008701⁵CA

Data Element							Occurs Length	Type	Description	
						@agency	0...1 0/*	String	Required. The agency that granted the license (e.g. Florida DOH, NABP). Used to give additional context to the license number. ¹	
			cmn:CarrierInfo				0...* -	-	Conditionally required if ShipToCountryCode = BR . Information about the transportation partner that is transporting the shipment. cmn:CarrierInfo contains XML choice elements that govern whether master data lookup will be used to populate the address elements. Only one option in choice1% may be populated.	
				choice1%				1...1 -	Choice	Optional choice element: No error if neither are present. - Option 1: Contains only the cmn:CarrierBusinessPartyLookupId. - Populate this element ONLY if master data lookup is desired. - Option 2: Contains full cmn:CarrierBusinessPartyInfo business address fielded data that will be populated by the customer directly in the interface. - Populate this element fully ONLY if master data lookup is not desired.
				cmn:CarrierBusinessPartyLookupId				0...1 1/*	String	Conditionally required if full business address not provided in cmn:CarrierBusinessPartyInfo option. Option 1 for CarrierInfo choice1% group. ² A lookup identifier associated with the Carrier entity from the enumeration list. This value is used as the lookup key in master data to populate the details in CarrierBusinessPartyInfo .
					@type		1...1 1/*	String	Conditionally required if full business address not provided in cmn:CarrierBusinessPartyInfo option. The type of the carrier business entity identifier from the provided enumeration list. ³ See the BusinessLookupId enumeration list for valid values.	
				cmn:CarrierBusinessPartyInfo				0...1 -	-	Conditionally required if cmn:CarrierBusinessPartyLookupId to leverage master data lookup is not populated. Option 2 for CarrierInfo choice1% group. The full business information associated with the transportation carrier business entity is provided.
					cmn:BusinessId		1...* 1/*	String	Required. The identifier associated with the transport carrier business entity. This value is mandatory for regulatory reporting. ⁴	
						@type	1...1	String	Required. The type of the cmn:BusinessId identifier. ⁵	

¹BOP²00.000.000/0001-00³BR_CNPJ⁴00.000.000/0001-00⁵BR_CNPJ

Data Element						Occurs Length	Type	Description
								 Only one of the following values may be used per message: - RU_INN_FOREIGN_ENTITY - RU_INN_INDIV - RU_INN_LOCAL_ENTITY See the BusinessAndLocationId enumeration list for valid values.
					cmn:BusinessClassification	0...1 0/*	String	N/A. ¹
					cmn:BusinessInfo	0...1 -	-	Populated with the business name and address of the transportation carrier business entity.
					cmn:BusinessName	1...1 0/*	String	Required. The business name of the trading partner. ²
					cmn:Street1	1...1 0/*	String	Required. The first line of the street address. ³
					cmn:Street2	0...1 0/*	String	The second line of the street address.
					cmn:City	1...1 0/*	String	Required. The city. ⁴
					cmn:Village	0...1 0/*	String	Name of the village in which the company is located.
					cmn:HouseNumber	0...1 0/*	String	Building, house, or unit number of the company. House numbers are usually only separated from the street address in China. For all addresses outside of China, continue to enter the building, house, or unit number in Street1 .
					cmn:Township	0...1 0/*	String	Name of the township in which the company is located.

¹DISTRIBUTOR²Wholesale Inc³555 Neelan Road⁴Sacramento

Data Element						Occurs Length	Type	Description
					cmn:District	0...1 0/*	String	District Code. ¹  Must be a 3-digit numeric code.
					cmn:StateOrRegion	1...1 0/*	String	Required. The state, province, or region using the standard two-letter abbreviation specified in ISO 3166-2:1998 country subdivision code. ²
					cmn:PostalCode	1...1 0/*	String	Required. The ZIP or other postal code. ³
					cmn:Country	0...1 0/*	String	Required. The country using the standard two-letter abbreviation specified in ISO 3166-1 alpha-2:1997 country code. ⁴
					cmn:CorporateFax	0...1 0/*	String	Company fax number.
					cmn:AddressObjectGUID	0...1 0/*	String	The global identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum of 36 characters, using the digits 0-9 and letters A-F.
					cmn:HouseGUID	0...1 0/*	String	The global house identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum of 36 characters, using the digits 0-9 and letters A-F.
					cmn:TaxRegistrationCode	0...1 0/*	String	The code used to identify this entity for tax or other legal reporting purposes (e.g. a Russia KPP Registration Code).
					cmn:PremisesCode	0...1 0/*	String	Identifier representing a physical area within the company location (e.g. a location's second floor).
					cmn:WarehouseOperatorName	0...1	String	Name of the person responsible for warehouse operations. This element can be

¹035²CA³95833⁴US

Data Element				Occurs Length	Type	Description
						1
		som:AddReceivedItems		0...1 -	-	Required. List of serial numbers for the outermost handling units received for this delivery. TraceLink looks up the child aggregations of the serial numbers provided in the list and updates the container and all child items with the received and subsequent shipped status. This element is mandatory before the delivery complete flag can be set, though it can be communicated at any time (e.g. with, before, or after the order details have been communicated).
			cmn:Serial	1...* 1/*	String	Required. Serial number of an outermost handling unit received for this delivery. One serial number is included per received container (or item if shipping loose items). This is typically a pallet or case serial number. ²
			@format	0...1 0/*	C	Required. Attribute that identifies format of serial numbers. ³ See the Format enumeration list for valid values.
			@orderItemNumber	0...1 0/*	String	Order item number attribute associating specific serial numbers with the price, VAT, and cost taxes reported in a specific instance of cmn:OrderItem .
		som:Aggregation		0...1 -	-	Communicates new aggregations created by the warehouse that are included in the shipment. The PickedItems includes the top-level container serial numbers and loose items. If the warehouse creates a new aggregation (e.g. a new pallet or mixed case), the new aggregation hierarchies are communicated in the cmn:Aggregation element group. If an existing case ships, the case must be scanned and the case hierarchy is not provided. If a new mixed case is created, the hierarchy for that new case is communicated. This enables the distribution warehouse to locally manage changes to aggregation hierarchies. The warehouse communicates the new aggregation hierarchies of the shipped goods at the time of shipment without having to send disaggregation and aggregation events. TraceLink implicitly disaggregates and aggregates operations to achieve the end state hierarchy prior to processing the shipment. TraceLink also auto-commissions the SSCC numbers for new cases and pallets when these SSCC numbers are not yet commissioned.
			cmn:EventDateTime	1...1 0/*	Datetime	Required. The date and time of aggregation event with the UTC time zone indicator in YYYY-MM-DDTHH:MM:SS.ssZ format. If not provided, the current GMT date time is used.
			cmn:EventLocation	1...1	String	Required. Site-level SGLN of the location where the event occurs. SGLN format is the numeric

¹John Smith²015088202501033321100000060001³AI(01)+AI(21)

Data Element					Occurs Length	Type	Description
							component only, with the urn prefix stripped (e.g. <code>8888882.02867.0</code> instead of <code>urn:epc:id:sgln:8888882.02867.0</code> typically found in EPCIS events).
			cmn:ParentSerial		1...1 1/*	String	Required. Serial number expressed in the GS1 Application Identifier format without parenthesis for the AI keys. AI(01)(21) formatted serial number for GTINs or AI(00) formatted serial number for SSCCs. Non-GS1 serial numbers (e.g. China) are expressed in native format.
				@companyPrefix	0...1 0/*	String	The GS1 Company Prefix present in GTIN-14 and SSCC serial numbers.
				@filterValue	0...1 0/*	String	The filter value present in GTIN-14 and SSCC serial numbers.
				@format	0...1 0/*	String	The format of the serial numbers. See the Format enumeration list for valid values.
				@packedStatus	0...1 0/*	String	The packaging status of the container. See the PackedStatus enumeration list for valid values.
			cmn:PackagingLevel		0...1 0/*	String	The packaging level of the commissioned items in cmn:NumberList . See the PackagingLevel enumeration list for valid values.
			cmn:NumberList		1...1 -	-	Required. List of serial numbers for the items packed into the container serial number.
				cmn:Serial	1...* 1/*	String	Required. Serial number expressed in the GS1 Application Identifier format without parenthesis for the AI keys. AI(01)(21) formatted serial number for GTINs or AI(00) formatted serial number for SSCCs. Non-GS1 serial numbers (e.g. China) are expressed in native format.
				@companyPrefix	0...1 0/*	String	The GS1 Company Prefix present in GTIN-14 and SSCC serial numbers.
				@filterValue	0...1 0/*	String	The filter value present in GTIN-14 and SSCC serial numbers.
				@format	0...1 0/*	String	The format of the serial numbers. See the Format enumeration list for valid values.
				@packedStatus	0...1 0/*	String	The packaging status of the container. See the PackedStatus enumeration list for valid values.
				@orderItemNumber	0...1 0/*	String	Order item number attribute associating specific serial numbers with the price, VAT, and cost taxes reported in a specific instance of cmn:OrderItem .

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<som:SOMReceiptMessage xmlns:som="urn:tracelink:mapper:sl:serialized_operations_manager"
xmlns:cmn="urn:tracelink:mapper:sl:commontypes">
  <som:ControlFileHeader>
    <cmn:FileSenderNumber>712333444</cmn:FileSenderNumber>
    <cmn:FileReceiverNumber>512333444</cmn:FileReceiverNumber>
    <cmn:FileControlNumber>201907250</cmn:FileControlNumber>
    <cmn:FileDate>2019-07-25</cmn:FileDate>
    <cmn:FileTime>18:09:45Z</cmn:FileTime>
  </som:ControlFileHeader>
  <som:MessageBody>
    <!--<cmn:LocationId type="DUNS4">1454852202864</cmn:LocationId>-->
    <cmn:LocationId>312333</cmn:LocationId>
    <cmn:DeliveryNumber>8425257855</cmn:DeliveryNumber>
    <cmn:DeliveryCompleteFlag>false</cmn:DeliveryCompleteFlag>
    <som:OrderDetails>
      <cmn:CorrectiveReceipt>true</cmn:CorrectiveReceipt>
      <cmn:OriginalDeliveryNumber>1234567</cmn:OriginalDeliveryNumber>
      <cmn:EntryPort></cmn:EntryPort>
      <cmn:ExitPort></cmn:ExitPort>
      <cmn:TransactionIdentifier type="PO" date="2019-07-25">PO98</cmn:TransactionIdentifier>
      <cmn:TransactionDate>2019-07-25</cmn:TransactionDate>
      <cmn:ShipToCountryCode>RU</cmn:ShipToCountryCode>
      <cmn:ReceiptDistributionType>IMPORTPURCHASE</cmn:ReceiptDistributionType>
      <cmn:TransferWithoutShipment>false</cmn:TransferWithoutShipment>
      <cmn:SupplyType>MedicalCareDistribution</cmn:SupplyType>
      <cmn:ContractType>PrivateContract</cmn:ContractType>
      <cmn:Comments>Comments</cmn:Comments>
      <cmn:ContractNumber>C107</cmn:ContractNumber>
      <cmn:FundingSource>OwnFunds</cmn:FundingSource>
      <cmn:OrderItemList>
        <cmn:AllowShortVerificationCount>false</cmn:AllowShortVerificationCount>
        <cmn:OrderItem>
          <cmn:OrderItemNumber>908</cmn:OrderItemNumber>
          <cmn:InternalMaterialCode>133661</cmn:InternalMaterialCode>
          <!--<cmn:PackagingItemCode type="NTIN">s17</cmn:PackagingItemCode>-->
          <cmn:LotNumber>L807</cmn:LotNumber>
```

```

    <cmn:ExpirationDate>2029-07-25</cmn:ExpirationDate>
    <cmn:Quantity>10</cmn:Quantity>
    <cmn:UnitPrice currencyCode="RUB">100.00</cmn:UnitPrice>
    <cmn:VAT currencyCode="RUB">50.00</cmn:VAT>
    <cmn:GrossPrice currencyCode="RUB">150.00</cmn:GrossPrice>
    <cmn:IsSerialized>false</cmn:IsSerialized>
    <cmn:TransactionIdentifier type="PO" date="2019-07-25">PO1078</cmn:TransactionIdentifier>
  </cmn:OrderItem>
</cmn:OrderItemList>
<cmn:SenderInfo>
  <!--<cmn:FromBusinessPartyLookupId type="KR_PROVIDER_CODE">s23</cmn:FromBusinessPartyLookupId-->
  <cmn:FromBusinessPartyInfo>
    <cmn:BusinessId type="DUNS">710040977</cmn:BusinessId>
    <cmn:BusinessId type="GLN">8779891013658</cmn:BusinessId>
    <cmn:BusinessClassification>MANUFACTURER</cmn:BusinessClassification>
    <cmn:BusTransactionRole>ShipTo</cmn:BusTransactionRole>
    <cmn:BusinessInfo>
      <cmn:BusinessName>Clara Manufacturing</cmn:BusinessName>
      <cmn:Street1>10 Welsh St</cmn:Street1>
      <cmn:City>Malden</cmn:City>
      <cmn:Village></cmn:Village>
      <cmn:HouseNumber></cmn:HouseNumber>
      <cmn:Township></cmn:Township>
      <cmn:StateOrRegion>MA</cmn:StateOrRegion>
      <cmn:PostalCode>02148</cmn:PostalCode>
      <cmn:Country>US</cmn:Country>
      <cmn:CorporateFax></cmn:CorporateFax>
      <cmn:AddressObjectGUID>19406454-0022-000C-00B0-000000000152</cmn:AddressObjectGUID>
      <cmn:HouseGUID>986f2934-be05-438f-A30E-c15b90e15dbc</cmn:HouseGUID>
      <cmn:TaxRegistrationCode></cmn:TaxRegistrationCode>
      <cmn:PremisesCode></cmn:PremisesCode>
    </cmn:BusinessInfo>
  </cmn:FromBusinessPartyInfo>
  <!--<cmn:ShipFromLocationLookupId type="IN_LOCATION_ID">s38</cmn:ShipFromLocationLookupId-->
  <cmn:ShipFromLocationInfo>
    <cmn:FacilityId type="DEA">710040977</cmn:FacilityId>
    <cmn:FacilityId type="SGLN">9997777.01994.0</cmn:FacilityId>
    <cmn:LocationInfo>
      <cmn:BusinessName>Clara Manufacturing</cmn:BusinessName>

```



```

    <cmn:Street1>10 Welsh St</cmn:Street1>
    <cmn:City>Malden</cmn:City>
    <cmn:Village></cmn:Village>
    <cmn:HouseNumber></cmn:HouseNumber>
    <cmn:Township></cmn:Township>
    <cmn:StateOrRegion>MA</cmn:StateOrRegion>
    <cmn:PostalCode>02148</cmn:PostalCode>
    <cmn:Country>US</cmn:Country>
    <cmn:CorporateFax></cmn:CorporateFax>
    <cmn:AddressObjectGUID>19406454-0022-000C-00B0-000000000152</cmn:AddressObjectGUID>
    <cmn:HouseGUID>986f2934-be05-438f-A30E-c15b90e15dbc</cmn:HouseGUID>
    <cmn:TaxRegistrationCode></cmn:TaxRegistrationCode>
    <cmn:PremisesCode></cmn:PremisesCode>
  </cmn:LocationInfo>
  <cmn:LicenseNumber state="MA" agency="BORP">773BT8</cmn:LicenseNumber>
  <cmn:ContactInfo>
    <cmn:Name>Customer Service</cmn:Name>
    <cmn:Telephone>+1-781-555-5622</cmn:Telephone>
    <cmn:Email>support@claramanufacturing.com</cmn:Email>
  </cmn:ContactInfo>
</cmn:ShipFromLocationInfo>
</cmn:SenderInfo>
<cmn:ReceiverInfo>
  <cmn:ToBusinessPartyLookupId type="COMPANYSITEID">312333</cmn:ToBusinessPartyLookupId>
  <!--<cmn:ShipToLocationLookupId type="COMPANYSITEID">12346579963</cmn:ShipToLocationLookupId-->
  <cmn:ShipToLocationInfo>
    <cmn:FacilityId type="GLN">8887771013655</cmn:FacilityId>
    <cmn:FacilityId type="COMPANYSITEID">312333</cmn:FacilityId>
    <cmn:LocationInfo>
      <cmn:BusinessName>Watson Rx Wholesaler Sacramento</cmn:BusinessName>
      <cmn:Street1>555 Neelan Road</cmn:Street1>
      <cmn:City>Sacramento</cmn:City>
      <cmn:Village></cmn:Village>
      <cmn:HouseNumber></cmn:HouseNumber>
      <cmn:Township></cmn:Township>
      <cmn:StateOrRegion>CA</cmn:StateOrRegion>
      <cmn:PostalCode>95833</cmn:PostalCode>
      <cmn:Country>US</cmn:Country>
      <cmn:CorporateFax></cmn:CorporateFax>
    </cmn:LocationInfo>
  </cmn:ShipToLocationInfo>
</cmn:ReceiverInfo>

```

```

        <cmn:AddressObjectGUID>19406454-0022-000C-00B0-000000000156</cmn:AddressObjectGUID>
        <cmn:HouseGUID>986f2934-be05-438f-A30E-c15b90e15dbf</cmn:HouseGUID>
        <cmn:TaxRegistrationCode></cmn:TaxRegistrationCode>
        <cmn:PremisesCode></cmn:PremisesCode>
    </cmn:LocationInfo>
    <cmn:LicenseNumber state="CA" agency="BOP">3333300008701</cmn:LicenseNumber>
    <cmn:ContactInfo>
        <cmn:Name>Watson Customer Service</cmn:Name>
        <cmn:Telephone>+1-916-555-3301</cmn:Telephone>
        <cmn:Email>support@watsonrxwholesaler.com</cmn:Email>
    </cmn:ContactInfo>
</cmn:ShipToLocationInfo>
</cmn:ReceiverInfo>
<cmn:CarrierInfo>
    <!--<cmn:CarrierBusinessPartyLookupId type="IN_COMPANY_ID">s95</cmn:CarrierBusinessPartyLookupId>-->
    <cmn:CarrierBusinessPartyInfo>
        <cmn:BusinessId type="SGLN">8887777.01384.0</cmn:BusinessId>
        <cmn:BusinessId type="GLN">8887771013655</cmn:BusinessId>
        <cmn:BusinessClassification>WHOLESALE</cmn:BusinessClassification>
        <cmn:BusTransactionRole>BillShipTo</cmn:BusTransactionRole>
        <cmn:BusinessInfo>
            <cmn:BusinessName>Watson Rx Wholesaler Sacramento</cmn:BusinessName>
            <cmn:Street1>555 Neelan Road</cmn:Street1>
            <cmn:City>Sacramento</cmn:City>
            <cmn:Village></cmn:Village>
            <cmn:HouseNumber></cmn:HouseNumber>
            <cmn:Township></cmn:Township>
            <cmn:StateOrRegion>CA</cmn:StateOrRegion>
            <cmn:PostalCode>95833</cmn:PostalCode>
            <cmn:Country>US</cmn:Country>
            <cmn:CorporateFax></cmn:CorporateFax>
            <cmn:AddressObjectGUID>19406454-0022-000C-00B0-000000000156</cmn:AddressObjectGUID>
            <cmn:HouseGUID>986f2934-be05-438f-A30E-c15b90e15dbf</cmn:HouseGUID>
            <cmn:TaxRegistrationCode></cmn:TaxRegistrationCode>
            <cmn:PremisesCode></cmn:PremisesCode>
        </cmn:BusinessInfo>
    </cmn:CarrierBusinessPartyInfo>
</cmn:CarrierInfo>

```

```

</som:OrderDetails>
<cmn:WarehouseOperatorName>Operator</cmn:WarehouseOperatorName>
<som:AddReceivedItems>
  <cmn:Serial format="AI (01)+AI (21) ">015088202501033321100000060001</cmn:Serial>
  <cmn:Serial format="AI (01)+AI (21) ">015088202501033321100000060002</cmn:Serial>
</som:AddReceivedItems>
<som:RemoveReceivedItems>
  <cmn:Serial format="AI (01)+AI (21) ">015088202501033321100000060012</cmn:Serial>
</som:RemoveReceivedItems>
</som:MessageBody>
</som:SOMReceiptMessage>

```

Errors

Data Element	Error Message	Description
Class 1		
cmn:BusinessId @type	Valid from business party BusinessId type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Party type attribute is required if carrier party BusinessId is present !!!	The error occurs if BusinessId is populated, but the source is empty or null.
	Valid carrier party BusinessId type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Party type attribute is required if source from business party cmn:BusinessId is present !!!	The error occurs if BusinessId is populated, but the source is empty or null.
cmn:BusinessName	Carrier name in source cmn:BusinessName is required if cmn:BusinessInfo is present !!!	The error occurs if BusinessInfo is populated, but the source is empty or null.
cmn:CarrierBusinessPartyLookupId @type	Valid CarrierBusinessPartyLookupId type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Party type attribute is required if source CarrierBusinessPartyLookupId is present !!!	The error occurs if CarrierBusinessPartyLookupId is populated, but the source is empty or null.
cmn:City	Carrier city in source cmn:BusinessName is required if cmn:BusinessInfo is present !!!	The error occurs if BusinessInfo is populated, but the source is empty or null.
cmn:ContractType	Valid Contract Type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.

Data Element	Error Message	Description
cmn:Country	Carrier country in source cmn:BusinessName is required if cmn:BusinessInfo is present !!!	The error occurs if BusinessInfo is populated, but the source is empty or null.
cmn:FacilityId	Receiver facility location identifier is required if LocationInfo group is present !!!	The error occurs if LocationInfo is present, but ShipToLocationLookupId is empty or null.
	Ship from facility location identifier is required if LocationInfo group is present !!!	The error occurs if LocationInfo is present, but ShipFromLocationLookupId is empty or null.
cmn:FacilityId @type	Valid ship to FacilityId type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Valid party type attribute is required when ship to FacilityId is present !!!	The error occurs if FacilityId is populated, but the source is empty or null.
	Valid party type attribute is required when source ship from FacilityId is present !!!	The error occurs if FacilityId is populated, but the source is empty or null.
	Valid ship from FacilityId type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:FromBusinessPartyLookupId @type	Party type attribute is required if source FromBusinessPartyLookupId is present !!!	The error occurs if FromBusinessPartyLookupId is populated, but the source is empty or null.
	Valid FromBusinessPartyLookupId type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:LocationId	Location ID is required !!!	The error occurs if the source is empty or null.
cmn:OrderItem choice%1	One of InternalMaterialCode OR PackagingItemCode OR CountryDrugCode is required !!!	The error occurs if cmn:InternalMaterialCode, cmn:PackagingItemCode, and cmn:CountryDrugCode are empty or null.
	Only one of InternalMaterialCode OR PackagingItemCode OR CountryDrugCode is required !!!	The error occurs if more than one value is provided for cmn:InternalMaterialCode, cmn:PackagingItemCode, and cmn:CountryDrugCode.
cmn:PackagingItemCode @type	Valid Item Code Type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Product type attribute is required when source PackagingItemCode is present !!!	The error occurs if PackagingItemCode is populated, but the source is empty or null.
cmn:PostalCode	Carrier postal code in source cmn:BusinessName is required if	The error occurs if BusinessInfo is populated, but the source is empty

Data Element	Error Message	Description
	cmn:BusinessInfo is present !!!	or null.
cmn:Quantity	Quantity greater than 0 is required !!!	The error occurs if the source is empty or null.
cmn:ReceiptDistributionType	Valid receipt distribution type is required !!!	The error occurs if the source is populated, but the source is empty or null.
cmn:ReceiverInfo choice%1	Missing mandatory choice. One of ToBusinessPartyLookupId OR ToBusinessPartyInfo group is required !!!	The error occurs if neither ToBusinessPartyLookupId or ToBusinessPartyInfo are present.
	Only one of ToBusinessPartyLookupId OR ToBusinessPartyInfo group is required !!!	The error occurs if both ToBusinessPartyLookupId and ToBusinessPartyInfo are present.
cmn:ReceiverInfo choice%2	Only one of ShipToLocationLookupId OR ShipToLocationInfo group is required !!!	The error occurs if both ShipToLocationLookupId and ShipToLocationInfo are present.
cmn:SenderInfo choice%1	Only one of FromBusinessPartyLookupId OR FromBusinessPartyInfo group is required !!!	The error occurs if both FromBusinessPartyLookupId and FromBusinessPartyInfo are present.
	Missing mandatory choice. One of FromBusinessPartyLookupId OR FromBusinessPartyInfo group is required !!!	The error occurs if neither FromBusinessPartnerLookupId or FromBusinessPartyInfo are present.
cmn:SenderInfo choice%2	Only one of ShipFromLocationLookupId OR ShipFromLocationInfo group is required !!!	The error occurs if both cmn:ShipFromLocationLookupId and cmn:ShipFromLocationInfo are present.
cmn:ShipFromCountryCode	Valid ShipTo Country Code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:ShipFromLocationLookupId @type	Valid ShipFromLocationLookupId is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Valid party type attribute is required when source ShipFromLocationLookupId is present !!!	The error occurs if ShipFromLocationLookupId is populated, but the source is empty or null.
cmn:ShipToLocationLookupId @type	Valid party type attribute is required when source ShipToLocationLookupId is present !!!	The error occurs if ShipToLocationLookupId is populated, but the source is empty or null.
	Valid ShipToLocationLookupId type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:StateOrRegion	Carrier StateOrRegion in source cmn:BusinessName is required if cmn:BusinessInfo is present !!!	The error occurs if BusinessInfo is populated, but the source is empty or null.
cmn:Street1	Carrier Street1 in source cmn:BusinessName is required if cmn:BusinessInfo is present !!!	The error occurs if BusinessInfo is populated, but the source is empty or null.

Data Element	Error Message	Description
cmn:SupplyType	Valid Supply Type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:ToBusinessPartyLookupId @type	Party type attribute is required if source ToBusinessPartyLookupId is present !!!	The error occurs if ToBusinessPartyLookupId is populated, but the source is empty or null.
	Valid ToBusinessPartyLookupId type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:TransactionIdentifier	Transaction identifier is required !!!	The error occurs if the source is empty or null.
cmn:TransactionIdentifier @type	Valid Transaction Identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
cmn:UnitPrice @currencyCode	Currency Code is required if Unit Price exists !!!	The error occurs if UnitPrice is populated, but the source is empty or null.
Class 2		
@currencyCode	CurrencyCode for shipping event for delivery <DeliveryNumber> not found.	The error occurs if UnitPrice is populated, but the source is empty or null.
cmn:CarrierBusinessPartyLookupId	Could not perform Master Data lookup to populate transportation carrier business address fields. <CarrierBusinessPartyLookupId / type> <CarrierBusinessPartyLookupId > is not configured in your Company or Partner Company Master Data. Please configure <CarrierBusinessPartyLookupId / type> <CarrierBusinessPartyLookupId > in Company or Partner Company Master Data, and reprocess the file.	The error occurs if cmn:CarrierBusinessPartyLookupId @type or the source is empty or null in Company or Partner Company Master Data.
cmn:ContractType	Contract Type is required if Ship To Country Code = RU.	The error occurs if cmn:ShipToCountryCode = "RU" but the source is empty or null.
cmn:FromBusinessPartyLookupId	Could not perform Master Data lookup to populate sender business address fields. <FromBusinessPartyLookupId / type> <FromBusinessPartyLookupId> is not configured in your Company or Partner Master Data. Please configure <FromBusinessPartyLookupId / type> <FromBusinessPartyLookupId> in Company or Partner Master Data, and reprocess the file.	The error occurs if cmn:FromBusinessPartyLookupId @type or the source is empty or null in Company or Partner Company Master Data.
cmn:FundingSource	Funding Source is required if Ship To Country Code is RU and Ship From Country Code is RU.	The error occurs if both cmn:ShipToCountryCode and cmn:ShipFromCountryCode = "RU", but the source is empty or null.
cmn:Serial	Serial Number <ParentSerial> reference in aggregation but not present in ReceivingEvent / NumberList	The error occurs if the source is not present in ReceivingEvent NumberList.

Data Element	Error Message	Description
cmn:ShipFromLocationLookupId	Could not perform Master Data lookup to populate sender shipping address fields. <ShipFromLocationLookupId / type> <ShipFromLocationLookupId> is not configured in your Company or Partner Location Master Data. Please configure <ShipFromLocationLookupId / type> <ShipFromLocationLookupId> in Company or Partner Location Master Data, and reprocess the file.	The error occurs if cmn:ShipFromLocationLookupId @type or the source is empty or null in Company or Partner Location Master Data.
cmn:ShipToLocationLookupId	Could not perform Location Master Data lookup to populate receiver shipping address fields. <ShipToLocationLookupId / type> <ShipToLocationLookupId> is not configured in your Company Location Master Data nor in your Partner Location Master Data. Please configure <ShipToLocationLookupId / type> <ShipToLocationLookupId> in Company Location Master Data or in Partner Location Master Data (if the ship to location is a partner location) and reprocess the file.	The error occurs if cmn:ShipToLocationLookupId @type or the source is empty or null in Company or Partner Location Master Data.
cmn:ToBusinessPartyLookupId	Could not perform Company Master Data lookup to populate receiver business address fields. <ToBusinessPartyLookupId / type> <ToBusinessPartyLookupId> is not configured in your Company Master Data. Please configure <ToBusinessPartyLookupId / type> <ToBusinessPartyLookupId> in Company Master Data, and reprocess the file.	The error occurs if cmn:ToBusinessPartyLookupId @type or the source is empty or null in Company or Partner Company Master Data.
cmn:transactionIdentifier @date	Order Item Transaction Identifier Date is required if Ship To Country Code = RU.	The error occurs if cmn:ShipToCountryCode = "RU" but the source is empty or null.
cmn:UnitPrice	Unit Price is required if Ship To Country Code is RU and Ship From Country Code is any of RU, AM, BY, KZ, KG.	The error occurs if cmn:ShipToCountryCode = "RU" and cmn:ShipFromCountryCode = "AM", "BY", "KG", "KZ", or "RU", but the source is empty or null.
N/A	Could not commission parent serial number <ParentSerial> because it is not an SSCC Number	The error occurs if ParentSerial is not an SSCC Number.
	Cannot perform operation on serial number <serial number> with serial number item state <item state>. This operation can only be performed when the serial number is Pending Receipt or Shipped.	The error occurs if Serial Number was not shipped.
	Serial Number <ParentSerial> reference in aggregation but not present in ReceivingEvent / NumberList	The error occurs if validation fails regarding all top most parent serial numbers being present in ReceivingEvent NumberList elements.
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

ESM Receipt (EPCIS v1.2)

Guidelines

This message uses the Park and Retry functionality. If a prerequisite condition for this message has not been met, TraceLink stops processing the task, returns the task to the queue, and then tries to process the task again every 15 minutes for up to 2 hours.

Message Type: SOM_ESM_RECEIPT

Info Exchange Display Name: ESM Receipt

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

⚠ NTINs *must* follow the [GS1 Guidance](#) standards as found on the GS1 website.

- Ex: urn:epc:id:sgtin:415001647778.0.100000000022
- Format: urn:epc:id:sgtin:[company prefix].[indicator digit].[item ref].[serial number]

Information regarding NTINs cannot be exchanged with trade partners unless the specific format outlined above is followed. If using an NTIN without following this format, an outbound error occurs when passing data from TraceLink to a trade partner.

Data Element	Occurs Length	Type	Description
epcis:EPCISDocument	1...1 -	-	Required. EPCIS message root element.
@schemaVersion	1...1 0/*	Decimal	Required. The version of the EPCIS schema used to populate the EPCIS document elements. Must equal 1 or 2 . ¹
@creationDate	1...1 1/*	DateTime	Required. Date the message was created in YYYY-MM-DDTHH:MM:SS:mmZ format. ²

¹1.2

²2016-12-18T22:08:02Z

Data Element				Occurs Length	Type	Description
EPCISHeader				0...1 -	-	The XML file control header.
sbdh:StandardBusinessDocumentHeader				1...1 -	-	Required. Business header information including EPCIS Header Version, Sender, and Receiver information, along with the document identification.
		sbdh:HeaderVersion		1...1 0/*	String	Required. Version of the Standard Business Document Header (SBDH). The HeaderVersion must be set to 1.0. ¹
		sbdh:Sender		1...* -	-	Required. A unique identification key for the Sender party of the message, representing the organization that created the standard business document. The Sender element must be used only once with GS1 XML messages.
		sbdh:Identifier		1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type.² Send SGLN and all other party types with the GS1-conformant uri prefix, for example: - urn:epc:id:sgln:088202.867701.0 - http://epcis.gs1us.org/hc/dea/loc/10023141  GLNs do not have an urn/http prefix. See the MDPartyTypeAttributes enumeration list for valid values.
		@Authority		1...1 1/*	String	Required. The sender identifier type. The Authority was previously expected to be set to GLN for GS1 XML messages. An update made in December 2016 changed this to accept additional values.³ See the BusinessAndLocationId enumeration list for valid values.
		sbdh:Receiver		1...* -	-	Required. Indicates a unique identification key for the direct Receiver party of the message, representing the organization that receives the standard business document. The Receiver element is used only once with GS1 XML messages.
		sbdh:Identifier		1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type.⁴ Send SGLN and all other party types with the GS1-conformant uri prefix, for example: - urn:epc:id:sgln:088202.867701.0 - http://epcis.gs1us.org/hc/dea/loc/10023141

¹1.0²1100001014507³GLN⁴0614141123452

Data Element				Occurs Length	Type	Description
						 GLNs do not have an urn/http prefix. See the MDPartyTypeAttributes enumeration list for valid values.
			@Authority	1...1 1/*	String	Required. The receiver identifier type. The Authority was previously expected to be set to GLN for GS1 XML messages. An update made in December 2016 changed this to accept additional values.¹ See the BusinessAndLocationId enumeration list for valid values.
		sbdh:DocumentIdentification		1...1 -	-	Required. Contains the identification group for the message.
			sbdh:Standard	1...1 0/*	String	Required. Name of the document standard contained in the file or message. The standard value for this field is EPCglobal . ²
			sbdh:TypeVersion	1...1 0/*	String	Required. Reflects the version of the document included. This is the complete version of the document itself and is different from the HeaderVersion as these are hard-coded values. The TypeVersion is set to 1.0 . ³
			sbdh:InstanceIdentifier	1...1 1/*	String	Required. Reference information that uniquely identifies this instance of the Standard Business Document between the Sender and the Receiver. This identifier confirms this document as being distinct from others. ⁴
			sbdh:Type	1...1 0/*	String	Required. Identifies the document type. The sbdh:Type value is set to Events for a shipment event. ⁵
			sbdh:CreationDateAndTime	1...1 0/*	DateTime	Required. The date and time of the SBDH document's creation. GMT create date and time for the EPCIS message. The system expects the Z to be appended; however, if it is not included, the system assumes that the time is GMT and therefore appends the Z .
		extension		0...1 -	-	Header extension area with master data attributes.
			EPCISMasterData	0...1 -	-	Master data extension header. May contain business and location address information for receiving event.  Full GS1 conformance requires that all party master data be stored in the EPCIS header extension EPCISMasterData

¹GLN²EPCglobal³1.0⁴201609201745200001⁵Events

Data Element								Occurs Length	Type	Description
										I VocabularyList Vocabulary VocabularyElementList VocabularyElement . It is strongly urged that all business and location address information for the receiving event is sent in the VocabularyElement within the EPCISMasterData header extension.
							VocabularyList	1...1 -	-	Required. Vocabulary list group master data elements.
							Vocabulary(1)	0...* -	-	Instance 1 of looping vocabulary group with discrete master data element groups for product code. Instance 1 of Vocabulary will occur once for all instances of item master data.
							@type	1...1 0/*	String	Identifies product master data elements. Product master data is defined by VocabularyElement @id. Valid value: <code>urn:epcglobal:epcis:vtype:EPCClass</code> = product master data. ¹
							VocabularyElementList	0...1 -	-	List of vocabulary elements containing master data attributes for each unique product code.
							VocabularyElement	0...* -	-	Looping vocabulary element which identifies each unique China product code, NTIN, or SGTIN for product master data from epc serial number in ObjectEvent Commissioning: epcList/epc. SSCC codes not included in VocabularyElement product master data. i To conform with GS1 standards, master data attributes should be sent in the VocabularyElement. Each unique SGTIN, NTIN, or China Product Code embedded in Commissioning event epcList/epc serial numbers should be sent in one instance of VocabularyElement.
							@id	1...1 0/*	String	Identifies the product code for which master data is being sent in the VocabularyElement loop.² VocabularyElement @id = SGTIN, NTIN, or China Product Code with GS1-conformant urn or http prefix. These are the only values supported in this element. All other product identifier types will be sent as additional trade item types. SSCC codes are not identified in any part of the VocabularyElement group. Product code, if provided, must match the product code embedded within the serial number in the epc code in one or more commissioning events. China - Prefix: <code>http://epcis.tracelink.com/hc/cn-edmc/obj/</code> - Example: <code>http://epcis.tracelink.com/hc/cn-edmc/obj/10230.*</code> NTIN

¹urn:epcglobal:epcis:vtype:EPCClass²urn:epc:idpat:sgtin:0030001.0012345.*

Data Element								Occurs Length	Type	Description
										- Prefix: <code>urn:epc:id:sgtin:</code> - Example: <code>urn:epc:id:sgtin:415001647778.0.10000000022</code> SGTIN (strongly recommended for GS1 conformance) - Prefix: <code>urn:epc:idpat:sgtin:</code> - Example: <code>urn:epc:idpat:sgtin:0030001.0012345.*</code>
							attribute	1...1 1/*	String	Conditionally required if item master data attributes sent in VocabularyElement. Instance 1 of attribute for packaging level value identified by <code>@id</code>.¹ See the PackagingLevel enumeration list for valid values.
							@id	1...1 0/*	String	Required. Attribute identifying packaging level. Valid value: <code>http://epcis.tracelink.com/mda/packageTypeCode</code>²
							attribute	0...1 0/*	String	Instance 2 of attribute for internal material number in Pharmaceutical Manufacturer's internal system identified by <code>@id</code>. Identified by the value in attribute element (instance 3) in the current loop = <code>MANUFACTURER_PART_NUMBER</code>.³
							@id	1...1 0/*	String	Required. Id attribute identifying internal material code. Valid value: <code>urn:epcglobal:cbv:mda#additionalTradeItemIdentification</code>⁴
							attribute	0...1 0/*	String	Conditionally required if the previous name/value pair attribute <code>@id</code> (instance 2) is populated. Instance 3 of attribute for internal material number identifier type for the product. Valid value: <code>MANUFACTURER_PART_NUMBER</code>⁵ Sequence of fields for internal material number is: <code><attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">100335</attribute></code> <code><attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">MANUFACTURER_PART_NUMBER</attribute></code>  If this sequence is not followed as documented above in the input file, the internal material number will not be mapped into the TraceLink system and no error will be thrown.

¹UN²`http://epcis.tracelink.com/mda/packageTypeCode`³100335⁴`urn:epcglobal:cbv:mda#additionalTradeItemIdentification`⁵`MANUFACTURER_PART_NUMBER`

Data Element									Occurs Length	Type	Description
								@id	1...1 0/*	String	Required. Id attribute identifying internal material code. Valid value: <code>urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode</code> ¹
								attribute	0...1 0/*	String	Instance 4 of attribute for country drug code for all national drug code types, identified by the enum value in the next attribute element (instance 5) in the current loop and by the attribute @id value as an additional trade item. ² Country drug code type defined by value in next attribute element (instance 5) where @id = <code>urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode</code> OR <code>http://epcis.tracelink.com/mda/additionalTradeItemIdentificationTypeCode</code>
								@id	1...1 0/*	String	Id attribute identifying internal material code. Valid value: <code>urn:epcglobal:cbv:mda#additionalTradeItemIdentification</code> ³
								attribute	0...1 0/*	String	Conditionally required if the previous name/value pair attribute @id (instance 4) is populated. Instance 5 of attribute for country drug code identifier type. Must follow attribute with country drug value.⁴ Sequence of fields for country drug code is: GS1: <code><attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">82025030221</attribute></code> <code><attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">FDA_NDC_11</attribute></code> TraceLink: <code><attribute id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">82025030221</attribute></code> <code><attribute id="http://epcis.tracelink.com/mda/additionalTradeItemIdentificationTypeCode">US_NDC442</attribute></code>  If this sequence is not followed as documented above in the input file, the internal material number will not be mapped into the TraceLink system and no error will be thrown. The following qualifiers have been defined by GS1 as additional trade item types:

¹urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode²82025030221³urn:epcglobal:cbv:mda#additionalTradeItemIdentification⁴FDA_NDC_11

Data Element									Occurs Length	Type	Description
											- MANUFACTURER_PART_NUMBER = Internal material number - FDA_NDC_11 = US NDC542 - DIN = Canada Drug ID number - PHARMACODE_CH = Swiss Pharma Code - NAN = Nordic article number To identify these material number types, use attribute @id string: urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode. For all other country drug code types, use attribute @id string: http://epcis.tracelink.com/mda/additionalTradeItemIdentificationTypeCode. See the CountryDrugCode enumeration list for valid values.
							@id		1...1 0/*	String	Required. Id attribute identifying country drug code type. Valid values:¹ - GS1: urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode - TraceLink: http://epcis.tracelink.com/mda/additionalTradeItemIdentificationTypeCode
						Vocabulary(2)			0...* -	-	Instance 2 of vocabulary element with party master data element groups.  Group is optional. If it does not appear in master data header extension, no error will be thrown. If the group is populated, Vocabulary occurs once for all instances of party address master data present in the message.
						@type			1...1 0/*	String	Required. Vocabulary type identifying location master data elements. Master data type defined by VocabularyElement @id. Valid value: urn:epcglobal:epcis:vtype:Location = party master data.²  From business party, ship-from, to business party, and ship-to for receiving event all tracked in header master data. Party data in receiving event to be mapped from header master in Vocabulary.
						VocabularyElementList			0...1 -	-	List of vocabulary elements that includes all partner master information. Party identifiers and address info are stored in instances of the looping group VocabularyElement .
						VocabularyElement			0...1	-	Looping group header for data elements that identify all business party and location master data, including identifiers,

¹urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode²urn:epcglobal:epcis:vtype:Location

Data Element								Occurs Length	Type	Description
										identifier types, and address info. VocabularyElement repeats once for each party type: - Sold/Transfer from business party (Mandatory if group is populated) - Ship from location (Optional) - Sold/Transfer to business party (Mandatory if group is populated) - Ship to location (Optional) - Carrier (Optional)  Note: - If party address info is added to Vocabulary element in message header, create one instance of VocabularyElement for each party type created. - Master Data lookup is supported. If Partner Master Data is available in TraceLink, indicate master data lookup by sending partner identifiers in the sourceList and destinationList of the receiving event and do not include any address data in any VocabularyElement group. - If Master Data lookup is not intended, send complete address information for at least the sold-from and sold-to partners in the header Master Data extension. Ship-from and ship-to addresses can also be included.
							@id	1...1 0/*	String	Required. SGLN or other partner identifier and type for party master data in VocabularyElement.¹ Must match sourceList or destinationList owning, or location party in receiving event from ObjectEvent extension sourceList source (transfer from, carrier) OR ObjectEvent extension destinationList destination (transfer to). The identifier value is mandatory for regulatory reporting. The identifier type must include a valid urn or http string prefix. Valid prefix formats include by namespace: - GS1: <code>urn:epc:id:sgln:[CompanyPrefix].[LocationReference].[Extension]</code> - GS1 USHC: <code>http://epcis.gs1us.org/hc/[identifierType]/loc/[identificationValue]</code> - GS1 Brazil: <code>http://epcis.gs1br.org/hc/[identifierType]/loc/[identificationValue]</code> - TraceLink: <code>http://epcis.tracelink.com/hc/[identifierType]/loc/[identificationValue]</code> GLN is not supported, only SGLN. See the MDPartyTypeAttributes enumeration list for valid values.

¹urn:epc:id:sgln:088202.867701.0

Data Element								Occurs Length	Type	Description
							attribute(1)	1...1 0/*	String	Conditionally required. Looping name/value pairs which identify partner address master data elements. This is the value element in the name/value pair attribute @id. Stores master data item value defined by @id.¹ Partner master data items currently supported: Create one instance of the name/value pair attribute and attribute @id for each master data element returned.
							@id	1...1 0/*	String	Required. The name in the name/value pair attribute @id. Identifies the master data value stored in the attribute value element, using urn or http prefix. Valid values:² - urn:epcglobal:cbv:mda#name - urn:epcglobal:cbv:mda#streetAddressOne - urn:epcglobal:cbv:mda#streetAddressTwo - urn:epcglobal:cbv:mda#streetAddressThree - urn:epcglobal:cbv:mda#city - http://epcis.tracelink.com/mda/district - http://epcis.tracelink.com/mda/village - http://epcis.tracelink.com/mda/houseNumber - http://epcis.tracelink.com/mda/township - http://epcis.tracelink.com/mda/corporateFax - urn:epcglobal:cbv:mda#state - urn:epcglobal:cbv:mda#postalCode - urn:epcglobal:cbv:mda#countryCode - http://epcis.tracelink.com/mda/AddressObjectGUID - http://epcis.tracelink.com/mda/HouseGUID - http://epcis.tracelink.com/mda/partyRoleCode - http://epcis.tracelink.com/mda/premisesCode - http://epcis.tracelink.com/mda/taxRegistrationCode
							attribute(2)	0...* 0/*	String	Required. Looping name/value pairs identifying additional party identifier elements. This is the value element in the name/value pair attribute @id. Stores additional party identifiers and identifier types defined by @id.³

¹Kendall Pharma²urn:epcglobal:cbv:mda#name³10023141

Data Element									Occurs Length	Type	Description
											Partner master data items currently supported: • Additional party identifier - Optional (1 or more supported). • Additional party identifier type - Optional (1 or more supported). Create one instance of the name/value pair attribute and @id for each master data element returned. Must send the additional party identifiers in a double attribute combination using the following sequence: 1. Attribute 1 identifies and provides the party identifier value. 2. Attribute 2 identifies the party identifier type. For example: 1. <code><attribute id="http://epcis.tracelink.com/mda/additionalPartyIdentificationValue">10023141</attribute></code> 2. <code><attribute id="http://epcis.tracelink.com/mda/additionalPartyIdentificationTypeCode">DUNS_PLUS_FOUR</attribute></code> OR 1. <code><attribute id="http://epcis.tracelink.com/mda/additionalIdentifier">10023141</attribute></code> 2. <code><attribute id="http://epcis.tracelink.com/mda/additionalIdentifierType">DUNS4</attribute></code>  If this sequence of double attributes is not followed for additional party identifiers, the additional party identifier will not be mapped to the TraceLink system and no error will be thrown.  Only one of the following values may be used per message: • RU_INN_FOREIGN_ENTITY • RU_INN_INDIV • RU_INN_LOCAL_ENTITY See the BusinessAndLocationId enumeration list for valid values.
								@id	1...1	String	Required. Provides the name in the name/value pair attribute @id . Identifies the master data value stored in the attribute

Data Element										Occurs Length	Type	Description
												1 http://epcis.tracelink.com/mda/additionalPartyIdentificationValue http://epcis.tracelink.com/mda/additionalPartyIdentificationTypeCode
EPCISBody										1...1 -	-	Required. Contains all of the EPCIS events for this message.
		EventList								1...1 -	-	Required. The EventList has the following structure: ObjectEvent (0 or more for commissioning). AggregationEvent (One or more for aggregation). ObjectEvent (One for shipping). <i>ⓘ</i> Order of events is not enforced by the schema.
		choice								1...1 -	-	Required. Only one of the following choice options may be selected in any one loop on EPCISBody EventList: ObjectEvent OR AggregationEvent .
		ObjectEvent								0...* -	-	Choice 1 for EventList . Data = ObjectEvent for the Commissioning Events. EventList = ObjectEvent Commissioning when all of the following is true: action = ADD bizStep = urn:epcglobal:cbv:bizstep:commissioning disposition = urn:epcglobal:cbv:disp:active
			eventTime							1...1 1/*	DateTime	Required. Timestamp of date/time when the event occurred. Includes a time zone indicator as specified in Section 9.5 of [EPCIS1.0.1]. ²
			eventTimeZoneOffset							1...1 1/*	String	Required. Time zone offset in effect time and place where the event occurred, consistent with what choice is made for eventTime . Per Section 7.2.8 of [EPCIS1.0.1]. ³
			epcList							1...1 -	-	Required. The EPCs of each item, case, and/or pallet commissioned.

¹<http://epcis.tracelink.com/mda/additionalPartyIdentificationValue>²2017-05-30T22:08:02Z³-04:00

Data Element					Occurs Length	Type	Description
				epc	1...* 1/*	String	Required. The EPC identifier in EPC Pure Identity URI format. See EPC Pure Identifier Format Examples . ¹
				action	1...1 0/*	String	Required. The action value must equal ADD . ²
				bizStep	0...1 0/*	AnyURI	Required. The bizStep value must equal urn:epcglobal:cbv:bizstep:commissioning . ³
				disposition	0...1 0/*	AnyURI	Required. The disposition value must equal urn:epcglobal:cbv:disp:active . ⁴
				readPoint	0...1 -	-	The readPoint element is optional in commissioning event.
				id	1...1 0/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ⁵
				extension	0...1 -	-	Not used - GS1 Reserved.
				bizLocation	0...1 -	-	Required. Business location is mandatory in commissioning event.
				id	1...1 1/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ⁶
				extension	0...1 -	-	Main extension body for commission event.
				ilmd	0...1 -	-	Instance lot master data specific to product being commissioned.
				cbvmdata:lotNumber	0...1	String	The lot or batch code for the serialized item in an alphanumeric string of up to 20 characters. ⁷

¹urn:epc:id:sgtin:088202.5503022.100000000670²ADD³urn:epcglobal:cbv:bizstep:commissioning⁴urn:epcglobal:cbv:disp:active⁵urn:epc:id:sgln:0614141.12345.RP1⁶urn:epc:id:sgln:0614141.12345.1400⁷ABC123

Data Element							Occurs Length	Type	Description
						cbvmdata:itemExpirationDate	0...1 0/*	Date	The expiration date for the serialized item, in YYYY-MM-DD format. ¹
						tl:commissionEventExtensions	0...1 -	-	Extensions used for Commission ObjectEvent. The following items can be sent in the master data header extensions: • tl:packagingLevel • tl:internalMaterialCode • tl:packagingItemCode • tl:packagingItemCode @type • tl:countryDrugCode • tl:countryDrugCode @type  Full GS1 conformance requires all master data be stored in the header extension EPCISMasterData VocabularyList. While master data can be sent from the commissioning event extensions, it is strongly urged that all product master data items for the commissioning event be sent in the header extensions elements.
						tl:filterValue	0...1 -	Int	tl:filterValue is used only if it is required by a trade partner to convert SSCC to GS1 HEX or Tag URI format. See the FilterValue enumeration list for valid values.
						tl:packagingLevel	0...1 0/*	String	The packaging level of the commissioned item using the supported enumeration values.²  To be GS1 EPCIS-conformant, send this value in the VocabularyElement master data, unless current item has an SSCC code with associated product master data (i.e. a homogenous pallet). See the PackagingLevel enumeration list for valid values.
						tl:epcAttributes	0...* -	-	Supports optional inclusion of human readable barcode content associated with each epc number in a commission event. Included only if provided in original commission event.
						@epc	1...1 1/*	String	Conditionally required. The EPC serial number to which the barcodeContent is associated. The epc must be an EPC Pure Identity URI as specified in Section 6 of [TDS1.5]. ³

¹2017-12-31²EA³urn:epc:id:sgtin:068202.0401034.11220207026272

Data Element								Occurs Length	Type	Description
										- Case: SGTIN or SSCC - Item: SGTIN - Pallet: SSCC
							tl:barcodeContent	1...1 1/*	String	Required. The human readable barcode contents encoded in the 2D barcode with parentheses for the AI keys. ¹
							tl:plantLocationId	0...1 0/*	String	Identifier of plant where products were commissioned. ²
							tl:productionLineId	0...1 1/*	String	Identifier of production line where products were commissioned. ³
							tl:lineManagerName	0...1 0/*	String	Name of the person responsible as the production line manager for the commissioned products .
							tl:companyPrefix	0...1 0/*	String	Not used.
							tl:internalMaterialCode	0...1 0/*	String	Internal material number for the product in the Pharmaceutical Manufacturer's internal systems (e.g. ERP). ⁴ ⓘ To be GS1 EPCIS-conformant, send this value in the VocabularyElement master data, unless current item has an SSCC code with associated product master data.
							tl:packagingItemCode	0...1 0/*	String	The product code for the commissioned item (e.g. GTIN-14). ⁵
							@type	1...1 1/*	String	Required. The product code type using the supported enumeration values. ⁶ See the ItemCode enumeration list for valid values.
							tl:countryDrugCode	0...1 0/*	String	The national drug code for the commissioned item (e.g. NDC number for US products). ⁷

¹(01)50682020401034(21)11220207026272(17)170731(10)A312101(7004)0120

²0614141.12345.1400

³PW003

⁴100234

⁵50300694220667

⁶GTIN-14

⁷0069-4220-66

Data Element							Occurs Length	Type	Description
									 To be GS1 EPCIS-conformant, send this value in the VocabularyElement master data, unless current item has an SSCC code with associated product master data.
						@type	0...1 0/*	String	The national drug code type using the supported enumeration values and any formatting instructions provided.¹  To be GS1 EPCIS-conformant, send this value in the VocabularyElement master data, unless current item has an SSCC code with associated product master data. See the CountryDrugCode enumeration list for valid values.
						tl:manufacturingDate	0...1 0/10	Date	The date of manufacture for the serialized item, in YYYY-MM-DD format. ²
						tl:countryMarket	0...1 0/3	Date	ISO Country code for target country market for which the product was manufactured. Used for triggering production notifications associated with a produced batch. If batch is multi-market, then production notification will be triggered at time of shipment and this field would not be populated.³ See the ISOCountryCode enumeration list for valid values.
						tl:referenceDocuments	0...1 -	-	Reference document identifier associated with the commissioning activity.
						tl:poNumber	0...1 0/*	String	PO Number associated with serial number use. ⁴
						tl:poLine	0...1 0/*	String	PO Line number. ⁵
						tl:workOrderNumber	0...1 0/*	String	Work Order number associated with serial number use. ⁶
						tl:referenceIdentifier	0...1	String	Reference identifier (e.g. any type of identifier) associated with serial number use. ⁷

¹FDA_NDC_11²2016-12-18³IN⁴1001764⁵001⁶1001764-00⁷A100352

Data Element								Occurs Length	Type	Description
							tl:extensionField	0...* -	-	One or more name/value pairs which contains additional data attributes not already supported in this message. When this attribute is populated, both the tl:fieldName and tl:fieldValue elements must be populated. ❗ These extensions are not stored by TraceLink and are only used for outbound mapping purposes when there is a requirement to provide additional data to a trade partner for this message (e.g. when a CMO is required to provide additional data fields to the brand owner). Different trade partners may have different field requirements and may require that the ExtensionField be populated differently per trade partner.
							tl:fieldName	1...1 1/*	String	Field name provided by the trade partner that will receive the outbound message.¹ ❗ The field name must match the field name provided by the trade partner exactly, including case so that it can be properly detected in the outbound mapping.
							tl:fieldValue	1...1 1/*	String	Field value that corresponds to tl:fieldName . ²
							AggregationEvent	0...* -	-	AggregationEvent is option 2 for the EventList choice for the Aggregation events. EventList = AggregationEvent when all of the following is true: • action = ADD • bizStep = urn:epcglobal:cbv:bizstep:packing • disposition = urn:epcglobal:cbv:disp:in_progress
							eventTime	1...1 1/*	DateTime	Required. Timestamp of date/time when the event occurred. Must include a time zone indicator as specified in Section 9.5 of [EPCIS1.0.1]. ³
							eventTimeZoneOffset	1...1 1/*	String	Required. Time zone offset in effect time and place where the event occurred, consistent with what choice was made for eventTime . Per Section 7.2.8 of [EPCIS1.0.1]. ⁴
							parentID	1...1 1/*	AnyURI	Required. An identifier of the parent container in EPC Pure Identity URI format (e.g. for an item-to-case aggregation, the EPC is of the case; for a case-to-pallet aggregation, the EPC is of the pallet). See EPC Pure Identifier Format Examples . ⁵

¹NDC_CODE²12345678901³2017-05-30T22:10:02Z⁴-04:00⁵urn:epc:id:sgtin:088202.5503022.100000000670

Data Element				Occurs Length	Type	Description
			childEPCs	1...1 -	-	Required. This element contains a list of identifiers, including the child items, in the parent container in EPC Pure Identity URI format (e.g. for an item-to-case aggregation, the EPCs is of the items; for a case-to-pallet aggregation, the EPCs is of the cases).
			epc	1...* 1/*	String	Required. The identifier of the child items in the parent container in EPC Pure Identity URI format. See EPC Pure Identifier Format Examples . ¹
			action	1...1 1/*	String	Required. The action value must equal ADD for aggregation event.
			bizStep	0...1 0/*	AnyURI	Required. The bizStep value must equal urn:epcglobal:cbv:bizstep:packing . ²
			disposition	0...1 0/*	AnyURI	Required. The disposition value must equal urn:epcglobal:cbv:disp:in_progress . ³
			readPoint	0...1 -	-	Optional for Aggregation Event.
			id	1...1 0/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ⁴
			extension	0...1 -	-	Not used - GS1 Reserved.
			bizLocation	0...1 -	-	Required. The bizLocation is mandatory for Aggregation Event.
			id	1...1 0/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier.
			tl:aggregationEventExtensions	0...1 -	-	Extensions used for Aggregation Event.
			tl:packedStatus	0...1 0/*	String	The packout of the item or container using the supported enumeration values. ⁵ See the PackedStatus enumeration list for valid values.

¹urn:epc:id:sgtin:088202.5503022.100000000670²urn:epcglobal:cbv:bizstep:packing³urn:epcglobal:cbv:disp:in_progress⁴urn:epc:id:sgln:1100001.12345.0⁵FULL

Data Element					Occurs Length	Type	Description
				tl:quantity	0...1 -	Int	The quantity of child serial numbers aggregated to the parent container in this aggregation. ¹
				tl:resetContainerAggregation	0...1 -	Boolean	Reset container aggregation flag. ²
				tl:epcOrderItemDetails	0...1 -	-	Group header for epcOrderItemDetails with a specific link between tl:orderItem tl:orderItemNumber in the receiving event and the epc serial number.
				tl:epcOrderItemList	1...* -	-	Subgroup header.
				@orderItemNumber	0...1 -	String	Order item number attribute associating specific serial numbers with the price, VAT, and cost taxes reported in a specific instance of tl:orderItem , in EPC Pure Identity URI format.
				tl:epcOrderItem	1...* -	String	Serial numbers associated with the pricing and tax information in the current instance of the ItemOrder.
				tl:extensionField	0...* -	-	One or more name/value pairs which contains additional data attributes not already supported in this message. When this attribute is populated, both the tl:fieldName and tl:fieldValue elements must be populated. ❗ These extensions are not stored by TraceLink and are only used for outbound mapping purposes when there is a requirement to provide additional data to a trade partner for this message (e.g. when a CMO is required to provide additional data fields to the brand owner). Different trade partners may have different field requirements and may require that the ExtensionField be populated differently per trade partner.
				tl:fieldName	1...1 1/*	String	Field name provided by the trade partner that will receive the outbound message.³ ❗ The field name must match the field name provided by the trade partner exactly, including case so that it can be properly detected in the outbound mapping.
				tl:fieldValue	1...1 1/*	String	Field value that corresponds to the tl:fieldName . ⁴

¹48²false³NDC_CODE⁴12345678901

Data Element				Occurs Length	Type	Description
			ObjectEvent	1...1 -	-	Required. EventList. Data = ObjectEvent for Receiving events. EventList = ObjectEvent Receiving when all of the following is true: • action = OBSERVE • bizStep = urn:epcglobal:cbv:bizstep:receiving • disposition = urn:epcglobal:cbv:disp:in_progress
			eventTime	1...1 1/*	DateTime	Required. Timestamp of date/time when the event occurred. Must include a time zone indicator as specified in Section 9.5 of [EPCIS1.0.1]. ¹
			eventTimeZoneOffset	1...1 1/*	String	Required. Time zone offset in effect time and place where the event occurred, consistent with what choice was made for eventTime . Per Section 7.2.8 of [EPCIS1.0.1]. ²
			epcList	1...1 -	-	Required. List of the EPCs of top most containers (e.g. pallets, cases) in the shipment.
			epc	1...* 1/*	String	Required. The EPC identifier in EPC Pure Identity URI format. See EPC Pure Identifier Format Examples . ³
			action	1...1 0/*	String	Required. The action value must equal OBSERVE . ⁴
			bizStep	0...1 0/*	AnyURI	Required. The bizStep value must equal urn:epcglobal:cbv:bizstep:receiving . ⁵
			disposition	0...1 0/*	AnyURI	Required. The disposition value must equal urn:epcglobal:cbv:disp:in_progress . ⁶
			readPoint	0...1 -	-	Required. The location where the event occurred, i.e. the warehouse GLN location ID and storage location (e.g. shelf, bin) in URN format, that recorded the Object event.
			id	1...1 0/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier. ⁷

¹2017-05-30T22:08:02Z²-04:00³urn:epc:id:sscc:030944.10105363280⁴OBSERVE⁵urn:epcglobal:cbv:bizstep:receiving⁶urn:epcglobal:cbv:disp:in_progress⁷urn:epc:id:sgln:0614141.12345.RP1

Data Element					Occurs Length	Type	Description
				bizLocation	0...1 -	-	Not used.
				id	1...1 1/*	AnyURI	Required. Not used. ¹
				extension	0...1 -	-	Not used - GS1 Reserved.
				bizTransactionList	0...1 -	-	Conditionally required if bizStep = urn:epcglobal:cbv:bizstep:shipping . This element contains a list of the business transaction identifiers.
				bizTransaction	1...* 0/*	AnyURI	Required. The business transaction identifiers for the Dispatch Advice (Advance Ship Notice) and/or Invoice and/or Purchase Order governing this shipment, which are subject to Section 8.4.2 of (CBV1.0). The GLN that occurs after urn:epcglobal:cbv:bt: is the GLN of the party that issued the number (e.g. if customer issues PO Number, customer GLN is entered. If supplier issues ASN/delivery number supplier GLN is entered).²  A delivery number or ASN is mandatory, all other transaction types are optional. The transaction number requirements vary by region. It is recommended that the following are always provided, when available, to fulfill compliance needs: • Purchase Order Number • Invoice Number • ASN
				@type	1...1 1/*	String	Required. The transaction identifier type using the supported enumeration values (e.g. PO, ASN, RETURN).³  A delivery number or ASN is mandatory, all other transaction types are optional. See the TransactionId enumeration list for valid values.
				@date	0...1 0/*	Date	The transaction identifier date. ⁴

¹urn:epc:id:sgln:0614141.12345.1400²urn:epcglobal:cbv:bt:0614141000029:9847856³urn:epcglobal:cbv:btt:desadv⁴2019-03-30

Data Element					Occurs Length	Type	Description
				extension	0...1 -	-	Main extension body for receiving event. ❗ Source and Destination lists are optional even if party address master data is not stored in the VocabularyElement in the EPCISMasterData extension in the message header.
				sourceList	0...1 -	-	Source list identifying sending business, location, and carrier parties. sourceList supports one of two functions: VocabularyElement populated with party address master data: sourceList identifies sold-from, ship-from, or carrier party. Party master data mapped from VocabularyElement. VocabularyElement NOT populated with party address master data: sourceList party identifiers used for master data lookup in backend.
				source	1...* 0/*	String	Required. Source party identifier for sold-from, ship-from, or carrier parties. Party identifier in source either:¹ - Identifies sold-from, ship-from, or carrier party in populated VocabularyElement. Party address info mapped from VocabularyElement. Nothing is mapped from VocabularyElement if there is no match between party identifier in sourceList source and VocabularyElement @id. - sourceList source supports master data lookup in TraceLink system. VocabularyElement is NOT populated or there is NO match between party identifiers in source and VocabularyElement @id. ❗ If ship-from party the same as sold-from party, ship-from identifier does not need to be included. See the MDPartyTypeAttributes enumeration list for valid values.
				@type	1...* 0/*	String	Required. Type of source party identifier [i.e. owning (sold-from), location (ship-from), or carrier party.] Valid values:² Ship-from party = <code>urn:epcglobal:cbv:sd:owning_party</code> (only include if identifier different from owning_party).
				destinationList	0...1 -	-	Required. Identifies receiving business or location parties. destinationList supports one of two functions: VocabularyElement populated with party address master data: destinationList identifies sold-to, ship-to parties. Party master data mapped from VocabularyElement.

¹urn:epc:id:sgln:088202.867701.0²urn:epcglobal:cbv:sd:owning_party

Data Element						Occurs Length	Type	Description
								2. VocabularyElement NOT populated with party address master data: destinationList party identifiers used for master data lookup in backend.
					destination	1...* 0/*	String	Required. Destination party identifier for sold-to or ship-to parties. Party identifier in destination either:¹ - Identifies sold-to or ship-to parties in populated VocabularyElement. Party address info mapped from VocabularyElement. Nothing is mapped from VocabularyElement if there is no match between party identifier in destinationList destination and VocabularyElement @id. - destinationList destination supports master data lookup in TraceLink system. VocabularyElement is NOT populated or there is NO match between party identifiers in destination and VocabularyElement @id  If ship-to party the same as sold-to party, ship-to identifier does not need to be included. See the MDPartyTypeAttributes enumeration list for valid values.
					@type	1...* 0/*	String	Conditionally required. Identifies type of destination party identifier, i.e. owning (sold-to) or location (ship-to) party. Valid values:² - Sold-to party = <code>urn:epcglobal:cbv:sdt:owning_party</code>. - Ship-to party = <code>urn:epcglobal:cbv:sdt:location</code> (only include if identifier different from owning_party).
					tl:locationId	0...1 0/*	String	Location. ³
					@type	0...1 0/*	String	Attribute identifies the location types. See the LocationIdType enumeration list for valid values: ⁴
					tl:receivingEventExtensions	0...1 -	-	Extensions used for Receiving Event.
					tl:transactionDate	1...1 -	Date	Required. Date associated with the business transaction document in bizTransactionList in YYYY-MM-DD format. This date may or may not be the same as the eventTime . ⁵

¹urn:epc:id:sgln:033333.101365.0²urn:epcglobal:cbv:sdt:owning_party³urn:epc:id:sgln:0614141.12345.1400⁴GLN⁵2013-09-30

Data Element					Occurs Length	Type	Description
				tl:shipToCountryCode	1...1 2/2	String	Required. 2 or 3 letter ISO country code for ship to country. This value will be referenced to advise regulatory reporting if it is mandatory for the specified country market. ¹ Setting this value alone does not trigger regulatory reporting. Actual triggering of regulatory reporting is governed by customer administrative configuration in TraceLink.
				tl:shipFromCountryCode	0...1 2/2	String	2 or 3 letter ISO country code for ship from country. This value will be referenced to advise regulatory reporting if it is mandatory for the specified country market. ² Setting this value alone does not trigger regulatory reporting. Actual triggering of regulatory reporting is governed by customer administrative configuration in TraceLink.
				tl:receiptDistributionType	1...1 1/*	String	Required. Informs what types of regulatory reporting may be triggered based on the nature of the transaction: a purchase, transfer, or return within the same country or from another country. Valid values: ³ INCOUNTRYPURCHASE: Purchase made within the same country. IMPORTPURCHASE: Purchase made into one country from another. INCOUNTRYTRANSFER: Transfer made within the same country. IMPORTTRANSFER: Transfer made into one country from another. INCOUNTRYRETURN: Return made within the same country. IMPORTRETURN: Return made into one country from another.
				tl:supplyType	0...1 0/*	String	Conditionally required depending on the country. Identifies the type of supply that is being performed using a valid value from the enumerations list.  Country Requirements: Mandatory if cmn:ShipFromCountryCode = KR and cmn:ReceiptDistributionType = EXPORTSALE or EXPORTRETURN; All values except for Collection apply. See the SupplyType enumeration list for valid values.
				tl:contractType	0...1 0/*	String	Conditionally required if cmn:ShipFromCountryCode = KR and cmn:ReceiptDistributionType = EXPORTSALE or EXPORTRETURN . Identifies the type of contract for the sale of goods using a valid value from the enumerations list. See the ContractType enumeration list for valid values.
				tl:comments	0...1 0/*	String	Optional remarks or comments associated with delivery.

¹US²US³INCOUNTRYSALE

Data Element					Occurs Length	Type	Description
				tl:contractNumber	0...1 0/*	String	Identification number of the contract. ¹
				tl:fundingSource	0...1 0/*	String	Required. Source of the funding. ² See the FundingSource enumeration list for valid values.
				tl:transferWithoutShipment	0...1 0/*	String	Indicates that the serial numbers are already in an Available state because there is no associated shipment event. Valid values: true – Serial numbers are in the Available state. false – (default) Serial numbers are in the Pending Receipt state. Only use when tl:receiptDistributionType = INCOUNTRYTRANSFER or IMPORTTRANSFER .
				tl:entryPort	0...1 0/*	String	Name of the shipment's port of entry into a country (e.g. an airport, maritime port, border checkpoint).
				tl:exitPort	0...1 0/*	String	Name of the shipment's port of exit from a country (e.g. an airport, maritime port, border checkpoint).
				tl:deliveryInspection	0...1 0/*	String	The inspection status of the physical delivery against the delivery documentation. See the DeliveryInspection enumeration list for valid values.
				tl:deliveryInspectionDate	0...1 10/10	Date	The date of the physical delivery inspection against the delivery documentation in YYYY-MM-DD format. ³
				tl:deliveryInspectionNote	0...1 0/*	String	Comments about the physical delivery inspection against the delivery documentation.
				tl:removalFromCirculation	0...1 0/*	String	Reason the product in the delivery is taken out of the supply chain. See the RemovalFromCirculation enumeration list for valid values.
				tl:aggregationInspection	0...1 0/*	String	The inspection status of the aggregation hierarchy of the container. See the AggregationInspection enumeration list for valid values.
				tl:epcOrderItemDetails	0...1 -	-	Group header with specific link between the aggregation event epc and @orderItemNumber .

¹1234567²FederalBudgetFunds³2021-12-21

Data Element						Occurs Length	Type	Description
					tl:epcOrderItemList	1...* -	-	Required. Subgroup header.
					@orderItemNumber	0...1 0/*	String	Order item number attribute associating specific serial numbers with the price, VAT, and cost taxes reported in a specific instance of tl:orderItem .
					tl:epcOrderItem	1...* 1/*	String	Required. Serial numbers associated with the pricing and tax information in the current instance of tl:orderItem .
					tl:orderItemList	0...1 -	-	Order item list group is populated to communicate the pick quantities for each item code at the EACH (unit) level.
					tl:orderItem	1...* -	-	Required. Order item group is a repeating element that captures the item code, lot number and quantity for each item in the order. Each unique item code and lot number are communicated in a separate order item group.
					tl:orderItemNumber	0...1 0/*	String	Associates the specific serial numbers with the price, VAT, and cost taxes reported in a specific instance of tl:orderItem , in EPC Pure Identity URI format.
					choice%1	- -	-	Conditionally required if tl:shipFromCountryCode = KR . Populate only one of tl:InternalMaterialCode , tl:PackagingItemCode , or tl:countryDrugCode . One of the three options must be present.
					tl:internalMaterialCode	0...1 1/*	String	Conditionally required if neither tl:packagingItemCode nor tl:countryDrugCode is populated. Option 1 for choice%1 in OrderItem . Use to identify the product using the internal material number configured in Product Master Data. ¹
					tl:packagingItemCode	0...1 0/*	String	Conditionally required if neither tl:internalMaterialCode nor tl:countryDrugCode is populated. Option 2 for choice%1 in OrderItem . Use to identify the product using the packaging level item code (e.g. GTIN-14) configured in Product Master Data. ²
					@type	0...1 0/*	String	Required. The product code type for the packaging item code using the supported enumeration values (e.g. GTIN-14). See the ItemCode enumeration list for valid values.
					tl:countryDrugCode	0...1 0/*	String	Conditionally required if neither tl:internalMaterialCode nor tl:packagingItemCode is populated. Option 3 for choice%1 in OrderItem . Use to identify the product using the country drug code configured in Product Master Data. ³
					@type	0...1 0/*	String	Required. The national drug code type using the supported enumeration values (e.g. US_NDC442). See the CountryDrugCode enumeration list for valid values.
					cbvmda:lotNumber	0...1	String	Conditionally required if tl:shipFromCountryCode = KR and IsSerialized = false . The lot or batch code for the items to be

¹100234²00882025030223³0069-4220-66

Data Element							Occurs Length	Type	Description
									1
						cbvm:da:itemExpirationDate	0...1 1/*	Date	The expiration date for the serialized item, in YYYY-MM-DD format. ²
						tl:quantity	1...1 -	Int	Conditionally required if tl:shipFromCountryCode = KR and IsSerialized = false . The quantity of items at the EACH (unit) level of the item code and lot if specified to be picked. ³
						tl:unitPrice	0...1 0/*	Decimal	Required. Unit price of item. ⁴
						@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ⁵ See the ISOCurrency enumeration list for valid values.
						tl:vat	0...1 -	Decimal	Value Added Tax per unit. ⁶
						@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ⁷ See the ISOCurrency enumeration list for valid values.
						tl:grossPrice	0...1 -	Decimal	Gross price including unit price and all taxes and fees. ⁸
						@currencyCode	1...1 3/3	String	Required. Currency ISO code using ISO 4217-2015 format. ⁹ See the ISOCurrency enumeration list for valid values.
						tl:isSerialized	0...1 0/*	Boolean	Indicates if item is not serialized. If omitted, defaults value to true . ¹⁰
						tl:transactionIdentifier	0...*	String	Transaction identifier at the line-item level of shipment. More than one transaction identifier may be present. ¹¹

¹A12345²2017-12-31³50⁴35.67⁵USD⁶152.22⁷USD⁸USD⁹USD¹⁰true¹¹PO303005

Data Element								Occurs Length	Type	Description
						@type		1...1 1/*	String	Required. The transaction identifier type. Valid values: • DESTRUCTION • INVOICE • NOTAFISCAL • OTHER • PO • RETURN
						@date		0...1 0/*	Date	Required. The transaction identifier date. ¹
				tl:warehouseOperatorName				0...1 0/*	String	Name of the person responsible for warehouse operations. ²
				tl:correctiveReceipt				(missing or bad snippet)0...1(missing or bad snippet) (missing or bad snippet)0/* (missing or bad snippet)	Boolean	Indicates that a new Serialized Operations Manager receipt is correcting a previously voided Serialized Operations Manager receipt. Valid values: • false – (default) The receipt is not a corrective receipt. • true – The receipt is a corrective receipt.
				tl:originalDeliveryNumber				(missing or bad snippet)0...1(missing or bad snippet)	String	Original delivery number. Records the original delivery number that is replaced when a receipt is voided and corrections are made to that receipt.

¹2019-03-30²John Smith

Data Element					Occurs Length	Type	Description
					(missing or bad snippet)0/* (missing or bad snippet)		

Example

```
<?xml version="1.0" encoding="UTF-8"?><epcis:EPCISDocument xmlns:cbvmda="urn:epcglobal:cbv:mda"
xmlns:epcis="urn:epcglobal:epcis:xsd:1" xmlns:gslushc="http://epcis.gslus.org/hc/ns"
xmlns:tl="http://epcis.tracelink.com/ns"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader" schemaVersion="1.2"
creationDate="2017-08-31T17:45:20.0Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier Authority="GLN">8779891013658</sbdh:Identifier>
      </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier Authority="GLN">8887771013655</sbdh:Identifier>
      </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>2019082106310032</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2019-07-25T15:39:53Z</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
    <extension>
      <EPCISMasterData>
        <VocabularyList>
          <Vocabulary type="urn:epcglobal:epcis:vtype:EPCClass">
            <VocabularyElementList>
```

```

        <VocabularyElement id="urn:epc:idpat:sgtin:068202.0401034.11220207024596">
            <attribute id="http://epcis.tracelink.com/mda/packageTypeCode">CS</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentification">133661</attribute>
            <attribute
id="urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode">MANUFACTURER_PART_NUMBER</attribute>
        </VocabularyElement>
    </VocabularyElementList>
</Vocabulary>
<Vocabulary type="urn:epcglobal:epcis:vtype:Location">
    <VocabularyElementList>
        <VocabularyElement id="urn:epc:id:sgln:9997777.01994.0">
            <attribute id="urn:epcglobal:cbv:mda#name">Clara Manufacturing</attribute>
            <attribute
id="http://epcis.tracelink.com/mda/additionalIdentifier">712333444</attribute>
            <attribute
id="http://epcis.tracelink.com/mda/additionalIdentifierType">DEA</attribute>
            <attribute
id="http://epcis.tracelink.com/mda/partyRoleCode">MANUFACTURER</attribute>
            <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">10 Welsh St</attribute>
            <attribute id="urn:epcglobal:cbv:mda#city">Malden</attribute>
            <attribute id="http://epcis.tracelink.com/mda/district"></attribute>
            <attribute id="http://epcis.tracelink.com/mda/village"></attribute>
            <attribute id="http://epcis.tracelink.com/mda/houseNumber"></attribute>
            <attribute id="http://epcis.tracelink.com/mda/township"></attribute>
            <attribute id="http://epcis.tracelink.com/mda/corporateFax"></attribute>
            <attribute id="urn:epcglobal:cbv:mda#state">MA</attribute>
            <attribute id="urn:epcglobal:cbv:mda#postalCode">02148</attribute>
            <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
            <attribute id="http://epcis.tracelink.com/mda/premisesCode"></attribute>
            <attribute id="http://epcis.tracelink.com/mda/taxRegistrationCode"></attribute>
        </VocabularyElement>
        <VocabularyElement id="urn:epc:id:sgln:8887777.01384.0">
            <attribute id="urn:epcglobal:cbv:mda#name">Watson Wholesaler</attribute>
            <attribute
id="http://epcis.tracelink.com/mda/additionalIdentifier">512333444</attribute>
            <attribute
id="http://epcis.tracelink.com/mda/additionalIdentifierType">DEA</attribute>
            <attribute

```

```

id="http://epcis.tracelink.com/mda/businessClassification">WHOLESALE</attribute>
    <attribute id="urn:epcglobal:cbv:mda#streetAddressOne">555 Neelan Road</attribute>
    <attribute id="urn:epcglobal:cbv:mda#city">Sacramento</attribute>
    <attribute id="http://epcis.tracelink.com/mda/district"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/village"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/houseNumber"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/township"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/corporateFax"></attribute>
    <attribute id="urn:epcglobal:cbv:mda#state">CA</attribute>
    <attribute id="urn:epcglobal:cbv:mda#postalCode">95833</attribute>
    <attribute id="urn:epcglobal:cbv:mda#countryCode">US</attribute>
    <attribute id="http://epcis.tracelink.com/mda/premisesCode"></attribute>
    <attribute id="http://epcis.tracelink.com/mda/taxRegistrationCode"></attribute>
  </VocabularyElement>
</VocabularyElementList>
</Vocabulary>
</VocabularyList>
</EPCISMasterData>
</extension>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <ObjectEvent>
      <eventTime>2019-09-25T00:12:23.8307Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sscc:005434.40000000020</epc>
      </epcList>
      <action>ADD</action>
      <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
      <disposition>urn:epcglobal:cbv:disp:active</disposition>
      <bizLocation>
        <id>urn:epc:id:sgln:8887777.01384.0</id>
      </bizLocation>
      <extension>
        <ilmd>
          <cbvmda:lotNumber>5998</cbvmda:lotNumber>
          <cbvmda:itemExpirationDate>2029-07-25</cbvmda:itemExpirationDate>
          <tl:commissionEventExtensions>

```

```

        <tl:packagingItemCode type="GTIN-14">00992326050107</tl:packagingItemCode>
        <tl:manufacturingDate>2019-07-25</tl:manufacturingDate>
    </tl:commissionEventExtensions>
</ilmd>
</extension>
</ObjectEvent>
<AggregationEvent>
    <eventTime>2019-09-25T00:12:23.8Z</eventTime>
    <eventTimeZoneOffset>-04:00</eventTimeZoneOffset>
    <parentID>urn:epc:id:sscc:005434.40000000021</parentID>
    <childEPCs>
        <epc>urn:epc:id:sgtin:068202.0401034.11220207024596</epc>
        <epc>urn:epc:id:sgtin:068202.0401034.11220207024597</epc>
    </childEPCs>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <bizLocation>
        <id>urn:epc:id:sgln:8887777.01384.0</id>
    </bizLocation>
</AggregationEvent>
<!-- Receiving -->
<ObjectEvent>
    <eventTime>2019-09-25T00:12:23.8Z</eventTime>
    <eventTimeZoneOffset/>
    <epcList>
        <epc>urn:epc:id:sscc:005434.40000000020</epc>
    </epcList>
    <action>OBSERVE</action>
    <bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep>
    <disposition>urn:epcglobal:cbv:disp:in_progress</disposition>
    <readPoint>
        <id>urn:epc:id:sgln:8887777.01384.0</id>
    </readPoint>
    <bizTransactionList>
        <bizTransaction type="urn:epcglobal:cbv:btt:po" date="2019-09-
25">urn:epcglobal:cbv:bt:0614141000029:4747880013</bizTransaction>
        <bizTransaction type="urn:epcglobal:cbv:btt:inv" date="2019-09-
25">urn:epcglobal:cbv:bt:7774141000029:987654321</bizTransaction>

```

```

        <bizTransaction type="urn:epcglobal:cbv:btt:desadv" date="2019-09-
25">urn:epcglobal:cbv:bt:7774141000029:987654321</bizTransaction>
    </bizTransactionList>
    <extension>
        <sourceList>
            <source type="urn:epcglobal:cbv:sdt:owning_party">urn:epc:id:sgln:9997777.01994.0</source>
        </sourceList>
        <destinationList>
            <destination type="urn:epcglobal:cbv:sdt:owning_
party">urn:epc:id:sgln:9297187.01994.0</destination>
        </destinationList>
    </extension>
    <tl:receivingEventExtensions>
        <tl:transactionDate>2019-07-25</tl:transactionDate>
        <tl:shipToCountryCode>US</tl:shipToCountryCode>
        <tl:receiptDistributionType>INCOUNTRYTRANSFER</tl:receiptDistributionType>
        <tl:supplyType>MedicalCareDistribution</tl:supplyType>
        <tl:contractType>PrivateContract</tl:contractType>
        <tl:contractNubmer>C102</tl:contractNubmer>
        <tl:fundingSource>OwnFunds</tl:fundingSource>
        <tl:transferWithoutShipment>false</tl:transferWithoutShipment>
        <tl:entryPort></tl:entryPort>
        <tl:exitPort></tl:exitPort>
        <tl:epcOrderItemDetails>
            <tl:epcOrderItemList orderItemNumber="15">
                <tl:epcOrderItem>urn:epc:id:sscc:005434.40000000021</tl:epcOrderItem>
            </tl:epcOrderItemList>
        </tl:epcOrderItemDetails>
        <tl:orderItemList>
            <tl:orderItem>
                <tl:orderItemNumber>15</tl:orderItemNumber>
                <tl:packagingItemCode type="GTIN-14">00992326050107</tl:packagingItemCode>
                <cbvm:lotNumber>L120012</cbvm:lotNumber>
                <cbvm:itemExpirationDate>2029-07-25</cbvm:itemExpirationDate>
                <tl:quantity>5</tl:quantity>
                <tl:unitPrice currencyCode="USD">89.55</tl:unitPrice>
                <tl:vat currencyCode="USD">10.45</tl:vat>
                <tl:grossPrice currencyCode="USD">100.00</tl:grossPrice>
                <tl:isSerialized>true</tl:isSerialized>
            </tl:orderItem>
        </tl:orderItemList>
    </tl:receivingEventExtensions>
</pre>

```

```

        <tl:transactionIdentifier type="PO" date="2019-03-30">TI007</tl:transactionIdentifier>
      </tl:orderItem>
    </tl:orderItemList>
    <tl:warehouseOperatorName>Patrick Murphy</tl:warehouseOperatorName>
    <tl:correctiveReceipt>true</tl:correctiveReceipt>
    <tl:originalDeliveryNumber>1234567</tl:originalDeliveryNumber>
  </tl:receivingEventExtensions>
</ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

Errors

Data Element	Error Message	Description
Class 1		
AggregationEvent action	Action ADD is required for is required for the AggregationEvent !!!	The error occurs if bizStep = "urn:epcglobal:cbv:bizstep:packing", but the source does not equal "ADD" for an aggregation event.
AggregationEvent bizLocation id	Event location in the aggregation event is required !!!	The error occurs if the source is empty or null.
AggregationEvent bizStep	bizStep urn:epcglobal:cbv:bizstep:packing is required for the AggregationEvent !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:packing" for an aggregation event.
AggregationEvent childEPCs epc	Invalid EPC format !!!	The error occurs if the source could not be translated.
AggregationEvent disposition	Disposition urn:epcglobal:cbv:disp:in_progress is required for the AggregationEvent !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:in_progress" for an aggregation event.
AggregationEvent parentID	Invalid EPC format !!!	The error occurs if the source is empty or null.
bizTransaction @type	Valid bizTransaction type is required if bizTransaction is populated !!!	The error occurs if bizTransaction is populated, but the source is empty or null.
attribute(1)	Ship to business party name is required !!!	The error occurs if VocabularyElement attribute fields are present, but the source is empty or null.
	Ship from business party name is required !!!	The error occurs if VocabularyElement attribute fields are present, but the source is empty or null.
	Carrier business party name is required !!!	The error occurs if VocabularyElement attribute fields are present, but the source is empty or null.

Data Element	Error Message	Description
	Sold to business party name is required !!!	The error occurs if VocabularyElement attribute fields are present, but the source is empty or null.
	Sold from business party name is required !!!	The error occurs if VocabularyElement attribute fields are present, but the source is empty or null.
	Valid packagingLevel code required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
attribute(2)	Party type is required if additional facility identifier is populated !!!	The error occurs if attribute @id = "http://epcis.tracelink.com/mda/additionalIdentifier", but the source is empty or null.
	Party type is required if additional business party identifier is populated !!!	The error occurs if attribute @id = "http://epcis.tracelink.com/mda/additionalIdentifier", but the source is empty or null.
	Party type is required if additional business party identifier is populated !!!	The error occurs if attribute @id = "http://epcis.tracelink.com/mda/additionalIdentifier", but the source is empty or null.
	Party type is required if additional facility identifier is populated !!!	The error occurs if attribute @id = "http://epcis.tracelink.com/mda/additionalIdentifier", but the source is empty or null.
attribute(3)	Valid carrier business party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Valid sold to business party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Valid ship to location identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Valid sold from business party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
attribute(4)	Valid business classification code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Valid business classification code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
attribute(5)	Carrier business party street address is required !!!	The error occurs if VocabularyElement attribute fields are present,

Data Element	Error Message	Description
		but the source is empty or null.
	Sold from business party street address is required !!!	The error occurs if VocabularyElement attribute fields are present, but the source is empty or null.
	Sold to business party street address is required !!!	The error occurs if VocabularyElement attribute fields are present, but the source is empty or null.
	Ship from location street address is required !!!	The error occurs if VocabularyElement attribute fields are present, but the source is empty or null.
	Ship to location street address is required !!!	The error occurs if VocabularyElement attribute fields are present, but the source is empty or null.
attribute(8)	Ship to location city is required !!!	The error occurs if VocabularyElement attribute fields are present, but the source is empty or null.
	Sold from business party city is required !!!	The error occurs if VocabularyElement attribute fields are present, but the source is empty or null.
	Carrier business party city is required !!!	The error occurs if VocabularyElement attribute fields are present, but the source is empty or null.
	Ship from location city is required !!!	The error occurs if VocabularyElement attribute fields are present, but the source is empty or null.
	Sold to business party city is required !!!	The error occurs if VocabularyElement attribute fields are present, but the source is empty or null.
attribute(10)	Sold from business party state or region is required !!!	The error occurs if VocabularyElement attribute fields are present, but the source is empty or null.
	Sold to business party state or region is required !!!	The error occurs if VocabularyElement attribute fields are present, but the source is empty or null.
	Ship to location state or region is required !!!	The error occurs if VocabularyElement attribute fields are present, but the source is empty or null.
	Carrier business party state or region is required !!!	The error occurs if VocabularyElement attribute fields are present, but the source is empty or null.
	Ship from location state or region is required !!!	The error occurs if VocabularyElement attribute fields are present, but the source is empty or null.
attribute(12)	Valid Sold to business party country is required !!!	The error occurs if the source is present, but there is no matching entry

Data Element	Error Message	Description
		in the lookup file.
	Valid Carrier business party country is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Carrier business party country is required !!!	The error occurs if VocabularyElement attribute fields are present, but the source is empty or null.
	Valid Sold from business party country is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Valid Ship from location country is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Valid Ship to location country is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Ship to location country is required !!!	The error occurs if VocabularyElement attribute fields are present, but the source is empty or null.
	Sold to business party country is required !!!	The error occurs if VocabularyElement attribute fields are present, but the source is empty or null.
	Ship from location country is required !!!	The error occurs if VocabularyElement attribute fields are present, but the source is empty or null.
	Sold from business party country is required !!!	The error occurs if VocabularyElement/attribute fields are present, but the source is empty or null.
cbvmdata:itemExpirationDate	Expiration date is required !!!	The error occurs if the serial number type is China, GTIN, or NTIN, but the source is empty or null.
cbvmdata:lotNumber	Lot number is required !!!	The error occurs if the serial number type is China, GTIN, or NTIN, but the source is empty or null.
choice%1	One of internalMaterialCode or packagingItemCode or countryDrugCode is required !!!	The error occurs if tl:internalMaterialCode, tl:packagingItemCode, and tl:countryDrugCode are empty or null.
destinationList destination	Valid sold-to business lookup identifier type is required !!!	The error occurs if the source is empty or null.
	Ship-to party identifier must match an identifier in VocabularyElement @id !!!	The error occurs if no match is found between destinationList destination and VocabularyElement @id in the party master data header when party master address data is populated in the header.
destinationList destination	Valid ship-to business lookup identifier type is required !!!	The error occurs if the source is empty or null.

Data Element	Error Message	Description
EPCISMasterData	Party master data is required in receiving message !!!	The error occurs if VocabularyList in the source is empty or null.
ObjectEvent (Commissioning Events) action	Action ADD is required for ObjectEvent commissioning !!!	The error occurs if bizStep = "urn:epcglobal:cbv:bizstep:commissioning", but the source does not equal "ADD" for a commissioning event.
ObjectEvent (Commissioning Event) bizLocation id	Event location in the commissioning event is required !!!	The error occurs if the source is empty or null.
ObjectEvent (Commissioning Events) bizStep	bizStep urn:epcglobal:cbv:bizstep:commissioning is required for ObjectEvent commissioning !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:commissioning" for a commissioning event.
ObjectEvent (Commissioning Events) disposition	Disposition urn:epcglobal:cbv:disp:active is required for ObjectEvent commissioning !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:active" for a commissioning event.
ObjectEvent (Commissioning Events) epclist epc	Invalid EPC format !!!	The error occurs if the source is empty or null.
ObjectEvent (Receiving Events)	Receiving event data is required !!!	The error occurs if receiving event is not present in source.
	Only one receiving event is required !!!	The error occurs if more than one receiving event is present.
ObjectEvent (Receiving Events) action	Action OBSERVE is required for ObjectEvent receiving !!!	The error occurs if bizStep = "urn:epcglobal:cbv:bizstep:in_progress", but the source does not equal "OBSERVE" for a receiving event.
ObjectEvent (Receiving Events) bizStep	bizStep urn:epcglobal:cbv:bizstep:receiving is required for ObjectEvent receiving !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:receiving" for a receiving event.
ObjectEvent (Receiving Events) bizTransactionList	Biz transaction list is required in receiving event !!!	The error occurs if the source is empty or null.
ObjectEvent (Receiving Events) disposition	Disposition urn:epcglobal:cbv:disp:in_progress is required for ObjectEvent receiving !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:in_progress" for a receiving event.
ObjectEvent (Receiving Events) epclist epc	At least one serial number in epclist is required !!!	The error occurs if the source is empty or null.

Data Element	Error Message	Description
ObjectEvent (Receiving Events) extension sourceList source	Valid sold-from business lookup identifier type is required !!!	The error occurs if the source is empty or null.
	Valid ship-from business lookup identifier type is required !!!	The error occurs if the source is empty or null.
	Ship-from party identifier must match an identifier in VocabularyElement[@id] !!!	The error occurs if no match is found between sourceList source and VocabularyElement @id in the party master data header when party master address data is populated in the header.
	Carrier party identifier must match an identifier in VocabularyElement [@id] !!!	The error occurs if no match is found between sourceList source and VocabularyElement @id in the party master data header when party master address data is populated in the header.
	Valid carrier business lookup identifier type is required !!!	The error occurs if the source is empty or null.
ObjectEvent (Receiving Events) readPoint id	Event location in the receiving event is required !!!	The error occurs if the source is empty or null.
sbdh:Receiver sbdh:Identifier @Authority	Valid Receiver/Identifier Authority is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
sbdh:Sender sbdh:Identifier @Authority	Valid Sender/Identifier Authority is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
tl:countryDrugCode @type	Country drug code type is required if country drug code is populated !!!	The error occurs if countryDrugCode is populated but the source is empty or null, or is not a valid value from the enumeration list.
tl:countryMarket	Valid ISO country code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
tl:fieldName	Field name is required if ExtensionField group present in source !!!	The error occurs if ExtensionField group is populated, but the source is empty or null.
tl:fieldValue	Field value is required if ExtensionField group present in source !!!	The error occurs if ExtensionField group is populated, but the source is empty or null.
tl:packagingLevel	Packaging Level is required !!!	The error occurs if the serial number type is China, GTIN, or NTIN, but the source is empty or null.
tl:packagingItemCode @type	Packaging item code type is required !!!	The error occurs if packagingItemCode is populated but the source is empty or null, or is not a valid value from the enumeration list.
	Packaging item code type required if packagingItemCode is populated !!!	The error occurs if packagingItemCode is populated but the source is empty or null, or is not a valid value from the enumeration list.
tl:quantity	Quantity value greater than 0 is required !!!	The error occurs if the source = "0", OrderItemList is present and the source is less than 0, or the source is empty or null.

Data Element	Error Message	Description
tl:receiptDistributionType	Valid receipt distributionType is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
tl:receivingEventExtensions	receivingEventExtensions required if receiving event populated !!!	The error occurs if receiving event is populated, but the source is empty or null.
tl:shipFromCountryCode	Valid ISO country code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
tl:shipToCountryCode	Valid ISO country code for ship-to country is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
tl:supplyType	Valid Supply Type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
tl:transactionDate	Transaction date is required !!!	The error occurs if the source is empty or null.
tl:unitPrice @currencyCode	Valid ISO currency code is required !!!	The error occurs if unitPrice is populated but the source is empty or null, or is not a valid value from the enumeration list.
VocabularyElement	Ship to party info required in VocabularyElement if present in sourceList !!!	The error occurs if ship to is present in sourceList, but not in VocabularyElement.
	Ship to party info required in VocabularyElement if present in destinationList !!!	The error occurs if ship to is present in destinationList, but not in VocabularyElement.
	Sold to party identifier is required !!!	The error occurs if the source is empty or null.
	Sold from party identifier is required !!!	The error occurs if the source is empty or null.
	Ship from party info required in VocabularyElement if present in sourceList !!!	The error occurs if ship from party is present in sourceList, but not in VocabularyElement.
	Carrier party info required in VocabularyElement if present in sourceList !!!	The error occurs if carrier party is present in sourceList, but not in VocabularyElement.
VocabularyElement @id	Valid carrier business party lookup identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement @id	Valid ship to location identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement @id	Valid ship to location lookup identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.

Data Element	Error Message	Description
VocabularyElement @id	Valid sold to business party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement @id	Item code is required in source VocabularyElement[@id] !!!	The error occurs if the source is empty or null.
VocabularyElement @id	SGTIN or NTIN or CN-EDMC in VocabularyElement id is required !!!	The error occurs if the source is not an SGTIN, NTIN, or CN-EDMC and master data is present in the header extension.
VocabularyElement @id	Valid sold to business party lookup identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement @id	Valid ship from business party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement @id	Valid carrier business party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement @id	Valid sold from business party lookup identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
VocabularyElement @id	Valid sold from business party identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
Class 2		
@currencyCode	CurrencyCode for shipping event for delivery <DeliveryNumber> not found.	The error occurs if UnitPrice is populated, but the source is empty or null.
bizTransaction @date	Transaction Identifier Date is required if Ship To Country Code = RU.	The error occurs if tl:shipToCountryCode = "RU" but the source is empty or null.
destination destinationList	SOM Receiving inbound processing could not be completed. The ReceiverInfo with either ToBusinessPartyLookupId or ToBusinessPartyInfo for the ShipFromCountryCode of <ShipFromCountryCode> and ShipToCountryCode of <ShipToCountryCode> must be specified.	The error occurs if the source is empty or null and: - Transfer or sale occurs in non-EU FMD markets where the ShipToCountryCode is not an EU FMD country and the ShipFromCountryCode is not an EU FMD country. - Transfer or sale export occurs from the EU FMD markets where the ShipToCountryCode is China, US, South Korea, or Russia and the ShipFromCountryCode is an EU FMD country.
destination destinationList @type	Could not perform Location Master Data lookup to populate receiver shipping address fields. <ShipToLocationLookupId / type> <ShipToLocationLookupId> is not configured in your Company	The error occurs if cmn:ShipToLocationLookupId @type or cmn:ShipToLocationLookupId is empty or null in Company or Partner Location Master Data.

Data Element	Error Message	Description
	Location Master Data nor in your Partner Location Master Data. Please configure <ShipToLocationLookupId / type> <ShipToLocationLookupId> in Company Location Master Data or in Partner Location Master Data (if the ship to location is a partner location) and reprocess the file.	
destination destinationList @type	Could not perform Company Master Data lookup to populate receiver business address fields. <ToBusinessPartyLookupId / type> <ToBusinessPartyLookupId> is not configured in your Company Master Data. Please configure <ToBusinessPartyLookupId / type> <ToBusinessPartyLookupId> in Company Master Data, and reprocess the file.	The error occurs if cmn:ToBusinessPartyLookupId @type or cmn:ToBusinessPartyLookupId is empty or null in Company or Partner Company Master Data.
epcList epc	Serial Number <ParentSerial> reference in aggregation but not present in ReceivingEvent / NumberList	The error occurs if the source is not present in ReceivingEvent NumberList .
N/A	Serial Number <ParentSerial> reference in aggregation but not present in ReceivingEvent / NumberList	The error occurs if all top-most parent serial numbers are not present in ReceivingEvent NumberList elements.
	Cannot perform operation on serial number <serial number> with serial number item state <item state>. This operation can only be performed when the serial number is Pending Receipt or Shipped.	The error occurs if Serial Number was not shipped.
	Could not commission parent serial number <ParentSerial> because it is not an SSCC Number	The error occurs if ParentSerial is not an SSCC Number.
source sourceList @type	Could not perform Master Data lookup to populate transportation carrier business address fields. <CarrierBusinessPartyLookupId / type> <CarrierBusinessPartyLookupId > is not configured in your Company or Partner Company Master Data. Please configure <CarrierBusinessPartyLookupId / type> <CarrierBusinessPartyLookupId > in Company or Partner Company Master Data, and reprocess the file.	The error occurs if cmn:CarrierBusinessPartyLookupId @type or cmn:CarrierBusinessPartyLookupId is empty or null in Company or Partner Company Master Data.
source sourceList @type	Could not perform Master Data lookup to populate sender shipping address fields. <ShipFromLocationLookupId / type> <ShipFromLocationLookupId> is not configured in your Company or Partner Location Master Data. Please configure <ShipFromLocationLookupId / type> <ShipFromLocationLookupId> in Company or Partner Location Master Data, and reprocess the file.	The error occurs if cmn:ShipFromLocationLookupId @type or cmn:ShipFromLocationLookupId is empty or null in Company or Partner Location Master Data.
source sourceList @type	Could not perform Master Data lookup to populate sender business address fields. <FromBusinessPartyLookupId / type>	The error occurs if cmn:FromBusinessPartyLookupId @type or cmn:FromBusinessPartyLookupId is empty or null in Company or

Data Element	Error Message	Description
	<FromBusinessPartyLookupId> is not configured in your Company or Partner Master Data. Please configure <FromBusinessPartyLookupId / type> <FromBusinessPartyLookupId> in Company or Partner Master Data, and reprocess the file.	Partner Company Master Data.
sourceList	SOM Receiving inbound processing could not be completed. The SenderInfo with either FromBusinessPartyLookupId or FromBusinessPartyInfo for the ShipFromCountryCode of <ShipFromCountryCode> and ShipToCountryCode of <ShipToCountryCode> must be specified.	The error occurs if the source is empty or null and: - Transfer or sale occurs in non-EU FMD markets where the ShipToCountryCode is not an EU FMD country and the ShipFromCountryCode is not an EU FMD country. - Transfer or sale export occurs from the EU FMD markets where the ShipToCountryCode is China, US, South Korea, or Russia and the ShipFromCountryCode is an EU FMD country.
tl:contractType	ContractType for receiving event for delivery <DeliveryNumber> not found.	The error occurs if ShipToCountryCode = "KR" and ReceiptDistributionType = "InCountryReturn", but the source is empty or null.
tl:contractType	ContractType for receiving event for delivery <DeliveryNumber> not found.	The error occurs if ShipToCountryCode = "KR", but the source does not equal either "PrivateContract" or "CompetitiveBid".
tl:fundingSource	Funding Source is required if Ship To Country Code is RU and Ship From Country Code is RU.	The error occurs if both tl:shipToCountryCode and tl:shipFromCountryCode = "RU", but the source is empty or null.
tl:orderItem	OrderItemList for shipping event for delivery <DeliveryNumber> not found.	The error occurs if ShipToCountryCode = "KR" and ReceiptDistributionType = "InCountryReturn", but the source is empty or null.
tl:orderItem	OrderItems for receiving event for delivery <DeliveryNumber> not found.	The error occurs if ShipToCountryCode = "KR" and ReceiptDistributionType = "InCountryReturn", but the source is empty or null.
tl:shipFromCountryCode	SOM Receiving inbound processing could not be completed. Both the ShipToCountryCode and ShipFromCountryCode must be specified when the Sender Info and ReceiverInfo are not specified.	The error occurs if the sourceList and destinationList are both omitted, and tl:shipToCountryCode and tl:ShipFromCountrycode are empty or null.
tl:shipToCountryCode	SOM Receiving inbound processing could not be completed. Both the ShipToCountryCode and ShipFromCountryCode must be specified when the Sender Info and ReceiverInfo are not specified.	The error occurs if the sourceList and destinationList are both omitted, and tl:shipToCountryCode and tl:ShipFromCountrycode are empty or null.
tl:supplyType	SupplyType for receiving event for delivery <DeliveryNumber> not found.	The error occurs if ShipToCountryCode = "KR" and ReceiptDistributionType = "InCountryReturn", but the source is empty or null.

Data Element	Error Message	Description
tl:transactionIdentifier @date	Order Item Transaction Identifier Date is required if Ship To Country Code = RU.	The error occurs if tl:shipToCountryCode = "RU" but the source is empty or null.
tl:unitPrice	UnitPrice is for receiving event for delivery <DeliveryNumber> not found.	The error occurs if ShipToCountryCode = "KR" and ReceiptDistributionType = "InCountryReturn", but the source is empty or null.
tl:unitPrice	Unit Price is required if Ship To Country Code is RU and Ship From Country Code is any of RU, AM, BY, KZ, KG.	The error occurs if tl:shipToCountryCode = "RU" and tl:shipFromCountryCode = "AM", "BY", "KG", "KZ", or "RU", but the source is empty or null.
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		



Market release

Market release APIs

Why do I use these messages?

Use the following messages to set the status for a full or partial lot to Market Released to indicate that the items are ready for circulation in Russian market.

Which report do these messages generate?

These messages generate the [342 - Release in Circulation](#) report in the Russia Compliance application if their contents meet the report conditions.

Market Release (XML)

Guidelines

Message Type: SOM_MARKET_RELEASE

Info Exchange Display Name: Market Release

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

Data Element			Occurs Length	Type	Description
som:SOMMarketReleaseMessage			1...1 -	-	Required. Root element of message
	som:ControlFileHeader		1...1 -	-	Required. The message document's header information.
		cmn:FileSenderNumber	1...1 1/20	String	Required. The company identifier of the file's sender. ¹

¹8888882028655

Data Element			Occurs Length	Type	Description
		cmn:FileReceiverNumber	1...1 1/20	String	Required. The company identifier of the file's recipient. ¹
		cmn:FileControlNumber	1...1 1/*	String	Required. The message's unique file control ID number. A file control ID number is mandatory for all messages. ²
		cmn:FileDate	1...1 10/10	Date	Required. The date that the message is sent in YYYY-MM-DD format. Date and times must be in GMT. ³
		cmn:FileTime	1...1 8/8	Time	Required. Time file generated in XML in HH:MM:SSZ format. The system expects the Z to be appended; however, if it is not included, the system assumes that the time is GMT and therefore appends the Z . ⁴
	som:MessageBody		1...1 -	-	Required. The message document's header information.
		cmn:EventLocation	0...1 0/*	String	Business or location identifier for the facility or warehouse scoping the Market Release status update for the serial numbers matching the specified item code and lot number. ⁵ If the location is omitted, the Market Release status update is applied globally to all matching serial numbers in TraceLink.
		cmn:EventLocationType	0...1 0/*	String	Conditionally required if cmn:EventLocation is present. Business or location type for the entity scoping the Market Release status. ⁶ See the BusinessAndLocationId enumeration list for valid values.
		choice%1	- -	Choice	Required. One and only one of the following item code data elements may be present at a time: • cmn:InternalMaterialCode • cmn:PackagingItemCode • cmn:CountryDrugCode
		cmn:InternalMaterialCode	0...1 0/*	String	Conditionally required if both cmn:PackagingItemCode and cmn:CountryDrugCode are empty or null. Updates the status of the serialized items with the associated internal material code to Market Release. ⁷ Specifying an internal material code updates all serial numbers at all packaging levels (e.g. item, case) that are linked to the internal material number and the specified lot number.

¹8888882028677²20190920-LD3³2019-09-20⁴04:30:32Z⁵0333331013655⁶GLN⁷100253

Data Element			Occurs Length	Type	Description
		cmn:PackagingItemCode	0...1 0/*	String	Conditionally required if both cmn:InternalMaterialCode and cmn:CountryDrugCode are empty or null. Updates the status of the serialized items with the associated packaging level item code to Market Release. ¹ Specifying a packaging item code updates all serial numbers that are linked to only the specified packaging item code and lot number.
		@type	0...1 0/*	String	Required. Packaging item code type. ² See the ItemCode enumeration list for valid values.
		cmn:CountryDrugCode	0...1 1/*	String	Conditionally required if both cmn:InternalMaterialCode and cmn:PackagingItemCode are empty or null. Updates the status of the serialized items with the associated national drug code to Market Release. ³ Specifying a country drug code updates all serial numbers at all packaging levels that are linked to the country drug code and the specified lot number.
		@type	1...1 1/*	String	Required. The country drug code type. ⁴ See the CountryDrugCode enumeration list for valid values.
		cmn:LotNumber	1...1 1/*	String	Required. The lot number associated with cmn:InternalMaterialCode , cmn:PackagingItemCode , or cmn:CountryDrugCode used to identify the serial numbers to be updated. ⁵
		cmn:NumberList	0...1 -	-	Groups list of serial numbers.
		cmn:Serial	1...* 1/*	String	Required. Serial number expressed in the GS1 Application Identifier format without parentheses for the AI keys. AI(01)(21) formatted serial number for GTINs or AI(00) formatted serial number for SSCCs. Express non-GS1 serial numbers (e.g. CN-EDMC) in native format. ⁶
		cmn:TransactionIdentifier	0...* 0/*	String	The transaction identifier associated with the released product. This may be a certificate or declaration of conformity. ⁷
		@type	1...1 1/*	String	Required. The transaction identifier type for the market release. Valid values: ⁸ - CIVILCIRCULATION - STATECONFIRMATION

¹50300694220667²GTIN-14³123451234009⁴DE_PPN⁵B234567⁶015088202501033321100000060001⁷9857462156⁸CIVILCIRCULATION

Data Element				Occurs Length	Type	Description
			@date	0...1 0/*	Date	The transaction identifier date attribute. ¹
		cmn:EventDateTime		0...1 0/*	DateTime	Timestamp of the date and time of the product release with the UTC time zone indicator in YYYY-MM-DDThh:mm:ss.ssZ format. ²
		cmn:MarketCountryCode		1...1 1/*	String	Required. The 2 character ISO code for the market country. ³ See the ISOCountryCode enumeration list for valid values.
		cmn:ProductionQuantity		0...* -	-	Looping production quantity group.
			choice%1	1...1	Choice	Required. Either cmn:PackagingItemCode or cmn:CompanyPrefix must be present.
			cmn:PackagingItemCode	0...1 0/*	String	Conditionally required if cmn:CompanyPrefix is empty or null. Identifies the product using the packaging level item code configured in Product Master Data. ⁴
			@type	0...1 0/*	String	Required. Packaging item code type. Valid values: ⁵ • CN-RESCODE • GTIN-14
			cmn:CompanyPrefix	0...1 0/*	String	Conditionally required if cmn:PackagingItemCode is empty or null. The GS1 company prefix for the released product. ⁶
			cmn:PackagingLevel	1...1 1/*	String	Required. The packaging level of the commissioned item. ⁷ See the PackagingLevel enumeration list for valid values.
			cmn:QuantityReported	1...1 -	Integer	Required. Quantity reported for the released product. ⁸

¹2019-03-18²2020-03-31T06:30:32.12Z³RU⁴50300694220667⁵GTIN-14⁶503006⁷EA⁸100

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<som:SOMMarketReleaseMessage xmlns:som="urn:tracelink:mapper:sl:serialized_operations_manager"
xmlns:cmn="urn:tracelink:mapper:sl:commontypes">
  <som:ControlFileHeader>
    <cmn:FileSenderNumber>8888882028644</cmn:FileSenderNumber>
    <cmn:FileReceiverNumber>8888882028677</cmn:FileReceiverNumber>
    <cmn:FileControlNumber>20200121065245</cmn:FileControlNumber>
    <cmn:FileDate>2020-03-31</cmn:FileDate>
    <cmn:FileTime>06:52:45.02Z</cmn:FileTime>
  </som:ControlFileHeader>
  <som:MessageBody>
    <cmn:EventLocation>0333331013655</cmn:EventLocation>
    <cmn:EventLocationType>GLN</cmn:EventLocationType>
    <!-- <cmn:InternalMaterialCode>100253</cmn:InternalMaterialCode> -->
    <cmn:PackagingItemCode type="GTIN-14">50300694220667</cmn:PackagingItemCode>
    <!-- <cmn:CountryDrugCode type="DE_PPN">123451234009</cmn:CountryDrugCode> -->
    <cmn:LotNumber>B234567</cmn:LotNumber>
    <cmn:NumberList>
      <cmn:Serial companyPrefix="50882025" format="AI(01)+AI(21)">015088202501033321100000060001</cmn:Serial>
      <cmn:Serial companyPrefix="50882025" format="AI(01)+AI(21)">015088202501033321100000060002</cmn:Serial>
      <cmn:Serial companyPrefix="50882025" format="AI(01)+AI(21)">015088202501033321100000060003</cmn:Serial>
      <cmn:Serial companyPrefix="50882025" format="AI(01)+AI(21)">015088202501033321100000060004</cmn:Serial>
    </cmn:NumberList>
    <cmn:TransactionIdentifier type="CIVILCIRCULATION" date="2020-03-30">9857462156</cmn:TransactionIdentifier>
    <cmn:EventDateTime>2020-03-31T06:30:32.12Z</cmn:EventDateTime>
    <cmn:MarketCountryCode>RU</cmn:MarketCountryCode>
    <cmn:ProductionQuantity>
      <cmn:PackagingItemCode type="GTIN-14">50300694220667</cmn:PackagingItemCode>
      <!-- <cmn:CompanyPrefix>503006</cmn:CompanyPrefix> -->
      <cmn:PackagingLevel>EA</cmn:PackagingLevel>
      <cmn:QuantityReported>1000</cmn:QuantityReported>
    </cmn:ProductionQuantity>
  </som:MessageBody>
</som:SOMMarketReleaseMessage>
```

Errors

Data Element	Error Message	Description
Class 1		
cmn:InternalMaterialCode	Only one of either InternalMaterialCode or PackagingItemCode or CountryDrugCode must be present in source !!!	The error occurs if cmn:PackagingItemCode , cmn:CountryDrugCode , and the source are all empty or null, or if more than one is present.
cmn:PackagingItemCode	Only one of either InternalMaterialCode or PackagingItemCode or CountryDrugCode must be present in source !!!	The error occurs if cmn:InternalMaterialCode , cmn:CountryDrugCode , and the source are all empty or null, or if more than one is present.
cmn:CountryDrugCode	Only one of either InternalMaterialCode or PackagingItemCode or CountryDrugCode must be present in source !!!	The error occurs if cmn:InternalMaterialCode , cmn:PackagingItemCode , and the source are all empty or null, or if more than one is present.
cmn:PackagingItemCode @type	Valid packaging item code type is required !!!	The error occurs if cmn:PackagingItemCode is present but the source is empty or null, or is not a valid value from the enumeration list
cmn:CountryDrugCode @type	Country drug code type is required !!!	The error occurs if cmn:CountryDrugCode is present but the source is empty or null, or is not a valid value from the enumeration list.
cmn:LotNumber	Lot number is required !!!	The error occurs if the source is empty or null.
cmn:TransactionIdentifier @type	Valid transaction identifier type is required if TransactionIdentifier is populated !!!	The error occurs if the source is empty or null, or does not equal CIVILCIRCULATION or STATECONFIRMATION.
cmn:MarketCountryCode	Valid ISO market country code is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
cmn:PackagingItemCode	Only one of either packaging item code or company prefix may be present !!!	The error occurs if both cmn:CompanyPrefix and the source are empty or null, or if both are present.
cmn:PackagingItemCode @type	Valid packaging item code type is required !!!	The error occurs if cmn:PackagingItemCode is present but the source is empty or null, or is not a valid value from the enumeration list
cmn:CompanyPrefix	Only one of either packaging item code or company prefix may be present !!!	The error occurs if both cmn:PackagingItemCode and the source are empty or null, or if both are present.
cmn:PackagingLevel	Valid packaging level code required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.
Class 2		
cmn:LotNumber	Lot [LotNumber] for item <item code type> <item code value> does not contain any serial numbers.	The error occurs if no serial numbers exist in the specified lot.
	Lot [LotNumber] for item [item code type] [item code value] does not	The error occurs if TraceLink cannot find the specified lot number

Data Element	Error Message	Description
	exist.	associated with the specified item.
cmn:MarketCountryCode	[TargetMarket] is not a defined target market for this product.	The error occurs if the source is not defined for the specified product.
cmn:QuantityReported	Market Release transaction processing failed due to serial number quantity verification failure. [quantity of commissioned serial number] at [packaging level] level found in the system but Market Release message reported lower quantity [QuantityReported] for [country drug code/Internal Material Number] [Product name in English if English is not available use the first language available alphabetically by language code] [packaging code /type] at [location].	The error occurs if there are more serial numbers in the lot than were specified in the source.
	Market Release transaction processing failed due to serial number quantity verification failure. [quantity of commissioned serial number] at [packaging level] level found in the system but Market Release message reported higher quantity [QuantityReported] for [country drug code/Internal Material Number] [Product name in English if English is not available use the first language available alphabetically by language code] [packaging code /type] at [location].	The error occurs if there are fewer serial numbers in the lot than were specified in the source.
cmn:Serial	Serial Number [SerialNumber] does not exist.	The error occurs if the specified serial number does not exist within TraceLink.
	Serial number [SerialNumber] is not commissioned.	The error occurs if the specified serial number is not commissioned.
	Serial Number [SerialNumber] is not associated with Item Code [SerialNumber] and Lot Number [SerialNumber].	The error occurs if the specified serial number is not associated with the specified item code or lot number.
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

Market Release (SOAP)

Market Release Request

Guidelines

❗ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

The following data is sent in the request to TraceLink:

Data Element				Occurs Length	Type	Description
soapenv:Envelope				1...1 -	-	Required. SOAP envelope root element.
soapenv:Header				1...1 -	-	Required. Not used.
soapenv:Body				1...1 -	-	Required. SOAP message body.
urn:MarketRelease				1...1 -	-	Required. Queries the status of the specified lot.
		PackagingCode		0...1 1/*	String	Conditionally required if both InternalMaterialCode and CountryDrugCode are empty or null. Packaging level item code. ¹
		PackagingType		0...1 1/*	String	Conditionally required if PackagingCode is present. Identifies the packaging level item code type. ² See the PackagingItemCodeType enumeration list for valid values.
		InternalMaterialCode		0...1 1/*	String	Conditionally required if both PackagingCode and CountryDrugCode are empty or null. Identifies the product using the internal item code configured in Product Master Data. ³
		CountryDrugCode		0...1 1/*	String	Conditionally required if both PackagingCode and InternalMaterialCode are empty or null. Country drug code associated with the specified lot. ⁴
		CountryDrugCodeType		0...1	String	Conditionally required if CountryDrugCode is present. Country drug code type. ⁵

¹882025030220

²GTIN14

³29100253

⁴08202503022

⁵US_NDC542

Data Element					Occurs Length	Type	Description
							See the CountryDrugCode enumeration list for valid values.
			Lot		1...1 1/*	String	Required. Lot number for the market release. ¹
			Items		0...1 -	-	List of one or more serial numbers to release. Use for only a partial lot market release.
			Item		1...* -	-	Required. The serial number to release into circulation.
				@sn	1...1 1/*	String	Required. Serial number in one of the following formats: AI(01)+AI(21) - Format: 01 + [GTIN_14] + 21 + [serial number] - Example: 015088202503022521100000090109 AI(00) - Format: 00 + [SSCC18] - Example: 00008820200000047506 CN-EDMC - Format: 20-digit China EDMC code - Example: 81530070000022519351
			TargetMarketCountryCode		1...1 1/*	String	Required. The two character ISO country code for the market country. ² See the ISOCountryCode enumeration list for valid values.
			EventDateTime		0...1 -	Date	Date and time of the market release, in GMT YYYY-MM-DDTHH:MM:SSZ format. ³ If omitted, TraceLink uses the current date and time.
			EventLocation		0...1 1/*	String	Site level location where the event occurs. Defaults to company level SGLN. SGLN format is numeric component only, with urn prefix stripped (e.g. 8888882.02867.0 instead of urn:epc:id:sgln:8888882.02867.0 typically found in EPCIS events). ⁴

¹L201409132²DE³2015-06-01T17:10:16Z⁴8888882.02867.0

Data Element						Occurs Length	Type	Description
				@identifierType		1...1 1/*	String	Required. The event location identifier type. ¹ See the BusinessAndLocationId enumeration list for valid values.
				@identifierValue		1...1 1/*	String	Required. The event location value.
			Transactions			0...1 -	-	List of one or more transaction identifiers.
			Transaction			1... -	-	Required. The transaction identifier associated with the market release.
				ItemID		0...1 1/*	String	Required. The transaction identifier associated with the status update, for regulatory reporting and business tracking purposes. ²
				ItemType		0...1 1/*	String	Required. The transaction identifier type. ³ Valid values: CIVILCIRCULATION – Number of the document from a government agency for introduction of medicine into circulation used for immunobiological medicine only. STATECONFIRMATION – Number of the document confirming the medicine compliance with state registration requirements.
				Date		0...1 1/*	String	The date of the transaction in YYYY-MM-DD format. ⁴
			ProductionQuantities			0...1 -	-	Group of ProductionQuantity values for each packaging level in the hierarchy. Use to optionally validate serial number quantities.
			ProductionQuantity			0... -	-	List of each aggregation hierarchy level.
				ItemType		0...1 -	-	Conditionally required if CompanyPrefix is empty or null. Identifies the product using the packaging level item code (e.g. GTIN-14) configured in Product Master Data.
				ItemCodeType		1...1	String	Required. Packaging item code type. ⁵

¹GLN²PO303005³CIVILCIRCULATION⁴2015-06-01⁵GTIN-14

Data Element							Occurs Length	Type	Description
									Valid values: • CN_SUB_TYPE • GTIN_14 • NTIN
						ItemCode	1...1 1/*	String	Required. Packaging level item code value. ¹
						CompanyPrefix	0...1 0/*	String	Conditionally required if PackagingItemCode is empty or null. GS1 company prefix. ²
						PackagingLevel	1...1 1/*	String	Required. The packaging level of the commissioned item. ³ See the PackLevel enumeration list for valid values.
						QuantityReported	1...1 1/*	Integer	Required. Quantity report for the released product. ⁴

Example

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:urn="urn:tracelink:soap">
  <soapenv:Header/>
  <soapenv:Body>
    <urn:MarketRelease>
      <CountryDrugCode>08620081794</CountryDrugCode>
      <CountryDrugCodeType>US_NDC542</CountryDrugCodeType>
      <LotNumber>GO36120CNQX2</LotNumber><SerialNumberList/>
      <Transactions>
        <Transaction>
          <ItemType>CIVILCIRCULATION</ItemType>
          <ItemID>1234</ItemID>
          <Date>2020-03-27</Date>
        </Transaction>
      </Transactions>
    </urn:MarketRelease>
  </soapenv:Body>
</soapenv:Envelope>
```

¹00882026030229

²038522

³EA

⁴100

```
<Transaction>
  <ItemType>STATECONFIRMATION</ItemType>
  <ItemID>4321</ItemID>
  <Date>2020-03-27</Date>
</Transaction>
</Transactions>
<MarketCountryCode>RU</MarketCountryCode>
<ProductionQuantities>
  <ProductionQuantity>
    <ItemType>
      <ItemCodeType>GTIN_14</ItemCodeType>
      <ItemCode>78708865247189</ItemCode>
    </ItemType>
    <PackagingLevel>EA</PackagingLevel>
    <QuantityReported>5</QuantityReported>
  </ProductionQuantity>
  <ProductionQuantity>
    <CompanyPrefix>9876</CompanyPrefix>
    <PackagingLevel>CA</PackagingLevel>
    <QuantityReported>1</QuantityReported>
  </ProductionQuantity>
</ProductionQuantities>
</urn:MarketRelease>
</soapenv:Body>
</soapenv:Envelope>
```

Errors

Exception Code	Exception Message
VALIDATION	Serial Number <SerialNumber> does not exist.
VALIDATION	Serial number <SerialNumber> is not commissioned.
VALIDATION	Serial Number <SerialNumber> is not associated with Item Code <ItemCode> and Lot Number <LotNumber>
VALIDATION	Lot <LotNumber> for item <item code type> <item code value> does not contain any serial numbers.
VALIDATION	Lot <LotNumber> for item <item code type> <item code value> does not exist.

Exception Code	Exception Message
VALIDATION	<TargetMarket> is not a defined target market for this product
VALIDATION	Market Release transaction processing failed due to serial number quantity verification failure. [quantity of commissioned serial number] at [packaging level] level found in the system but Market Release message reported lower quantity [QuantityReported] for [country drug code/Internal Material Number] [Product name in English if English is not available use the first language available alphabetically by language code] [packaging code /type] at [location].
VALIDATION	Market Release transaction processing failed due to serial number quantity verification failure. [Quantity of commissioned serial number] at [packaging level] level found in the system but Market Release message reported higher quantity [QuantityReported] for [country drug code/Internal Material Number] [Product name in English if English is not available use the first language available alphabetically by language code] [packaging code /type] at [location].

Market Release Response

Guidelines

The following data is included in the message response:

Data Element	Occurs Length	Type	Description
S:Envelope	1...1 -	-	Required. SOAP envelope root element.
S:Body	1...1 -	-	Required. SOAP message body.
ns2:MarketReleaseResponse	1...1 -	-	Required. Market Release response message.
TLResponse	0...1 -	-	Required. Response.
Success	0...1 -	Boolean	Required. Indicates if the Market Release request message was processed successfully. ¹
ExceptionReturn	0...1 -	-	Conditionally required if Success = false . Error information if the request failed.

¹TRUE

Data Element						Occurs Length	Type	Description
					CallException	1...* -	-	Required. Contains error details.
					ExceptionCode	0...1 0/*	String	Required. Error Code.
					ExceptionMessage	0...1 0/*	String	Message that further describes the error condition, if available.

Example

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:MarketReleaseResponse xmlns:ns2="urn:tracelink:soap" xmlns:ns3="http://tracelink.com/som">
      <TLResponse>
        <Success>true</Success>
      </TLResponse>
    </ns2:MarketReleaseResponse>
  </S:Body>
</S:Envelope>
```


Decommissioning and destruction

Decommission and destruction APIs

Why do I use these messages?

Use the following messages to indicate that items or serial numbers are withdrawn from the supply chain as a result of decommissioning or destruction.

Decommissioning a serial number indicates that it has been withdrawn from the supply chain, but it can be reused again later (e.g. the serial number is decommissioned because it was commissioned with incorrect information). Destroying a serial number indicates that it is permanently withdrawn from the supply chain (e.g. the item that the serial number represents was physically destroyed).

Which report do these messages generate?

These messages generate one of the following reports in the Russia Compliance application if their contents meet the report conditions:

- [552 - Withdrawal](#) – Captures information about serialized items that are removed from supply chain circulation as the result of a quality sample, decommissioning, or destruction in a warehouse.
- [542 - Destruction](#) – Captures information about serialized items that are disposed of in a destruction facility (i.e. the items are decommissioned or destroyed in TraceLink).

 TraceLink disaggregates the decommissioned or destroyed product if the serial numbers are aggregated to parent containers, which prompts a disaggregation event and initiates the [913 - Unit Extract](#) report.

ESM Decommission (EPCIS v1.2)

Guidelines

This message uses the Park and Retry functionality. If a prerequisite condition for this message has not been met, TraceLink stops processing the task, returns the task to the queue, and then tries to process the task again every 15 minutes for up to 2 hours.

Message Type: SOM_ESM_DECOMMISSION

Info Exchange Display Name: ESM Decommission

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

ⓘ NTINs *must* follow the [GS1 Guidance](#) standards as found on the GS1 website.

- Ex: urn:epc:id:sgtin:415001647778.0.100000000022
- Format: urn:epc:id:sgtin:[company prefix].[indicator digit].[item ref].[serial number]

Information regarding NTINs cannot be exchanged with trade partners unless the specific format outlined above is followed. If using an NTIN without following this format, an outbound error occurs when passing data from TraceLink to a trade partner.

Data Element	Occurs Length	Type	Description
epcis:EPCISDocument	1...1 -	-	Required. The EPCISDocument element contains the EPCIS message root element.
@schemaVersion	1...1 0/*	Decimal	Required. The version of the EPCIS schema used to populate the EPCIS document elements. ¹
@creationDate	1...1 1/*	DateTime	Required. The date that the message was created in XML datetime format YYYY-MM-DDTHH:MM:SSZ. ²
EPCISHeader	0...1 -	-	Required. XML file control header.
sbdh:StandardBusinessDocumentHeader	1...1 -	-	Required. Business header information including EPCIS Header Version, Sender, and Receiver information along with the document identification.
sbdh:HeaderVersion	1...1 0/*	String	Required. The version of the Standard Business Document Header (SBDH). The sbdh:HeaderVersion is set to 1.0. ³
sbdh:Sender	1... *	-	Required. A unique identification key for the Sender party of the message, representing the organization which created the standard business document. The Sender element must only be used once with GS1 XML messages.

¹1.2

²2013-10-01T22:08:02Z

³1.0

Data Element					Occurs Length	Type	Description
				sbdh:Identifier	1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type.¹ Send SGLN and all other party types with the GS1-conformant uri prefix, for example: - urn:epc:id:sgln:088202.867701.0 - http://epcis.gs1us.org/hc/dea/loc/10023141  GLNs do not have a urn/http prefix. See the MDPartyTypeAtribbutes enumeration list for valid values.
				@Authority	1...1 1/*	String	Required. The @Authority was previously expected to be set to GLN for GS1 XML messages. Update made in December 2016 changed this to take additional values.² See the MDPartyTypeEnums enumeration list for valid values.
				sbdh:Receiver	1...* -	-	Required. A unique identification key for the direct Receiver party of the message, representing the organization which receives the standard business document. The Receiver element is used only once with GS1 XML messages.
				sbdh:Identifier	1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type.³ Send SGLN and all other party types with the GS1-conformant uri prefix, for example: - urn:epc:id:sgln:088202.867701.0 - http://epcis.gs1us.org/hc/dea/loc/10023141  GLNs do not have a urn/http prefix. See the MDPartyTypeAtribbutes enumeration list for valid values.
				@Authority	1...1 1/*	String	Required. The @Authority was previously expected to be set to GLN for GS1 XML messages. Update made in December 2016 changed this to take additional values.⁴ See the MDPartyTypeEnums enumeration list for valid values.
				sbdh:DocumentIdentification	1...1 -	-	Required. Identification group for the message.

¹1100001014507²GLN³0614141123452⁴GLN

Data Element					Occurs Length	Type	Description
				sbdh:Standard	1...1 0/*	String	Required. The name of the document standard contained in the file/message. The standard value for this field is <code>EPCglobal</code> . ¹
				sbdh:TypeVersion	1...1 0/*	String	Required. The version of the document included. This is the complete version of the document itself and is different from the Header Version as these are hard-coded values. The TypeVersion is set to <code>1.0</code> . ²
				sbdh:InstanceIdentifier	1...1 1/*	String	Required. Reference information, which uniquely identifies this instance of the Standard Business Document between the Sender and the Receiver. This identifier confirms this document as being distinct from others. ³
				sbdh:Type	1...1 0/*	String	Required. Document type. The Type value is set to <code>Events</code> for an aggregation event. ⁴
				sbdh:CreationDateAndTime	1...1 0/*	DateTime	Required. Date and time of the SBDH document's creation. GMT create date and time for the EPCIS message. The system expects the <code>Z</code> to be appended; however if it is not included, the system assumes that the time is GMT and therefore appends the <code>Z</code> . ⁵
EPCISBody					1...1 -	-	Required. Contains all of the EPCIS events for the decommission message.
		EventList			1...1 -	-	Required. Contains all events within the transaction including event details. The details of the decommission event are also included (e.g. event time, EPCs). The ObjectEvent for decommissioning events is the only event expected in the EventList .
			ObjectEvent		0...* -	-	ObjectEvent for the Decommissioning Events. EventList = ObjectEvent when: action = <code>DELETE</code> bizStep = <code>urn:epcglobal:cbv:bizstep:decommissioning</code> disposition = <code>urn:epcglobal:cbv:disp:inactive</code>
				eventTime	1...1 1/*	DateTime	Required. The date/time time stamp when the decommission event occurred. ⁶
				eventTimeZoneOffset	1...1	String	Required. The time zone offset in the place where the event occurred, consistent with what choice was made for eventTime.

¹EPCglobal²1.0³0000001⁴Events⁵2013-10-01T22:08:02Z⁶2013-10-01T22:08:02Z

Data Element					Occurs Length	Type	Description
							1
				epcList	1...1 -	-	Required. The EPCs of each item, case, and/or pallet decommissioned.
				epc	1...* 1/*	String	Required. The EPC identifier in EPC Pure Identity URI format. See EPC Pure Identifier Format Examples . ²
				action	1...1 0/*	String	Required. The action value must equal DELETE for a decommission event. ³
				bizStep	1...1 0/*	AnyURI	Required. The bizStep value must equal urn:epcglobal:cbv:bizstep:decommissioning for a decommission event. ⁴
				disposition	1...1 0/*	AnyURI	Required. The status of the message. The disposition value must equal urn:epcglobal:cbv:disp:inactive for a decommission event. ⁵
				readPoint	1...1 -	-	Required. The location where the event occurred, i.e. the warehouse GLN location ID and storage location (e.g. shelf, bin) in URN format, that recorded the decommission event.
				id	1...1 0/*	AnyURI	Required. The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN or a more granular location identifier. ⁶
				bizLocation	0...1 -	-	The business location of the message sender who executes the event. This may be a site-level SGLN, or a more granular location identifier. Per GS1 standards, not used for the decommissioning event.
				id	1...1 1/*	AnyURI	The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a more granular location identifier.
				bizTransactionList	0...1 -	-	Business transaction list group.
				bizTransaction	1...*	AnyURI	The transaction identifier associated with the decommissioned product. ⁷

¹-04:00²urn:epc:id:sscc:030944.10105363280³DELETE⁴urn:epcglobal:cbv:bizstep:decommissioning⁵urn:epcglobal:cbv:disp:inactive⁶urn:epc:id:sgln:0614141.12345.RP1⁷urn:epcglobal:cbv:bt:0333331013655:45006290016

Data Element							Occurs Length	Type	Description
						@type	1...1 1/*	String	Required. The transaction identifier type. Valid values: http://epcis.tracelink.com/hc/btt/destruction http://epcis.tracelink.com/hc/btt/removal urn:epcglobal:cbv:btt:rma
						@date	0...1 0/*	Date	Transaction identifier date attribute in XML YYYY-MM-DD format. ¹
					extension		0...1 -	-	Not used - GS1 Reserved.
					tl:locationId		0...1 0/*	String	External Subscriber Location identifier. When an external Serialized Operations Manager subscriber submits a message, the system uses the subscriber company integration user to perform the action and log this in the audit trail so that all messages executed by the external Serialized Operations Manager subscriber are attributed to that company.
					@type		1...1 0/*	String	Required. Attribute identifies the location types. ² See the LocationIdType enumeration list for valid values.
					tl:decommissionEventExtensions		0...1 -	-	Extensions used for Decommission ObjectEvent .
					tl:transactionDate		0...1 0/*	Date	Date associated with the business transaction document in bizTransactionList in XML date format YYYY-MM-DD. This date may or may not be the same as the eventTime . ³
					tl:disaggregateFromParent		0...1 1/*	Boolean	Valid values: true - instructs the backend to disaggregate a serial number from its parent container (if aggregated) when setting the PackagingSerialNumberStatus of the serial number to DECOMMISSIONED or DESTROYED. false - (default) instructs the backend to generate an error when attempting to change the status of a serial number aggregated to a parent container.  If source is not populated, target will default to false.

¹2019-04-01²ABC123³2017-02-18

Data Element						Occurs Length	Type	Description
					tl:marketCountryCode	0...1 0/2	String	The market country code. ¹ See the ISOCountryCode enumeration list for valid values.
					tl:businessPartyInfo	0...1 -	-	Conditionally requiredRequired. The full business information (e.g. business type, contact information) associated with the authorizing party that decommissioned the serial numbers.
					tl:businessId	1...* 1/*	String	Required. Identifier associated with the authorizing party. ²
					@type	1...1 1/*	String	Required. The type of the Business ID identifier. ³  Only one of the following values may be used per message: - RU_INN_FOREIGN_ENTITY - RU_INN_INDIV - RU_INN_LOCAL_ENTITY See the BusinessAndLocationId enumeration list for valid values.
					tl:businessClassification	0...1 0/*	String	Business classification. See the BusinessClassification enumeration list for valid values.
					tl:BusinessPartyDetail	0...1 -	-	Populate with the business name and address of the authorizing business entity.
					tl:businessName	1...1 1/*	String	Required. Business name of the entity that authorizes the decommissioning of the serial numbers. ⁴
					tl:street1	1...1 1/*	String	Required. First line of the address for the company indicated in tl:businessName . ⁵
					tl:street2	0...1 0/*	String	Second line of the address for the company indicated in tl:businessName . ⁶

¹US²8888882028677³GLN⁴Kendall Pharma⁵300 Trade Center⁶Suite 7690

Data Element							Occurs Length	Type	Description
						tl:city	1...1 1/*	String	Required. The city for the company indicated in tl:businessName . ¹
						tl:village	0...1 0/*	String	Name of the village in which the company is located.
						tl:houseNumber	0...1 0/*	String	Building, house, or unit number of the company. House numbers are usually only separated from the street address in China. For all addresses outside of China, continue to enter the building, house, or unit number in tl:street1 .
						tl:township	0...1 0/*	String	Name of the township in which the company is located.
						tl:district	0...1 0/*	String	Conditionally required for India. District Code only for India. ²  Must be a 3-digit numeric code.
						tl:stateOrRegion	1...1 1/*	String	Required. The state, province, or region of the business entity indicated in the businessName field, using the standard two-letter abbreviation specified in ISO 3166-2:1998 country subdivision code. ³
						tl:postalCode	0...1 1/*	String	The postal code for the company indicated in tl:businessName . ⁴
						tl:country	1...1 1/*	String	Required. The country where the company indicated in the businessName field is located. The country uses the standard two-letter abbreviation specified in ISO 3166-1 alpha-2:1997 country code. ⁵ See the ISOCountryCode enumeration list for valid values.
						tl:corporateFax	0...1 0/*	String	Company fax number.
						tl:addressObjectGUID	0...1 0/*	String	The global identifier assigned by Russian Federation Information Address System (FIAS). ⁶  Maximum 36 characters, using the digits 0-9 and letters A-F

¹Woburn²123³MA⁴01801⁵US⁶19406454-0022-000C-00B0-000000000152

Data Element								Occurs Length	Type	Description
							tl:houseGUID	0...1 0/*	String	The global House identifier assigned by the Russian Federation Information Address System (FIAS). ¹  Maximum 36 characters, using the digits 0-9 and letters A-F
							tl:taxRegistrationCode	0...1 0/*	String	The code used to identify this entity for tax or other legal reporting purposes (e.g. a Russia KPP Registration Code).
							tl:premisesCode	0...1 0/*	String	Identifier representing a physical area within the company location (e.g. a location's second floor).
							tl:warehouseOperatorName	0...1 0/*	String	Conditionally required for China. Name of the person responsible for warehouse operations in the transfer from business entity (where the serial numbers were decommissioned). ²
							tl:decommissionReasonCode	0...1 0/*	String	Reason code for decommission. ³ See the DecommissionReasonCode enumeration list for valid values.
							tl:reasonDescription	0...1 0/*	String	The reason the product was decommissioned. ⁴
							tl:destructionMethod	0...1 0/*	String	Method of destruction. ⁵ See the DestructionMethod enumeration list for valid values.

Example

```
<epcis:EPCISDocument xmlns:epcis="urn:epcglobal:epcis:xsd:1" xmlns:tl="http://epcis.tracelink.com/ns"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:epcglobal="urn:epcglobal:xsd:1" schemaVersion="1" creationDate="2014-02-28T19:12:53Z">
<EPCISHeader>
  <sbdh:StandardBusinessDocumentHeader>
    <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
    <sbdh:Sender>
      <sbdh:Identifier Authority="GLN">81100001014507</sbdh:Identifier>
```

¹19606494-0022-000A-0067-000000001259

²John Smith

³DAMAGED

⁴Damaged from production

⁵LIQUID_DILUTION_DRAINAGE

```

</sbdh:Sender>
<sbdh:Receiver>
  <sbdh:Identifier Authority="GLN">0614141123452</sbdh:Identifier>
</sbdh:Receiver>
<sbdh:DocumentIdentification>
  <sbdh:Standard>EPCglobal</sbdh:Standard>
  <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
  <sbdh:InstanceIdentifier>2013082106310032</sbdh:InstanceIdentifier>
  <sbdh:Type>Events</sbdh:Type>
  <sbdh:CreationDateAndTime>2015-04-30T19:12:53Z</sbdh:CreationDateAndTime>
</sbdh:DocumentIdentification>
</sbdh:StandardBusinessDocumentHeader>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <ObjectEvent>
      <eventTime>2015-06-30T08:30:21Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:068202.0401034.11220207026272</epc>
        <epc>urn:epc:id:sgtin:068202.0401034.15870395191309</epc>
        <epc>urn:epc:id:sgtin:068202.5401034.40000000000019</epc>
      </epcList>
      <action>DELETE</action>
      <bizStep>urn:epcglobal:cbv:bizstep:decommissioning</bizStep>
      <disposition>urn:epcglobal:cbv:disp:inactive</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:8888882.02867.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:8888882.02867.0</id>
      </bizLocation>
      <bizTransactionList>
        <bizTransaction type="http://epcis.tracelink.com/hc/btt/removal" date="2019-04-01">123456789</bizTransaction>
      </bizTransactionList>
      <tl:decomissionEventExtensions>
        <tl:transactionDate>2015-06-30</tl:transactionDate>
        <tl:marketCountryCode>RU</tl:marketCountryCode>
        <tl:businessPartyInfo>

```

```

<tl:businessId type="GLN">8888882028677</tl:businessId>
<tl:businessClassification>MANUFACTURER</tl:businessClassification>
<tl:BusinessPartyDetail>
  <tl:businessName>Russian Pharma</tl:businessName>
  <tl:street1>Bolshoy Devyatinsky Lane 8</tl:street1>
  <tl:city>Moskva</tl:city>
  <tl:stateOrRegion>Presnensky</tl:stateOrRegion>
  <tl:postalCode>121099</tl:postalCode>
  <tl:country>RU</tl:country>
  <tl:addressObjectGUID>19406454-0022-000C-00B0-000000000152</tl:addressObjectGUID>
  <tl:houseGUID>986f2934-be05-438f-A30E-c15b90e15dbc</tl:houseGUID>
</tl:BusinessPartyDetail>
</tl:businessPartyInfo>
<tl:warehouseOperatorName>Sergei Smith</tl:warehouseOperatorName>
<tl:decommissionReasonCode>DAMAGED</tl:decommissionReasonCode>
<tl:reasonDescription>Damaged from production</tl:reasonDescription>
</tl:decomissionEventExtensions>
</ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

Errors

Data Element	Error Message	Description
Class 1		
action	Action DELETE is required for ObjectEvent decommissioning !!!	The error occurs if the source does not equal "DELETE".
bizStep	bizStep urn:epcglobal:cbv:bizstep:decommissioning is required for decommissioning !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:decommissioning".
bizTransaction @type	Valid bizTransaction type is required if bizTransaction is populated !!!	The error occurs if bizTransaction is present and the source is empty or null, or if the source is not a valid value from the enumeration list.
disposition	Disposition urn:epcglobal:cbv:disp:inactive is required for decommissioning !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:inactive".
epc	Invalid EPC format !!!	The error occurs if the source cannot be translated.
epc	Invalid EPC format !!!	The error occurs if the source is invalid.

Data Element	Error Message	Description
ObjectEvent	ObjectEvent is required for decommissioning !!!	The error occurs if the source is empty or null.
readPoint id	Source read point ID is required !!!	The error occurs if the source is empty or null.
sbdh:Sender sbdh:Identifier @Authority	Valid Sender/Identifier Authority is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
sbdh:Receiver sbdh:Identifier @Authority	Valid Receiver/Identifier Authority is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
tl:businessClassification	Valid business classification value is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
tl:businessId	Business party identifier is required !!!	The error occurs if the source is empty or null.
tl:businessId @type	Party type attribute is required when BusinessId is populated !!!	The error occurs if businessId is populated, but the source is empty or null.
tl:businessId @type	Valid business identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
tl:locationId @type	Valid location identifier type is required if location ID is populated !!!	The error occurs if the source empty or null, or is present, but there is no matching entry in the lookup file.
tl:businessName	Business party name is required !!!	The error occurs if the source is empty or null.
tl:city	Business party city is required !!!	The error occurs if the source is empty or null.
tl:country	Business party country is required !!!	The error occurs if the source is empty or null.
tl:decommissionReasonCode	Valid reason code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
tl:destructionMethod	Valid destruction method code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
tl:district	3-digit numeric District code required for country India !!!	The error occurs if country = "IN", but the source is not a 3-digit numeric code.
tl:marketCountryCode	Market Country Code must be at least two characters !!!	The error occurs if the source is less than 2 characters.
tl:stateOrRegion	Business party state or region is required !!!	The error occurs if the source is empty or null.
tl:street1	Business party street address is required !!!	The error occurs if the source is empty or null.

Data Element	Error Message	Description
tl:warehouseOperatorName	Warehouse operator name for China product is required !!!	The error occurs if epc = "http://epcis.tracelink.com/hc/cn-edmc/obj/", but the source is empty or null.
Class 2		
tl:addressObjectGUID	AddressObjectGUID cannot be blank for Country RU	The error occurs if tl:country = "RU", but the source is empty or null.
tl:businessPartyInfo	Reporting Party is required when Transactions are included in the request and products are sold in Russia	The error occurs if a Target Market in Product Master Data = "RU", but the source is empty or null.
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

Decommission Event (EPCIS v1.2)

Guidelines

CMOs and 3PLs use this message to decommission serial numbers on behalf of the product's MAH who owns Serialized Operations Manager. The event data uses the GS1 EPCIS format with extensions in the TraceLink namespace for additional decommission data elements that provide business and regulatory information.

This message uses the Park and Retry functionality. If a prerequisite condition for this message has not been met, TraceLink stops processing the task, returns the task to the queue, and then tries to process the task again every 15 minutes for up to 2 hours.

Message Type: SOM_DECOMMISSION_EVENT

Info Exchange Display Name: Decommission Event

❗ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

❗ NTINs *must* follow the [GS1 Guidance](#) standards as found on the GS1 website.

- Ex: urn:epc:id:sgtin:415001647778.0.1000000000022
- Format: urn:epc:id:sgtin:[company prefix].[indicator digit].[item ref].[serial number]

Information regarding NTINs cannot be exchanged with trade partners unless the specific format outlined above is followed. If using an NTIN without following this format, an outbound error occurs when passing data from TraceLink to a trade partner.

Data Element	Occurs Length	Type	Description
epcis:EPCISDocument	1...1 -	-	Required. EPCIS message root element.

Data Element					Occurs Length	Type	Description
	@schemaVersion				1...1 0/*	Decimal	Required. The version of the EPCIS schema used to populate the EPCIS document elements. Must equal 1.2. ¹
	@creationDate				1...1 1/*	DateTime	Required. Date the message was created in XML DateTime format YYYY-MM-DDTHH:MM:SS:mmZ. ² ⚠ Mandatory according to the EPCIS standard.
	EPCISHeader				1...1 -	-	Required. The XML file control header.
	sbdh:StandardBusinessDocumentHeader				1...1 -	-	Required. Business header information including EPCIS Header Version, Sender, and Receiver information along with the document identification.
		sbdh:HeaderVersion			1...1 0/*	String	Required. The version of the Standard Business Document Header (SBDH). The sbdh:HeaderVersion is set to 1.0. ³
		sbdh:Sender			1...* -	-	Required. A unique identification key for the Sender party of the message, representing the organization that created the standard business document. The sbdh:Sender element must only be used once with GS1 XML messages.
			sbdh:Identifier		1...1 1/*	String	Required. A GLN, SGLN, or any other supported business party type. ⁴ SGLN and all other party types should be sent with a GS1-conformant uri prefix. For example: - urn:epc:id:sgln:088202.867701.0 - http://epcis.gs1us.org/hc/dea/loc/10023141 ⓘ GLN will not have a urn/http prefix. See the MDPartyTypeAttributes enumeration list for valid values.
				@Authority	1...1 1/*	String	Required. The Authority was previously expected to be set to GLN for GS1 XML messages. Update made in December 2016 changed this to take additional values. ⁵

¹1.2²2016-02-28T19:12:53Z³1.0⁴81100001014507⁵GLN

Data Element						Occurs Length	Type	Description
								See the MDPartyTypeEnum s enumeration list for valid values.
			sbdh:Receiver			1...* -	-	Required. A unique identification key for the direct Receiver party of the message, representing the organization which receives the standard business document. The sbdh:Receiver element is used only once with GS1 XML messages.
			sbdh:Identifier			1...1 1/*	String	Required. A GLN, SGLN, or any other supported business party type. SGLN and all other party types should be sent with a GS1-conformant uri prefix. For example: • urn:epc:id:sgln:088202.867701.0 • http://epcis.gs1us.org/hc/dea/loc/10023141  GLN will not have a urn/http prefix. See the MDPartyTypeAttributes enumeration list for valid values.
				@Authority		1...1 1/*	String	Required. The Authority was previously expected to be set to GLN for GS1 XML messages. Update made in December 2016 changed this to take additional values. See the MDPartyTypeEnums enumeration list for valid values.
			sbdh:DocumentIdentification			1...1 -	-	Required. The identification group for the message.
			sbdh:Standard			1...1 0/*	String	Required. The name of the document standard contained in the file/message. The standard value for this field is EPCglobal . ¹
			sbdh:TypeVersion			1...1 0/*	String	Required. The version of the document included. This is the complete version of the document itself and is different from the sbdh:HeaderVersion as these are hard-coded values. The sbdh:TypeVersion is set to 1.0 . ²
			sbdh:InstanceIdentifier			1...1 1/*	String	Required. The reference information, which uniquely identifies this instance of the Standard Business Document between the Sender and the Receiver. This is a hard-coded value. This identifier confirms this document as being distinct from others. ³
			sbdh:Type			1...1	String	Required. The document type. The sbdh:Type value is set to Events for a shipment event. ⁴

¹EPCglobal²1.0³2013082106310032⁴Events

Data Element					Occurs Length	Type	Description
				sbdh:CreationDateAndTime	1...1 0/*	DateTime	Required. Date and time of the SBDH document creation in XML DateTime format YYYY-MM-DDTHH:MM:SS.mmZ. ¹
	EPCISBody				1...1 -	-	Required. All of the EPCIS events for this message.
	EventList				1...1 -	-	Required. The ObjectEvent for decommissioning events is the only event expected in the EventList .
		ObjectEvent			1...* -	-	Required. The ObjectEvent field records decommission events when the following criteria is set accordingly.
				eventTime	1...1 1/*	DateTime	Required. Timestamp of date/time when the event occurred. Must include a time zone indicator as specified in Section 9.5 of [EPCIS1.0.1] in XML DateTime format YYYY-MM-DDTHH:MM:SS.mmZ. ²
				eventTimeZoneOffset	1...1 1/*	String	Required. The time zone offset in the place where the event occurred, consistent with what choice was made for eventTime . A time offset is an amount of time subtracted from or added to UTC (Coordinated Universal Time) to get the current civil time - whether it is standard time or daylight saving time. Per Section 7.2.8 of (EPCIS1.0.1). ³
				epcList	1...1 -	-	Required. The EPCs of each decommissioned item, case, and/or pallet.
				epc	1...* 1/*	String	Required. An item, pallet, or case EPC identifier in EPC Pure Identity URI format. Numerous EPC identifiers can be provided, which creates a list of items/cases. See EPC Pure Identifier Format Examples . ⁴
				action	1...1 0/*	String	Required. The action taken in the transaction. The action value is set to DELETE for a decommission event. ⁵
				bizStep	0...1 0/*	AnyURI	Required. The business step taken in the event. The bizStep value is set to urn:epcglobal:cbv:bizstep:decommissioning for a decommission event. ⁶

¹2016-04-30T19:12:53Z²2016-04-30T08:30:21Z³-05:00⁴See [EPC Pure Identifier Format Examples](#).⁵DELETE⁶urn:epcglobal:cbv:bizstep:decommissioning

Data Element						Occurs Length	Type	Description
				disposition		0...1 0/*	AnyURI	Required. The bizStep , disposition , and action fields define the message event and are grouped together under the GS1 EPCIS guidelines. The disposition indicates the status of the message. The disposition value is set to <code>urn:epcglobal:cbv:disp:inactive</code> for a decommission event. ¹
				readPoint		1...1 -	-	Required. The location where the event occurred. Defined with GS1-conformant party identifier types with full urn or http prefix. SGLN is strongly preferred, but other party types are supported.  readPoint links to location party address data if the data is present in VocabularyElement @id. Use readPoint for master data lookup if it does not link to the location identifier in VocabularyElement @id.
				id		1...1 0/*	AnyURI	Required. The party identifier of the location where the decommissioning event occurs. SGLN is strongly preferred for GS1 conformance, but other party identifiers are also supported. This may be a site-level SGLN or a finer-grain location identifier. ²  If the location address info is populated in EPCISMasterData header extension, this location identifier links to VocabularyElement @id. If the location address is not present in VocabularyElement, this identifier is used for master data lookup in the TraceLink system. See the MDPartyTypeAttributes enumeration list for valid values.
				bizLocation		0...1 -	-	The location where the event occurred.
				id		0...1 1/*	AnyURI	The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN or a finer-grain location identifier. Omitted for decommissioning event.
				bizTransactionList		0...1 -	-	Business transaction list group.
				bizTransaction		1... 0/*	AnyURI	The transaction identifier associated with the decommissioned product. ³
				@type		1...1	String	Required.

¹urn:epcglobal:cbv:disp:inactive²urn:epc:id:sgln:8888882.02867.0³urn:epcglobal:cbv:bt:0333331013655:45006290016

Data Element							Occurs Length	Type	Description
									The transaction identifier type. Valid values: http://epcis.tracelink.com/hc/btt/destruction http://epcis.tracelink.com/hc/btt/removal urn:epcglobal:cbv:btt:rma
					@date		0...1 0/*	Date	Transaction identifier date attribute in XML YYYY-MM-DD format. ¹
				tl:locationId			0...1 -	String	Serialized Operations Manager External Subscriber Location identifier. Type of identifier defined by the type enum below. When transactions are submitted by an external Serialized Operations Manager partner, the system will use the subscriber company integration user to perform the action and log this in the audit trail so that all messages executed by the external Serialized Operations Manager partner are attributed to that company. ²
					@type		1...1 1/*	String	Required. Attribute that identifies the location types. ³ See the MessagePartyIdType enumeration list for valid values.
				tl:decommissionEventExtensions			0...1 -	-	Extensions used for ObjectEvent Decommissioning.
					tl:transactionDate		0...1 0/*	Date	Date associated with the business transaction document in bizTransactionList in XML date format YYYY-MM-DD. This date may or may not be the same as the eventTime . ⁴
					tl:disaggregateFromParent		0...1 1/*	Boolean	When set to true , instructs the backend to disaggregate a serial number from its parent container (if it is aggregated) when setting the PackagingSerialNumberStatus of the serial number to DECOMMISSIONED or DESTROYED . If not set, or set to false , the backend operates in default mode, which is to generate an error when attempting to change the status of a serial number aggregated to a parent container. If source is not populated, target defaults to false .
					tl:marketCountryCode		0...1 2/2	String	The market country code. ⁵

¹2019-04-01²8888882028677³GLN⁴2015-04-30⁵US

Data Element						Occurs Length	Type	Description
								See the ISOCountryCode enumeration list for valid values.
					tl:businessPartyInfo	0...1 0/*	-	Required. Authorizing party information for the decommissioning event. <i>ⓘ</i> Master data lookup is supported for decommissioning events if the full location address is not present. If master data lookup is not intended, send complete address information for the location of the decommissioning event.
					tl:businessId	1...* 0/*	String	Required. Identifier associated with the authorizing business entity.
					@type	1...1 0/*	String	Required. The business identifier type. See the BusinessAndLocationId enumeration list for valid values.
					tl:businessClassification	1...1 0/*	String	The classification of the business. See the BusinessClassification enumeration list for valid values.
					tl:BusinessPartyDetail	0...1 -	-	Business name and address of the authorizing business entity.
					tl:businessName	1...1 0/*	String	Required. Business name of the entity that is authorizing the decommissioning of the serial numbers.
					tl:street1	1...1 0/*	String	Required. First line of the address for the company indicated in tl:businessName .
					tl:street2	0...1 0/*	String	Second line of the address for the company indicated in tl:businessName .
					tl:city	1...1 0/*	String	Required. City for the company indicated in tl:businessName .
					tl:village	0...1 0/*	String	Name of the village in which the company is located.
					tl:houseNumber	0...1 0/*	String	Building, house, or unit number of the company. House numbers are usually only separated from the street address in China. For all addresses outside of China, continue to enter the building, house, or unit number in tl:street1 .
					tl:township	0...1 0/*	String	Name of the township in which the company is located.

Data Element							Occurs Length	Type	Description
						tl:district	0...1 0/*	String	Conditionally required for India. District code.  Must be a 3-digit numeric code.
						tl:stateOrRegion	1...1 0/*	String	Required. The state, province, or region of the business entity indicated in tl:businessName, using the standard two-letter abbreviation specified in the ISO 3166-2:1998 country subdivision code.
						tl:postalCode	0...1 1/*	String	Postal code for the company indicated in tl:businessName.
						tl:country	1...1 0/*	String	Required. The country where the company indicated in tl:businessName is located. The country uses the standard two-letter abbreviation specified in the ISO 3166-1alpha-2:1997 country code. See the ISOCountryCode enumeration list for valid values.
						tl:corporateFax	0...1 0/*	String	Company fax number.
						tl:addressObjectGUID	0...1 0/36	String	The global identifier assigned by the Russian Federation Information Address System (FIAS).¹  Maximum of 36 characters, using the digits 0-9 and letters A-F
						tl:houseGUID	0...1 0/36	String	The global house identifier assigned by the Russian Federation Information Address System (FIAS).²  Maximum of 36 characters, using the digits 0-9 and letters A-F
						tl:taxRegistrationCode	0...1 0/*	String	The code used to identify this entity for tax or other legal reporting purposes (e.g. a Russia KPP Registration Code).
						tl:premisesCode	0...1 0/*	String	Identifier representing a physical area within the company location (e.g. a location's second floor).
					tl:warehouseOperatorName		0...1	String	Conditionally required for China. Name of the person responsible for warehouse operations in

¹19406454-0022-000C-00B0-0000000000152²986f2934-be05-438f-A30E-c15b90e15dbc

Data Element						Occurs Length	Type	Description
								1
					tl:decommissionReasonCode	0...1 0/*	String	Reason code for decommissioning. ² See the DecommissionReasonCode enumeration list for valid values.
					tl:reasonDescription	0...1 0/*	String	Description of why the product was decommissioned. ³
					tl:destructionMethod	0...1 0/*	String	Method of destruction. ⁴ See the DestructionMethod enumeration list for valid values.

Example

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<epcis:EPCISDocument xmlns:epcis="urn:epcglobal:epcis:xsd:1" xmlns:tl="http://epcis.tracelink.com/ns"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:epcglobal="urn:epcglobal:xsd:1" schemaVersion="1.2" creationDate="2018-01-30T08:30:21Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier Authority="GLN">6667771013655</sbdh:Identifier>
      </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier Authority="GLN">8887771013655</sbdh:Identifier>
      </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>201911221845200002</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
        <sbdh:CreationDateAndTime>2019-11-22T18:45:20.0Z</sbdh:CreationDateAndTime>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
  </EPCISHeader>
</epcis:EPCISDocument>
```

¹John Smith

²PRODUCTION_DEFECT

³Defect from production

⁴LIQUID_DILUTION_DRAINAGE

```

    </sbdh:StandardBusinessDocumentHeader>
  </EPCISHeader>
  <EPCISBody>
    <EventList>
      <ObjectEvent>
        <eventTime>2019-11-22T18:45:20.0Z</eventTime>
        <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
        <epcList>
          <epc>urn:epc:id:sgtin:068202.0401034.11220207024594</epc>
          <epc>urn:epc:id:sgtin:068202.0401034.11220207024595</epc>
        </epcList>
        <action>DELETE</action>
        <bizStep>urn:epcglobal:cbv:bizstep:decommissioning</bizStep>
        <disposition>urn:epcglobal:cbv:disp:inactive</disposition>
        <readPoint>
          <id>urn:epc:id:sgln:6667771.01365.0</id>
        </readPoint>
        <bizLocation>
          <id>urn:epc:id:sgln:6667771.01365.0</id>
        </bizLocation>
        <tl:locationId type="GLN">6667771013655</tl:locationId>
        <tl:decommissionEventExtensions>
          <tl:transactionDate>2019-11-22</tl:transactionDate>
          <tl:disaggregateFromParent>false</tl:disaggregateFromParent>
          <tl:marketCountryCode>RU</tl:marketCountryCode>
          <tl:businessPartyInfo>
            <tl:businessId type="SGLN">088202.867778.0</tl:businessId>
            <tl:businessClassification>DISTRIBUTOR</tl:businessClassification>
            <tl:BusinessPartyDetail>
              <tl:businessName>Russia Pharma</tl:businessName>
              <tl:street1>Bolshoy Devyatinsky Lane 8</tl:street1>
              <tl:city>Moskva</tl:city>
              <tl:stateOrRegion>Presnensky</tl:stateOrRegion>
              <tl:postalCode>121099</tl:postalCode>
              <tl:country>RU</tl:country>
              <tl:addressObjectGUID>19406454-0022-000C-00B0-000000000152</tl:addressObjectGUID>
              <tl:houseGUID>986f2934-be05-438f-A30E-c15b90e15dbc</tl:houseGUID>
            </tl:BusinessPartyDetail>
          </tl:businessPartyInfo>
          <tl:warehouseOperatorName>Sergei Smith</tl:warehouseOperatorName>
        </tl:decommissionEventExtensions>
      </ObjectEvent>
    </EventList>
  </EPCISBody>
</EPCIS>

```

```

        <tl:decommissionReasonCode>DAMAGED</tl:decommissionReasonCode>
        <tl:reasonDescription>Defect from production</tl:reasonDescription>
    </tl:decommissionEventExtensions>
</ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

Errors

Data Element	Error Message	Description	Inbound / Outbound
Class 1			
sbdh:Sender sbdh:Identifier	Source message sender is required !!!	The error occurs if the source is empty or null.	OB
sbdh:Sender sbdh:Identifier @Authority	Valid Sender/Identifier Authority is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.	IB
	Partner type in source type attribute is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.	OB
sbdh:Receiver sbdh:Identifier	Source message receiver is required !!!	The error occurs if the source is empty or null.	OB
sbdh:Receiver sbdh:Identifier @Authority	Valid Receiver/Identifier Authority is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.	IB
	Partner type in source type attribute is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.	OB
ObjectEvent	ObjectEvent is required for decommissioning !!!	The error occurs if the source is empty or null.	IB
epc	Invalid EPC format !!!	The error occurs if the number could not be translated, or has any other unrecognized content.	IB
	Serial number is required !!!	The error occurs if the source is empty or null.	OB
action	Action DELETE is required for decommissioning !!!	The error occurs if the source does not equal "DELETE" for the decommission event.	IB
bizstep	bizStep urn:epcglobal:cbv:bizstep:decommissioning is required for decommissioning !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:decommissioning".	IB
disposition	Disposition urn:epcglobal:cbv:disp:inactive is required for decommissioning !!!	The error occurs if the source does not equal	IB

Data Element	Error Message	Description	Inbound / Outbound
		"urn:epcglobal:cbv:disp:inactive".	
readPoint id	Source read point ID is required !!!	The error occurs if the source is empty or null.	IB
	Event Location Required !!!	The error occurs if the source is empty or null.	OB
	Valid decommission event location identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.	IB
	Valid Event Location Type Required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.	OB
bizTransaction @type	Valid bizTransaction type is required if bizTransaction is populated !!!	The error occurs if bizTransaction is present and the source is empty or null, or if the source is not a valid value from the enumeration list.	IB
	Valid transaction identifier type is required if TransactionIdentifier is populated !!!	The error occurs if TransactionIdentifier is present and the source is empty or null, or if the source is not a valid value from the enumeration list.	OB
locationId @type	Valid location identifier type is required if location ID is populated !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.	IB
tl:transactionDate	Transaction date is required !!!	The error occurs if the source is empty or null.	OB
tl:marketCountryCode	Market Country Code must be at least two characters !!!	The error occurs if the source is less than two characters.	IB
tl:businessId	Business party identifier is required !!!	The error occurs if tl:businessPartyInfo is populated, but the source is empty or null.	IB
	Destroying business party ID is required !!!	The error occurs if tl:businessPartyInfo is populated, but the source is empty or null.	OB
tl:businessId @type	Valid business identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.	IB/OB
	Party type attribute is required when BusinessId is populated !!!	The error occurs if tl:businessId is populated, but the source is empty or null.	IB
tl:businessClassification	Valid business classification value is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.	IB/OB
tl:businessName	Business name of business party is required !!!	The error occurs if the source is empty or null.	IB/OB

Data Element	Error Message	Description	Inbound / Outbound
tl:street1	Street address of business party is required !!!	The error occurs if the source is empty or null.	IB/OB
tl:city	City of business party is required !!!	The error occurs if the source is empty or null.	IB/OB
tl:district	3-digit numeric District code required for country India !!!	The error occurs if tl:country = "IN", but the source is not a 3-digit numeric code.	IB/OB
tl:stateOrRegion	State or region of business party is required !!!	The error occurs if the source is empty or null.	IB/OB
tl:country	Country of business party is required !!!	The error occurs if the source is empty or null.	IB/OB
tl:warehouseOperatorName	Warehouse operator name for China product is required !!!	The error occurs if cmn:NumberList cmn:Serial @format = "CN-EDMC", but source is empty or null.	IB/OB
tl:decommissionReasonCode	Valid reason code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.	IB/OB
tl:destructionMethod	Valid destruction method code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.	IB/OB
Class 2			
Class 2 errors are thrown in response to the Serialized Operations Manager Decommission (EPCIS v1.2) inbound message.			
decommissionEvent	Required field DecommissionEvent is empty	The error occurs if the source is empty or null.	
	More than one DecommissionEvent found	The error occurs if more than one source is found.	
decommissionParam	More than one decommissionParam found	The error occurs if more than one source is found.	
	no decommissionParam found	The error occurs if the source is empty or null.	
inFilename, origFilename, origCompanyname, origFileDate, cntrlID	File <inFilename> is a potential duplicate match with file <origFilename> sent from <origFilename> received on <origFileDate>, based on both files having the same File Control Number <cntrlID>.	The error occurs if file is a duplicate.	
message	message body is null	The error occurs if the source is empty or null.	
tl:addressObjectGUID	AddressObjectGUID cannot be blank for Country RU.	The error occurs if tl:country = "RU", but the source is empty or null.	
tl:businessPartyInfo	Reporting Party is required when Transactions are included in the request and products are sold in Russia	The error occurs if a Target Market in Product Master Data = "RU", but the source is empty or null.	
Class 3			
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.			

Decommission (SOAP)

Decommission Request

Guidelines

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

Data Element					Occurs Length	Type	Description
soapenv:Envelope					1...1 -	-	Required. SOAP Envelope root element.
soapenv:Header					1...1 -	-	Required. SOAP Message Header. Not used by TraceLink.
soapenv:Body					1...1 -	-	Required. SOAP Message Body.
urn:Decommission					1...1 -	-	Required. Decommission message.
DecommissionRequest					0...1 -	-	Required. The decommission request message to decommission a set of serial numbers.
DisaggregateFromParent					0...1 1/*	Boolean	A flag that determines whether the system automatically disaggregates child serial numbers from the parent container, where relevant. - If set to true, the system automatically disaggregates child serial numbers from the parent container if they are aggregated. - If set to false, and the serial number to be decommissioned is aggregated to a parent container, the system returns an error. Defaults to false.
SerialNumberList					0...1 -	-	Required. The list of one or more serial numbers that will be decommissioned.
SerialNumber					1...*		Required. The parent container's serial number.

Data Element							Occurs Length	Type	Description
						@sn	1...1 1/*	String	Required. A parent serial number. See Serial Number Data Examples . ¹
						@namespace	0...1 1/*	String	Not supported by TraceLink. See Serial Number Data Examples .
					Sampled		0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item was sampled.²  One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo

¹00008820200000047506²true

Data Element					Occurs Length	Type	Description
							• SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other
				Damaged	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item is damaged.¹ ❗ One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection

¹false

Data Element					Occurs Length	Type	Description
							• SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other
				Recalled	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item was recalled.¹ ⚠ One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen

¹false

Data Element					Occurs Length	Type	Description
							• Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other
				Expired	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item is expired.¹ ⚠ One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged

¹false

Data Element					Occurs Length	Type	Description
							• SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other
				Misplaced	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item was misplaced.¹  One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired • Misplaced

¹false

Data Element					Occurs Length	Type	Description
							• Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other
				Dispensed	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item was dispensed. ⚠ One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired

Data Element					Occurs Length	Type	Description
							• Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other
				Disposed	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item was disposed. ⚠ One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled

Data Element					Occurs Length	Type	Description
							• Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other
				Repackaged	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item is repackaged. ⚠ One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged

Data Element					Occurs Length	Type	Description
							- Recalled - Expired - Misplaced - Dispensed - Disposed - Repackaged - SampledArchival - SampledByAuthorities - Stolen - Withdrawn - SampledCustomsControl - SampledFederalInspection - SampledClinicalStudy - SampledPharmaStudy - SampledMarketingDemo - SampledSelectiveControl - Spoilage - WithdrawnExperiment - Defective - InappropriatelyStored - Returned - Other
				SampledByAuthorities	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item was sampled by authorities. ⚠ One, and only one, of the following reason code elements may be set to true: Sampled

Data Element					Occurs Length	Type	Description
							• Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other
				Stolen	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item is stolen.  One, and only one, of the following reason code elements may be set to true:

Data Element					Occurs Length	Type	Description
							• Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other
				Withdrawn	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item is withdrawn.

Data Element					Occurs Length	Type	Description
							 One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other

Data Element					Occurs Length	Type	Description
				SampledCustomsControl	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item was sampled for customs inspection. ⚠ One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other

Data Element					Occurs Length	Type	Description
				SampledFederalInspection	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item was sampled for federal inspection. ⚠ One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other

Data Element					Occurs Length	Type	Description
							Item attribute set with Serial Number State and Item State indicating the item was sampled for post-registration pharmaceutical study supporting submitted changes to a dossier. ❗ One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned
				SampledPharmaStudy	0...1 1/*	Boolean	

Data Element					Occurs Length	Type	Description
							Other
				SampledMarketingDemo	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item was sampled for marketing demonstration purposes. ⚠ One, and only one, of the following reason code elements may be set to true: - Sampled - Damaged - Recalled - Expired - Misplaced - Dispensed - Disposed - Repackaged - SampledArchival - SampledByAuthorities - Stolen - Withdrawn - SampledCustomsControl - SampledFederalInspection - SampledClinicalStudy - SampledPharmaStudy - SampledMarketingDemo - SampledSelectiveControl - Spoilage - WithdrawnExperiment - Defective - InappropriatelyStored

Data Element					Occurs Length	Type	Description
							• Returned • Other
				Spoilage	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item is spoiled (e.g. due to heat, oxygen, moisture, microorganisms). ⚠ One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment

Data Element					Occurs Length	Type	Description
							• Defective • InappropriatelyStored • Returned • Other
				WithdrawnExperiment	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item is withdrawn from circulation of SSCC or SGTIN, piled or accumulated in the course of the experiment. ⚠ One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl

Data Element					Occurs Length	Type	Description
							• Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other
				Defective	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item is defective. ⚠ One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo

Data Element					Occurs Length	Type	Description
							• SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other
				InappropriatelyStored	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item was inappropriately stored. ⚠ One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy

Data Element					Occurs Length	Type	Description
							• SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other
				Returned	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item was returned. ⚠ One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy

Data Element					Occurs Length	Type	Description
							• SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other
				Other	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item was decommissioned for other reasons. ❗ One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection

Data Element				Occurs Length	Type	Description
						• SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other
				ReasonCode	0...1 -	String
				A code that indicates the reason for the change in serial number status. ¹ See the ReasonCode enumeration list for valid values.  This is an optional field. If not specified, defaults to STATUSUPDATE.		
				EventDateTime	0...1 -	Date
				The date and time of the event in XSD GMT date format (YYYY-MM-DDTHH:MM:SSZ). If omitted, the system will record the current date-time. ²		
				Transactions	0...1 -	
				Required. The transaction identifiers associated with the decommission. If providing the Excel 2003 format of the report, this is not required.		
				Transaction	0...* 1/*	String
				Required. The list of one or more transaction identifiers associated with the decommission event.		
				ItemID	0...1 1/*	String
				Conditionally required for Turkey. The transaction identifier associated with decommissioning. ³		

¹STATUSUPDATE²2015-06-01T17:10:16Z³100250

Data Element							Occurs Length	Type	Description
						ItemType	0...1 1/*	String	Required. The transaction identifier type using the supported enumeration values (e.g. DESTRUCTION). ¹ See the TransactionId enumeration list for valid values.
						Date	0...1 1/*	String	Required. The date of the transaction in XML YYYY-MM-DD format. This value is used for regulatory reporting of the transaction date. ²
				ReasonDescription			0...1 1/*	String	Conditionally required for Turkey (where the limit is 100 characters and the value must be in Turkish). The reason for the destruction. ³
				DestructionMethod			0...1 1/*	String	Required. The method of product destruction. ⁴ See the DestructionMethod enumeration list for valid values.
				LongRunningRestSupport			- -	Boolean	Not used.
				ReportingPartyIdentifier			0...1 -	-	Required. The identifier of the business party that will be reporting the event to the government. ⁵
					@identiertype		0...1 1/*	String	Required. Indicates the reporting business party identifier type. ⁶ See the IdentifierType enumeration list for valid values.
					@identifiervalue		0...1 1/*	String	Required. Indicates the identifier value of the reporting business party. ⁷
				MarketCountryCode			0...1 2/3	String	The country, using the standard two-letter abbreviation specified in ISO 3166-1alpha-2:1997 country code. ⁸
				LocationType			0...1 1/*	String	The type of location where the event occurred. See the LocationId enumeration list for valid values.
				Location			0...1	String	Required. The site-level location identifier where the event occurred. This element defaults to the company level if no location is provided. ⁹

¹DESTRUCTION²2015-06-01³Damaged goods in the warehouse.⁴INCINERATION⁵8888882028677⁶DEA⁷123456789⁸TR⁹8888882.02867.0

Data Element					Occurs Length	Type	Description
							 In most cases, this value is an SGLN, the format for which must be the numeric component only, with the urn prefix stripped (e.g. 8888882.02867.0 instead of urn:epc:id:sgln:8888882.02867.0 typically found in EPCIS events).

Example

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:urn="urn:tracelink:soap">
  <soapenv:Header/>
  <soapenv:Body>
    <urn:Decommission>
      <DecommissionRequest>
        <DisaggregateFromParent>true</DisaggregateFromParent>
        <SerialNumberList>
          <SerialNumber sn="00008820200000047506" namespace="?"/>
        </SerialNumberList>
        <Sampled>false</Sampled>
        <Damaged>false</Damaged>
        <Recalled>false</Recalled>
        <Expired>false</Expired>
        <MarketReleased>false</MarketReleased>
        <Misplaced>false</Misplaced>
        <Dispensed>false</Dispensed>
        <Disposed>false</Disposed>
        <Repackaged>false</Repackaged>
        <SampledByAuthorities>false</SampledByAuthorities>
        <Stolen>false</Stolen>
        <Withdrawn>false</Withdrawn>
        <SampledArchival>false</SampledArchival>
        <SampledCustomsControl>false</SampledCustomsControl>
        <SampledFederalInspection>false</SampledFederalInspection>
        <SampledClinicalStudy>false</SampledClinicalStudy>
        <SampledPharmaStudy>false</SampledPharmaStudy>
        <SampledMarketingDemo>false</SampledMarketingDemo>
        <SampledSelectiveControl>false</SampledSelectiveControl>
        <Spoilage>false</Spoilage>
        <WithdrawnExperiment>false</WithdrawnExperiment>
      </DecommissionRequest>
    </urn:Decommission>
  </soapenv:Body>
</soapenv:Envelope>
```

```

<Defective>false</Defective>
<InappropriatelyStored>false</InappropriatelyStored>
<Returned>false</Returned>
<Other>false</Other>
<ReasonCode>STATUSUPDATE</ReasonCode>
<EventDateTime>2015-06-01T17:10:16Z</EventDateTime>
<Transactions>
  <Transaction>
    <ItemID>100250</ItemID>
    <ItemType>DESTRUCTION</ItemType>
    <Date>2015-06-01</Date>
  </Transaction>
</Transactions>
<ReasonDescription>Depoda Hasarlı mallar</ReasonDescription>
<ReportingPartyIdentifier identiifiertype="COMPANYID" identiifiervalue="8888882028677"/>
<MarketCountryCode>TR</MarketCountryCode>
<LocationType>SGLN</LocationType>
<Location>8888882.02867.0</Location>
</DecommissionRequest>
</urn:Decommission>
</soapenv:Body>
</soapenv:Envelope>

```

Errors

Exception Code	Exception Message
BADAGGREGATESTATE	Operation could not be performed because serial number <serial number> and serial number <parent serial number> are currently in different states, or the operation would result in them having different states. Parent and child serial numbers are not permitted to be in different states.
CANNOTBEAGGREGATED	Operation could not be performed because serial number <serial number> is aggregated to container <parent serial number>.
CROSSLOCATIONS	Operation cannot be performed against serial numbers in multiple locations.
EVENTTIMEAFTERNOW	Event time stamp must not be in the future.
EVENTTIMEBEFORELASTEVENT	Event time stamp is earlier than the last event for serial number <serial number>.
MLTUPLE_ATTRIBUTES_DECOMMISSION	The serial number(s) could not be decommissioned. The Decommission API request may only specify a single reason code.

Exception Code	Exception Message
NEVERCOMMISSIONED	Serial number <serial number> was never commissioned.
NOSOMSERVICE	No Serialized Operations Manager service found.
NOTCOMMISSIONED	Serial number <serial number> is not commissioned.
NOTCOMMISSIONEDLOCATION	Serial Number <serial number> was not commissioned at this location.
NOTVALIDLOCATION	Location <location identifier> was not valid for serial number <serial number>.
SNNOTFOUND	Serial number <serial number> does not exist.
SOMDUPLICATESNS	The following serial numbers were listed more than once: <serial number>.
VALIDATION	Destruction Method is required for products sold in Russia.
	Item Attribute is required for products sold in Russia.
	Location is required for products sold in Russia.
	Reporting Party is required when Transactions are included in the request and products are sold in Russia.
	The parameter <field name> is missing or had an invalid value.
	Transaction Identifier for 'Removal from Circulation' is required for products sold in Russia.

Decommission Response

Guidelines

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

The following fields are included in the message response:

Data Element	Occurs Length	Type	Description
S:Envelope	1...1	-	Required. SOAP Envelope root element.

Data Element						Occurs Length	Type	Description
	S:Body					1..1 -	-	Required. SOAP Message Body.
		ns2:DecommissionResponse				1..1 -	-	Required. Decommission response message.
			TLResponse			0..1 -	-	Required. TraceLink response message.
				Success		0..1 -	-	Required. Indicates if the decommission request successfully processed. ¹
				ExceptionReturn		0..1 -	-	Conditionally required if Success = false ; omitted otherwise. Error information.
				CallException		1..* -	-	Required. Error details including the exception code and error message, if available.
					ExceptionCode	0..1 0/*	String	Required. Error code.
					ExceptionMessage	0..1 0/*	String	Conditionally required if error condition is available. Message that further describes error condition.

Example

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:DecommissionResponse xmlns:ns2="urn:tracelink:soap" xmlns:ns3="http://tracelink.com/som">
      <TLResponse>
        <Success>true</Success>
      </TLResponse>
    </ns2:AggregateResponse>
  </S:Body>
</S:Envelope>
```

¹true

ESM Destroy (EPCIS v1.2)

Guidelines

This message uses the Park and Retry functionality. If a prerequisite condition for this message has not been met, TraceLink stops processing the task, returns the task to the queue, and then tries to process the task again every 15 minutes for up to 2 hours.

Message Type: SOM_ESM_DESTROY

Info Exchange Display Name: ESM Destroy

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

⚠ NTINs *must* follow the [GS1 Guidance](#) standards as found on the GS1 website.

- Ex: urn:epc:id:sgtin:415001647778.0.100000000022
- Format: urn:epc:id:sgtin:[company prefix].[indicator digit][item ref].[serial number]

Information regarding NTINs cannot be exchanged with trade partners unless the specific format outlined above is followed. If using an NTIN without following this format, an outbound error occurs when passing data from TraceLink to a trade partner.

Data Element		Occurs Length	Type	Description
epcis:EPCISDocument		1...1 -	-	Required. EPCIS message root element.
@schemaVersion		1...1 0/*	Decimal	Required. The version of the EPCIS schema used to populate the EPCIS document elements. Must equal 1.2 . ¹
@creationDate		1...1 1/*	DateTime	Required. Date the message was created in YYYY-MM-DDTHH:MM:SS:mmZ format. ²

¹1.2

²2017-01-30T08:30:21.32Z

Data Element					Occurs Length	Type	Description
EPCISHeader					0...1 –	-	Required. The XML file control header.
sbdh:StandardBusinessDocumentHeader					1...1 –	-	Required. Business header information including EPCIS Header Version, Sender, and Receiver information, along with the document identification.
sbdh:HeaderVersion					1...1 0/*	String	Required. Version of the Standard Business Document Header (SBDH). The HeaderVersion must be set to 1.0 . ¹
sbdh:Sender					1...* –	-	Required. A unique identification key for the Sender party of the message, representing the organization that created the standard business document. The Sender element must be used only once with GS1 XML messages.
sbdh:Identifier					1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type.² Send SGLN and all other party types with the GS1-conformant uri prefix, for example: urn:epc:id:sgln:088202.867701.0 http://epcis.gs1us.org/hc/dea/loc/10023141  GLNs do not have an urn/http prefix. See the MDPartyTypeAttributes enumeration list for valid values.
@Authority					1...1 1/*	String	Required. The sender identifier type. The Authority was previously expected to be set to GLN for GS1 XML messages. An update made in December 2016 changed this to accept additional values.³ See the MDPartyTypeEnums enumeration list for valid values.
sbdh:Receiver					1...* –	-	Required. Indicates a unique identification key for the direct Receiver party of the message, representing the organization that receives the standard business document. The Receiver element is used only once with GS1 XML messages.
sbdh:Identifier					1...1 1/*	String	Required. The value of the Identifier element may be a GLN, SGLN, or any other supported business party type.⁴ Send SGLN and all other party types with the GS1-conformant uri prefix, for example: urn:epc:id:sgln:088202.867701.0

¹1.0²8888882028677³GLN⁴8888882028655

Data Element					Occurs Length	Type	Description
							http://epcis.gs1us.org/hc/dea/loc/10023141  GLNs do not have an urn/http prefix. See the MDPartyTypeAttributes enumeration list for valid values.
				@Authority	1...1 1/*	String	Required. This attribute defines the receiver identifier type. The Authority was previously expected to be set to GLN for GS1 XML messages. Update made in December 2016 changed this to take additional values. ¹ See the MDPartyTypeEnums enumeration list for valid values.
			sbdh:DocumentIdentification		1...1 –	-	Required. Contains the identification group for the message.
				sbdh:Standard	1...1 0/*	String	Required. Name of the document standard contained in the file or message. The standard value for this field is EPCglobal . ²
				sbdh:TypeVersion	1...1 0/*	String	Required. Reflects the version of the document included. This is the complete version of the document itself and is different from the HeaderVersion as these are hard-coded values. The TypeVersion is set to 1.0 . ³
				sbdh:InstanceIdentifier	1...1 1/*	String	Required. Reference information that uniquely identifies this instance of the Standard Business Document between the Sender and the Receiver. This identifier confirms this document as being distinct from others. ⁴
				sbdh:Type	1...1 0/*	String	Required. Identifies the document type. The Type value is set to Events for a shipment event. ⁵
				sbdh:CreationDateAndTime	1...1 0/*	DateTime	Required. The date and time of the SBDH document's creation. GMT create date and time for the EPCIS message. The system expects the Z to be appended; however, if it is not included, the system assumes that the time is GMT and therefore appends the Z . ⁶
			EPCISBody		1...1 –	-	Required. Contains all of the EPCIS events for this message.
			EventList		1...1	-	Required. The ObjectEvent for destroying events is the only event expected in the EventList .

¹GLN²EPCglobal³1.0⁴000001⁵Events⁶2017-01-30T08:30:21.32Z

Data Element				Occurs Length	Type	Description
			ObjectEvent	1...* -	-	Required. The ObjectEvent describing destroying events. EventList = ObjectEventDestroying when : • action = DELETE • bizStep = urn:epcglobal:cbv:bizstep:destroying • disposition = urn:epcglobal:cbv:disp:destroyed
			eventTime	1...1 1/*	DateTime	Required. The time stamp of the date/time when the event occurred in YYYY-MM-DDTHH:MM:SS.mm or YYYY-MM-DDTHH:MM:SS.mmm format. Must include a time zone indicator as specified in Section 9.5 of [EPCIS1.0.1]. The system expects the Z to be appended if it is not included; however, the system assumes that the time is GMT and therefore appends the Z. ¹
			eventTimeZoneOffset	1...1 1/*	String	Required. The time zone offset in the place where the event occurred, consistent with what choice was made for eventTime. A time offset is an amount of time subtracted from or added to UTC (Coordinated Universal Time) to get the current civil time, whether it is standard time or Daylight saving time. Per Section 7.2.8 of [EPCIS1.0.1]. ²
			epcList	1...1 -	-	Required. The EPCs of each item, case, and/or pallet destroyed.
			epc	1...* 1/*	String	Required. The EPC identifier in EPC Pure Identity URI format. See EPC Pure Identifier Format Examples . ³
			action	1...1 0/*	String	Required. The action value must equal DELETE . ⁴
			bizStep	0...1 0/*	AnyURI	Required. The bizStep value must equal urn:epcglobal:cbv:bizstep:destroying . ⁵
			disposition	0...1 0/*	AnyURI	Required. The disposition value must equal urn:epcglobal:cbv:disp:destroyed . ⁶
			readPoint	0...1	-	Required. Location where the event occurs. Define using the GS1-conformant party identifier types with full

¹2017-01-30T08:30:21.32Z²-04:00³urn:epc:id:sscc:030944.10105363280⁴DELETE⁵urn:epcglobal:cbv:bizstep:destroying⁶urn:epcglobal:cbv:disp:destroyed

Data Element					Occurs Length	Type	Description
							urn or http prefix. SGLN is strongly preferred, but other party types are supported. Links to location party address data if present in VocabularyElement @id.
				id	1...1 0/*	AnyURI	Required. The party identifier of the location where the destroying event occurs. SGLN is strongly preferred for GS1-conformance, but other party identifiers are also supported. This may be a site-level SGLN, or a finer-grain location identifier. ¹ This location identifier links to VocabularyElement @id if location address information is present in the EPCISMasterData header extension. See the MDPartyTypeAttributes enumeration list for valid values.
				bizLocation	0...1 -	-	The business location of the message sender who executes the event. Not used for a destroying event.
				id	1...1 1/*	AnyURI	The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN, or a finer-grain location identifier.
				bizTransactionList	0...1 -	-	Business transaction list group.
				bizTransaction	1...* 0/*	AnyURI	The transaction identifier associated with the decommissioned product. ²
				@type	1...1 1/*	String	Required. The transaction identifier type. Valid values: http://epcis.tracelink.com/hc/btt/destruction http://epcis.tracelink.com/hc/btt/removal urn:epcglobal:cbv:btt:rma
				@date	0...1 0/*	Date	Transaction identifier date attribute in XML YYYY-MM-DD format. ³
				tl:locationId	0...1 0/*	String	Serialized Operations Manager External Subscriber Location identifier. When messages are submitted by an external Serialized Operations Manager subscriber, the system uses the subscriber company integration user to perform the action and log this in the audit trail so that all transactions executed by the external

¹urn:epc:id:sgln:0614141.12345.1400²urn:epcglobal:cbv:bt:0333331013655:45006290016³2019-04-01

Data Element						Occurs Length	Type	Description
								1
					@type	1...1 1/*	String	Required. The location types. ² See the MessagePartyIDType enumeration list for valid values.
				tl:destroyEventExtensions		1...1 -	-	Required. Extensions used for ObjectEvent Destroying.
					tl:transactionDate	0...1 0/*	Date	Date associated with the business message document in bizTransactionList in XML date format YYYY-MM-DD. This date may or may not be the same as the eventTime . ³
					tl:disaggregateFromParent	0...1 -	Boolean	Valid values: ⁴ true - instructs backend to disaggregate a serial number from its parent container (if aggregated) when setting the PackagingSerialNumberStatus of the serial number to DECOMMISSIONED or DESTROYED. false - instructs backend to operate in default mode, which is to generate an error when attempting to change the status of a serial number aggregated to a parent container. <i>i</i> If source is not populated, target will default to false.
					tl:marketCountryCode	0...1 0/2	String	Market country code. ⁵
					tl:businessPartyInfo	0...1 -	-	Required. The full business information (e.g. business type, contact information) associated with the authorizing party that destroyed the serial numbers.
					tl:businessId	1...* 1/*	String	Required. The identifier associated with the authorizing party. ⁶
					@type	1...1 1/*	String	Required. The type of the BusinessId identifier. ⁷

¹8888882028677²GLN³2017-01-30⁴false⁵US⁶8888882028677⁷GLN

Data Element							Occurs Length	Type	Description
									 Only one of the following values may be used per message: - RU_INN_FOREIGN_ENTITY - RU_INN_INDIV - RU_INN_LOCAL_ENTITY See the BusinessAndLocationId enumeration list for valid values.
						tl:businessClassification	0...1 0/*	String	Business classification. See the BusinessClassification enumeration list for valid values.
						tl:BusinessPartyDetail	0...1 -	-	The business name and address of the authorizing business entity.
						tl:businessName	1...1 1/*	String	Required. Business name of the entity that authorizes the destruction of the serial numbers. ¹
						tl:street1	1...1 1/*	String	Required. The first line of the street address. ²
						tl:street2	0...1 0/*	String	The second line of the street address. ³
						tl:city	1...1 1/*	String	Required. The city. ⁴
						tl:village	0...1 0/*	String	Name of the village in which the company is located.
						tl:houseNumber	0...1 0/*	String	Building, house, or unit number of the company. House numbers are usually only separated from the street address in China. For all addresses outside of China, continue to enter the building, house, or unit number in tl:street1 .
						tl:township	0...1 0/*	String	Name of the township in which the company is located.

¹Kendal Pharma²300 Trade Center³Suite 7690⁴Woburn

Data Element							Occurs Length	Type	Description
						tl:district	0...1 0/*	String	Conditionally required for India. District Code only for India.¹  Must be a 3-digit numeric code.
						tl:stateOrRegion	1...1 1/*	String	Required. The state, province, or region using the standard two-letter abbreviation specified in ISO 3166-2:1998 country subdivision code ²
						tl:postalCode	0...1 1/*	String	The ZIP or other postal code. ³
						tl:country	1...1 1/*	String	Required. The country using the standard two-letter abbreviation specified in ISO 3166-1alpha-2:1997 country code.⁴ See the ISOCountryCode enumeration list for valid values.
						tl:corporateFax	0...1 0/*	String	Company fax number.
						tl:addressObjectGUID	0...1 0/*	String	The global identifier assigned by Russian Federation Information Address System (FIAS). ⁵  Maximum 36 characters, using the digits 0-9 and letters A-F
						tl:houseGUID	0...1 0/*	String	The global House identifier assigned by the Russian Federation Information Address System (FIAS). ⁶  Maximum 36 characters, using the digits 0-9 and letters A-F
						tl:taxRegistrationCode	0...1 0/*	String	The code used to identify this entity for tax or other legal reporting purposes (e.g. a Russia KPP Registration Code).
						tl:premisesCode	0...1 0/*	String	Identifier representing a physical area within the company location (e.g. a location's second floor).

¹123²MA³01801⁴US⁵19406454-0022-000C-00B0-000000000152⁶19606494-0022-000A-0067-000000001259

Data Element					Occurs Length	Type	Description
				tl:warehouseOperatorName	0...1 0/*	String	Conditionally required for China. Name of the person responsible for warehouse operations. ¹
				tl:decommissionReasonCode	0...1 0/*	String	Reason code for decommission. ² See the DecommissionReasonCode enumeration list for valid values.
				tl:reasonDescription	0...1 0/*	String	The reason the product was decommissioned. ³
				tl:destructionMethod	0...1 0/*	String	Method of destruction. ⁴ See the DestructionMethod enumeration list for valid values.

Example

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<epcis:EPCISDocument xmlns:epcis="urn:epcglobal:epcis:xsd:1" xmlns:tl="http://epcis.tracelink.com/ns"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
  xmlns:epcglobal="urn:epcglobal:xsd:1" schemaVersion="1.2" creationDate="2017-01-30T08:30:21Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier Authority="GLN">81100001014507</sbdh:Identifier>
      </sbdh:Sender>
      <sbdh:Receiver>
        <sbdh:Identifier Authority="GLN">0614141123452</sbdh:Identifier>
      </sbdh:Receiver>
      <sbdh:DocumentIdentification>
        <sbdh:Standard>EPCglobal</sbdh:Standard>
        <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
        <sbdh:InstanceIdentifier>2017013006310032</sbdh:InstanceIdentifier>
        <sbdh:Type>Events</sbdh:Type>
      </sbdh:DocumentIdentification>
    </sbdh:StandardBusinessDocumentHeader>
  </EPCISHeader>
</epcis:EPCISDocument>
```

¹John Smith

²DAMAGED

³Damaged from production

⁴LIQUID_DILUTION_DRAINAGE

```

        <sbdh:CreationDateAndTime>2017-01-30T08:30:21Z</sbdh:CreationDateAndTime>
    </sbdh:DocumentIdentification>
</sbdh:StandardBusinessDocumentHeader>
</EPCISHeader>
<EPCISBody>
    <EventList>
        <ObjectEvent>
            <eventTime>2017-01-30T08:30:21Z</eventTime>
            <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
            <epcList>
                <epc>urn:epc:id:sgtin:068202.0401034.11220207026272</epc>
                <epc>urn:epc:id:sgtin:068202.0401034.15870395191309</epc>
                <epc>urn:epc:id:sgtin:068202.5401034.40000000000019</epc>
            </epcList>
            <action>DELETE</action>
            <bizStep>urn:epcglobal:cbv:bizstep:destroying</bizStep>
            <disposition>urn:epcglobal:cbv:disp:destroyed</disposition>
            <readPoint>
                <id>urn:epc:id:sgln:8888882.02867.0</id>
            </readPoint>
            <bizTransactionList>
                <bizTransaction type="http://epcis.tracelink.com/hc/btt/removal" date="2019-04-
01">123456789</bizTransaction>
            </bizTransactionList>
            <tl:locationId type="GLN">8888882028677</tl:locationId>
            <tl:destroyEventExtensions>
                <tl:transactionDate>2017-01-30</tl:transactionDate>
                <tl:disaggregateFromParent>false</tl:disaggregateFromParent>
                <tl:marketCountryCode>US</tl:marketCountryCode>
                <tl:businessPartyInfo>
                    <tl:businessId type="SGLN">088202.867777.0</tl:businessId>
                    <tl:businessClassification>DISTRIBUTOR</tl:businessClassification>
                    <tl:BusinessPartyDetail>
                        <tl:businessName>Russia Pharma</tl:businessName>
                        <tl:street1>Bolshoy Devyatinsky Lane 8</tl:street1>
                        <tl:city>Moskva</tl:city>
                        <tl:stateOrRegion>Presnensky</tl:stateOrRegion>
                        <tl:postalCode>121099</tl:postalCode>
                        <tl:country>RU</tl:country>
                        <tl:addressObjectGUID>19406454-0022-000C-00B0-000000000152</tl:addressObjectGUID>
                    </tl:BusinessPartyDetail>
                </tl:businessPartyInfo>
            </tl:destroyEventExtensions>
        </ObjectEvent>
    </EventList>
</EPCISBody>
</EPCIS>

```

```

        <tl:houseGUID>986f2934-be05-438f-A30E-c15b90e15dbc</tl:houseGUID>
    </tl:BusinessPartyDetail>
</tl:businessPartyInfo>
    <tl:warehouseOperatorName>Sergei Smith</tl:warehouseOperatorName>
    <tl:decommissionReasonCode>DEFECTIVE</tl:decommissionReasonCode>
    <tl:reasonDescription>Defect from production</tl:reasonDescription>
    <tl:destructionMethod>INCINERATION</tl:destructionMethod>
</tl:destroyEventExtensions>
</ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

Errors

Data Element	Error Message	Description
Class 1		
action	Action DELETE is required for destroying !!!	The error occurs if the source does not equal "DELETE".
bizStep	bizStep urn:epcglobal:cbv:bizstep:destroying is required for destroying !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:destroying".
bizTransaction @type	Valid bizTransaction type is required if bizTransaction is populated !!!	The error occurs if bizTransaction is present and the source is empty or null, or if the source is not a valid value from the enumeration list.
disposition	Disposition urn:epcglobal:cbv:disp:destroyed is required for destroying !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:destroyed".
epc	Invalid EPC format !!!	The error occurs if the source value could not be translated.
	Serial number in source epc is required !!!	The error occurs if the source is empty or null.
locationId @type	Location identifier type is required if location ID is populated !!!	The error occurs if locationId is populated, but the source is empty or null.
locationId @type	Valid Location identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
ObjectEvent	ObjectEvent is required for destroying !!!	The error occurs if the source is empty or null.
readPoint id	Source read point ID is required !!!	The error occurs if the source is empty or null.
sbdh:Receiver sbdh:Identifier @Authority	Valid Receiver/Identifier Authority is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.

Data Element	Error Message	Description
sbdh:Sender sbdh:Identifier @Authority	Valid Sender/Identifier Authority is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
tl:businessClassification	Valid business classification value is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
tl:businessId	Business party identifier is required !!!	The error occurs if the source is empty or null.
tl:businessId @type	Valid business identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
	Party type attribute is required when BusinessId is populated !!!!	The error occurs if the source is empty or null.
tl:businessName	Transfer from business party name is required !!!	The error occurs if the source is empty or null.
tl:city	Transfer from business party city is required !!!	The error occurs if the source is empty or null.
tl:country	Transfer from business party country is required !!!	The error occurs if the source is empty or null.
tl:decommissionReasonCode	Valid reason code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
tl:destructionMethod	Valid destruction method code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.
tl:district	3-digit numeric District code required for country India !!!	The error occurs if Country = "IN", but the source is not a 3 character numeric code.
tl:marketCountryCode	Market Country Code must be at least two characters !!!	The error occurs if the source is present but is less than 2 characters.
tl:stateOrRegion	Transfer from business party state or region is required !!!	The error occurs if the source is empty or null.
tl:street1	Transfer from business party street address is required !!!	The error occurs if the source is empty or null.
tl:warehouseOperatorName	Warehouse operator name for China product is required !!!	The error occurs if epc = "http://epcis.tracelink.com/hc/cn-edmc/obj/", but the source is empty or null.
Class 2		
tl:addressObjectGUID	AddressObjectGUID cannot be blank for Country RU	The error occurs if tl:country = "RU", but the source is empty or null.
tl:businessPartyInfo	Reporting Party is required when Transactions are included in the request and products are sold in Russia	The error occurs if a Target Market in Product Master Data = "RU", but the source is empty or null.
Class 3		
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.		

Destroy Event (EPCIS v1.2)

Guidelines

CMOs and 3PLs use this message to decommission serial numbers on behalf of the product's MAH who owns Serialized Operations Manager. The event data uses the GS1 EPCIS format with extensions in the TraceLink namespace for additional decommission data elements that provide business and regulatory information.

This message uses the Park and Retry functionality. If a prerequisite condition for this message has not been met, TraceLink stops processing the task, returns the task to the queue, and then tries to process the task again every 15 minutes for up to 2 hours.

Message Type:snd SOM_DESTROY_EVENT

Info Exchange Display Name: Destroy Event

ⓘ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

ⓘ NTINs *must* follow the [GS1 Guidance](#) standards as found on the GS1 website.

- Ex: urn:epc:id:sgtin:415001647778.0.1000000000022
- Format: urn:epc:id:sgtin:[company prefix].[indicator digit][item ref].[serial number]

Information regarding NTINs cannot be exchanged with trade partners unless the specific format outlined above is followed. If using an NTIN without following this format, an outbound error occurs when passing data from TraceLink to a trade partner.

Data Element	Occurs Length	Type	Description
epcis:EPCISDocument	1...1 -	-	Required. The EPCISDocument element contains the EPCIS message root element.

Data Element						Occurs Length	Type	Description
	@schemaVersion					1...1 0/*	Decimal	Required. The version of the EPCIS schema used to populate the EPCIS document elements. Must be 1.2. ¹
	@creationDate					1...1 1/*	DateTime	Required. The date that the message was created in XML DateTime format YYYY-MM-DDTHH:MM:SS:mmZ. ²
	EPCISHeader					1...1 -	-	Required. The XML file control header.
	sbdh:StandardBusinessDocumentHeader					1...1 -	-	Required. Business header information including EPCIS Header Version, Sender, and Receiver information along with the document identification.
			sbdh:HeaderVersion			1...1 0/*	String	Required. The version of the Standard Business Document Header (SBDH). The sbdh:HeaderVersion is set to 1.0. ³
			sbdh:Sender			1...* -	-	Required. A unique identification key for the Sender party of the message, representing the organization which created the standard business document. The sbdh:Sender element must only be used once with GS1 XML messages.
				sbdh:Identifier		1...1 1/*	String	Required. A GLN, SGLN, or any other supported business party type.⁴ SGLN and all other party types should be sent with a GS1-conformant uri prefix. For example: - urn:epc:id:sgln:088202.867701.0 - http://epcis.gs1us.org/hc/dea/loc/10023141  GLN will not have a urn/http prefix. See the MDPartyTypeAttributes enumeration list for valid values.
					@Authority	1...1 1/*	String	Required. The Authority was previously expected to be set to GLN for GS1 XML messages. Update made in December 2016 changed this to take additional values.⁵ See the MDPartyTypeEnums enumeration list for valid values.

¹1.2²2017-02-28T19:12:53:34Z³1.0⁴1100001014507⁵GLN

Data Element				Occurs Length	Type	Description
			sbdh:Receiver	1...* -	-	Required. A unique identification key for the direct Receiver party of the message, representing the organization which receives the standard business document. The sbdh:Receiver element is used only once with GS1 XML messages.
			sbdh:Identifier	1...1 1/*	String	Required. A GLN, SGLN, or any other supported business party type.¹ SGLN and all other party types should be sent with a GS1-conformant uri prefix. For example: • <code>urn:epc:id:sgln:088202.867701.0</code> • <code>http://epcis.gs1us.org/hc/dea/loc/10023141</code>  GLN will not have a urn/http prefix. See the MDPartyTypeAttributes enumeration list for valid values.
			@Authority	1...1 1/*	String	Required. The Authority was previously expected to be set to GLN for GS1 XML messages. Update made in December 2016 changed this to take additional values.² See the MDPartyTypeEnums enumeration list for valid values.
			sbdh:DocumentIdentification	1...1 -	-	Required. The identification group for the message.
			sbdh:Standard	1...1 0/*	String	Required. The name of the document standard contained in the file/message. The standard value for this field is EPCglobal . ³
			sbdh:TypeVersion	1...1 0/*	String	Required. The version of the document included. This is the complete version of the document itself and is different from the sbdh:HeaderVersion as these are hard-coded values. The sbdh:TypeVersion is set to 1.0 . ⁴
			sbdh:InstanceIdentifier	1...1 1/*	String	Required. The reference information, which uniquely identifies this instance of the Standard Business Document between the Sender and the Receiver. This is a hard-coded value. This identifier confirms this document as being distinct from others. ⁵

¹0614141123452²GLN³EPCglobal⁴1.0⁵2013082106310032

Data Element						Occurs Length	Type	Description
				sbdh:Type		1...1 0/*	String	Required. The document type. The sbdh:Type value is set to Events for a shipment event. ¹
				sbdh:CreationDateAndTime		1...1 0/*	DateTime	Required. The date and time of the SBDH document's creation. GMT create date and time for the EPCIS message. The system expects the Z to be appended; however if it is not included, the system assumes that the time is GMT and therefore appends the Z . ²
	EPCISBody					1...1 -	-	Required. All of the EPCIS events for this message.
		EventList				1...1 -	-	Required. All events within the message including event details. A Decommission Event is indicated by the action , bizstep , and disposition . The details of the destroy event are also included (e.g. event time, epcs). The ObjectEvent for destroy events is the only event expected in the EventList .
			ObjectEvent			1...* -	-	Required. The ObjectEvent field records destroy events when the following criteria is set accordingly (see Transaction Identifiers for message type settings details).
				eventTime		1...1 1/*	DateTime	Required. The date/time time stamp when the destroy event occurred. ³
				recordTime		0...1 0/*	DateTime	Not used.
				eventTimeZoneOffset		1...1 1/*	String	Required. The time zone offset in the place where the event occurred, consistent with what choice was made for eventTime . A time offset is an amount of time subtracted from or added to UTC (Coordinated Universal Time) to get the current civil time - whether it is standard time or daylight saving time. Per Section 7.2.8 of (EPCIS1.0.1). ⁴
				epcList		1...1 -	-	Required. The EPCs of each destroyed item, case, and/or pallet.
					epc	1...* 1/*	String	Required. An item, pallet, or case EPC identifier. Numerous EPC identifiers can be provided, which creates a list of items/cases. ⁵

¹Events²2017-04-30T19:12:53:33Z³2017-04-30T08:30:21:24Z⁴-05:00⁵ See [EPC Pure Identifier Format Examples](#).

Data Element					Occurs Length	Type	Description
				action	1...1 0/*	String	Required. The action taken in the message. The action value is set to DELETE for a destroy event. ¹
				bizStep	0...1 0/*	AnyURI	Required. The business step taken in the event. The bizStep value is set to urn:epcglobal:cbv:bizstep:destroying for a destroy event. ²
				disposition	0...1 0/*	AnyURI	Required. The bizStep , disposition , and action fields define the message event and are grouped together under the GS1 EPCIS guidelines. The disposition indicates the status of the transaction. The disposition value is set to urn:epcglobal:cbv:disp:destroyed for a destroy event. ³
				readPoint	1...1 -	-	Required. The location where the event occurred. Defined with GS1-conformant party identifier types with full urn or http prefix. SGLN is strongly preferred, but other party types are supported.  readPoint links to location party address data if the data is present in VocabularyElement @id. Use readPoint for master data lookup if it does not link to the location identifier in VocabularyElement @id.
				id	1...1 0/*	AnyURI	Required. The party identifier of the location where the destroying event occurs. This may be a site-level SGLN or a finer-grain location identifier. ⁴  If the location address info is populated in EPCISMasterData header extension, this location identifier links to VocabularyElement @id. If the location address is not present in VocabularyElement, this identifier is used for master data lookup in the TraceLink system. See the MDPartyTypeAttributes enumeration list for valid values.
				bizLocation	0...1 -	-	The location where the event occurred.
				id	0...1 1/*	AnyURI	The SGLN EPC of the location from where the event occurred. This may be a site-level SGLN or a finer-grain location identifier. Omitted for destroying event.

¹DELETE²urn:epcglobal:cbv:bizstep:destroying³urn:epcglobal:cbv:disp:destroyed⁴urn:epc:id:sgln:8888882.02867.0

Data Element					Occurs Length	Type	Description
				bizTransactionList	0...1 -	-	Business transaction list group.
				bizTransaction	1...* 0/*	AnyURI	The transaction identifier associated with the destroyed product. ¹
				@type	1...1 1/*	String	Required. The transaction identifier type. Valid values: http://epcis.tracelink.com/hc/btt/destruction http://epcis.tracelink.com/hc/btt/removal urn:epcglobal:cbv:btt:rma
				@date	0...1 0/*	Date	Transaction identifier date attribute in XML YYYY-MM-DD format. ²
				locationId	0...1 -	String	Serialized Operations Manager External Subscriber Location identifier. Type of identifier defined by type enum below. When messages are submitted by an external Serialized Operations Manager Partner, the system will use the subscriber company integration user to perform the action and log this in the audit trail so that all transactions executed by the external Serialized Operations Manager Partner are attributed to that company.
				@type	1...1 1/*	String	Conditionally required if locationId is populated. Attribute identifies the location types. See the MessagePartyIdType enumeration list for valid values.
				tl:destroyEventExtensions	0...1 -	-	The extensions used for destroying the ObjectEvent .
				tl:transactionDate	0...1 0/*	Date	The date, in XML date format YYYY-MM-DD, associated with the business transaction document in the bizTransactionList . This date may or may not be the same as the eventTime field. ³
				tl:disaggregateFromParent	0...1 1/*	Boolean	When set to true , instructs backend to disaggregate a serial number from its parent container (if it is aggregated) when setting the PackagingSerialNumberStatus of the serial number to DECOMMISSIONED or DESTROYED .

¹urn:epcglobal:cbv:bt:0333331013655:45006290016²2019-04-01³2015-04-30

Data Element						Occurs Length	Type	Description
								If not set, or set to false, the backend operates in default mode, which is to generate an error when attempting to change the status of a serial number aggregated to a parent container. If source is not populated, target defaults to false.
					tl:marketCountryCode	0...1 2/2	String	This field indicates the market country code. ¹
					tl:businessPartyInfo	0...1 0/*	-	Required. Authorizing party information for the destroying event.  Master data lookup is supported for destroying events if the full location address is not present. If master data lookup is not intended, send complete address information for the location of the decommissioning event.
					tl:businessId	1...* 0/*	String	Required. Identifier associated with the authorizing business entity.
					@type	1...1 0/*	String	Required. The business identifier type. See the BusinessAndLocationId enumeration list for valid values.
					tl:businessClassification	0...1 0/*	String	The classification of business. See the BusinessClassification enumeration list for valid values.
					tl:BusinessPartyDetail	0...1 -	-	Business name and address of the authorizing business entity.
					tl:businessName	1...1 0/*	String	Required. Business name of the entity that is authorizing the destruction of serial numbers.
					tl:street1	1...1 0/*	String	Required. First line of the address for the company indicated in tl:businessName .
					tl:street2	0...1 0/*	String	Second line of the address for the company indicated in tl:businessName .
					tl:city	1...1 0/*	String	Required. City for the company indicated in tl:businessName .

¹US

Data Element							Occurs Length	Type	Description
						tl:village	0...1 0/*	String	Name of the village in which the company is located.
						tl:houseNumber	0...1 0/*	String	Building, house, or unit number of the company. House numbers are usually only separated from the street address in China. For all addresses outside of China, continue to enter the building, house, or unit number in tl:street1 .
						tl:township	0...1 0/*	String	Name of the township in which the company is located.
						tl:district	0...1 0/*	String	Conditionally required for India. District code.  Must be a 3-digit numeric code.
						tl:stateOrRegion	1...1 0/*	String	Required. The state, province, or region of the business entity indicated in tl:businessName , using the standard two-letter abbreviation specified in the ISO 3166-2:1998 country subdivision code.
						tl:postalCode	0...1 1/*	String	Postal code for the company indicated in tl:businessName .
						tl:country	1...1 0/*	String	Required. The country where the company indicated in the businessName field is located. The country uses the standard two-letter abbreviation specified in the ISO 3166-1alpha-2:1997 country code. See the ISOCountryCode enumeration list for valid values.
						tl:corporateFax	0...1 0/*	String	Company fax number.
						tl:addressObjectGUID	0...1 0/36	String	The global identifier assigned by the Russian Federation Information Address System (FIAS). ¹  Maximum of 36 characters, using the digits 0-9 and letters A-F
						tl:houseGUID	0...1 0/36	String	The global house identifier assigned by the Russian Federation Information Address System (FIAS). ²

¹19406454-0022-000C-00B0-000000000152²986f2934-be05-438f-A30E-c15b90e15dbc

Data Element								Occurs Length	Type	Description
										 Maximum of 36 characters, using the digits 0-9 and letters A-F
							tl:taxRegistrationCode	0...1 0/*	String	The code used to identify this entity for tax or other legal reporting purposes (e.g. a Russia KPP Registration Code).
							tl:premisesCode	0...1 0/*	String	Identifier representing a physical area within the company location (e.g. a location's second floor).
							tl:warehouseOperatorName	0...1 0/*	String	Conditionally required for China. Name of the person responsible for warehouse operations in the transfer from business entity (where the serial numbers were destroyed). ¹
							tl:decommissionReasonCode	0...1 0/*	String	The reason code for destroy. ² See the DecommissionReasonCode enumeration list for valid values.
							tl:reasonDescription	0...1 0/*	String	A brief description of why the product was destroyed. ³
							tl:destructionMethod	0...1 0/*	String	Method of destruction. ⁴ See the DestructionMethod enumeration list for valid values.

Example

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<epcis:EPCISDocument xmlns:epcis="urn:epcglobal:epcis:xsd:1" xmlns:tl="http://epcis.tracelink.com/ns"
xmlns:sbdh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader"
xmlns:epcglobal="urn:epcglobal:xsd:1" schemaVersion="1.2" creationDate="2017-01-30T08:30:21Z">
  <EPCISHeader>
    <sbdh:StandardBusinessDocumentHeader>
      <sbdh:HeaderVersion>1.0</sbdh:HeaderVersion>
      <sbdh:Sender>
        <sbdh:Identifier Authority="GLN">6667771013655</sbdh:Identifier>
      </sbdh:Sender>
    </sbdh:StandardBusinessDocumentHeader>
  </EPCISHeader>
</epcis:EPCISDocument>
```

¹John Smith

²DESTROY_DAMAGED

³The product was damaged.

⁴LIQUID_DILUTION_DRAINAGE

```

<sbdh:Receiver>
  <sbdh:Identifier Authority="GLN">8887771013655</sbdh:Identifier>
</sbdh:Receiver>
<sbdh:DocumentIdentification>
  <sbdh:Standard>EPCglobal</sbdh:Standard>
  <sbdh:TypeVersion>1.0</sbdh:TypeVersion>
  <sbdh:InstanceIdentifier>201911221845200002</sbdh:InstanceIdentifier>
  <sbdh:Type>Events</sbdh:Type>
  <sbdh:CreationDateAndTime>2019-11-22T18:45:20.0Z</sbdh:CreationDateAndTime>
</sbdh:DocumentIdentification>
</sbdh:StandardBusinessDocumentHeader>
</EPCISHeader>
<EPCISBody>
  <EventList>
    <ObjectEvent>
      <eventTime>2019-11-22T18:45:20.0Z</eventTime>
      <eventTimeZoneOffset>-05:00</eventTimeZoneOffset>
      <epcList>
        <epc>urn:epc:id:sgtin:068202.0401034.11220207024594</epc>
        <epc>urn:epc:id:sgtin:068202.0401034.11220207024595</epc>
      </epcList>
      <action>DELETE</action>
      <bizStep>urn:epcglobal:cbv:bizstep:destroying</bizStep>
      <disposition>urn:epcglobal:cbv:disp:destroyed</disposition>
      <readPoint>
        <id>urn:epc:id:sgln:6667771.01365.0</id>
      </readPoint>
      <bizLocation>
        <id>urn:epc:id:sgln:6667771.01365.0</id>
      </bizLocation>
      <tl:locationId type="GLN">6667771013655</tl:locationId>
      <tl:destroyEventExtensions>
        <tl:transactionDate>2019-11-22</tl:transactionDate>
        <tl:disaggregateFromParent>false</tl:disaggregateFromParent>
        <tl:marketCountryCode>RU</tl:marketCountryCode>
        <tl:businessPartyInfo>
          <tl:businessId type="SGLN">088202.867778.0</tl:businessId>
          <tl:businessClassification>DISTRIBUTOR</tl:businessClassification>
          <tl:BusinessPartyDetail>
            <tl:businessName>Russia Pharma</tl:businessName>
          </tl:BusinessPartyDetail>
        </tl:businessPartyInfo>
      </tl:destroyEventExtensions>
    </ObjectEvent>
  </EventList>
</EPCISBody>

```

```

        <tl:street1>Bolshoy Devyatinsky Lane 8</tl:street1>
        <tl:city>Moskva</tl:city>
        <tl:stateOrRegion>Presnensky</tl:stateOrRegion>
        <tl:postalCode>121099</tl:postalCode>
        <tl:country>RU</tl:country>
        <tl:addressObjectGUID>19406454-0022-000C-00B0-000000000152</tl:addressObjectGUID>
        <tl:houseGUID>986f2934-be05-438f-A30E-c15b90e15dbc</tl:houseGUID>
    </tl:BusinessPartyDetail>
</tl:businessPartyInfo>
<tl:warehouseOperatorName>Sergei Smith</tl:warehouseOperatorName>
<tl:decommissionReasonCode>PRODUCTION_DEFECT</tl:decommissionReasonCode>
<tl:reasonDescription>Defect from production</tl:reasonDescription>
</tl:destroyEventExtensions>
</ObjectEvent>
</EventList>
</EPCISBody>
</epcis:EPCISDocument>

```

Errors

Data Element	Error Message	Description	Inbound/Outbound
Class 1			
sbdh:Sender sbdh:Identifier	Source message sender is required !!!	The error occurs if the source is empty or null.	OB
sbdh:Sender sbdh:Identifier @Authority	Valid Sender/Identifier Authority is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.	IB
	Partner type in source type attribute is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.	OB
sbdh:Receiver sbdh:Identifier	Source message receiver is required !!!	The error occurs if the source is empty or null.	OB
sbdh:Receiver sbdh:Identifier @Authority	Valid Receiver/Identifier Authority is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.	IB
	Partner type in source type attribute is required !!!	The error occurs if the source is empty or null, or is not a valid value from the enumeration list.	OB
ObjectEvent	ObjectEvent is required for destroying!!!	The error occurs if the source is empty or null.	IB

Data Element	Error Message	Description	Inbound/Outbound
epc	Invalid EPC format !!!	The error occurs if the number could not be translated, or has any other unrecognized content.	IB
	Serial number is required !!!	The error occurs if the source is empty or null.	OB
	Valid serial number is required !!!	The error occurs if the serial number is invalid.	OB
action	Action DELETE is required for destroying!!!	The error occurs if the source does not equal "DELETE" for the destroy event.	IB
bizstep	bizStep urn:epcglobal:cbv:bizstep:destroying is required for destroying !!!	The error occurs if the source does not equal "urn:epcglobal:cbv:bizstep:destroying".	IB
disposition	Disposition urn:epcglobal:cbv:disp:destroyed is required for destroying!!!	The error occurs if the source does not equal "urn:epcglobal:cbv:disp:destroyed".	IB
readPoint id	Event Location Required !!!	The error occurs if the source is empty or null.	OB
	Valid Event Location Type Required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.	OB
	Source read point ID is required !!!	The error occurs if the source is empty or null.	IB
bizTransaction @type	Valid bizTransaction type is required if bizTransaction is populated !!!	The error occurs if bizTransaction is present and the source is empty or null, or if the source is not a valid value from the enumeration list.	IB
	Valid transaction identifier type is required if TransactionIdentifier is populated !!!	The error occurs if transactionIdentifier is present and the source is empty or null, or if the source is not a valid value from the enumeration list.	OB
locationId @type	@type occurs fewer times than its minimum number of occurrences.	The error occurs if the source is empty or null.	IB
	Location identifier type is required if location ID is populated !!!	The error occurs if the source is empty or null.	IB
	Valid location identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.	IB
tl:transactionDate	Destroy Event Transaction Date is required !!!	The error occurs if the source is empty or null.	OB
tl:marketCountryCode	Market Country Code must be at least two characters !!!	The error occurs if data is less than two characters.	IB
tl:businessId	Business party identifier is required !!!	The error occurs if tl:businessPartyInfo is populated, but the source is empty or null.	IB

Data Element	Error Message	Description	Inbound/Outbound
	Destroying business party ID is required !!!	The error occurs if tl:businessPartyInfo is populated, but the source is empty or null.	OB
tl:businessId @type	Valid business identifier type is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.	IB/OB
	Party type attribute is required when BusinessId is populated !!!	The error occurs if tl:businessId is populated, but the source is empty or null.	IB
tl:businessClassification	Valid business classification value is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.	IB/OB
tl:businessName	Business name of business party is required !!!	The error occurs if the source is empty or null.	IB/OB
tl:street1	Street address of business party is required !!!	The error occurs if the source is empty or null.	IB/OB
tl:city	City of business party is required !!!	The error occurs if the source is empty or null.	IB/OB
tl:district	3-digit numeric District code required for country India !!!	The error occurs if tl:country = "IN", but the source is not a 3-digit numeric code.	IB/OB
tl:stateOrRegion	State or region of business party is required !!!	The error occurs if the source is empty or null.	IB/OB
tl:country	Country of business party is required !!!	The error occurs if the source is empty or null.	IB/OB
tl:warehouseOperatorName	Warehouse operator name for China product is required !!!	The error occurs if epcList epc = "http://epcis.tracelink.com/obj/cn-edmn/", but the source is empty or null.	IB/OB
tl:decommissionReasonCode	Valid reason code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.	IB/OB
tl:destructionMethod	Valid destruction method code is required !!!	The error occurs if the source is present, but there is no matching entry in the lookup file.	IB/OB
Class 2			
Class 2 errors are thrown in response to the Serialized Operations Manager Destroy (EPCIS v1.2) inbound message.			
destroyEvent	Required field DestroyEvent is empty	The error occurs if the source is empty or null.	
	More than one DestroyEvent found	The error occurs if more than one source is found.	

Data Element	Error Message	Description	Inbound/Outbound
destroyParams	no DestroyParams found	The error occurs if the source is empty or null.	
	More than one DestroyParams found	The error occurs if more than one source is found.	
inFilename, origFilename, origCompanyname, origFileDate, cntrlID	File <inFilename> is a potential duplicate match with file <origFilename> sent from <origFilename> received on <origFileDate>, based on both files having the same File Control Number <cntrlID>.	The error occurs if file is a duplicate.	
message	message body is null	The error occurs if the source is empty or null.	
tl:addressObjectGUID	AddressObjectGUID cannot be blank for Country RU.	The error occurs if tl:country = "RU", but the source is empty or null.	
tl:businessPartyInfo	Reporting Party is required when Transactions are included in the request and products are sold in Russia	The error occurs if a Target Market in Product Master Data = "RU", but the source is empty or null.	
Class 3			
The following is thrown for all Class 3 errors: "INTERNALERROR=Internal error from server [server details]." Please contact Support if this error is encountered.			

Destroy (SOAP)

Destroy Request

Guidelines

❗ When sending an element in Date or DateTime format, a valid date must be given. "00" is not a valid day or month value and "0000" is not a valid year value.

The following data is sent in the request to TraceLink:

Data Element	Occurs Length	Type	Description
soapenv:Envelope	1...1 -	-	Required. SOAP Envelope root element.
soapenv:Header	1...1	-	Not used by TraceLink.

Data Element				Occurs Length	Type	Description
	soapenv:Body			1...1 -	-	Required. SOAP Message Body.
		urn:Destroy		1...1 -	-	Required. Destroy Message.
			DestroyRequest	0...1 -	-	Required. The destroy request message to destroy a set of serial numbers.
			DisaggregateFromParent	0...1 1/*	Boolean	A flag that determines whether the system automatically disaggregates child serial numbers from the parent container, where relevant. - If set to true, the system automatically disaggregates child serial numbers from the parent container if they are aggregated. - If set to false, and the serial number to be destroyed is aggregated to a parent container, the system returns an error. Defaults to false.
			Items	0...1 -	-	Required. The list of one or more serial numbers to be destroyed.
			Item	1...* -	-	Required. The serial number to be destroyed.
			@sn	1...1 1/*	String	Required. A serial number that will be destroyed. See Serial Number Data Examples . ¹
			@namespace	0...1 1/*	String	Not supported by TraceLink.
			Sampled	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item was sampled.²  One, and only one, of the following reason code elements may be set to true: Sampled Damaged Recalled

¹00008820200000047506²true

Data Element					Occurs Length	Type	Description
							• Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other
				Damaged	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item was damaged.¹ ❗ One, and only one, of the following reason code elements may be set to true:

¹false

Data Element					Occurs Length	Type	Description
							• Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other

Data Element					Occurs Length	Type	Description
				Recalled	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item was recalled.¹ ❗ One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored

¹false

Data Element					Occurs Length	Type	Description
							• Returned • Other
				Expired	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item is expired.¹ ⚠ One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage

¹false

Data Element					Occurs Length	Type	Description
							• WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other
				Misplaced	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item was misplaced.¹ ⚠ One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy

¹false

Data Element					Occurs Length	Type	Description
							• SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other
				Dispensed	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item was dispensed.¹ ❗ One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl

¹false

Data Element					Occurs Length	Type	Description
							• SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other
				Disposed	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item was disposed.¹ ⚠ One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities

¹false

Data Element					Occurs Length	Type	Description
							• Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other
				Repackaged	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item is repackaged.¹ ⚠ One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed

¹false

Data Element					Occurs Length	Type	Description
							• Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other
				SampledByAuthorities	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item was sampled by authorities.¹ ❗ One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired

¹false

Data Element					Occurs Length	Type	Description
							• Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other
				Stolen	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item is stolen.¹ ⚠ One, and only one, of the following reason code elements may be set to true: • Sampled

¹false

Data Element					Occurs Length	Type	Description
							• Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other
				Withdrawn	0...1	Boolean	Item attribute set with Serial Number State and Item State indicating the item is withdrawn. ¹

¹false

Data Element					Occurs Length	Type	Description
							 One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other

Data Element					Occurs Length	Type	Description
				SampledArchival	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item was sampled for archival purposes. ❗ One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other

Data Element					Occurs Length	Type	Description
				SampledFederalInspection	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item was sampled for federal inspection. ❗ One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other

Data Element					Occurs Length	Type	Description
							• Other
							Item attribute set with Serial Number State and Item State indicating the item was sampled for marketing demonstration purposes. ❗ One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective
				SampledMarketingDemo	0...1 1/*	Boolean	

Data Element					Occurs Length	Type	Description
							• InappropriatelyStored • Returned • Other
				SampledSelectiveControl	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item was sampled for selective control. ❗ One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment

Data Element					Occurs Length	Type	Description
							• Defective • InappropriatelyStored • Returned • Other
				Spoilage	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item is spoiled (e.g. due to heat, oxygen, moisture, microorganisms). ⚠ One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl

Data Element					Occurs Length	Type	Description
							• Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other
				WithdrawnExperiment	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item is withdrawn from circulation of SSCC or SGTIN, piled or accumulated in the course of the experiment. ❗ One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy

Data Element					Occurs Length	Type	Description
							• SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other
				Defective	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item is defective. ❗ One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy

Data Element					Occurs Length	Type	Description
							• SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other
				InappropriatelyStored	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item was inappropriately stored. ❗ One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl • SampledFederalInspection

Data Element					Occurs Length	Type	Description
							• SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other
				Returned	0... 11/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item was returned. ⚠ One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn • SampledCustomsControl

Data Element					Occurs Length	Type	Description
							• SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other
				Other	0...1 1/*	Boolean	Item attribute set with Serial Number State and Item State indicating the item was destroyed for other reasons. ⚠ One, and only one, of the following reason code elements may be set to true: • Sampled • Damaged • Recalled • Expired • Misplaced • Dispensed • Disposed • Repackaged • SampledArchival • SampledByAuthorities • Stolen • Withdrawn

Data Element						Occurs Length	Type	Description
								• SampledCustomsControl • SampledFederalInspection • SampledClinicalStudy • SampledPharmaStudy • SampledMarketingDemo • SampledSelectiveControl • Spoilage • WithdrawnExperiment • Defective • InappropriatelyStored • Returned • Other
					ReasonCode	0...1 –	String	A code that indicates the reason for the change in serial number status.¹  This is an optional field. If not specified, defaults to STATUSUPDATE. See the ReasonCode enumeration list for valid values.
					EventDateTime	0...1 –	Date	The date and time of the event in XSD GMT date format (YYYY-MM-DDTHH:MM:SSZ). If omitted, the system will record the current date-time. ²
					Transactions	0...1 –	-	Required. The transaction identifiers associated with the destruction.
					Transaction	0...* 1/*	String	Required. The list of one or more transaction identifiers associated with the destruction.
					ItemID	0...1	String	Required. The transaction identifier associated with the destruction. ³

¹INCORRECTSTATUS or STATUSUPDATE²2015-06-01T17:10:16Z³100250

Data Element						Occurs Length	Type	Description
								⚠ For Turkey and China, provide the destruction order number.
					ItemType	0...1 1/*	String	Required. The transaction identifier type using the supported enumeration values (e.g. DESTRUCTION). ¹ See the TransactionId enumeration list for valid values.
					Date	0...1 1/*	String	Required. The date of the transaction in XML YYYY-MM-DD format. This value is used for regulatory reporting of the transaction date. ²
				ReasonDescription		0...1 1/*	String	Conditionally required for Turkey, where the description must be in Turkish and not exceed 100 characters. The reason for the destruction. ³
				DestructionMethod		0...1 1/*	String	Required. The method of product destruction. ⁴ See the DestructionMethod enumeration list for valid values.
				LongRunningRestSupport		- -	Boolean	Not used.
				ReportingPartyIdentifier		0...1 1/*	String	Required. The identifier of the business party that will be reporting the event to the government. ⁵
					@identifiertype	0...1 1/*	String	Required. The reporting business party identifier type. ⁶ See the IdentifierType enumeration list for valid values.
					@identifiervalue	0...1 1/*	String	The identifier value of the reporting business party. ⁷
				MarketCountryCode		0...1 2/3	String	The country, using the standard two-letter abbreviation specified in ISO 3166-1alpha-2:1997 country code. ⁸
				LocationType		0...1 1/*	String	The type of location where the event occurred. See the LocationId enumeration list for valid values.

¹DESTRUCTION²2015-06-01³Damaged goods in the warehouse.⁴INCINERATION⁵8888882028677⁶DEA⁷123456789⁸TR

Data Element					Occurs Length	Type	Description
				Location	0...1 1/*	String	Required. The site-level location identifier where the event occurred. This element defaults to the company level if no location is provided.¹  In most cases, this value is an SGLN, the format for which must be the numeric component only, with the urn prefix stripped (e.g. 8888882.02867.0 instead of urn:epc:id:sgln:8888882.02867.0 typically found in EPCIS events).

Example

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:urn="urn:tracelink:soap">
  <soapenv:Header/>
  <soapenv:Body>
    <urn:Destroy>
      <DestroyRequest>
        <DisaggregateFromParent>true</DisaggregateFromParent>
        <Items>
          <Item sn="88102321100002083327"/>
        </Items>
        <Sampled>false</Sampled>
        <Damaged>false</Damaged>
        <Recalled>false</Recalled>
        <Expired>false</Expired>
        <MarketReleased>false</MarketReleased>
        <Misplaced>true</Misplaced>
        <Dispensed>false</Dispensed>
        <Disposed>false</Disposed>
        <Repackaged>false</Repackaged>
        <SampledByAuthorities>false</SampledByAuthorities>
        <Stolen>false</Stolen>
        <Withdrawn>false</Withdrawn>
        <SampledArchival>false</SampledArchival>
        <SampledCustomsControl>false</SampledCustomsControl>
        <SampledFederalInspection>false</SampledFederalInspection>
      </DestroyRequest>
    </urn:Destroy>
  </soapenv:Body>
</soapenv:Envelope>
```

¹8888882.02867.0

```

    <SampledClinicalStudy>false</SampledClinicalStudy>
    <SampledPharmaStudy>false</SampledPharmaStudy>
    <SampledMarketingDemo>false</SampledMarketingDemo>
    <SampledSelectiveControl>false</SampledSelectiveControl>
    <Spoilage>false</Spoilage>
    <WithdrawnExperiment>false</WithdrawnExperiment>
    <Defective>false</Defective>
    <InappropriatelyStored>false</InappropriatelyStored>
    <Returned>false</Returned>
    <Other>false</Other>
    <ReasonCode>STATUSUPDATE</ReasonCode>
    <EventDateTime>2015-07-28T22:15:00Z</EventDateTime>
    <Transactions>
      <Transaction>
        <ItemID>10025241</ItemID>
        <ItemType>DESTRUCTION</ItemType>
        <Date>2015-07-28</Date>
      </Transaction>
    </Transactions>
    <ReasonDescription>Unable to locate case in the warehouse</ReasonDescription>
    <MarketCountryCode>CN</MarketCountryCode>
    <LocationType>SGLN<LocationType>
      <Location>8888882.02867.0</Location>
    </DestroyRequest>
  </urn:Destroy>
</soapenv:Body>
</soapenv:Envelope>

```

Errors

Exception Code	Exception Message
BADAGGREGATESTATE	Operation could not be performed because serial number <serial number> and serial number <parent serial number> are currently in different states, or the operation would result in them having different states. Parent and child serial numbers are not permitted to be in different states.
CANNOTBEAGGREGATED	Operation could not be performed because serial number <serial number> is aggregated to container <parent serial number>.
CROSSLOCATIONS	Operation cannot be performed against serial numbers in multiple locations.

Exception Code	Exception Message
EVENTTIMEAFTERNOW	Event time stamp must not be in the future.
EVENTTIMEBEFORELASTEVENT	Event time stamp is earlier than the last event for serial number <serial number>.
MLTUPLE_ATTRIBUTES_DECOMMISSION	The serial number(s) could not be decommissioned. The Decommission API request may only specify a single reason code.
NEVERCOMMISSIONED	Serial number <serial number> was never commissioned.
NOSOMSERVICE	No Serialized Operations Manager service found.
NOTCOMMISSIONED	Serial number <serial number> is not commissioned.
NOTCOMMISSIONEDLOCATION	Serial Number <serial number> was not commissioned at this location.
NOTVALIDLOCATION	Location <location identifier> was not valid for serial number <serial number>.
SNNOTFOUND	Serial number <serial number> does not exist.
SOMDUPLICATESNS	The following serial numbers were listed more than once: <serial number>.
VALIDATION	Destruction Method is required for products sold in Russia.
	Item Attribute is required for products sold in Russia.
	Location is required for products sold in Russia.
	Reporting Party is required when Transactions are included in the request and products are sold in Russia.
	The parameter <field name> is missing or had an invalid value.
	Transaction Identifier for 'Removal from Circulation' is required for products sold in Russia.

Destroy Response

Guidelines

The following data is included in the message response:

Data Element							Occurs Length	Type	Description
S:Envelope							1...1 -	-	Required. SOAP Envelope root element.
S:Body							1...1 -	-	Required. SOAP Message Body.
ns2:DestroyResponse							1...1 -	-	Required. Destroy response message.
TLResponse							0...1 -	-	Required. TraceLink response.
Success							0...1 -	-	Required. Indicates if Destroy request processed successfully. ¹
ExceptionReturn							0...1 -	-	Conditionally required if Success = <code>false</code> , otherwise omitted. Contains error information.
CallException							1...* -	-	Required. Error details including exception code and error message, if available.
ExceptionCode							0...1 0/*	String	Required. Error code.
ExceptionMessage							0...1 0/*	String	Conditionally required if exception message exists. Message that further describes error condition.

Example

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:DestroyResponse xmlns:ns2="urn:tracelink:soap" xmlns:ns3="http://tracelink.com/som">
      <TLResponse>
        <Success>true</Success>
      </TLResponse>
    </ns2:DestroyResponse>
  </S:Body>
</S:Envelope>
```

¹true

Enumerations

Aggregation

AggregationInspection

Choose from one of the following enumerators:

Data Code	Description
VERIFIED	The aggregation hierarchy of the delivery was scanned down to the each level.
UNVERIFIED	Only the top-level (e.g. pallet) aggregation hierarchy of the delivery was scanned, and the remaining aggregation levels are unknown to TraceLink.
IMPLIED	The entire aggregation hierarchy for the delivery is known to TraceLink, but only the top level (e.g. pallet) was scanned. The lower aggregation levels were provided previously (e.g. in an aggregation or shipment).

DeliveryInspection

Choose from one of the following enumerators:

Data Code	Description
NOTINSPECTED	The contents of the delivery were not inspected.
PASSED	The contents of the delivery were inspected and match the associated documentation.
FAILED	The contents of the delivery were inspected and do not match the associated documentation.

PackagingLevel

Choose from one of the enumerators below:

The following values are only applicable for elements in the EPCIS Header Vocabulary Product Master Data group:

Data Code	Description
BE	Innerpack or bundle.
CS	Case or shipper.
PX	Pallet
UN	Saleable item unit.

The following values are only applicable for the elements using the TraceLink namespace (i.e. "tl:");

Data Code	Description
CA	Case or shipper.
EA	Saleable item unit.
PK	Innerpack or bundle.
PL	Pallet

PackedStatus

Choose from one of the enumerators below:

Data Code	Description	Encoding Description
FULL	Full, homogeneous container.	packed-status-FULL
MIXED	Full, mixed container.	packed-status-MIXED
PARTIAL	Partial, homogeneous container.	packed-status-PARTIAL
PARTIAL_MIXED	Partial, mixed container.	packed-status-PARTIAL_MIXED

PackLevel

Choose from one of the enumerators below:

Data Code	Description
CA	Case/Shipper
EA	Each
PK	Innerpack/Bundle
PL	Pallet

Company and location identifiers

BusinessAndLocationId

Choose from one of the enumerators below:

Data Code	Description
AM_TIN	Armenia Taxpayer Identification Number.
BR_PROF_REG	Brazil Professional Registration Number.
BY_TIN	Belarus Taxpayer Identification Number.
BR_CNES	Brazil National Registry of Health Facilities Number.
CN_FOREIGN_MAH	China Foreign MAH ID.
CN_FOREIGN_MFR	China Foreign Manufacturer ID.
BR_CNPJ	Brazil Tax ID.
CN_USCID	China Unified Social Credit Identifier.
COMPANYID	Company Id in Internal ERP System.
COMPANYSITEID	Internal Location or Site Id in Internal ERP System.
BR_CPF	Brazil Individual Tax Payer ID.
CUIT	Argentina Tax ID.
DEA	Drug Enforcement Agency Number.
DE_IFA_REG_NUM	Informationsstelle für Arzneispezialitäten (IFA) Registration Number.
DUNS	Dun & Bradstreet Number.
DUNS4	Dun & Bradstreet Number + 4-digit Location Code.  Only valid for these messages: Receive Event

Data Code	Description
	Sales Shipment Evenr
DUNS_PLUS_FOUR	Dun & Bradstreet Number + 4-digit Location Code.  Only valid for these messages: - End of Batch Event - Product Release Event - Shipment Event
EIN	Employee Identification Number.
GCP	GS1 Global Company Prefix (6- to 12-digit number).
GLN	Global Location Number.
HIN	Health Industry Number partner address ID.
IN_COMPANY_ID	India Company Identifier (alphanumeric).
IN_GSTN	India Goods and Services Tax ID.
IN_IEC	India Importer Exporter Code (10-digit number).
IN_LOCATION_ID	India company location identifier (alphanumeric).
IN_MFR	India Manufacturer Code.
IN_MRCH	India Merchant Exporter Code.
IN_PAN	India Permanent Account Number (10-character alphanumeric, with format AAPL1234C, with the first five characters are letters, next four numerals, last character is a check-digit character letter).
IN_TIN	India Taxpayer Identification Number (11-digit number).
KG_TIN	Kyrgyzstan Taxpayer Identification Number.
KR_BUS_REG_NUMBER	Korea Business Registration Number (10 digits with format 000-00-0000).
KR_PROVIDER_CODE	Korea Provider Code (8-digit number).
KZ_BIN	Kazakhstan Business Identification Number.
RU_ACCOUNT_NUMBER	Russia Account Number.

Data Code	Description
RU_INN_FOREIGN_ENTITY	Russia Foreign Business Taxpayer Identification Number.  Only one of the following values may be used per message: - RU_INN_FOREIGN_ENTITY - RU_INN_INDIV - RU_INN_LOCAL_ENTITY
RU_INN_INDIV	Russia Individual Taxpayer Identification Number.  Only one of the following values may be used per message: - RU_INN_FOREIGN_ENTITY - RU_INN_INDIV - RU_INN_LOCAL_ENTITY
RU_INN_KPP_TAX_CODE	Russia KPP (supplementary tax registration ID numbers) Tax Identification Code.
RU_INN_LOCAL_ENTITY	Russia Local Business Taxpayer Identification Number.  Only one of the following values may be used per message: - RU_INN_FOREIGN_ENTITY - RU_INN_INDIV - RU_INN_LOCAL_ENTITY
SGLN	Serialized Global Location Number (for a sub-location) expressed as: [CompanyPrefix].[LocationRef].0. First two segments contain only digits.
TRACELINK_ID	TraceLink Identification Number.
UZ_TIN	Uzbekistan Taxpayer Identification Number (9-digit number).

BusinessLookupId

Choose from one of the following enumerators:

Data Code	Description
BR_PROF_REG	Brazil Professional Registration Number.
BR_CNES	Brazil Individual Taxpayer Registration Number (11 digits with format 000.000.000-00).
BR_CNPJ	Brazil National Registry of Health Facilities Number.
COMPANYID	Company Id in Internal ERP System.
COMPANYSITEID	Internal location or site Id in the internal ERP system.
BR_CPF	Brazil Tax / Legal Entity ID (14 digits with format 00.000.000/0001-00).
DUNS	Dunn and Bradstreet Number (9-digit number).
GCP	GS1 Global Company Prefix.
GLN	Global Location Number.
IN_COMPANY_ID	India Company Identifier (alphanumeric).
IN_LOCATION_ID	India company location identifier (alphanumeric).
KR_BUS_REG_NUMBER	Korea Business Registration Number (10 digits with format 000-00-0000).
KR_PROVIDER_CODE	Korea Provider Code (8-digit number).
UZ_TIN	Uzbekistan Taxpayer Identification Number (9-digit number).

IdentifierType

Choose from one of the enumerators below:

Data Code	Description
BR_CNES	Brazil National Registry of Health Facilities Number.
BR_CNPJ	Brazil Tax / Legal Entity ID (14 digits, with format 00.000.000/0001-00).
BR_CPF	Brazil Individual Taxpayer Registration Number (11 digits with format 000.000.000-00).
BR_PROF_REG	Brazil Professional Registration Number.
CN_NUMBER	China business identifier registered with the CFDA.
COMPANYID	Internal company identifier (alphanumeric).
COMPANYSITEID	Internal location / plant / site identifier (alphanumeric).
CUIT	Argentina Tax ID (11-digit with format 00-00000000-0).
DEA	US Drug Enforcement Agency Number (9-digit number).
DISTRIBUTOR	Business is a distributor of pharmaceuticals.
DUNS	Dunn and Bradstreet Number (9-digit number).
DUNS4	Dunn and Bradstreet Number with 4-digit extension (13-digit number).
FINANCER	Business is a financier / payer.
GCP	GS1 Global Company Prefix (6- to 12-digit number).
GLN	Global Location Number (13-digit number).
HEALTHCARE	Business is a healthcare facility.
HIN	Health Industry Number assigned by HIBCC (9-character alphanumeric).
IN_COMPANY_ID	India Company Identifier (alphanumeric).
IN_IEC	India Importer Exporter Code (10-digit number).
IN_LOCATION_ID	India company location identifier (alphanumeric).
IN_PAN	India Permanent Account Number (10-character alphanumeric, with format AAPL1234C, with the first five characters are letters, next four numerals, last check-digit character letter).

Data Code	Description
IN_TIN	India Taxpayer Identification Number (11-digit number).
KR_BUS_REG_NUMBER	Korea Business Registration Number (10-digit number, with format 000-00-0000).
KR_PROVIDER_CODE	Korea Provider Code (8-digit number).
LOGISTICS	Business is a third party logistics provider.
MANUFACTURER	Business is a manufacturer of pharmaceuticals.
PHARMACY	Business is a pharmacy.
RU_ACCOUNT_NUMBER	Russia Account Number.
RU_INN_FOREIGN_ENTITY	Russia Foreign Business Taxpayer Identification.
RU_INN_INDIV	Russia Individual Taxpayer Identification Number.
RU_INN_KPP_TAX_CODE	Russia KPP (supplementary tax registration ID numbers) Tax Identification Code.
RU_INN_LOCAL_ENTITY	Russia Local Business Taxpayer Identification Number.
SGLN	Serialized Global Location Number (for a sub-location) expressed as: [CompanyPrefix].[LocationRef].0. First two segments contain only digits.
VAWD	Verified-Accredited Wholesale Distributors - Not used.
WHOLESALE	Business is a wholesaler of pharmaceuticals.

LocationIdType

Choose from one of the enumerators below:

Data Code	Description
CNPJ	Brazil Tax ID for Legal Entities - Cadastro Nacional da Pessoa Jurídica.
COMPANYSITEID	Internal Location or Site Id in Internal ERP System.
CUIT	Argentina Tax ID.
DEA	Drug Enforcement Agency Number.
DUNS	Dun & Bradstreet Number.
DUNS4	Dun & Bradstreet Number + 4-digit location code.

Data Code	Description
GCP	GS1 Global Company Prefix (6- to 12-digit number).
GLN	Global Location Number.
HIN	Health Industry Number partner address ID.
SGLN	Serialized Global Location Number (for a sub-location) expressed as: [CompanyPrefix].[LocationRef].0. First 2 segments contain only digits.

LocationLookupId

Choose from one of the enumerators below:

Data Code	Description
BR_PROF_REG	Brazil Professional Registration Number.
CNES	Brazil National Registry of Health Facilities Number.
CNPJ	Brazil Tax / Legal Entity ID (14 digits with format 00.000.000/0001-00).
COMPANYID	Internal company identifier (alphanumeric).  Only valid for the following messages: - Receipt (XML) - Sales Shipment (XML) - Take product Sample (EPCIS v1.2)
COMPANYSITEID	Internal Location or Site Id in Internal ERP System.
CPF	Brazil Individual Tax Payer ID.
CUIT	Argentina Tax ID (11 digits with format 00-00000000-0).  Only valid for the following messages: - Receipt (XML) - Sales Shipment (XML) - Take product Sample (EPCIS v1.2)

Data Code	Description
DEA	Drug Enforcement Agency Number.
DUNS4	Dun & Bradstreet Number + 4-digit location code.
GCP	GS1 Global Company Prefix (6- to 12-digit number).
GLN	Global Location Number.
HIN	Health Industry Number partner address ID.
IN_COMPANY_ID	India Company Identifier (alphanumeric).  Only valid for the following messages: - Receipt (XML) - Sales Shipment (XML) - Take product Sample (EPCIS v1.2)
IN_LOCATION_ID	India company location identifier (alphanumeric).
KR_BUS_REG_NUMBER	Korea Business Registration Number (10 digits with format 000-00-0000).
KR_PROVIDER_CODE	Korea Provider Code (8-digit number).
SGLN	Serialized Global Location Number (for a sub-location) expressed as: [CompanyPrefix].[LocationRef].0. First 2 segments contain only digits.

MDBusinessPartyTypeAttributes

Choose from one of the enumerators below:

Data Code	Description
http://epcis.gs1br.org/hc/cnes/loc/	Brazil National Registry of Health Facilities Number.
http://epcis.gs1br.org/hc/cpf/loc/	Brazil Individual Taxpayer ID Number - Cadastro de Pessoa Fisca.
http://epcis.gs1br.org/hc/cnpj/loc/	Brazil Tax ID for Legal Entities - Cadastro Nacional da Pessoa Jurídica.
http://epcis.gs1br.org/hc/professionalReg/loc/	Brazil Professional Registration Number.
http://epcis.gs1us.org/hc/de_ifa_reg_num/loc/	Informationsstelle für Arzneispezialitäten (IFA) Registration Number.

Data Code	Description
http://epcis.gs1us.org/hc/dea/loc/	Drug Enforcement Agency Number.
http://epcis.gs1us.org/hc/duns/loc/	Dun & Bradstreet Number.
http://epcis.gs1us.org/hc/duns4/loc/	Dun & Bradstreet Number + 4-digit Location Code.  Only valid for the following messages: • Receive • Receive Event • Sales Shipment • Shipment Event • Take Product Sample • Take Product Sample Event
http://epcis.gs1us.org/hc/duns_plus_four/loc/	Dun & Bradstreet Number + 4-digit Location Code.  Only valid for the following messages: • End of Batch • End of Batch Event • Product Release • Product Release Event • Shipment • Shipment Event • Take Product Sample • Take Product Sample Event
http://epcis.gs1us.org/hc/hin/loc/	Health Industry Number partner address ID.
http://epcis.tracelink.com/hc/cuit/loc/	Argentina Tax ID.
http://epcis.tracelink.com/hc/companyId/loc/	Company Id in the Internal ERP System.
http://epcis.tracelink.com/hc/companySiteId/loc/	Internal Location or Site Id in the Internal ERP System.
http://epcis.tracelink.com/hc/gcp/loc/	GS1 Global Company Prefix (6- to 12-digit number).

Data Code	Description
http://epcis.tracelink.com/hc/in_company_id/loc/	India Company Identifier (alphanumeric).
http://epcis.tracelink.com/hc/in_location_id/loc/	India Company Location Identifier (alphanumeric).
http://epcis.tracelink.com/hc/kr_bus_reg_number/loc/	Korea Business Registration Number (10-digit number, with format 000-00-00000).
http://epcis.tracelink.com/hc/kr_provider_code/loc/	Korea Provider Code (8-digit number).
http://epcis.tracelink.com/hc/ru_inn_local_entity/loc/	Russia Local Entity Party Code Type.
http://epcis.tracelink.com/hc/ru_inn_foreign_entity/loc/	Russia Foreign Entity Party Code Type.
http://epcis.tracelink.com/hc/ru_inn_indiv/loc/	Russia Individual Party Code Type.
http://epcis.tracelink.com/hc/ru_inn_kpp_tax_code/loc	Russia KPP (supplementary tax registration ID numbers) Tax Identification Code.
http://epcis.tracelink.com/hc/ru_account_number/loc	Russia Account Number.
urn:epc:id:sgln:	Serialized Global Location Number (for a sub-location) expressed as: [CompanyPrefix].[LocationRef].0. The first 2 segments contain only digits. GLN is not supported with a urn prefix.

MDPartyTypeAttributes

Choose from one of the following enumerators:

Data Code	Description
http://epcis.gs1br.org/hc/cnes/loc/	Brazil National Registry of Health Facilities Number.
http://epcis.gs1br.org/hc/cnpj/loc/	Brazil Tax ID for Legal Entities - Cadastro Nacional da Pessoa Jurídica.
http://epcis.gs1br.org/hc/cpf/loc/	Brazil Individual Taxpayer ID Number - Cadastro de Pessoa Física.
http://epcis.gs1us.org/hc/de_ifa_reg_num/loc/	Informationsstelle für Arzneispezialitäten (IFA) Registration Number.
http://epcis.gs1us.org/hc/dea/loc/	Drug Enforcement Agency Number.
http://epcis.gs1us.org/hc/duns/loc/	Dun & Bradstreet Number.
http://epcis.gs1us.org/hc/duns4/loc/	Dun & Bradstreet Number + 4-digit Location Code.  Only valid for the following messages: Receive Event

Data Code	Description
	Sales Shipment Event
http://epcis.gs1us.org/hc/duns_plus_four/loc/	Dun & Bradstreet Number + 4-digit Location Code. ⚠ Only valid for the following messages: - End of Batch Event - Product Release Event - Shipment Event
http://epcis.gs1us.org/hc/hin/loc/	Health Industry Number partner address ID.
http://epcis.gs1br.org/hc/professionalReg/loc/	Brazil Professional Registration Number.
http://epcis.tracelink.com/hc/am_tin/loc/	Armenia Taxpayer Identification Number.
http://epcis.tracelink.com/hc/by_tin/loc/	Belarus Taxpayer Identification Number.
http://epcis.tracelink.com/hc/cn_foreign_mah/loc/	China Foreign MAH ID.
http://epcis.tracelink.com/hc/cn_foreign_mfr/loc/	China Foreign Manufacturer ID.
http://epcis.tracelink.com/hc/cn_uscid/loc/	China Unified Social Credit Identifier.
http://epcis.tracelink.com/hc/companyId/loc/	Company Id in the Internal ERP System.
http://epcis.tracelink.com/hc/companySiteId/loc/	Internal Location or Site Id in the Internal ERP System.
http://epcis.tracelink.com/hc/cuit/loc/	Argentina Tax ID.
http://epcis.tracelink.com/hc/gcp/loc/	GS1 Global Company Prefix (6- to 12-digit number).
http://epcis.tracelink.com/hc/in_company_id/loc/	India Company Identifier (alphanumeric).
http://epcis.tracelink.com/hc/in_location_id/loc/	India Company Location Identifier (alphanumeric).
http://epcis.tracelink.com/hc/in_gstn/loc/	India Goods and Services Tax ID.
http://epcis.tracelink.com/hc/in_mfr/loc/	India Manufacturer Code.
http://epcis.tracelink.com/hc/in_mrch/loc/	India Merchant Exporter Code.
http://epcis.tracelink.com/hc/kg_tin/loc/	Kyrgyzstan Taxpayer Identification Number.
http://epcis.tracelink.com/hc/kr_bus_reg_number/loc/	Korea Business Registration Number (10-digit number, with format 000-00-0000).

Data Code	Description
http://epcis.tracelink.com/hc/kr_provider_code/loc/	Korea Provider Code (8-digit number).
http://epcis.tracelink.com/hc/kz_bin/loc/	Kazakhstan Business Identification Number.
http://epcis.tracelink.com/hc/ru_account_number/loc	Russia Account Number.
http://epcis.tracelink.com/hc/ru_inn_foreign_entity/loc/	Russia Foreign Entity Party Code Type.
http://epcis.tracelink.com/hc/ru_inn_indiv/loc/	Russia Individual Party Code Type.
http://epcis.tracelink.com/hc/ru_inn_kpp_tax_code/loc	Russia KPP (supplementary tax registration ID numbers) Tax Identification Code.
http://epcis.tracelink.com/hc/ru_inn_local_entity/loc/	Russia Local Entity Party Code Type.
urn:epc:id:sgln:	Serialized Global Location Number (for a sub-location) expressed as: [CompanyPrefix].[LocationRef].0. The first two segments contain only digits. GLN is not supported with a urn prefix.
http://epcis.tracelink.com/hc/uz_tin/loc/	Uzbekistan Tax Identification Number (9-digit number).

MDPartyTypeEnums

Choose from the following enumerators:

Data Code	Description
BR_PROF_REG	Brazil Professional Registration Number.
BR_CNES	Brazil National Registry of Health Facilities Number.
BR_CNPJ	Brazil Tax ID for Legal Entities - Cadastro Nacional da Pessoa Jurídica.
COMPANYID	Company Id in Internal ERP System.
COMPANYSITEID	Internal Location or Site Id in the Internal ERP System.
BR_CPF	Brazil Individual Taxpayer ID Number - Cadastro de Pessoa Fisca.
CUIT	Argentina Tax ID.
DEA	Drug Enforcement Agency Number.
DE_IFA_REG_NUM	Informationsstelle für Arzneispezialitäten (IFA) Registration Number.
DUNS	Dun & Bradstreet Number.

Data Code	Description
DUNS_PLUS_FOUR	Dun & Bradstreet Number + 4-digit location code.
EIN	Employer identification number.
EAN13	International Article Number 13-digit code.
GCP	GS1 Global Company Prefix (6- to 12-digit number).
GLN	Global Location Number.
HIN	Health Industry Number partner address ID.
IN_COMPANY_ID	India Company Identifier (alphanumeric).
IN_LOCATION_ID	India company location identifier (alphanumeric).
KR_BUS_REG_NUMBER	Korea Business Registration Number (10-digit number with format 000-00-0000).
KR_PROVIDER_CODE	Korea Provider Code (8-digit number).
SGLN	Serialized Global Location Number (for a sub-location) expressed as: [CompanyPrefix].[LocationRef].0. First two segments contain only digits.

MessagePartyIdType

Choose from one of the following enumerators:

Data Code	Description
BR_PROF_REG	Brazil Professional Registration Number.
BR_CNES	Brazil National Registry of Health Facilities Number.
BR_CNPJ	Brazil Tax ID for Legal Entities - Cadastro Nacional da Pessoa Juridica.
COMPANYID	Company Id in Internal ERP System.
COMPANYSITEID	Internal Location or Site Id in Internal ERP System.
BR_CPF	Brazil Individual Taxpayer ID Number - Cadastro de Pessoa Fisca.
CUIT	Argentina Tax ID.
DEA	Drug Enforcement Agency Number.
DUNS	Dun & Bradstreet Number.

Data Code	Description
DUNS4	Dun & Bradstreet Number + 4-digit location code.
GCP	GS1 Global Company Prefix (6- to 12-digit number).
GLN	Global Location Number.
HIN	Health Industry Number partner address ID.
IN_IEC	India Importer Exporter Code (10-digit number).
IN_PAN	India Permanent Account Number (10-character alphanumeric, with format AAPL1234C, with the first five characters are letters, next four numerals, last character is a check- digit character letter).
IN_TIN	India Taxpayer Identification Number (11-digit number).
KR_BUS_REG_NUMBER	Korea Business Registration Number (10 digits with format 000-00-0000).
KR_PROVIDER_CODE	Korea Provider Code (8-digit number).
SGLN	Serialized Global Location Number (for a sub-location) expressed as: [CompanyPrefix].[LocationRef].0. The first two segments contain only digits. GLN is not supported with a urn prefix.
UZ_TIN	Taxpayer Identification Number (9-digit number).

Company and information

BusinessClassification

Choose from one of the enumerators below:

Data Code	Description
CARRYING_FORWARDING_AGENT	Carrying Forwarding Agent.
CHEMIST	Chemist
DISTRIBUTOR	Business is a distributor of pharmaceuticals.
EXPORTER	Exporter
FINANCER	Business is a financier/payer.
HEALTHCARE	Business is a healthcare facility.
IMPORTER	Importer
LOGISTICS	Business is a third party logistics provider.
MANUFACTURER	Business is a manufacturer of pharmaceuticals.
PACKAGER	Packager
PHARMACY	Business is a pharmacy.
RETURNSPROCESSOR	Returns Processor.
STOCKIST	Stockist
WHOLESALE	Business is a wholesaler of pharmaceuticals.

MDAttributes

Choose from one of the enumerators below:

Data Code	Description
http://epcis.tracelink.com/mda/additionalPartyIdentificationTypeCode	Additional party identifier type.
http://epcis.tracelink.com/mda/additionalPartyIdentificationValue	Additional party identifier.
http://epcis.tracelink.com/mda/additionalTradeItemIdentificationTypeCode	Additional trade item identification type code TraceLink namespace.
http://epcis.tracelink.com/mda/AddressObjectGUID	The global identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum 36 characters, using the digits 0-9 and letters A-F.  Mandatory for Russia.
http://epcis.tracelink.com/mda/corporateFax	Corporate fax number.
http://epcis.tracelink.com/mda/district	District code.
http://epcis.tracelink.com/mda/HouseGUID	The global House identifier assigned by the Russian Federation Information Address System (FIAS).  Maximum 36 characters, using the digits 0-9 and letters A-F.
http://epcis.tracelink.com/mda/houseNumber	Building, house, or unit number of the company. House numbers are usually only separated from the street address in China.
http://epcis.tracelink.com/mda/packageTypeCode	Packaging level type code.
http://epcis.tracelink.com/mda/partyRoleCode	Business classification for party role code.
http://epcis.tracelink.com/mda/premisesCode	Identifier representing a physical area within the company location (e.g. a location's second floor).
http://epcis.tracelink.com/mda/taxRegistrationCode	Tax registration code.
http://epcis.tracelink.com/mda/township	Name of the township in which the company is located.
http://epcis.tracelink.com/mda/village	Name of the village in which the company is located.
urn:epcglobal:cbv:mda#additionalTradeItemIdentification	Additional trade item identification value.
urn:epcglobal:cbv:mda#additionalTradeItemIdentificationTypeCode	Additional trade item identification type code GS1 namespace.
urn:epcglobal:cbv:mda#city	Text specifying the name of the city.
urn:epcglobal:cbv:mda#countryCode	The ISO 3166-1 alpha-2 code specifying the country for the address.
urn:epcglobal:cbv:mda#name	The name of the location or party expressed in text.

Data Code	Description
urn:epcglobal:cbv:mda#postalCode	Text specifying the postal code for an address.
urn:epcglobal:cbv:mda#state	One of the constituent units of a nation having a federal government.
urn:epcglobal:cbv:mda#streetAddressOne	The first free form line of an address. This first part is printed on paper as the first line below the name, e.g. the name of the street and the number in the street or the name of a building.
urn:epcglobal:cbv:mda#streetAddressTwo	The second free form line of an address. This second part is printed on paper as the second line below the name. The second free form line complements the first free form line to locate the party or location.
urn:epcglobal:cbv:mda#streetAddressThree	The third free form line of an address. This third part is printed on paper as the third line below the name. The third free form line complements the first and second free form lines where necessary.

Country clearance

CirculationReasonCode

Choose from the following enumerators:

Data Code	Description
COUNTERFEIT	The product is a fraudulent imitation of the original.
DAMAGED	The product is damaged.
EXCLUDED	The product is not registered.
EXPIRED	The product is expired.
FALSIFIED	The document for the product is intentionally inaccurate.
LOSTCONSUMERPROPERTIES	The product has lost its potency (e.g. due to exposure to light or being stored outside of the appropriate temperature range).
RECALLED	The product is recalled.
SUBSTANDARD	The product does not meet physical or quality standards.
UNFITFORCONSUMPTION	The product cannot be safely consumed.
WITHDRAWN	The Manufacturer or MAH has withdrawn the product from the market.

ClearanceTransactionId

Choose from one of the enumerators below:

Data Code	Description
CERTIFICATECONFORMITY	Certificate of conformity.
DECLARATIONCONFORMITY	Declaration of conformity.

ClearanceType

Choose from one of the enumerators below:

Data Code	Description
CUSTOMS	Customs declaration of goods that are being transferred between countries.
TRADE	Declaration of goods that are being transferred between countries that have a cooperative trade agreement.

Event actions

ActionType

Choose from one of the enumerators below:

Data Code	Description
ADD	The packing (aggregating) of child EPC(s) to a parent EPC. "Indicates the first event in a product's life cycle for an Object Event" according to EPCglobal standards.
DELETE	The unpacking/removing (disaggregating) of child EPC(s) from a parent EPC. "Indicates the last event in a product's life cycle for an Object Event" according to EPCglobal standards.
OBSERVE	Observing the product through midlife while in the aggregation. "Indicates an event between beginning of life and end of life for an Object Event" according to EPCglobal standards.

ISO codes

ISOCountryCode

Choose from one of the enumerators below:

Data Code	Description
AD	ANDORRA
AE	UNITED ARAB EMIRATES
AF	AFGHANISTAN
AG	ANTIGUA AND BARBUDA
AI	ANGUILLA
AL	ALBANIA
AM	ARMENIA
AN	NETHERLANDS ANTILLES
AO	ANGOLA
AQ	ANTARCTICA
AR	ARGENTINA
AS	AMERICAN SAMOA
AT	AUSTRIA
AU	AUSTRALIA
AW	ARUBA
AX	ÅLAND ISLANDS
AZ	AZERBAIJAN
BA	BOSNIA AND HERZEGOVINA

Data Code	Description
BB	BARBADOS
BD	BANGLADESH
BE	BELGIUM
BF	BURKINA FASO
BG	BULGARIA
BH	BAHRAIN
BI	BURUNDI
BJ	BENIN
BL	SAINT BARTHÉLEMY
BM	BERMUDA
BN	BRUNEI DARUSSALAM
BO	BOLIVIA, PLURINATIONAL STATE OF
BR	BRAZIL
BS	BAHAMAS
BT	BHUTAN
BV	BOUVET ISLAND
BW	BOTSWANA
BY	BELARUS
BZ	BELIZE
CA	CANADA
CC	COCOS (KEELING) ISLANDS
CD	CONGO, THE DEMOCRATIC REPUBLIC OF THE
CF	CENTRAL AFRICAN REPUBLIC
CG	CONGO
CH	SWITZERLAND

Data Code	Description
CI	CÔTE D'IVOIRE
CK	COOK ISLANDS
CL	CHILE
CM	CAMEROON
CN	CHINA
CO	COLOMBIA
CR	COSTA RICA
CU	CUBA
CV	CAPE VERDE
CX	CHRISTMAS ISLAND
CY	CYPRUS
CZ	CZECH REPUBLIC
DE	GERMANY
DJ	DJIBOUTI
DK	DENMARK
DM	DOMINICA
DO	DOMINICAN REPUBLIC
DZ	ALGERIA
EC	ECUADOR
EE	ESTONIA
EG	EGYPT
EH	WESTERN SAHARA
ER	ERITREA
ES	SPAIN
ET	ETHIOPIA

Data Code	Description
FI	FINLAND
FJ	FIJI
FK	FALKLAND ISLANDS (MALVINAS)
FM	MICRONESIA, FEDERATED STATES OF
FO	FAROE ISLANDS
FR	FRANCE
GA	GABON
GB	UNITED KINGDOM
GD	GRENADA
GE	GEORGIA
GF	FRENCH GUIANA
GG	GUERNSEY
GH	GHANA
GI	GIBRALTAR
GL	GREENLAND
GM	GAMBIA
GN	GUINEA
GP	GUADELOUPE
GQ	EQUATORIAL GUINEA
GR	GREECE
GS	SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS
GT	GUATEMALA
GU	GUAM
GW	GUINEA-BISSAU
GY	GUYANA

Data Code	Description
HK	HONG KONG
HM	HEARD ISLAND AND MCDONALD ISLANDS
HN	HONDURAS
HR	CROATIA
HT	HAITI
HU	HUNGARY
ID	INDONESIA
IE	IRELAND
IL	ISRAEL
IM	ISLE OF MAN
IN	INDIA
IO	BRITISH INDIAN OCEAN TERRITORY
IQ	IRAQ
IR	IRAN, ISLAMIC REPUBLIC OF
IS	ICELAND
IT	ITALY
JE	JERSEY
JM	JAMAICA
JO	JORDAN
JP	JAPAN
KE	KENYA
KG	KYRGYZSTAN
KH	CAMBODIA
KI	KIRIBATI
KM	COMOROS

Data Code	Description
KN	SAINT KITTS AND NEVIS
KP	KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF
KR	KOREA, REPUBLIC OF
KW	KUWAIT
KY	CAYMAN ISLANDS
KZ	KAZAKHSTAN
LA	LAO PEOPLE'S DEMOCRATIC REPUBLIC
LB	LEBANON
LC	SAINT LUCIA
LI	LIECHTENSTEIN
LK	SRI LANKA
LR	LIBERIA
LS	LESOTHO
LT	LITHUANIA
LU	LUXEMBOURG
LV	LATVIA
LY	LIBYAN ARAB JAMAHIRIYA
MA	MOROCCO
MC	MONACO
MD	MOLDOVA, REPUBLIC OF
ME	MONTENEGRO
MF	SAINT MARTIN
MG	MADAGASCAR
MH	MARSHALL ISLANDS
MK	MACEDONIA, THE FORMER YUGOSLAV REPUBLIC OF

Data Code	Description
ML	MALI
MM	MYANMAR
MN	MONGOLIA
MO	MACAO
MP	NORTHERN MARIANA ISLANDS
MQ	MARTINIQUE
MR	MAURITANIA
MS	MONTSERRAT
MT	MALTA
MU	MAURITIUS
MV	MALDIVES
MW	MALAWI
MX	MEXICO
MY	MALAYSIA
MZ	MOZAMBIQUE
NA	NAMIBIA
NC	NEW CALEDONIA
NE	NIGER
NF	NORFOLK ISLAND
NG	NIGERIA
NI	NICARAGUA
NL	NETHERLANDS
NO	NORWAY
NP	NEPAL
NR	NAURU

Data Code	Description
NU	NIUE
NZ	NEW ZEALAND
OM	OMAN
PA	PANAMA
PE	PERU
PF	FRENCH POLYNESIA
PG	PAPUA NEW GUINEA
PH	PHILIPPINES
PK	PAKISTAN
PL	POLAND
PM	SAINT PIERRE AND MIQUELON
PN	PITCAIRN
PR	PUERTO RICO
PS	PALESTINIAN TERRITORY, OCCUPIED
PT	PORTUGAL
PW	PALAU
PY	PARAGUAY
QA	QATAR
RE	RÉUNION
RO	ROMANIA
RS	SERBIA
RU	RUSSIAN FEDERATION
RW	RWANDA
SA	SAUDI ARABIA
SB	SOLOMON ISLANDS

Data Code	Description
SC	SEYCHELLES
SD	SUDAN
SE	SWEDEN
SG	SINGAPORE
SH	SAINT HELENA, ASCENSION AND TRISTAN DA CUNHA
SI	SLOVENIA
SJ	SVALBARD AND JAN MAYEN
SK	SLOVAKIA
SL	SIERRA LEONE
SM	SAN MARINO
SN	SENEGAL
SO	SOMALIA
SR	SURINAME
ST	SAO TOME AND PRINCIPE
SV	EL SALVADOR
SY	SYRIAN ARAB REPUBLIC
SZ	SWAZILAND
TC	TURKS AND CAICOS ISLANDS
TD	CHAD
TF	FRENCH SOUTHERN TERRITORIES
TG	TOGO
TH	THAILAND
TJ	TAJIKISTAN
TK	TOKELAU
TL	TIMOR-LESTE

Data Code	Description
TM	TURKMENISTAN
TN	TUNISIA
TO	TONGA
TR	TURKEY
TT	TRINIDAD AND TOBAGO
TV	TUVALU
TW	TAIWAN
TZ	TANZANIA, UNITED REPUBLIC OF
UA	UKRAINE
UG	UGANDA
UM	UNITED STATES MINOR OUTLYING ISLANDS
US	UNITED STATES
UY	URUGUAY
UZ	UZBEKISTAN
VA	HOLY SEE (VATICAN CITY STATE)
VC	SAINT VINCENT AND THE GRENADINES
VE	VENEZUELA, BOLIVARIAN REPUBLIC OF
VG	VIRGIN ISLANDS, BRITISH
VI	VIRGIN ISLANDS, U.S.
VN	VIET NAM
VU	VANUATU
WF	WALLIS AND FUTUNA
WS	SAMOA
XK	KOSOVO
YE	YEMEN

Data Code	Description
YT	MAYOTTE
ZA	SOUTH AFRICA
ZM	ZAMBIA
ZW	ZIMBABWE

ISOCurrency

Choose from one of the enumerators below:

Data Code	Description
AED	UAE Dirham
AFN	Afghani
ALL	Lek
AMD	Armenian Dram
ANG	Netherlands Antillean Guilder
AOA	Kwanza
ARS	Argentine Peso
AUD	Australian Dollar
AWG	Aruban Florin
AZN	Azerbaijani Manat
BAM	Convertible Mark
BBD	Barbados Dollar
BDT	Taka
BGN	Bulgarian Lev
BHD	Bahraini Dinar
BIF	Burundi Franc

Data Code	Description
BMD	Bermudian Dollar
BND	Brunei Dollar
BOB	Boliviano
BRL	Brazilian Real
BSD	Bahamian Dollar
BTN	Ngultrum
BWP	Pula
BYR	Belarussian Ruble
BZD	Belize Dollar
CAD	Canadian Dollar
CDF	Congolese Franc
CHF	Swiss Franc
CLP	Chilean Peso
CNY	Yuan Renminbi
COP	Colombian Peso
CRC	Costa Rican Colon
CUC	Peso Convertible
CUP	Cuban Peso
CVE	Cabo Verde Escudo
CZK	Czech Koruna
DJF	Djibouti Franc
DKK	Danish Krone
DOP	Dominican Peso
DZD	Algerian Dinar

Data Code	Description
EGP	Egyptian Pound
ERN	Nakfa
ETB	Ethiopian Birr
EUR	Euro
FJD	Fiji Dollar
FKP	Falkland Islands Pound
GBP	Pound Sterling
GEL	Lari
GHS	Ghana Cedi
GIP	Gibraltar Pound
GMD	Dalasi
GNF	Guinea Franc
GTQ	Quetzal
GYD	Guyana Dollar
HKD	Hong Kong Dollar
HNL	Lempira
HRK	Kuna
HTG	Gourde
HUF	Forint
IDR	Rupiah
ILS	New Israeli Sheqel
INR	Indian Rupee
IQD	Iraqi Dinar
IRR	Iranian Rial

Data Code	Description
ISK	Iceland Krona
JMD	Jamaican Dollar
JOD	Jordanian Dinar
JPY	Yen
KES	Kenyan Shilling
KGS	Som
KHR	Riel
KMF	Comoro Franc
KPW	North Korean Won
KRW	Won
KWD	Kuwaiti Dinar
KYD	Cayman Islands Dollar
KZT	Tenge
LAK	Kip
LBP	Lebanese Pound
LKR	Sri Lanka Rupee
LRD	Liberian Dollar
LSL	Loti
LYD	Libyan Dinar
MAD	Moroccan Dirham
MDL	Moldovan Leu
MGA	Malagasy Ariary
MKD	Denar
MMK	Kyat

Data Code	Description
MNT	Tugrik
MOP	Pataca
MRO	Ouguiya
MUR	Mauritius Rupee
MVR	Rufiyaa
MWK	Kwacha
MXN	Mexican Peso
MYR	Malaysian Ringgit
MZN	Mozambique Metical
NAD	Namibia Dollar
NGN	Naira
NIO	Cordoba Oro
NOK	Norwegian Krone
NPR	Nepalese Rupee
NZD	New Zealand Dollar
OMR	Rial Omani
PAB	Balboa
PEN	Nuevo Sol
PGK	Kina
PHP	Philippine Peso
PKR	Pakistan Rupee
PLN	Zloty
PYG	Guarani
QAR	Qatari Rial

Data Code	Description
RON	Romanian Leu
RSD	Serbian Dinar
RUB	Russian Ruble
RWF	Rwanda Franc
SAR	Saudi Riyal
SBD	Solomon Islands Dollar
SCR	Seychelles Rupee
SDG	Sudanese Pound
SEK	Swedish Krona
SGD	Singapore Dollar
SHP	Saint Helena Pound
SLL	Leone
SOS	Somali Shilling
SRD	Surinam Dollar
SSP	South Sudanese Pound
STD	Dobra
SVC	El Salvador Colon
SYP	Syrian Pound
SZL	Lilangeni
THB	Baht
TJS	Somoni
TMT	Turkmenistan New Manat
TND	Tunisian Dinar
TOP	Pa'anga

Data Code	Description
TRY	Turkish Lira
TTD	Trinidad and Tobago Dollar
TWD	New Taiwan Dollar
TZS	Tanzanian Shilling
UAH	Hryvnia
UGX	Uganda Shilling
USD	US Dollar
UYU	Peso Uruguayo
UZS	Uzbekistan Sum
VEF	Bolivar
VND	Dong
VUV	Vatu
WST	Tala
XAF	CFA Franc BEAC
XCD	East Caribbean Dollar
XOF	CFA Franc BCEAO
XPF	CFP Franc
YER	Yemeni Rial
ZAR	Rand
ZMW	Zambian Kwacha
ZWL	Zimbabwe Dollar

Item and packaging codes

CountryDrugCode

Choose from one of the enumerators below:

Data Code	Description
AT_PZN	Austria 13-digit PZN Code.
BE_ABP_CODE	Belgium 16-digit ABP Code.
BG_NATIONAL_NUMBER	Bulgaria National Drug Code.
BR_ANVISA_REGISTRATION	Brazil 13-digit ANVISA Drug Registration Code.
CA_DIN	Canada 8-digit DIN Code.
CH_SWISSMEDIC	Switzerland 13-digit Swissmedic Code.
CN_NDC	China National Drug Code.
CN_STANDARD	China Drug Standard Code.
CN_SUBTYPE	China 10-digit Subtype Code.
DE_PPN	Germany 12-digit PPN Code - Pharmacy Product Number.
DE_PZN	Germany 7-digit PZN Code - Pharmazentralnummer.
EAN13	International Article Number 13-digit Code.
ES_CODIGO_NATIONAL	Spain 13-digitCodigo National Code.
FR_CIP13	France 13-digit CIP13 Code.
GR_EOF CODE	Greece 9-digit EOF Code.
HR_NATIONAL_CODE	Croatia 10-digit National Code.
IN_PRODUCT_CODE	India 12-digit product code (based on the GTIN-14 with first and last digit removed).
IT_BOLLINO	Italy 9-digit Bollino Code.

Data Code	Description
KR_KFDA_CODE	Korea 13-digit KFDA Code.
LU_NATIONAL_NUMBER	Luxembourg National Drug Code.
NL_KNMP_CODE	Netherlands KNMP 8-digit Code.
NRD_VNR_CODE	Nordic Countries 6-digit VNR Code.
PT_AIM	Portugal 7-digit AIM Number.
SA_SAUDI_DRUG_CODE	Saudi Arabia 10-character alphanumeric Drug Code.
SUKL	Czech Republic country drug code
UK_AMPP	United Kingdom National Drug Code.
US_NDC442	US 10-digit National Drug Code, may have hyphen separators at positions 4-4-2.
US_NDC532	US 10-digit National Drug Code, may have hyphen separators at positions 5-3-2.
US_NDC541	US 10-digit National Drug Code, may have hyphen separators at positions 5-4-1.
US_NDC542	US 11-digit National Drug Code, may have hyphen separators at positions 5-4-2.

ItemCode

Choose from one of the enumerators below:

Data Code	Description
CN-RESCODE	China item number format.
GTIN-14	GTIN-14 product code type.
NTIN	National Trade Item Identifier product code type.

PackagingItemCodeType

Choose from one of the enumerators below:

Data Code	Description
CN_RESCODE	China RES Code.
GTIN_14	GTIN-14.
NTIN	National Trade Item Number.
SSCC	SSCC - GS1 Company Prefix Value.

Serial numbers

Encoding

Choose from one of the enumerators below:

Data Code	Description
AI(00)	The bar code representation of an SSCC-18 number and the equivalent of the SSCC-96 scheme.
AI(01)+AI(21)	The bar code representation of a serialized GTIN number and the equivalent of the SGTIN-96 scheme.
AI(8003)	Not currently used. The bar code equivalent of the GRAI schemes.
CN-EDMC	China number encoding format.
GRAI-96	Not currently used. A 96-bit encoding scheme for Global Returnable Asset Identifier.
GRAI-170	Not currently used. A 170-bit encoding scheme for Global Returnable Asset Identifier.
SGTIN-96	Not currently used. A 96-bit encoding scheme for embedding EAN.UCC 685 System standard GTINs (Global Trade Identification Numbers) and EPCs (Electronic Product Codes) on 2D barcodes and RFID tags.
SGTIN-198	Not currently used. A 198-bit encoding scheme for embedding EAN.UCC 685 System standard GTINs (Global Trade Identification Numbers) and EPCs (Electronic Product Codes) on barcodes and RFID tags.
SSCC-96	Not currently used. A 96-bit encoding scheme for embedding of EAN.UCC 897 System standard SSCCs (Serialized Shipping Container Codes) on 2D barcodes and RFID tags.

EPC Pure Identifier Format Examples

The following examples are in EPC Pure Identity URI format:

CN EDMC: `http://epcis.tracelink.com/hc/cn-edmc/obj/[serial number]`

E.g. `http://epcis.tracelink.com/hc/cn-edmc/obj/88102301100002005943`

NTIN: `urn:epc:id:sgtin:[company prefix].[indicator digit][item ref].[serial number]`

E.g. `urn:epc:id:sgtin:415001647778.0.100000000022`

SGTIN: urn:epc:id:sgtin:[company prefix].[indicator digit + item reference].[serial number]

E.g. urn:epc:id:sgtin:068202.0401034.11220207026272

SSCC: urn:epc:id:sscc:[company prefix].[extension digit + serial number]

E.g. urn:epc:id:sscc:030944.10105363280

FilterValue

Choose from one of the enumerators below:

Data Code	Encoding Description	Description
0	filter-value-0	Filter value associated with SGTIN or SSCC. This element is used in conjunction with the Application Identifier number, SGTIN, or SSCC number in the event the serial number needs to be translated into an alternate format for the customer system (e.g. GS1 HEX or GS1 Tag URI format).
1	filter-value-1	
2	filter-value-2	
3	filter-value-3	
4	filter-value-4	
5	filter-value-5	
6	filter-value-6	
7	filter-value-7	

Format

Choose from one of the enumerators below:

Data Code	Description
AI(00)	The bar code representation of an SSCC-18 number, and the equivalent of the SSCC-96 scheme.
AI(01)+AI(21)	The bar code representation of a serialized GTIN number, and the equivalent of the SGTIN-96 scheme.

Data Code	Description
AI(8003)	The bar code equivalent of the GRAI schemes.
CN-EDMC	China number encoding format.
GRAI-96	A 96-bit encoding scheme for Global Returnable Asset Identifier.
GRAI-170	A 170-bit encoding scheme for Global Returnable Asset Identifier.
SGTIN-96	A 96-bit encoding scheme for embedding EAN.UCC 685 System standard GTINs (Global Trade Identification Numbers) and EPCs (Electronic Product Codes) on 2D barcodes and RFID tags.
SGTIN-198	A 198-bit encoding scheme for embedding EAN.UCC 685 System standard GTINs (Global Trade Identification Numbers) and EPCs (Electronic Product Codes) on bar codes and RFID tags.
SSCC-96	A 96-bit encoding scheme for embedding EAN.UCC 897 System standard SSCCs (Serialized Shipping Container Codes) on 2D barcodes and RFID tags.

Encoding

Choose from one of the enumerators below:

Data Code	Description
AI(00)	The bar code representation of an SSCC-18 number and the equivalent of the SSCC-96 scheme.
AI(01)+AI(21)	The bar code representation of a serialized GTIN number and the equivalent of the SGTIN-96 scheme.
AI(8003)	Not currently used. The bar code equivalent of the GRAI schemes.
CN-EDMC	China number encoding format.
GRAI-96	Not currently used. A 96-bit encoding scheme for Global Returnable Asset Identifier.
GRAI-170	Not currently used. A 170-bit encoding scheme for Global Returnable Asset Identifier.
SGTIN-96	Not currently used. A 96-bit encoding scheme for embedding EAN.UCC 685 System standard GTINs (Global Trade Identification Numbers) and EPCs (Electronic Product Codes) on 2D barcodes and RFID tags.
SGTIN-198	Not currently used. A 198-bit encoding scheme for embedding EAN.UCC 685 System standard GTINs (Global Trade Identification Numbers) and EPCs (Electronic Product Codes) on barcodes and RFID tags.
SSCC-96	Not currently used. A 96-bit encoding scheme for embedding of EAN.UCC 897 System standard SSCCs (Serialized Shipping Container Codes) on 2D barcodes and RFID tags.

Shipment and receipt

ActionCode

Choose from one of the enumerators below:

Data Code	Description
CUSTOMSTRANSIT	The product is being transported through the importing to country but will not be distributed there.
DESTRUCTION	The shipment is designated for destruction.
DOMESTIC	The shipment is granted clearance to be sold and consumed domestically.
EXPORT	This shipment contains domestic or local products and is sent to another country.
REFUSAL	The shipment is refused clearance by the regulatory customs authority.
REEXPORT	The shipment contains products already imported into the country and is sent to another country.

ContractType

Choose from one of the enumerators below:

Data Code	Description
AgencySalesAgreement	An agent performs both legal actions and paid services for a manufacturer or supplier.
CommissionSalesAgreement	A sales agent earns commission for facilitating trade for an exporting company.
CompetitiveBid	Sold under private contract.
ConsignmentAgreement	The buyer pays the manufacturer or supplier only when the product is sold.
GovernmentContract	Product is sold under a government state contract.
PrivateContract	Sold under competitive bid contract.

FundingSource

Choose from one of the enumerators below:

Data Code	Description
FederalBudgetFunds	Federal government funds are used to purchase the shipment.
OwnFunds	The company's own funds are used to purchase the shipment.
RegionalBudgetFunds	State or regional funds are used to purchase the shipment.

ReceiptDistributionType

Choose from one of the enumerators below:

Data Code	Description
IMPORTPURCHASE	Purchase made into one country from another.
IMPORTRETURN	Return made into one country from another.
IMPORTTRANSFER	Transfer made into one country from another.
INCOUNTRYPURCHASE	Purchase made within the same country.
INCOUNTRYRETURN	Return made within the same country.
INCOUNTRYTRANSFER	Transfer made within the same country.

SalesDistType

Choose from one of the enumerators below:

Data Code	Description
EXPORTRETURN	A shipment for a return of goods to the supplier, shipped from one country to another.
EXPORTSALE	A sale and distribution made from one country to another.

Data Code	Description
EXPORTTRANSFER	A transfer within a company or with a partner such as 3PL or contract manufacturer/packager, made from one country to another. Includes intra-company warehouse transfer of goods, transfers between Pharmaceutical Manufacturer and 3PL, transfers between Pharmaceutical Manufacturer and CMO/CPO, transfers between CMO/CPO and 3PL of Pharmaceutical Manufacturer.
INCOUNTRYRETURN	A shipment for a return of goods to the supplier, shipped within the same country.
INCOUNTRYSALE	A sale and distribution made within the same country.
INCOUNTRYTRANSFER	A transfer within a company or with a partner such as 3PL or contract manufacturer/ packager, occurring within the same country. Includes intra-company warehouse transfer of goods, transfers between Pharmaceutical Manufacturer and 3PL, transfers between Pharmaceutical Manufacturer and CMO/CPO, transfers between CMO/CPO and 3PL of Pharmaceutical Manufacturer.

SalesDistType (Receipt)

Choose from one of the enumerators below:

Data Code	Description
IMPORTPURCHASE	Purchase made into one country from another.
IMPORTRETURN	Return made into one country from another.
IMPORTTRANSFER	Transfer made into one country from another.
INCOUNTRYPURCHASE	A purchase made within the same country.
INCOUNTRYRETURN	A return made within the same country.
INCOUNTRYTRANSFER	A transfer made within the same country.

SupplyType

Choose from one of the enumerators below:

Data Code	Description	Ship From or Ship To Country
AgencyOrderedDestructionDistribution	Return of a product for destruction as ordered by a government agency.	Russia
CivilProtectionEmergencyDistribution	Distribution of product to authorized parties (e.g. police) for civil protection and disaster control.	EU FMD Countries
ClinicalTrial	Supply for a clinical trial.	India

Data Code	Description	Ship From or Ship To Country
Collection	Return of recalled product.	Not mandatory for a specific country.
ContractManufacturerBuyback	A return sale back to the contract manufacturer.	Russia
CourtOrderedDestructionDistribution	Return of product for court-ordered destruction.	Russia
CustomsClearanceDistribution	Product is received into an importer's warehouse after customs clearance.	Russia
CustomsSale	Sale of product previously seized by a customs agency.	Russia
CustomsZoneTransfer	Product is transferred between customs zones.	Russia
DentalPractitionerDistribution	Distribution of product to a dental practitioner.	EU FMD Countries
DestructionDistribution	Return of product for company-initiated destruction.	Russia
Donation	Distribution of product for donation.	South Korea
EmergencyMedicalPractitionerDistribution	Distribution of product to a paramedic or emergency medical practitioner.	EU FMD Countries
ExemptedDispenser	Suppliers mark a product as Dispensed before a dispenser receives it.	Russia
FreeOfChargeDistribution	Free sales that are neither Donations nor Sample Distributions.	Russia
MedicalCareDistribution	Distribution to a hospital, clinic, or health center.	South Korea
MedicalPractitionerDistribution	Distribution of product to a doctor or other medical practitioner.	EU FMD Countries
MilitaryDistribution	Distribution of product to the military.	South Korea
OpticalPractitionerDistribution	Distribution of product to an optometrist or optician.	EU FMD Countries
PatientDistribution	Distribution of product to a patient.	South Korea
PrisonDistribution	Distribution of product to a prison.	EU FMD Countries
ProviderDistribution	Distribution of product to a provider.	South Korea
ReExportDistribution	Product that is produced in Country A, and then imported into and subsequently re-exported from Country B.	Russia
ReExportEmbargoDistribution	Product that is produced in Country A, and then imported into and subsequently re-exported from Country B due to an embargo placed on a product.	Russia
ReExportSanctionsDistribution	Product that is produced in Country A, and then imported into and subsequently re-exported from Country B due to imposed sanctions.	Russia
ResearchUniversityDistribution	Distribution of product to a research institution (e.g. universities that perform research).	EU FMD Countries
SafetyLifeReservesDistribution	Distribution of product to a retail pharmacy.	South Korea

Data Code	Description	Ship From or Ship To Country
SampleDistribution	Distribution of product as free samples.	South Korea
SchoolDistribution	Distribution of product to a school.	EU FMD Countries
SpecialMedicalCareDistribution	Distribution of product to a nursing home or hospice.	South Korea and EU FMD Countries
VeterinaryDistribution	Distribution of product to a veterinarian or a veterinary retailer.	EU FMD Countries
WithdrawnProductCollection	Withdrawn goods are collected and returned to the manufacturer.	Russia

Status update

DestructionMethod

Choose from one of the enumerators below:

Data Code	Description
INCINERATION	The product is consumed in an incinerator.
LIQUID_DILUTION_DRAINAGE	The ampoule is crushed, and the liquid product is diluted and discharged into industrial sewers.
SOLID_DILUTION_DISCHARGE	The solid product is crushed, diluted, and discharged into industrial sewers.

DestroyReasonCode

Choose from one of the enumerators below:

Data Code	Description
DAMAGED	Product that has been damaged.
DEFECTIVE	Product that is defective.
DISPENSED	Product that has been dispensed.
DISPOSED	Product that has been disposed of and thus removed from the supply chain.
EXPIRY	Product that contains a passed expiration date.
MISPLACED	Product that has been misplaced or lost and thus removed from the supply chain.
RECALL	Product that has been recalled.
REPACKAGED	Product that has been repackaged.
SAMPLED	Product that has been sampled (not by regulatory authorities) and thus removed from the supply chain.
SAMPLED_BY_AUTHORITIES	Product that was sampled by regulatory authorities and thus removed from the supply chain.
STOLEN	Product that has been reported as stolen.
WITHDRAWN	Product that has been withdrawn from the supply chain.

DecommissionReasonCode

Choose from one of the enumerators below:

Data Code	Description
DAMAGED	Product that has been damaged.
DEFECTIVE	The product does not function as intended.
DISPENSED	Product that has been dispensed.
DISPOSED	Product that has been disposed of and thus removed from the supply chain.

Data Code	Description
EXPIRED	Product's expiration date has passed.
EXPIRY	Product that contains a passed expiration date.
INAPPROPRIATELY_STORED	The product has been stored improperly and is no longer fit for sale.
MISPLACED	Product that has been misplaced or lost and thus removed from the supply chain.
OTHER	Other reason for the product being decommissioned.
QUALITY_RELEASED	Product that has been released by quality assurance.
RECALL	Product that has been recalled.
REPACKAGED	Product that has been repackaged.
RETURNED	The product has been returned and cannot be resold.
SAMPLED	Product that has been sampled (not by regulatory authorities) and thus removed from the supply chain.
SAMPLED_ARCHIVAL	The product is sampled to store as a record.
SAMPLED_BY_AUTHORITIES	Product that was sampled by regulatory authorities and thus removed from the supply chain.
SAMPLED_CLINICAL_STUDY	The product is sampled for a clinical study.
SAMPLED_CUSTOMS_CONTROL	The product is sampled for inspection control by customs authorities.
SAMPLED_FEDERAL_INSPECTION	The product is sampled for federal inspection.
SAMPLED_MARKETING_DEMO	The product is used in a marketing demonstration.
SAMPLED_PHARMA_STUDY	The product is sampled for a post-registration pharmaceutical study, to support submitted changes to a dossier.
SAMPLED_SELECTIVE_CONTROL	The product is sampled by health authorities as needed to ensure quality standards.
SPOILAGE	The product is spoiled due to exposure (e.g. heat, oxygen, moisture, microorganisms).
STOLEN	Product that has been reported as stolen.
WITHDRAWN	Product that has been withdrawn from the supply chain.
WITHDRAWN_EXPERIMENT	The product is withdrawn from the market during the course of an experiment.

ReasonCode

Choose from one of the enumerators below:

Data Code	Description
INCORRECTSTATUS	Product that reflects the incorrect SerialNumberStatus and therefore will be modified.
STATUSUPDATE	Product that is changing its status.

ReasonCodes

Choose from one of the enumerators below:

Data Code	Description
Correction	Shipment to be corrected.
Damaged	Product that has been damaged.
DamagedInFacility	Product that has been damaged in the facility.
DamagedInTransit	Product that has been damaged in transit.
DataIssue	Product with a data issue.
Destroyed	Product that has been destroyed.
Expired	Product that is expired.
FoundInventory	Inventory that has been found.
Investigation	Product that is under investigation.
LostInventory	Inventory that is lost.
OrderCancelled	Order that has been cancelled.
OrderRejected	Order that has been rejected.
Other	Other.
OverReceipt	Product with an over receipt.
OverShip	Product with an over shipment.
PhysicalCount	Product that has a physical count issue.
Recalled	Product that has been recalled.
ReceivingError	Product with a receiving error.
ShippingError	Product with a shipping error.
ShortReceipt	Product with a short receipt.
ShortShip	Product with a short ship.

TakeSampleReasonCode

Choose from one of the enumerators below:

Data Code	Description
ARCHIVAL	The product is sampled to store as a record.
CONFORMITY_CONTROL	The product is sampled by health authorities when imported to ensure quality standards.
SELECTIVE_CONTROL	The product is sampled by health authorities as needed to ensure quality standards.

Transaction identifiers

TransactionId

Choose from one of the enumerators below:

Data Code	Description
ASN	Shipment Notification Number.
BOL	Bill of Lading Number. A carrier-issued document that serves as a shipment receipt once the product is delivered to the predetermined destination.
DESTRUCTION	Destruction Order Number.
EWAY	E-Way Bill Number.
INVOICE	Invoice Number.
NOTA_FISCAL_ELETRONICA	Nota fiscal eletrônica (used in Brazil, populated with nota fiscal document number and series code in format: 987654321.99999999).
OTHER	Other identifier.
PACKSLIP	Packing Slip Number.
PO	Purchase Order Number.
PRONUMBER	Transportation carrier progressive number.
REMOVAL	Removal from circulation.
RETURN	Return Authorization Number.
SALESORDER	Sales Order Number.
TRANSFER_NUMBER	Transfer Order.

TransactionId (Inbound)

Choose from one of the enumerators below:

Data Code	Description
http://epcis.tracelink.com/hc/btt/destruction	Destruction Order.
http://epcis.tracelink.com/hc/btt/eway	E-Way Bill Number.

Data Code	Description
http://epcis.tracelink.com/hc/btt/notafiscaleletronica	Brazil Nota Fiscal Eletronica.
http://epcis.tracelink.com/hc/btt/other	Other Document Type.
http://epcis.tracelink.com/hc/btt/packslip	Packing Slip.
http://epcis.tracelink.com/hc/btt/pronumber	Transportation Carrier Progressive Number.
http://epcis.tracelink.com/hc/btt/salesorder	Sales Order.
http://epcis.tracelink.com/hc/btt/transfer	Transfer Order Number.
urn:epcglobal:cbv:btt:bol	Bill Of Lading.
urn:epcglobal:cbv:btt:desadv	Shipment Notification Number or Delivery Number.
urn:epcglobal:cbv:btt:inv	Invoice Number.
urn:epcglobal:cbv:btt:pedigree	Pedigree Transaction History.
urn:epcglobal:cbv:btt:po	Purchase Order Number.
urn:epcglobal:cbv:btt:poc	Purchase Order Confirmation.
urn:epcglobal:cbv:btt:prodorder	Production Order.
urn:epcglobal:cbv:btt:recadv	Receiving Advice.
urn:epcglobal:cbv:btt:rma	Return Authorization Order.

TransactionId (Outbound)

Choose from one of the enumerators below:

Data Code	Description
ASN	Shipment Notification Number.
BOL	Bill of Lading Number. A carrier-issued document that serves as a shipment receipt once the product is delivered to the predetermined destination.
CERTIFICATECONFORMITY	Certificate of conformity.
DECLARATIONCONFORMITY	Declaration of conformity.
DESTRUCTION	Destruction Document Number.

Data Code	Description
EWAY	E-Way Bill Number.
INVOICE	Invoice Number.
NOTAFISCALELETRONICA	Nota fiscal eletrônica (used in Brazil, populated with nota fiscal document number and series code in format: 987654321.99999999).
OTHER	A document type that is outside of existing descriptions/data codes.
PACKSLIP	Packing Slip Number.
PO	Purchase Order Number.
RETURN	Return Authorization Number.
SALESORDER	Sales Order Number.
TRANSFER	Transfer Order Number.