



DSCSA Serialization Training for Healthcare Customers

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DSCSA Serialization for Healthcare Customers

In order to comply with the final DSCSA regulations, you need to receive serialized data from your suppliers and prove you are dispensing serialized product if you are audited by the FDA. This student guide accompanies the training session with your HOST team. Please find details of what was presented in the training session including links to related videos.

This Student Guide Includes:

- HOST and DSCSA Overview
- Viewing Serialized Transactions and Visually Reconciling
- Troubleshooting
- Loaning Medication
- Resources

Healthcare Operations Services Team (HOST)

Host manages your DSCSA solutions by administering users, connecting trade partners, handling exceptions, and assisting with daily activities to meet your compliance needs.

DSCSA Overview

The intent of the DSCSA is to ensure patient safety by tracking and tracing pharmaceutical products through the supply chain. So as a product moves from manufacturers to wholesalers to pharmacies, serialized data is passed to each supply chain entity with each change of ownership. This prevents tainted or counterfeit product from slipping into the supply chain, and gives us a full supply chain traceability system.

What is Serialization?

Serialization: Original manufacturers and repackagers are responsible for providing a **unique identifier** for each salable package of product that can be accessed via barcode.

Prior to the serialization regulations, DSCSA covered lot level traceability via Advance Shipment Notices (ASNs) with a Transaction History (T3).

When the data is passed electronically through Product Track, TraceLink saves the product identifier to TraceLink's serialization repository – Serialized Operations Manager. It associates the product identifier with the ASN within the system. Note that once the final regulations are in effect, ASN exchange will no longer be required. However, TraceLink will continue to support ASNs for historical purposes.

How is electronic data exchange accomplished?

You use these TraceLink applications to accomplish this.

- **Serialized Operations Manager** to store and look up serial number information.
- **US Product Track** to exchange serialization data and track your ASNs and their relationship with the serial numbers.
- **Product Information Exchange** to verify serial numbers with the manufacturers.

Note: In this document, the term "serial number" refers to the full product identifier (lot, expiration date, GTIN, and serial number).

Serialization Data in Product Track

While ASNs are still being exchanged, the serialized data is associated with the Product Track delivery. You can search for the serialized data in Product Track.

Watch the video: How to Search for Serialization Data in Product Track

Visual Reconciliation

Once you find the serialized data, you can visually reconcile the quantities of the physical products with what you see in the electronic delivery.



Searching for Serialization Data in a Delivery


To locate serialization data for a delivery, you search using the View Transaction Exchanges page (**Go To > View Transaction Exchanges**). You can filter by transaction exchanges between your company and your trade partners and specify search criteria to find the delivery.



Search for Serialization Data

Transaction exchanges show the transactions between suppliers and customers at the shipment or delivery level. Once you find a shipment or receipt for a delivery, you can view the corresponding serialization data.




To search for serialization data in a delivery:

1. Select **Compliance > US Product Track** in the **Modules** menu.
2. In the **Go To** menu on the top right, click **View Transaction Exchanges**.
3. Ensure that the **Search Criteria** section of the page is expanded. Click the expand icon  if necessary.
4. For **Service Publisher**, select your company.


The **Service Publisher** list contains each Product Track application (service) you have access to; if your company has not purchased TraceLink, select the company whose serialized event data you want to view.


5. Using the **Date On or After** and **Date On or Before** fields, set the date range or keep the default range.
6. Select the type of serialized exchanges **All** from the **Serialization Confirmation Type** drop-down list.
 - **All** - Displays all transaction exchanges, even those with no associated serialization data.
 - **Confirmed - ASN** - Displays transaction exchanges created through an ASN that corresponds to a submitted Serialized Operations Manager (SOM) receipt with associated serial numbers.
 - **Serialized - EPCIS** - Displays serialized transaction exchanges created through EPCIS data exchange.
 - **Unconfirmed - ASN** - Displays transactions exchanges created through an ASN that corresponds to an unsubmitted SOM receipt.
7. Optionally choose other criteria to narrow your search.
8. Click **Search**.

The matching deliveries display.

In the results list, a lot level compliance entry, as well as confirmed and unconfirmed ASNs are denoted with a details icon , and a Transaction History icon . An EPCIS serialization data entry shows only the details icon .

If both lot level compliance data and EPCIS serialization data are transmitted with a delivery, two entries appear in the results list, one for each message.

9. Click  on the serialized data entry.

Note: If you are unsure if the entry is EPCIS serialized data, hover over . The type of transaction displays.

10. Click **Download Serial Numbers** to download the serial numbers to a CSV file.
11. Click **View Serial Numbers** to view the serial numbers for the highest packaging level. A list of serial numbers and additional information displays.

For Serialized - EPCIS entries:

- Click the link in the **Serial Number/Actual Barcode Content** column to see serial number details for the next packaging level.
- You can continue to drill down in the data to the saleable unit level.

For Confirmed - ASN entries:

- Click the [Export Contents to CSV](#) link to download the information from the list, including packaging hierarchy information.

Troubleshooting DSCSA Compliance Exceptions for Dispensers

It's likely that during day-to-day operations, something could go wrong. What happens when the physical doesn't match the digital?

In February of 2023, the Partnership for DSCSA Governance (PDG), the Healthcare Distribution Alliance (HDA), and GS1 US jointly hosted a two-day workshop for industry stakeholders. They identified 3 main areas of possible exceptions:

- **Product, No Data:** A trading partner receives product but does not have complete or accurate data.
- **Data, No Product:** A trading partner receives data but does not receive all or some portion of the associated product.
- **Data Issue:** Data misalignment comes from other challenges, such as incomplete/inaccurate master data or barcoding issues.

Source: <https://dscsagovernance.org/wp-content/uploads/2023/03/Exception-Handling-Workshop-Report-.pdf>

We'll take a look at one scenario from each of these categories and how to use correction tools in TraceLink.

Scenario 1: Product, No Data

You received 20 packages, but the data only shows Transaction Information (TI) for 10 packages.

How do you fix it? Your partner can either manually create a shipment for the second 10 packages with a new delivery number. Or, you can void the receipt in Serialized Operations Manager and ask your partner to void their shipment, correct the error, and resend the shipment. Collaborate with your partner to make sure you are both in agreement. See *Voiding Receipts on page 28*.

Watch the video: [How to Receive Serialized Products \(includes voiding receipts\)](#)

Scenario 2: Data, No Product

You purchase 20 packages, your partner sent 20 packages, but the transaction information reflects 22 packages.

How do you fix it? In this case, you have a couple of options. The most important part of this is coordinating with your partner so you are both clear on how you will fix the data.

- **Option 1:** Void the receipt. Ask your partner to void their shipment, correct the data, and resend the shipment.
- **Option 2:** Your partner informs you of the two serial numbers that are in error. They update the serial number status of the serial numbers in question to “Commissioned – Available” instead of “Commissioned – Shipped” in their system. You update the serial number status of those two serial numbers to "Decommissioned." See *Updating the Status of a Serial Number on page 29.*

Watch the video: [How to Update the Status of Serialized Products](#)

Scenario 3: Data Issue

The lot number in the Transaction Information data is 446215 and the encoded lot number is A446215.

How do you fix the data? Inform your partner of the problem. Void the receipt. Your partner must void the shipment, update the lot information for the serial number (change it to the encoded lot number), then resend the shipment.

Product Information Exchange

In order to verify products with the Verification Router Service (VRS), you need to add a verification contact first.

Details on how to add a verification contact, manually verifying serial numbers and searching verification history follow.

- *Adding a Verification Contact on the next page*
- *Verifying Products Manually on the next page*
- *Viewing Verification History on page 15*

Watch the related videos:

- How to Add a Verification Contact
- How to Manually Verify Serial Numbers
- How to Search Verification History

Adding a Verification Contact

In the case of suspected illegitimate product, a manufacturer has 24 hours to begin an investigation. In order to ensure that all parties involved can contact one another in a timely manner, a verification contact is required. You must add an email address or a phone number. You can add both if you have them but at least one is required. If adding an email address, it is best practice to use an email address that goes to your verification team's shared email address rather than an individual's email address in case the individual's responsibilities change in the future.



To add a verification contact:

1. Select **Company Administration > Services** in the user menu on the top right of the TraceLink window.
2. For **Service Type**, select Product Information Exchange.
3. Click **Search**.
4. Click [Configure Published Service](#).
5. Scroll to the tabs at the bottom.
6. Click the **Verification Contact** tab.
 - Click **+ Add Requester**.
 - Enter the **Phone Number** or **Email** of the contact.
 - **Important:** If you choose to add a **Phone Number**, do not add blank spaces to the field. Blank spaces are not allowed in the phone number format for GS1 messages.
7. Click **Submit**.



Verifying Products Manually

You use the Verify Product function in Product Information Exchange to manually verify products.



Submit a Verification Request Manually

1. Select **Product Information Exchange** in the **Modules** menu.
2. Click **Verify Product**.
3. Select the **Verification Reason**.
 - **Saleable Return - Check** (default value)
 - **Status Check**
 - **Verify Product Exception**
 - **Illegitimate Product Suspicion**
4. For **Verification Source** select one of the following options.
 - **Enter Product Information** to type the information manually:

Enter the **Packaging Code (GTIN)**, **Lot Number**, **Serial Number**, and **Expiration Date** of the item as listed on the package.
 - **Scan Product Information** to scan the barcode:

The serial numbers display in the Serial Numbers field.
5. For **Confirmation of Possession**, select one of the following two options.
 - No, I am not in possession of this product. (default value)
 - Yes, I am in possession of this product.
6. **Product Source**, displays if you act as a downstream partner. As a downstream partner, select **Another Company Produced this Product** to verify with VRS. If you are both a manufacturer and a downstream partner (wholesaler, for example), you can verify against your own Product Directory. To do so, select **My Company Produced this Product**.
7. Click **Submit**.

Product Information Manager processes the request.

Possible Results

A product is considered "verified" if all four elements (packaging code, serial number, lot, and expiration date) are matched in a VRS. However, manufacturers can customize the responses they return during verification. Therefore, these responses may vary depending on manufacturer customizations. See *Customizing Verification Responses*.

If provided in the response, the contact information (**Email** and **Phone**) of the Producer will display.

- **Verified Product:** The product is a legitimate product.
- **Verified Product - Product Recalled:** The product is a legitimate product but it has been recalled from the market. A warning displays.
- **Verified Product - Product Expired:** The product is a legitimate product but it has been recalled from the market. A warning displays.
- **Invalid Product:** The product is found but cannot be verified as legitimate because some part of the verification request does not match. For example, the expiration date you entered differs from the expiration date that is returned from the verification request. An error displays.
- **Invalid Product - Product Expired:** The product is found and verified but the product is expired and the manufacturer chose to return an invalid response. An error displays.

- **Invalid Product - Product Recalled:** The product is found and verified but the product has been recalled from the market and the manufacturer chose to return an invalid response. An error displays.
- **Invalid Product - Product Suspect:** The product is found and verified but the product has been marked as "suspect." Suspect products always return an invalid response. In this case the manufacturer chose to display that the product is suspect.
- **Invalid Product - Manufacturer Policy:** This result may be returned for the following reasons:
 - The product is found and verified but the product is marked as "suspect." Suspect products always return an invalid response. In this case the manufacturer chose not to indicate that the product is suspect.
 - The product is found and verified but the product is marked as recalled. The manufacturer sends an invalid response but does not indicate the product is recalled.
 - The product is found and verified but the product is expired. The manufacturer sends an invalid response but does not indicate the product is expired.
- **Invalid Product - Contact Manufacturer:** Displays only for downstream partners, such as wholesalers. The product is verified but cannot be verified as legitimate. However, the system returning the information does not provide a reason as to why the product is invalid. An error displays.
- **Unable to Verify:** The product is not found in Product Information Manager or an external VRS. The system could not verify whether or not the product is legitimate. In this case, it is likely the manufacturer is not connected to a VRS.

Viewing Verification History


As a manufacturer, you can view the history of verifications requested against your product directory. As a downstream partner, you can view the history of verifications requests you initiated.

You request a Verification History report for up to a seven day period. The date range can be within the past twelve years.



To Request a Verification History Report

Note that all fields are required.

1. Select **Product Information Exchange** in the **Modules** menu.
2. Click **Verification History**.
3. Click  [Verification History](#).
4. Select a **Date Range**.

Note: The maximum range is seven days.

5. Select a **Verification Response**.

Possible values are **All**, **Valid**, or **Invalid**.

6. Click **Submit**.

The system completes the operation in the background (asynchronously) so the results may not be ready immediately. When the results are ready they display in the list.



To View and Download a Verification History Report

You can download the Verification History reports for the last seven days.

1. Select **Product Information Exchange** in the **Modules** menu.
2. Click **Verification History**.
3. Locate the report in the list.
4. Click the link in the **File** column to download the report.

For downstream partners, such as wholesalers, the csv file displays information about:

- The request, including the packaging code, serial number, and lot.
- The response, including the response result and details.

For manufacturers, the csv file displays information about:

- The request, including the packaging code, serial number, and lot.
- The response, including the response result and details, and the product information as it appears in the Product Information Manager.

Staying Compliant: Special Situations

As a pharmacy or healthcare provider there are a couple of special situations in which you may need to send serialization data:

- You may need to loan some of your medication to another healthcare provider, such as a hospital.
- In a 340B situation, the physical product is shipped to you (as the covered entity) and you must ship the product and data to the contract pharmacy.

You must track this exchange of serial numbers through Serialized Operations Manager. If there are any problems, you may need to void a shipment. (The procedure is included at the end.)

Loaning Medication and 340B

Currently, in order do to stay compliant in these situations, you must follow these steps.

1. In **Serialized Operations Manager > Queries**, retrieve the inbound **Delivery Number** for the serial numbers you are loaning.
2. In **Serialized Operations Manager > Inbound Movement**, search for the unsubmitted receipt with the **Delivery Number**. Receive the whole receipt.
3. In **Serialized Operations Manager > Outbound Movement**, create a delivery for the serial numbers you are loaning.

Detailed procedures follow.

Step 1: Retrieve the Inbound Delivery Number for the Serial Number

1. Select **Serialized Operations Manager** in the **Modules** menu.
2. Select **Queries > [Get Serial Number Status](#)**.

3. Enter the **Serial Number**.
4. Click **Search**.
5. Note the **Last Delivery Number**.

Get Serial Number Status

Find the status, attributes, and aggregation information for a specific serial number.

▼ Search Criteria

SERIAL NUMBER *

Search Reset

<p>Serial Number Information</p> <p>SERIAL NUMBER 011794119946321721140000043738</p> <p>ENCODING TYPE AI(01)+AI(21)</p> <p>COMMISSIONING LOCATION 487902.870039.0</p> <p>Item Information</p> <p>ITEM CODE GTIN-14 17941199463217</p> <p>LOT NUMBER</p>	<p>SERIAL NUMBER STATUS Commissioned</p> <p>ITEM STATUS Pending Receipt</p> <p>REGISTERED False</p> <p>LAST DELIVERY NUMBER AW-20230523</p> <p>PRODUCT NAME Tequafina</p> <p>PRODUCT DESCRIPTION Tequafina 15MG 30 TAB</p>
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6. Repeat this process for each serial number you wish to send.



Step 2: Find and Receive the Inbound Receipt

1. Select **Serialized Operations Manager** in the **Modules** menu.
2. Select **Inbound Movement** > [View Receipts](#).
3. In the **Search Criteria** section enter the **Delivery Number**.
4. Ensure the **Status** is **Unsubmitted**.
5. Click **Search**.
6. Click the [Delivery Number](#) link in the **Delivery Number** column.
7. Click **Next**.
8. Click **Submit**.

All the serial numbers in the receipt are now in an **Available** state which means they are ready to ship.

9. Repeat this step for any additional inbound receipts if other serial numbers you are sending are on a different inbound receipt.



Step 3: Create an Outbound Delivery

1. Select **Serialized Operations Manager** in the **Modules** menu.
2. Select **Outbound Movement** > [Create Delivery](#).
3. Enter a **Delivery Number** of your own choosing.
4. For **Sale Type**, select **Sale - In Country**.
5. For **From Country Code** and **To Country Code**, select **US**.
6. Enter a **From Business**, **To Business**, **Ship From Location** and **Ship To Location**.

Four addresses are required for US EPCIS data exchange.

7. Enter the **Delivery Number** in the **Portal Access Code** field.

Your partner uses this to access the Shipment Notice on the Product Information Manager Shipment Notices page.

8. Add a **Transaction ID** of your own choosing.
 - For example, for **Identifier Type** select **Other**.
 - Enter the **Delivery Number** you just entered in the **Identifier Value** field.
 - Leave **Document Date** blank.

9. Click **Next**.

10. Click **Next** again.

11. In the **Serial Numbers** section, select **Scan Serial Numbers**. This option allows you to type in the box.

Enter the serial numbers in the box.

12. Ensure the **Automatically disaggregate serial numbers that are aggregated to another number** check box is selected.
13. Click **Submit**.



Void an Outbound Delivery

1. Select **Serialized Operations Manager** in the **Modules** menu.
2. Select **Outbound Movement** > [View Deliveries](#).
1. Set the **Status** to **Submitted**.
2. Enter additional search criteria as necessary to locate the delivery.
3. Click **Search**.
4. Click the [Delivery Number](#) link for the delivery you wish to void.
5. Click **Void Delivery** at the bottom of the screen.
This brings you to the Void Delivery screen.
6. Enter the Void Information.
 - a. Select a **Reason** for the void.
 - b. For **Order Cancelled**, select **Yes - order was cancelled**.
7. Click **Submit**.

Serialized Operations Manager

Serialized Operations Manager manages serialized inventory operations, such as, receiving, returns, and destruction. Once products are serialized, their data resides in the TraceLink repository. Serialized Operations Manager communicates with other TraceLink applications like Product Track.

You basically use Serialized Operations Manager to verify the serialized information in the system and to troubleshoot issues. You can view the deliveries that you received and you can query the status of the serial numbers. You use this information to prove that you are transacting on serialized product.

Watch related videos:

- How to Receive Serialized Products (includes searching and voiding)
- How to Update the Status of Serialized Products
- How to Query Serialized Products


Searching for Receipts

This procedure shows how to search for submitted or unsubmitted receipts.

Search for Receipts

To search for receipts:

1. In Serialized Operations Manager, click **Inbound Movement** and click the [View Receipts](#) link.
2. Set **Show Data From** to the manufacturing site that provisioned the serial numbers of the products you're receiving.
3. Enter **Search Criteria** to filter the list of deliveries needing to be received. Click the **Search Criteria** expand icon if necessary. The following table shows search criteria you can set.

Field	Description
Delivery Number	Search for serial numbers in a specified delivery. Note: Since it is possible to have the same Delivery Number for deliveries from different partners or locations, the uniqueness of the delivery is determined by the combination of Delivery Number , the Ship From Location , and the From Business .
Receipt Type	Filter serial numbers by the type of receipt transaction: <ul style="list-style-type: none"> ▪ Purchase – Import ▪ Purchase – In Country ▪ Return – Import ▪ Return – In Country ▪ Transfer – Import ▪ Transfer – In Country
Status	<ul style="list-style-type: none"> ▪ Submitted - Shows submitted receipts. ▪ Unsubmitted - Shows unsubmitted receipts. ▪ Voided - All - Shows receipts with any of the voided statuses listed below. ▪ Voided - Cancelled - Receipt is voided, the order is cancelled and cannot be corrected. ▪ Voided - Corrected - Receipt is voided and subsequently corrected. ▪ Voided - Not Corrected - Receipt is voided, the order is not cancelled and therefore can be corrected but has not yet been corrected.
Date On or After / Date On or Before	Enter the first and last date of a range to filter the receipts. You can enter the dates in the Date On or After and Date On or Before fields or select date using the calendar icons ().
Keywords	Enter a value such as the business identifier or transaction identifier. SOM matches the value against serialized number data. If you enter multiple keywords, serial numbers must match all keywords to be returned.

The search lists up to 10,000 results. Further refine the search criteria if necessary.

For matching receipts, the results table displays the delivery number, the type of shipment (for example, **Purchase – Import**), the date of the shipment, the status

(**Submitted** or **Unsubmitted**), the business that shipped the products in the delivery, the location the products shipped from, and the transaction identifier.

The list is ordered by date. You can click a column header to sort the list by a different value.

4. Click a [Delivery Number](#) link to:

- View the receipt details for deliveries that were **Submitted**. Click [Download Serial Numbers](#) to download the serial number hierarchy of the delivery items to a CSV file. See *Downloading the Serial Number Hierarchy for a Delivery* for more details.
- Update the receipt details for deliveries that are **Unsubmitted**. You can update the delivery information, click **Next** to add order item information, and click **Next** to add serial numbers. Click **Submit**. See *Updating Receipts on page 26* for more details.
- View the receipt details for deliveries that were **Voided**. For receipts with the status **Voided - Not Corrected**, you can correct the receipt from the page by clicking **Correct Receipt**.



Downloading the Serial Number Hierarchy for a Receipt

You can download a CSV that contains the serial numbers of all containers and products in a delivery. The file contains one row for each serial number with the following columns:

- SerialNumber
- ParentSerialNumber
- InternalMaterialNumber
- CountryDrugCodeType
- CountryDrugCode
- PackagingCodeType
- PackagingCode
- PackagingLevel (Each, Innerpack/Bundle, Case/Shipper, Pallet)
- LotNumber
- ExpirationDate
- ManufacturingDate

The file is named [ShipmentType]-[DeliveryNumber]-[ShipmentDate in DDMonYYYY format].csv, where ShipmentType is ReturnShipment, SaleShipment or TransferShipment.



Download the Serial Number Hierarchy

To download the serial number hierarchy for a delivery:

1. In Serialized Operations Manager, do one of the following:
 - For a shipment, click **Outbound Movement** and click the [View Deliveries](#) link.
 - For a receipt, click **Inbound Movement** and click the [View Receipts](#) link.

2. Set **Show Data From** to the manufacturing site that provisioned the serial numbers of the products.
3. Set the **Status** to **Submitted**. Or, for shipments, you can choose any voided option.
4. Enter other **Search Criteria** as necessary to locate the delivery.
5. Click **Search**.
6. Click the link for the delivery in the **Delivery Number** column.
7. Click the [Download Serial Numbers](#) link to download the serial number hierarchy of the delivery items to a CSV file.

Updating Receipts

You can update receipt details for **Unsubmitted** receipts.

Update Receipts

To update receipts:

1. In Serialized Operations Manager, click **Inbound Movement** and click the [View Receipts](#) link.
2. Set the **Status** to **Unsubmitted**.
3. Enter additional search criteria as necessary to locate the receipt.
4. Click the [Delivery Number](#) link for the receipt.
5. Update fields as required.

For descriptions of the fields, see *Creating Receipts for Serialized Products*.

6. If no serial numbers have been specified, do one of the following:
 - Select **Scan Serial Numbers** and type or scan an item's barcode (up to 30,000 characters).
 - Select **Upload Serial Numbers from File** and click **Choose File**. Each serial number in the file must be on its own row. Files can be as large as 50 MB.

If serial numbers have been specified, a file name containing the previously specified serial numbers is displayed.

You can do the following:

- Click the filename to download and view the specified serial numbers.
 - Click **Add More**, then select **Scan Serial Numbers** or **Upload Serial Numbers from File** to add additional serial numbers to the previously specified serial numbers.
 - Click **Remove** to remove previously specified serial numbers. The status of the serial numbers will change from Picked to Available.
7. If you wish to void the receipt, select the **Void Receipt** option. Click **Confirm** to void the receipt.
 8. If the delivery is complete, select the **Delivery complete** box.

If **Delivery complete** is selected, all included serial numbers are updated with the item status of Available and the Receipt Status is set to Submitted. If **Delivery complete** is not selected, all included serial numbers are updated with the item status of Available and the Receipt Status remains Pending.

Note: This option only displays if Serialized Operations Manager is configured to allow partial deliveries. The **Save for Later** button is disabled if this option is selected.

9. If you wish to implicitly register serial numbers during receipt, select the **Register unknown serial numbers** check box.

You use this to record (register) serial numbers in the system if you are a repackager, wholesaler, or pharmacy and your supplier has not provided you with

serialized product information. Once registered in the system, you can perform actions on the serial numbers, such as shipping and destroying.

10. Click **Submit** or click **Save For Later** to complete the receipt later.

Voiding Receipts

Sometimes, problems such as shipping errors or damage to goods can be discovered after you have received a delivery. In this case, you can void a receipt in SOM.

To Void a Receipt

1. In Serialized Operations Manager, click **Inbound Movement** and click the [View Receipts](#) link.
2. Set the **Status** to **Submitted**.
3. Enter additional search criteria as necessary to locate the Receipt.
4. Click the [Delivery Number](#) link for the delivery you wish to void.
5. Click **Void Receipt** at the bottom of the screen.

This brings you to the Void Receipt screen.

6. Enter the Void Information:

Field	Description
Reason*	Specify the reason you are voiding the receipt from the drop down list.
Transaction Date	Defaults to the current date.
Description	Optionally enter a description of the void.
Order Cancelled?*	Specify whether or not the order is being cancelled. If you mark the void as Yes - order was cancelled , the delivery status will become Voided - Cancelled and cannot be corrected. If you mark the void as No - order was not cancelled , the delivery status will become Voided - Not Corrected . You can correct the shipment.

7. Click **Submit**.

A confirmation message appears stating that the void action cannot be undone.

8. Click **Confirm** to complete the action.

Updating the Status of a Serial Number

Edge systems, such as TraceLink's Smart Inventory Tracker, update the status of serial numbers automatically during warehouse operations such as shipping, receiving, aggregating, and disaggregating. You can also update the status of serial numbers manually in the Serialized Operations Manager user interface.

Update a Serial Number's Status

Important: In general, you use the Update Serial Number Status page for data repair only. When you update serial number status on this page, Serialized Operations Manager updates the data in the repository but, in most cases, does not trigger compliance reporting. However, there are some events that will trigger certain compliance reports. For example, if you change the status of an item to Under Investigation or Available, certain European Union Compliance reports might be triggered.

The following procedure describes how to update the status of a single item. Enter, scan, or upload multiple serial numbers to update the status of a group of items.

To update a serial number's status:

1. In Serialized Operations Manager, click **Status Update** and select the [Update Serial Number Status](#) link.
2. On the top right of the SOM window, set **Show Data From** to the manufacturing site that provisioned the serial number you're updating.
3. From the **Serial Number Status** menu, select the status to which you're updating the serial number.

4. If you set the **Serial Number Status** to **Commissioned** or **Registered**, set the **Item Status** to the state of its associated item: Available, Blocked, Pending Receipt, Picked, Received, Shipped, or Under Investigation.
5. If you set the **Serial Number Status** to **Commissioned**, **Decommissioned**, **Destroyed**, or **Registered**, you may select a **Reason Code** from the drop-down list.

Note: It is recommended that if a product is stolen, withdrawn, or misplaced, you decommission the serial number rather than destroy the product since there is no confirmation that the product has actually been destroyed.

6. For **Update Type**, select one of the following:
 - Select **Product Status Update** if you're updating the status as a standard operation.
 - Select **Modifying Product Incorrect Status** if you're replacing an incorrect status.

The **Update Type** and **Reason Description** fields are used in audit reports.

7. Optionally, enter a **Reason Description**.
8. In the **Serial Numbers** section of the page, enter the serial numbers to be updated using one of these methods:
 - Type a serial number in the text box. If typing in multiple serial numbers, place each number in its own row. Please note that you can receive a partial shipment by entering the received child serial numbers and using the **Automatically disaggregate serial numbers** check box.
 - Select **Scan Serial Numbers** and scan an item's barcode. You can scan up to 30,000 characters.
 - Select **Upload Serial Numbers from File** and click **Choose File**. Each serial number in the file must be on its own row. Files can be as large as 50 MB.
9. Click **Submit**.

Querying a Serial Number

Use SOM to obtain the following data on a serial number:

Serial Number Query Results	
Serial number information	<ul style="list-style-type: none"> ▪ Encoding format ▪ Status ▪ Status of associated item ▪ Commissioning Location ▪ Registered ▪ Last Delivery Number (if the serial number is associated with either an outbound shipment or an inbound receipt) ▪ Product Recall Markets (if lot has been recalled) ▪ Market Withdrawal Markets (if product has been withdrawn) ▪ Crypto Key and Crypto Code (if using Russia Crypto Codes application)
Item information	<ul style="list-style-type: none"> ▪ Item's code ▪ Lot number ▪ Expiration Date ▪ Manufacturing Date ▪ Packaging level ▪ Reason Code ▪ Package Size/Spec ▪ Product Name ▪ Product Description ▪ Strength ▪ Dosage Form ▪ Country Drug Code ▪ Country Market Code ▪ Internal Material Number
Delivery information	<ul style="list-style-type: none"> ▪ Receipt Information ▪ Shipment Information

Serial Number Query Results	
Parent information	Provides a link to the item's parent so that you can access its serial number information.
Child information	Provides a link to the container's child so that you can access its serial number information.



Query a Serial Number

To query a serial number:

1. In Serialized Operations Manager, click **Queries** and click the [Get Serial Number Status](#) link.
2. Set **Show Data From** to the manufacturing site that provisioned the serial number of the products you're managing.
3. Enter the **Serial Number**.
4. Click **Search**.



Querying a Serial Number's History

Use SOM to display a table containing each event in the lifecycle of a serial number. The operation returns general information about the serial number and a list of events.

The [Get Serial Number History](#) operation provides the following general information about the serial number:

Serial Number History Results	
Serial Number Information	<ul style="list-style-type: none"> ▪ Encoding format ▪ Status ▪ Status of associated item ▪ Product Recall Markets (if lot has been recalled) ▪ Delivery Number link (if the serial number is associated with either an outbound shipment or an inbound receipt) ▪ Market Withdrawal Markets (if product has been withdrawn) ▪ Commissioning Location
Item Information	<ul style="list-style-type: none"> ▪ Item's code ▪ Lot number ▪ Manufacturing Date ▪ Expiration Date ▪ Packaging level ▪ Reason Code ▪ Package Size/Spec ▪ Product Name ▪ Product Description ▪ Strength ▪ Dosage Form ▪ Country Drug Code ▪ Country Market Code ▪ Internal Material Number

For each event, the [Get Serial Number History](#) operation provides the time the event occurred as well as the following information:

Event	Value	Description
Event	Serialization event	Possible values: Status Updated, Received, Shipped, Packed, Unpacked, Commissioned, Provisioned, Registered, and Repackaged.
Business Step	Business process step associated with serialization event	Possible values: destroying, receiving, shipping, packing, unpacking, commissioning, decommissioning, deactivating, reserving, unreserving, encoding, stocking, holding, picking, inspecting, registering, dispensing, disposing, and stock_taking.
Disposition	Serialization number status	Possible values: destroyed, received, in_transit, in_progress, active, inactive, reserved, unreserved, encoded, deactivated, sellable_accessible, blocked, not_started, stocking, holding, inspecting, dispensing, disposing, and stock_taking.
Business Location	Location GLN identifier / Location Name	Location where serialization event occurred.
Delivery Number	Delivery number of the associated shipment or receipt	Links to the corresponding shipment or receipt.
Transactions	Document corresponding to the serialization event	Business transactions include documents such as purchase orders.
Reason Code	List of codes assigned to the serial numbers during status update operations	Possible values: Damaged, Dispensed, Disposed, Expired, Misplaced, Recalled, Repackaged, Stolen, Sampled, Sampled by Authorities, and Withdrawn.
Update Type	Type of serial number update	Possible values: Product Status Update and Modifying Product Incorrect Status
Description	Reason description	The reason for the update, destroy, or decommission operation. If no value was entered, the row does not display.
From	Ship from address	The From row is included if the Event is Shipped or Received.
To	Ship to address	The To row is included if the Event is Shipped or Received.

Event	Value	Description
Distribution Type	Types of shipments and receipts	<p>The Distribution Type row is included if the Event is Shipped or Received.</p> <p>Shipment distribution types include:</p> <ul style="list-style-type: none"> ▪ Return - Export ▪ Return - In Country ▪ Sale - Export ▪ Sale - In Country ▪ Transfer - Export ▪ Transfer - In Country <p>Receipt distribution types include:</p> <ul style="list-style-type: none"> ▪ Purchase - Import ▪ Purchase - In Country ▪ Return - Import ▪ Return - In Country ▪ Transfer - Import ▪ Transfer – In Country
Parent Container	Package containing the item corresponding to the serial number. Displays for aggregate and disaggregate operations.	Displays the serial number status of the parent.
Performed By	First and last name and the system ID of the user.	Indicates the user and system that initiated the event. If no value was entered, the row does not display.



Request a Serial Number's History

To view the serial number's history:

1. In Serialized Operations Manager, click **Queries** and click the [Get Serial Number History](#) link.
2. Set **Show Data From** to the manufacturing site that provisioned the serial number of the products you're managing.
3. Click **Request Serial Number History**.
4. Enter the serial number in the pop-up box.
5. Click **Submit**.
6. Click **Search**.
7. Click the **File Name** of the Serial Number History you wish to view.
8. To download a CSV file containing a row for each event, click [Export Events to CSV](#).



View a Serial Number's History

You can query an item code and lot only if they have associated serialized items.

To view the serial number's history:

1. In Serialized Operations Manager, click **Queries** and click the [Get Serial Number History](#) link.
2. Set **Show Data From** to the manufacturing site that provisioned the serial number of the products you're managing.
3. Enter search criteria in the **Search Criteria** section.
4. Click **Search**.
5. Click the **File Name** of the Serial Number History you wish to view.
6. To download a CSV file containing a row for each event, click [Export Events to CSV](#).

Resources

You can access all the videos from this course, including a recorded session, on this page.

HOST Resource Center

For other administrator functions such as:

- Adding new users
- Connecting to wholesalers
- Troubleshooting

Contact HOST by emailing HOST@TraceLink.com.