

SIT Installation Qualification Document

Version 2025.1.0 | 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. | All |

| Revision Date | Revisions | Sections |
|---------------|---|-------------------------|
| | <ul style="list-style-type: none"> Removed Generate the Certificates. 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 | 2025.1.0.0 |
| Distribution Media | <ul style="list-style-type: none"> Android Package Kits (APKs): <ul style="list-style-type: none"> For handheld devices For smartphones Certificate Generation Script Google 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 7 Samsung Galaxy S9 and Galaxy Xcover <div>  <p>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.</p> </div> <p>To check for devices that may also be considered compatible with SIT app other than the currently supported devices, see the Additional Compatibility section.</p> |
| Language | English |

Additional Compatibility

Devices that match the following hardware specifications may also be considered compatible with SIT app.

| Models | Display | CPU | Scanning Technology | Camera |
|------------------------|--|--|--|---|
| Zebra MC Family | 4.0 - 4.3 inch; WVGA (800 x 480); LED backlight; color display | <ul style="list-style-type: none"> Qualcomm® APQ8056, 1.8GHz Hex-Core, 64-bit with power optimization Qualcomm Snapdragon™ 660 octa-core, 2.2 GHz | <ul style="list-style-type: none"> SE965 1D SE4750SR 2D SE4770 2D SE4720 SE4850 ERI SE4750 SE4850 SE4770 | <ul style="list-style-type: none"> Front: 5 MP Rear: 13 MP |
| Zebra TC Family | <ul style="list-style-type: none"> 4.0 in. diagonal; transfective LCD display; 16.7 million (24-bit) color support; 400 NITS 4.7 in. High Definition (1280 × 720) 5.0 in. High Definition (1280 × 720); 600 NITS 5.0 in. High Definition (1280 × 720) 6.0 in. Full High Definition (1080 × 2160); LED backlight; 600 NITS | <ul style="list-style-type: none"> Qualcomm 6490 octa-core, 2.7 GHz Qualcomm Snapdragon™ 660 octa-core, 2.2 GHz Snapdragon 650 64-bit hexa-core 1.8GHz ARM Cortex A72, power optimization 1.8 GHz hexa-core 64-bit processor | <ul style="list-style-type: none"> SE55 SE4720 SE4710 SE4770 SE4750 SE4750 DPM SE4850 | <ul style="list-style-type: none"> Front: 1.5 MP; 5MP; 8MP Rear: 13 MP; 16 MP |
| Honeywell | <ul style="list-style-type: none"> 106.7 mm (4.2 in) FWVGA (854 x 480) bright color LCD with backlight 10.16 cm (4 in) 480 x 800 bright color LCD with backlight 118 mm (4.7 in) High Definition (1280 x 720) bright color LCD with backlight | <ul style="list-style-type: none"> Qualcomm Snapdragon™ 660 octa-core, 2.2 GHz Qualcomm 64-bit Snapdragon octa-core 2.2 GHz | <ul style="list-style-type: none"> N6603 N6603ER EX20 N6703 N6803 S0703 | <ul style="list-style-type: none"> Rear: 13 MP |
| Google | <ul style="list-style-type: none"> 5.0 inches, 1080 x 1920 pixels, 16:9 ratio 6.3 inches, 96.7 cm, 1080 x 2400 pixels, 20:9 ratio | <ul style="list-style-type: none"> Qualcomm MSM8998 Snapdragon 835 (10 nm), Octa-core (4x2.35 GHz Kryo & 4x1.9 GHz Kryo) Octa-core (2x2.85 GHz Cortex-X1 & 2x2.35 GHz Cortex-A78 & 4x1.80 GHz Cortex-A55) GPU: Mali-G710 MP7 | N/A | <ul style="list-style-type: none"> Front: 8 MP; 10.8 MP Rear: 12.2 MP; 50 MP (wide), 12 MP (ultra-wide) |
| Samsung | 5.8 in - 6.3 in | <ul style="list-style-type: none"> Exynos 9611-9810, Octa-core, 4x1.8 GHz - 4x2.3 GHz (EMEA and USA) Qualcomm SDM845 Snapdragon 845 Octa-core | N/A | <ul style="list-style-type: none"> Front: 8MP - 12 MP Rear: 12MP - 25 MP |

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 SIT 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.

 SIT 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 SIT:
 - 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"/> | |


| Step | Completed? | | | Notes |
|---------------------|------------------------------|-----------------------------|------------------------------|-------|
| 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 |
|------|------------------------------|-----------------------------|------------------------------|-------|
| | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 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"/> | |

| Step | Completed? | | | Notes |
|---------------------|------------------------------|-----------------------------|------------------------------|-------|
| 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 SIT. See [Install the App](#) for more information.

Appendix

Approvals

Pre-installation approvals

TraceLink consultants and representatives of the SIT 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 SIT 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*