

Smart Inventory Tracker Installation Qualification Document

Version 2024.7.0 | Revision 01

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Revision History

Revision Date	Revisions	Sections
09 Aug 2018	Original Version.	All
19 Nov 2018	Updates for 2018.6 and formatting.	All
03 Dec 2018	Updates for files and URLs.	All
18 Dec 2018	Added section for transferring files to device in one location.	8.1
06 Jan 2019	<ul style="list-style-type: none"> Formatted to match Technical Communications Style Guide. All content rewritten and reorganized for Technical Communications standards. Added Appendix section. 	All
24 Nov 2019	Updates for the Curie 6 release: <ul style="list-style-type: none"> Updated Prerequisites and Installation to include new process for installing the app. Added procedure for registering devices in the Web UI. Removed Generating the Certificates. 	<ul style="list-style-type: none"> Getting Started – Prerequisites Installation
23 Aug 2020	Updated for the Edison 3 release to include steps for enabling proxy communication on the device.	Install the APK and log in
27 Jan 2021	<ul style="list-style-type: none"> Removed row for Step 4 in the TraceLink configuration Software Completion Checklist for Windows users. Added rows for Step 10 and 11 in the Install the APK and log in Completion Checklist. 	<ul style="list-style-type: none"> TraceLink configuration Install the APK and log in
21 Feb 2021	Updates for the Turing 1 release: <ul style="list-style-type: none"> Added the following supported devices: <ul style="list-style-type: none"> Zebra MC9300 Zebra TC77 Handheld devices running the Android 10 operating system Smartphones running the Android 11 operation system 	Application Information
23 Nov 2022	Replaced the term Life Sciences Cloud with Track & Trace Services.	All
04 Feb 2023	<ul style="list-style-type: none"> Removed references to download the Environment configuration file. Removed Add Devices with Postman. Removed Generate the Certificates. 	All

Revision Date	Revisions	Sections
	<ul style="list-style-type: none"> Added procedure to install the app from the Google Play Store. 	
01 Sep 2023	<ul style="list-style-type: none"> Updated TraceLink-validated devices to Android version 13 operating system. Added the following supported devices: <ul style="list-style-type: none"> Honeywell CT60 Google Pixel 7 Samsung Galaxy Xcover Added a note for devices running on Android 8, 8.1, and 9.0 operating system. 	Application Information
06 Mar 2024	Added Android 10 in the list of unsupported Android operating system after March 2024.	Application Information
18 Apr 2024	Added Zebra MC9400 to the list of supported devices.	Application Information
25 Oct 2024	Added Android 14 in the list of supported Android operating system and Android 11 in the list of unsupported Android operating system.	Application Information
05 Nov 2024	Added Zebra TC53 to the list of supported devices.	Application Information

Getting Started

Document Purpose

This document defines the installation steps for the Smart Inventory Tracker (SIT) Android mobile application, which is one component of various TraceLink solutions.

After completing the installation, the Owner might need to configure the app further. See the *Functional Configuration Workbook* specific to the company, provided by the TraceLink Technical Consultant.



The terms Smart Inventory Tracker and SIT are used interchangeably across this document.

How to Use this Document

Installer name and initials

The Installer is the person performing the installation that verifies the outcome of each step by signing this document.


This person must understand HTTP Post software, Android File Transfer software, and basic Mac, Linux, or Windows commands and functions.

Installer Printed Name:	
Installer Initials:	

Best practices

- Fill out this document by hand and write in ink.
- Draw a single line through any mistakes, and then initial and date the mistake.
- Sign or initial each field as indicated in the document.
- Fill in data during installation, not after completion.
- Fill in all table cells in the Completion Checklists.
- If a step does not apply to the system or cannot be completed, check **N/A** or **No** and write a brief explanation in the **Notes** column.
- If the Installer deviates from an instruction specified in this document, note the adjustment and the reason for doing so in the Completion Checklist.
- If the Installer encounters an error during the installation (assembly, testing, or system shutdown), describe the error in the Completion Checklist.

Application Information

Item	Value
Application Name	Smart Inventory Tracker
Application Version	2024.7.0.0
Distribution Media	<ul style="list-style-type: none">Android Package Kits (APKs):<ul style="list-style-type: none">For handheld devicesFor smartphonesCertificate Generation ScriptGoogle Play Store
TraceLink-validated Devices	<p>The following devices are currently supported by TraceLink:</p> <ul style="list-style-type: none">Commercially available warehouse scanning devices leveraging an Android operating system (versions 12–14). Currently, the TraceLink-validated devices are:<ul style="list-style-type: none">Zebra MC3300, MC3300x, MC9300, MC9400, TC70x, TC72, TC77, TC8300, TC51, TC52, and TC53.Honeywell CT60, CN80, and CK65.Commercially available smartphones leveraging an Android operating system (versions 12–14). Currently, the TraceLink-validated devices are:<ul style="list-style-type: none">Google Pixel 2 and Pixel 7Samsung Galaxy S9 and Galaxy Xcover <div> Devices running on Android 8, 8.1, 9.0, 10, and 11 OS will no longer be supported with feature enhancements and bug fixes in the SIT app.</div>
Language	English

Prerequisites

TraceLink configuration

1. The company owns Smart Inventory Tracker, in addition to Serialized Operations Manager, Smart Event Manager, or both.
2. The company has configured internal locations. See the *Company Administration Online Help* for more information.
3. The internal locations are linked to Smart Inventory Tracker to configure location-specific options (optional). See the Management Online Help for more information.

Completion Checklist

Step	Completed?			Notes
1	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
2	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
3	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
Installer Initials:			Date:	

Software

For Mac / Linux users

1. Install **Postman Software** to register the device via REST API (optional). Download from <https://www.getpostman.com/apps>
2. Install **Android File Transfer Software**. Download from <https://www.android.com/filetransfer/>
3. Download the **Smart Inventory Tracker Android Package Kits (APKs)** from the *Devices* screen in the Company Administration Web UI. See the *Company Administration Online Help* for more information.

Completion Checklist

Step	Completed?			Notes
1	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
2	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
3	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
Installer Initials:			Date:	

For Windows users

1. Install **Postman Software** to register the device via REST API (optional). Download from <https://www.getpostman.com/apps>
2. Download the **Smart Inventory Tracker Android Package Kits (APKs)** from the *Devices* screen in the Company Administration Web UI. See the *Company Administration Online Help* for more information.

Completion Checklist

Step	Completed?			Notes
1	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
2	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
Installer Initials:			Date:	

Installation

Register Devices

Administrators, or users assigned a role with the Devices permission enabled, can register devices with TraceLink in the Company Administration Web UI.

Add devices with the Web UI

1. Go to **Company Administration > Devices**.
2. Select **Add Device**.
3. Fill in the fields with the information about the device. See the *Company Administration Online Help* for more information.

Completion Checklist


Step	Completed?			Notes
1	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
2	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
3	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
Installer Initials:			Date:	

Install the App

Install the Smart Inventory Tracker APK file from TraceLink or the SIT app from the Google Play Store on the device. After the SIT app or APK files are installed, appropriate Android settings are enabled, and the device's certificates are successfully retrieved, users can log in to Smart Inventory Tracker on the device.


Install the APK from TraceLink and log in

1. Connect the device to the computer with the USB cable and docking station.
2. *For devices communicating through proxy servers only:* Configure the proxy server for the device:
 - a. Open **Settings** on the device.
 - b. Select **Wi-Fi**.
 - c. Select and hold the Wi-Fi network the device is connected to.
 - d. Select **Modify network**.
 - e. Expand **Advanced options**.
 - f. Set **Proxy** to **Manual**.

 Smart Inventory Tracker does not support **Proxy Auto-Config**.

 - g. Enter the settings for the company's proxy server.
 - h. Select **Save**.
3. Allow the device to download apps from unknown sources:
 - a. Open **Settings**.
 - b. Select **Security**.
 - c. Under Device Administration, select **Unknown sources**.
4. *For Mac / Linux users:* Start the Android File Transfer program.
or

For Windows users: Enable the "Transfer File" feature on the device:

- a. Select **Tap for more options** in the notifications bar.
 - b. Select **Transfer File**.
 - c. On the computer, open the directory where the device certificates are saved.
 - d. Open a separate Windows Explorer window and navigate to the device's **Download** folder.
5. Copy the APK file (e.g. **Zebra-1.22.0-72.apk**) into the device's **Download** folder.
 6. On the device, navigate to the **Download** folder.
 7. Double-tap the APK file to install it on the device.
 8. Enable device storage for Smart Inventory Tracker:
 - a. Open **Settings** on the device.
 - b. Select **Apps**.
 - c. Select **Smart Inventory Tracker**.
 - d. Select **Permissions**.
 - e. Select the **Storage** toggle to enable it.
 - f. *For smartphone users only:* Select the **Camera** toggle to enable it.
 9. Go to all **Apps** on the device.
 10. Open the  **TraceLink** app.
When the app opens, the **Username** and **Password** fields, the **Environment** drop-down, the **Activation Code** field, as well as the **Retrieve Certificates** button, display.
 11. Enter the **Username** and **Password**, select the **Environment** from the drop-down, and enter the 8-character **Activation Code** to retrieve the device's certificates from Track & Trace Services.
If the retrieval of the device's certificates is successful, the standard login screen with only the **Username** and **Password** fields displays.
Any warehouse operator can now log in to use the device.



Administrator's login credentials are not required to retrieve the device's certificates or to log in to use the device. Users can contact their TraceLink Administrator to get the activation code of the device.

Completion Checklist

Step	Completed?			Notes
1	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
2	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
3	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
4	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
5	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
6	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
7	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
8	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
9	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
10	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
11	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
Installer Initials:			Date:	


Install the app from the Google Play Store and log in

- On your device, open the Google Play Store.
- Search for and install one of the following apps based on type of device and the environment:
 - SIT iTest: Zebra** – For Zebra handheld devices that communicate with the Track & Trace Services iTest environment directly.
 - SIT iTest (Proxy): Zebra** – For Zebra handheld devices that communicate with the Track & Trace Services iTest environment through a proxy server.
 - SIT Prod: Zebra** – For Zebra handheld devices that communicate with the Track & Trace Services Production environment directly.
 - SIT Prod (Proxy): Zebra** – For Zebra handheld devices that communicate with the Track & Trace Services Production environment through a proxy server.

- **SIT iTest: Honeywell** – For Honeywell handheld devices that communicate with the Track & Trace Services iTest environment directly.
- **SIT iTest (Proxy): Honeywell** – For Honeywell handheld devices that communicate with the Track & Trace Services iTest environment through a proxy server.
- **SIT Prod: Honeywell** – For Honeywell handheld devices that communicate with the Track & Trace Services Production environment directly.
- **SIT Prod (Proxy): Honeywell** – For Honeywell handheld devices that communicate with the Track & Trace Services Production environment through a proxy server.
- **SIT iTest: Smartphone** – For smartphone devices that communicate with the Track & Trace Services iTest environment directly.
- **SIT iTest (Proxy): Smartphone** – For smartphone devices that communicate with the Track & Trace Services iTest environment through a proxy server.
- **SIT Prod: Smartphone** – For smartphone devices that communicate with the Track & Trace Services Production environment directly.
- **SIT Prod (Proxy): Smartphone** – For smartphone devices that communicate with the Track & Trace Services Production environment through a proxy server.



Use double quotes at the beginning and end of the search string (e.g. "SIT iTest: Zebra", "SIT Prod: Smartphone").

3. Select the app to be installed.
4. Select **Install**.
5. After the app is installed on the device, open the  **TraceLink** app.
6. Enter the **Username** and **Password**.



Administrator's login credentials are not required.

7. Select the **Environment** from the drop-down:
 - For the SIT iTest app, select **iTest - EU** or **iTest - US**.
 - For the SIT Prod app, select **Production - EU** or **Production - US**.



The **Environment** field displays the first time the user logs into the SIT app to retrieve the device's certificates. If the retrieval of the device's certificates is successful, the standard login screen with only the **Username** and **Password** fields displays.

8. Enter the 8-character **Activation Code**.



Users can contact their TraceLink Administrator to get the activation code of the device. The **Activation Code** field displays the first time the user logs into the SIT app to retrieve the device's certificates. If the retrieval of the device's certificates is successful, the standard login screen with only the **Username** and **Password** fields displays.

9. Select **Retrieve Certificates**.

If the retrieval of the certificates for the device is successful, a dialog box opens with a confirmation message. Then, the login screen with the **Username** and **Password** fields display.

10. Enter the **Username** and **Password**.

Any warehouse operator can now log in to use the device.

Completion Checklist

Step	Completed?			Notes
1	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
2	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
3	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
4	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
5	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
6	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
7	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
8	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
9	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
10	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	
Installer Initials:			Date:	

Troubleshooting the installation

If the **Retrieve Certificates** button does not display, check the following:

1. Confirm the internet connection:
 - The device must be connected to the internet.
 - There must be a route from the WiFi gateway to the internet connection.
 - The internet connection's firewalls must allow the device to connect to the desired TraceLink Track & Trace Services environment.
2. Confirm that the **Storage** permission is enabled on the device for Smart Inventory Tracker. See [Install the App](#) for more information.

Appendix

Approvals

Pre-installation approvals

TraceLink consultants and representatives of the Smart Inventory Tracker Owner approve the Installation Qualification Document below.

Name	Company	Position/Title	Initials	Date	Signature
Reviewed by:					
	TraceLink	Technical Consultant			
	TraceLink	Functional Consultant			
		SME Serialization			
Approved by:					
		IT Lead			
Authorized by:					
		QA Lead			

Post-installation approvals

The person who performed the installation verifies that the installation is complete.

Installer					
Printed Name:		Signature:		Date:	
Accepted <input type="checkbox"/>		Accepted with deviations <input type="checkbox"/>		Re-test required <input type="checkbox"/>	

Installation Qualification (IQ) record approval

Representatives of the Smart Inventory Tracker Owner verifies that the installation is complete.

System Owner / Manager					
Printed Name:		Signature:		Date:	

Quality Review					
Printed Name:		Signature:		Date:	

Reference Documents

The following documents are supplementary resources to this Installation Qualification Document:

- *Company Administration Online Help*
- *Device Manager API Guide*
- *Functional Configuration Workbook* (provided by the TraceLink Technical Consultant)
- *Management Online Help*