Knox E-FOTA On-Premises admin guide

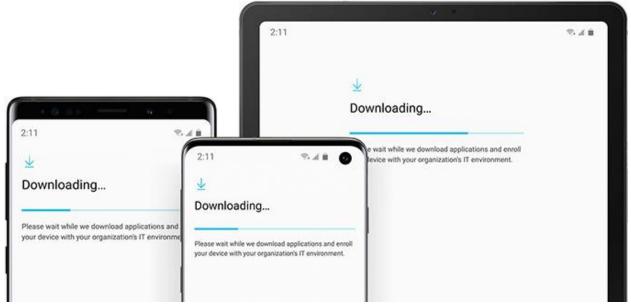
Knox E-FOTA On-Premises	4
Audience	4
Try the solution	4
About Knox E-FOTA On-Premises	4
Step 1 — Access the Knox E-FOTA On-Premises server	5
Prerequisites	5
Access the console	6
Tutorial progress	7
Step 2 — Add a license	7
Tutorial progress	8
Step 3 — Add devices	8
Tutorial progress	9
Step 4 — Enroll devices	9
Tutorial progress	10
Step 5 — Download and install the agent app	10
Update the Knox E-FOTA On-Premises agent app by uploading the package through the console	
Manually install the package	12
Install the client through your EMM	13
Download the agent app through a QR code	14
Tutorial progress	14
Step 6 — Prepare firmware	15
Download firmware	15
Upload firmware	15
Tutorial progress	16
Step 7 — Create and assign a campaign	16
Assign an existing campaign to devices	20
Tutorial progress	20
Manage campaigns	21
Manage devices	21
Update firmware through Ethernet	22
Use the Knox E-FOTA firmware downloader	23

Prerequisites	23
Download specific firmware versions	26
View the activity log	26
Settings overview	27
Add, edit, and delete users	28
Add a user	28
Edit a user	29
Delete a user	29
Manage firmware versions	29
Manage licenses	30
Manage workspaces	31
View the agent app version	33
Knox E-FOTA On-Premises portable	33
Prerequisites	34
Install and run Knox E-FOTA On-Premises portable	34
Knox E-FOTA On-Premises 21.06 release notes	34
Support for firmware updates through Ethernet connection	34
Knox E-FOTA On-Premises 21.09 release notes	35
Support for Redhat Enterprise Linux 8	35
Knox E-FOTA On-Premises 22.04 release notes	35
Updates to password hash algorithm	35
Password length configuration	35
Knox E-FOTA On-Premises 22.06 release notes	35
Support for Redhat Enterprise Linux (RHEL) 8.4	35
Knox E-FOTA On-Premises 22.09 release notes	36
Support for high-availability clusters on Ubuntu OS	36
Knox E-FOTA On-Premises 23.04 release notes	36
Improvements to the Knox E-FOTA firmware downloader	36
Support for a certificate password field in configuration file	36
Improvements to service performance	37
Enhancements to bulk device deletion	37
Enhancements to device tags	37
Knox E-FOTA On-Premises 23.12 release notes	37
Support for Red Hat Enterprise Linux 9.2	37
Support for Red Hat Enterprise Linux High Availability Add-on	37

Improvements to polling cycles of firmware versions	38
Tooltip for invalid firmware	38
Default server URL in the client app	38
Knox E-FOTA On-Premises 24.03 release notes	39
Hotfixes	39
Knox E-FOTA On-Premises 24.07 release notes	39
New	39
Updates	39
Knox E-FOTA On-Premises 24.12 release notes	40
New	40
Updates	41

Knox E-FOTA On-Premises

Knox E-FOTA On-Premises allows IT administrators to manage device firmware-overthe-air (FOTA) updates on their organization's network environment. With on-premises features that extend beyond its cloud counterpart, Knox E-FOTA On-Premises is a great FOTA management option for organizations that prioritize security and flexibility in their operations.



Audience

This document is intended for **IT admins**. Learn how to set up the Knox E-FOTA On-Premises web portal, manage firmware versions, and enroll devices.

Try the solution

This tutorial walks you through how to install the Knox E-FOTA On-Premises agent app, add a license, and add and enroll your devices.

About Knox E-FOTA On-Premises

This admin guide only discusses features unique to Knox E-FOTA On-Premises. For more information on general Knox E-FOTA features, see the Knox E-FOTA admin guide.

Key features

- **Multi-tenant support** If your organization has multiple business units, IT admins can work within their respective workspaces to avoid unwanted interactions between units.
- **Firmware testing** Use the Knox E-FOTA On-Premises console to track firmware versions, mark them as tested, or block them from being installed on devices.

• Knox E-FOTA On-Premises portable — Use Knox E-FOTA On-Premises on a portable device such as a laptop and bring it to your business sites. With this feature, you don't have to manage individual Knox E-FOTA On-Premises servers at each site.

Key benefits

Like Knox E-FOTA, Knox E-FOTA On-Premises provides these key benefits:

- Schedule updates Prevent business interruptions by configuring OS updates to install outside of business hours.
- Selectively update OS versions Choose a specific OS version to roll out to your devices to avoid potential interference with business app functions.
- Force update target devices Ensure devices are always up-to-date with the latest security updates, regardless of user input.
- No user interactions Update device software without requiring user action, streamlining the device management process.

How it works

Knox E-FOTA On-Premises is comprised of three parts:

- 1. The web portal
- 2. The client app
- 3. The organization's network infrastructure

These three components interface to perform FOTA management in a containerized environment, isolated from the cloud. IT admins can sign in to the web portal to enroll devices, create campaigns, update policies, and schedule firmware downloads — all from the safety of an organization's in-house infrastructure.

Step 1 — Access the Knox E-FOTA On-Premises server

Prerequisites

This tutorial assumes that you've already installed Knox E-FOTA On-Premises with the recommended hardware, software, and network configuration. Contact your local Samsung representative for more details about the installation process, or see Installation and upgrade guides.

Access the console

Console server URL

To access the Knox E-FOTA On-Premises console after installation, go to your server URL.

The URL takes the form of *access_scheme://access_address:access_port*/admin/. For example, http://192.168.1.52:6380/admin/.

If you don't know your server URL, contact your Samsung installation engineer.

Account ID and password

The default credentials for the console are:

Property Value Account ID admin Password admin12#

Make sure to change your password after you sign in for the first time.

SAMSUNG Knox E-FOTA			REGISTER LOGIN
a	dmin		
P	assword	©	
E	Inglish	•	
	SIGN IN		
	Remember ID		
	REGISTER		
	Convright© 2019-2020 S&MSUNG All Pichts Reserve	м	

For more details, see *5.1. How to access the admin console page after installing* in the installation guide for your environment.

Tutorial progress

You've completed 1 of 7 steps!

Step 2 — Add a license

After accessing the console, the next step is to add a license. You can generate a license file with your license key and your server's hardware serial number through the self-service Knox E-FOTA On-Premises Resources web page > Download License Files.

Important

License keys can't be reused once they've been used to generate a license file.

Use these commands to get the hardware serial number of your server machine:

On Windows Powershell:

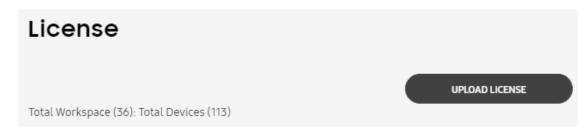
```
Get-WmiObject -class Win32_Bios | Out-String -stream | Select-String -Pat tern Serial
```

On Linux:

```
sudo dmidecode -t2 | grep Serial
```

Once you've prepared your generated license file, you can add the license:

- 1. In the Knox E-FOTA On-Premises console, click your account icon.
- 2. In the menu that's shown, click **Settings**.
- 3. The navigation sidebar pane refreshes with a new set of tabs. Click License.
- 4. Click UPLOAD LICENSE.



- 5. In the popup that's shown, click **BROWSER** to launch the file explorer, where you can locate your license file to upload. Select the file, then click **Open**.
- 6. Click **UPLOAD** to finish uploading the license.

The License screen then displays the details of your license.

Purchased 300	Assigned 113	Remaining 187	
License Key		Туре	
hZiLKQrl		POC	
Status	Start Date	End Date	
Active	2021-08-23	2022-08-24	

Refer to Manage licenses to learn more.

Tutorial progress

You've completed 2 of 7 steps!

Step 3 — Add devices

Next, it's time to add devices to the console, which you can do by uploading a CSV file. Adding devices without enrolling them doesn't immediately consume any license assignments.

Important

Each device you enroll consumes one license assignment.

To add devices to the Knox E-FOTA On-Premises console:

- 1. At the bottom of the navigation sidebar, click **Bulk Actions**.
- 2. Click Upload Devices.



UPLOAD DEVICES

- 3. Click **Download CSV template** and open the downloaded file.
- 4. In the first column, enter the IMEI/MEIDs or serial numbers of the devices you want to upload. Enter one IMEI/MEID or serial number per row.

Note

Don't include a header row, leave rows empty, or duplicate IMEIs, MEIDs, and serial numbers. Otherwise, your devices may not be added properly.

5. Save the file.

- 6. In the Knox E-FOTA On-Premises console, click **Browse** and select your CSV file.
- 7. (Optional) Auto-enroll or assign the devices to a campaign. If you skip this step, you can enroll and assign devices at any time.
- 8. (Optional) Apply tags from the CSV file you uploaded to the devices. You can add a maximum of 10 tags, and tags are case-sensitive.

STEP 2(OPTIONAL)	
ASSIGN CAMPAIGN	
Assign campaign (overwrite)	SELECT CAMPAIGN
MANAGE TAGS	JELEICAPITAISI
Apply tags from .csv file (overwrite)	

9. Click **Confirm**.

A message shows and confirms that the CSV file was uploaded. When your devices are verified and added to your inventory, they're added to the **Devices** tab with the status **Not enrolled**.

Tutorial progress

You've completed 3 of 7 steps!

Step 4 — Enroll devices

If you chose not to enroll devices when adding them in the previous step, you can do that now by selecting specific devices for enrollment through the device list. This action is only available for devices in the **Not enrolled** state.

To enroll your devices:

- 1. In the sidebar of your Knox E-FOTA On-Premises console, click **Devices**.
- 2. In the devices list, select the checkboxes next to the devices you want to enroll.
- 3. Click ACTIONS, then Enroll Devices.

ſ	Enroll Devices
R	Manage Device Tags
1	
¢	Delete Devices
ļ	Download Devices as CSV
Ĩ.	View Device Log
c	View Device Deletion Log

4. In the confirmation popup that appears, click **ENROLL**.

Enroll Devices	×
1 selected device(s) will be enrolled in E-FOTA system.	
Are you sure you want to enroll device(s)? The devices will consume license seats and firmware will be locked.	
CANCEL	

The next time the devices poll the server, they are then enrolled in Knox E-FOTA On-Premises, locking their firmware versions and consuming the corresponding number of license assignments.

Tutorial progress

You've completed 4 of 7 steps!

Step 5 — Download and install the agent app

Now it's time to install the Knox E-FOTA On-Premises agent app. Contact a Samsung technical support engineer to get new agent app versions.

There are four ways to install the agent app on your devices:

- Update the Knox E-FOTA On-Premises agent app by uploading the package through the console
- Manually install the package
- Install the client through your EMM

• Download the client through a QR code

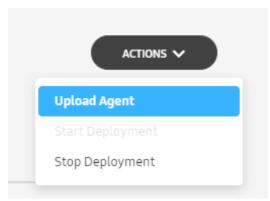
Update the Knox E-FOTA On-Premises agent app by uploading the package through the console

Important

Updating the Knox E-FOTA On-Premises agent app by uploading it to the console is only supported if the agent app is already installed and running on your devices.

If you want to update the existing agent app on your devices:

- 1. Sign in to the Knox E-FOTA On-Premises console. Make sure you're in the correct workspace by verifying its name in the top-right corner of the console.
- 2. Click your account icon, then click **Settings**.
- 3. The navigation pane refreshes with a new set of tabs. Click Agent.
- 4. Click ACTIONS > Upload Agent. A dialog opens and prompts you to upload a package.



5. Click **BROWSE** and select the package file on your computer. Then, click **UPLOAD**.

Select an agent file you want to upload

BROWSER
UPLOAD

The **Agent** screen refreshes with the new agent app information. Click **Actions** > **Start Deployment** to make your devices begin downloading and updating the new agent app.

Manually install the package

Alternatively, you can manually install the package on a device. This method is recommended if you want to test the agent app before deploying it to your full device fleet.

Before you begin, ensure you have the following prepared:

- A device capable of creating and copying a text file to a Samsung Galaxy device. For example, a computer, tablet, or phone.
- Your organization's Knox E-FOTA On-Premises server, connected to your local network.
- The TLS certificate .pem file used to connect to your Knox E-FOTA On-Premises server.
- A device secured by Samsung Knox, connected to your local network.

Create a configuration file

On the device you're using for text editing, you first need to create a file called efota_config. In a text editor of your choice, enter the URL of your on-premises server.

The on-premises server URL is defined by your organization and is used to access the Knox E-FOTA On-Premises console. The default server URL defined in the E-FOTA On-Premises agent app is http://192.168.10.10:8080/admin, but this URL can be customized in your efota_config file. If you're not sure what this URL is, contact the Samsung installation engineer who configured your Knox E-FOTA On-Premises server.

Important

If you specify a server URL in efota_config, the declared URL takes precedence over the default URL.

For example, the URL might be in one of the following formats:

- https://example-sec.fota.net:6443/admin/
- http://181.107.61.233:6380/admin/

Next, save the file. Ensure the file isn't saved with a file extension. Your efota_config file should look similar to this:

```
https://example-sec.fota.net:6443/admin/
```

Transfer the files to the device

Transfer the efota_config file and the TLS certificate .pem file to your device.

There are two ways to get these files on your device:

- Use your EMM to push the files to your device's Downloads folder, or
- Copy the files from your computer to the device's Downloads folder

If you're copying the file from your computer, connect the device to your computer through USB. In your computer's file explorer, locate the efota_config file and the TLS certificate file and copy it to your device's Downloads folder. Make sure the agent app APK you received from your local Samsung representative is also present in the Downloads folder.

Install the Knox E-FOTA On-Premises app

On the device, navigate to the Downloads folder and tap the agent app APK to install it. After it's installed, launch the app. The Knox E-FOTA On-Premises app loads the server URL from efota_config and the TLS certificate .pem file to connect to your on-premises server.

Install the client through your EMM

If you're using Knox E-FOTA On-Premises alongside an EMM, you can use your EMM to push the Knox E-FOTA On-Premises app to your devices.

Your local Samsung representative provides you with the APK for the Knox E-FOTA On-Premises app. Follow your EMM's documentation to add an internal app and push it to your fleet of devices.

The Knox E-FOTA On-Premises app supports a managed configuration, which lets you configure the URL and TLS certificate needed for the app to connect to your Knox E-FOTA On-Premises server. Follow your EMM's documentation on how to configure an app's managed configuration.

Test the managed configuration

You may want to test the Knox E-FOTA On-Premises app's managed configuration on individual devices before deploying it to your device fleet with your EMM. You can do this with Google's TestDPC to update managed configurations for apps on the device. Here is an example showing how to set an app's managed configuration with TestDPC.

- 1. Deploy and setup TestDPC on the device.
- 2. Open TestDPC, and tap on Managed configurations.
- 3. On the dropdown, select the Knox E-FOTA On-Premises app, and tap LOAD MANIFEST RESTRICTIONS. The app's managed configuration opens with fields to set the server URL and TLS certificate.
- 4. Tap on server_url and enter the URL for your Knox E-FOTA On-Premises server.
- 5. Tap on pem and paste the contents of your pem file with your TLS certificate information.
- 6. Tap **SAVE**.
- 7. Open the Knox E-FOTA On-Premises app and verify that the server URL is correct and the app is able to connect to your server.

For more information, please see Google's Android Managed Configuration Sample.

Download the agent app through a QR code

Important

Before you can download the agent app from Knox E-FOTA On-Premises to your devices, you must first upload the agent app to your Knox E-FOTA On-Premises server. You can do this on the agent page through the settings menu.

You can download the agent app onto your devices using a QR code:

- 1. From the settings menu, click Agent.
- 2. Click the package version to show the QR code.
- 3. Scan the QR code with your device to download the agent app.
- 4. On the device, navigate to the **Downloads** folder and tap the agent app APK to install it. If you encounter a warning, tap **OK** to install the app anyway.

The QR code is valid for 7 days. You can generate another QR code by refreshing the **Agent** page and clicking the package version again.

Tutorial progress

You've completed 5 of 7 steps!

Step 6 — Prepare firmware

Download firmware

Follow Use the Knox E-FOTA firmware downloader to download firmware for Knox E-FOTA On-Premises.

Upload firmware

To upload firmware to the Knox E-FOTA On-Premises server:

- 1. Click your account icon > **Settings**. The navigation pane refreshes with a new set of entries.
- 2. Go to Versions.
- 3. Click Actions > Upload Versions.

SAMSUNG Knox E-FOTA						72		▼ CQA Super A
Workspaces Users License	Versions	SM-G950F / XXV		• Q. Searc	h			ACTIONS V
Versions Agent								Upload Versions
	TYPE 🗸	OPEN DATE 👃	OS VERSION	SECURITY PATCH	FIRMWARE VERSION		TEST	Mark as Tested
	 user 	2020-07-30	Pie(Android 9)	2020-06-01	G950FXXU9DTF1/G9	50F0XM9DTF1/G950FXXU9DTF1		Add to Blocklist
	O user	2020-06-11	Pie(Android 9)	2020-05-01	G950FXXS9DTEA/G9	50F0XM9DTE1/G950FXXS9DTE1		Download Versions Scenario
Ľ	🔿 user	2020-04-13	Pie(Android 9)	2020-04-01	G950FXX58DTC6/G9	50F0XM8DTC1/G950FXX58DTC1		
	O user	2020-03-17	Pie(Android 9)	2020-03-01	G950FXXS8DTC1/G95	0F0XM8DTC1/G950FXXS8DTC1		
	🔘 user	2020-01-22	Pie(Android 9)	2020-01-01	G950FXXS6DTA1/G95	OFOXM6D5K9/G950FXXU6D5K5		
	O user	2019-12-30	Pie(Android 9)			50F0XM6DSK9/G950FXXU6DSK5		
	O user	2019-11-27	Pie(Android 9)			OFOXM5DSHC/G950FXXU5DSH3		
	Ouser	2019-09-22	Pie(Android 9)	2019-09-01	G950FXXS5DSI1/G95	0F0XM5DSHC/G950FXXU5DSH3		
							1 - 25 of 44 Sh	w 25 ▼ < 1 >

4. Under **Select path or directory** in the dialog, browse for the root folder of your downloaded BIN files to upload.

SAMSUNG Knox E-FOTA			<i>n</i>	* & DQA SuperA
Workspaces Users License	Versions			
Versions Agent	Model / Sales Code	Upload Versions X		TEST RESULT BLOCK LIST
	user	After you click Confirm, the firmware in the directory will be uploaded. FIRMWARE LOCATION Select path or directory with *.bin files and click Confirm.	OKUPOTE1	
K	O user	Select path or directory with ".bin files and Clock Confirm. Select path or directory BROWSER	OKSROTEL DKSROTC1	
	O user	0 items selected	2580101 00.40585	
	O user	un.oso	XXXIADSKS XXVSDSH3	
		2019-09-22 PietAndroid 93 2019-09-01 <u>GMADEXCSSDS11/0950F0XMSDSHC/X03</u>		
BULKACTIONS				Show 25 👻 🤇 1 🗦

- 5. Click **Confirm** to select the folder.
- 6. Click **Upload** to add the firmware to your Knox E-FOTA On-Premises server.

To learn more about how you can better organize and track firmware versions, see Manage firmware versions.

Tutorial progress

You've completed 6 of 7 steps!

Step 7 — Create and assign a campaign

Now you can create and assign a campaign to target devices.

- 1. Sign in to your Knox E-FOTA On-Premises server.
- 2. Go to Campaigns and then click Create Campaign.

SAMSUNG Knox E-FOTA	thuy2910 💌 🙎 DQA Super A
Dashboard Devices	Campaigns
Campaigns Vérsións	

- 3. Fill in your **Basic info**:
 - a. Enter a unique name for the campaign and a description of what the campaign is for.

BASIC INFO

Campaign name*

Enter campaign name

Description

Enter campaign description	
	0/200

- b. Click **NEXT**.
- 4. Fill in your **Target firmware**:
 - a. Select the model and sales code corresponding to the target devices. Under **FIRMWARE VERSION**, select one of the following options:

Firmware version	Description
Latest firmware	Automatically push the latest firmware version to the corresponding devices.
Lock current firmware	Keep the current firmware version.
Select from firmware list	Select a firmware version to push to the corresponding devices.

- b. Select the target firmware on the next page and click **SELECT**. The campaign page opens.
- c. Click **ADD ANOTHER ROW** and repeat this step to assign as many firmware versions to the campaign as needed.

TARGET FIRMWAR	E							
MODEL	SALES CO	DE	FIRMWARE VERSION		OS VERSION	SECURITY PATCH	DEVICES	
SM-5950F 👻	XEU	٣	Latest firmware	*		-	0	Û
ADD ANOTHER ROW			Latest firmware Latest firmware (Tested) Lock current firmware					
			Select from firmware list					

- d. Click NEXT.
- 5. Fill in your **Policy**:
 - a. Configure your Network and speed:

Field	Description
Download network	Select which networks devices can use to download firmware.
	 Wi-Fi only — Only download firmware over Wi-Fi. Any (Wi-Fi or Mobile) — Allow firmware downloads over Wi-Fi and mobile networks. This option also allows downloads over VPNs and private networks. To allow firmware downloads while roaming, select Allow download while roaming.
	NETWORK AND SPEED
	Download network Wi-Fi only Any (Wi-Fi or Mobile) Allow download while roaming
Max bandwidth	Allocate a maximum bandwidth per device for firmware downloads in MBit/s, where 0 MBit/s represents unlimited bandwidth.

b. Configure your **Device condition**. Specify how much battery charge a device must have before it can begin installing the update. You can also prevent firmware installation on devices that aren't connected to a charging dock.

DEVICE CONDITION

Battery level for installation

Above	30%				*

Allow installation only when connected to charging dock

c. Configure **Postpone installation** if you want to allow the device user to postpone the installation. Set the maximum number of times they're allowed to postpone the installation before any pending firmware begins installing.

POSTPONE INSTALLATION

each tin		Postpone count is reduced DTA server. If this option is preed
	0	times

- d. Click **NEXT** once you've configured all the policy settings.
- 6. Fill in your **Schedule**:

Field	Description
Campaign period	Set the dates when devices in the campaign can start to download and install the update.
Repeat on weekdays	Set the days of the week you want firmware updates to occur.
Installation hours	Set the timeframe within the campaign period when the devices in the campaign can start installing the update. This timeframe is based on the device's timezone.
	If you want firmware updates to install at any time of the day, set the firmware installation period to identical values:
	 From — 00 To — 00
	Devices will start installation during this period, but there's no guarantee that installation will end within this period.
Download hours	Set the timeframe within the campaign period when the devices in the campaign can start downloading the firmware. You can allow downloads to occur at one of the following periods:
	 Same as installation hours: Set the firmware download period to be the same as the firmware installation period. Anytime — Allow firmware downloads at any time. Specific hours — Set the firmware download period to be different from the firmware installation period.

SCHEDULE

Repeat Sun Installa	on wee Mon	kdays Tue	Wed	Thu	Fri	Sat
Sun	Mon	Tue		Thu	Fri	Sat
•				Thu	Fri	Sat
_	•	V	-			
Installa			× .	¥.	V	v
From		То				
00	*	0	0	*		
Downlo	ad hou	rs				
Sam	e as ins	stallatio	n hours			
O Any	time					
	at a los	urs				
O Spev	cific ho					

7. Click **CREATE**. The console creates the campaign and adds it to the **Campaigns** list. A notification confirms that the operation completed.

Assign an existing campaign to devices

To assign an existing campaign to devices:

- 1. Go to Devices.
- 2. Select the devices you want to assign.
- 3. Click ACTIONS > Assign Campaign.
- 4. Select a running campaign to assign the devices to.
- 5. Click ASSIGN.

Tutorial progress

Congratulations, you've completed the tutorial! You're now set up to use Knox E-FOTA On-Premises.

Manage campaigns

The campaigns in Knox E-FOTA On-Premises have the same functionality as the campaigns in Knox E-FOTA.

To view your campaigns:

- 1. Sign in to the Knox E-FOTA On-Premises console. Ensure you're in the correct workspace by verifying the workspace name in the upper-right corner of the console.
- 2. In the left sidebar, click **Campaigns**.

A list of campaigns is displayed with their statuses, assigned devices, repeat frequency, start and end dates, and last modified date. Click a campaign name to view its details or modify it.

If there are no available campaigns, click **CREATE CAMPAIGN** in the upper-right corner to create one.

Тір

See Step 7 — Create and assign a campaign for detailed instructions on how to create a campaign.

Select a campaign and click the **ACTIONS** menu to access the following features:

Action	Description
Activate Campaign	Activates the campaign if it has been deactivated, and starts the firmware rollout.
Deactivate Campaign	Deactivates the campaign if it's currently active, and stops the firmware rollout.
Modify Campaign	Allows you to change the configured campaign policies, including the target firmware and campaign period.
Delete Campaign	Deletes the selected campaign.

Manage devices

Like Knox E-FOTA, Knox E-FOTA On-Premises lets you manage devices directly from the console.

To view the device list:

1. Sign in to the Knox E-FOTA On-Premises console. Ensure you're in the correct workspace by verifying the workspace name in the upper-right corner of the console.

2. Go to **Devices**.

A device list opens with the following information:

Field	Description
DEVICE	The IMEI/MEID or serial number of the device.
ENROLLMENT	The enrollment status of the device, which can be one of the following:
	 Enrollment pending Enrolled Unenrollment pending Not enrolled
SALES CODE	The country-specific code, or CSC, of the device.
FIRMWARE VERSION	The OS version the device is currently running. Hover over the version to display the full name.
CAMPAIGN	The Knox E-FOTA On-Premises campaign the device is currently assigned to. Hover over the campaign name to display the full name in a tooltip.
UPDATE STATUS	The download and installation status of the new firmware.
MODIFIED	The date the device information was last modified.
SOURCE	The method through which the device was uploaded.

Тір

See Manage devices in the Knox E-FOTA admin guide for descriptions of device actions and statuses.

Update firmware through Ethernet

With Knox E-FOTA On-Premises, you can also update the OS version of a device through a USB Ethernet connection. To do so, ensure you have:

- 1. A network connection
- 2. A LAN cable
- 3. A USB-C Ethernet adapter

First, you need to set up your campaign to support the Ethernet connection:

- 1. Sign in to the Knox E-FOTA On-Premises admin portal. Ensure you're in the correct workspace by verifying the workspace name in the upper-right corner of the console.
- 2. Go to **Campaigns** and create a new campaign or modify an existing one.
- 3. On the **Create campaign** or **Modify campaign** screen, in the **POLICY** tab and under **Download network**, select **Any (Wi-Fi or Mobile)**.
- 4. If creating a new campaign, click **CREATE**, or if you're modifying an existing one, click **UPDATE**.

After the device receives the new campaign details, do as follows:

- 1. Connect the LAN cable to the Wi-Fi access point and the USB-C Ethernet adapter.
- 2. Plug the USB-C Ethernet adapter in to the device.

A notification appears on the device confirming the Ethernet connection, and it can now download and install the OS update according to the campaign policy.

Use the Knox E-FOTA firmware downloader

To help you manage firmware versions, Knox E-FOTA On-Premises supports a firmware downloader that allows you to select and download firmware versions of your choice.

The Knox E-FOTA firmware downloader uses two JSON files — a scenario JSON file, which contains a list of the firmware versions currently hosted on your Knox E-FOTA On-Premises server, and an input JSON file, which contains a list of target firmware versions you can then import into your server. You need both these files to download select firmware versions.

Prerequisites

Before you can start using the Knox E-FOTA firmware downloader, you first need to:

- 1. Export a scenario JSON file from the Knox E-FOTA On-Premises console
- 2. Get the firmware downloader
- 3. Get an input JSON file from the Knox Admin Portal

If your PC is behind a proxy server, you also need to enter the proxy server host IP and proxy server port later.

Export a scenario JSON file

If you've just installed Knox E-FOTA On-Premises, make sure your devices are successfully enrolled before following these steps. Otherwise, you won't be able to export the proper firmware version information.

To get a scenario JSON file:

- 1. On the Knox E-FOTA On-Premises console, click Versions.
- 2. On the Versions page, click ACTIONS > Download Versions Scenario.

Dashboard			
Devices			
Campaigns Versions Model / Sales Code SM-A520F / C	2U 🔹 🔍 S	earch	Actions 🗸
ActivityLog TYPE ✓ OPEN DATE	↓↑ OS VERSION SECURITY PAT	CH FIRMWARE VERSION	Upload Versions TEST RE Mark as Tested Unmark from Tested
O user 2020-06-01	Oreo(Android 2020-05-01 8.0.0)	A520FXXUECTDA/A520F02UECTD6/A520FXXUECTDA	
O user 2020-03-06	Oreo(Android 2020-02-01 8.0.0)	A520FXXUDCTB1/A520F02UDCTB1/A520FXXUDCTB1	Remove from Blocklist Download Versions Scenario

The scenario JSON file begins downloading to your PC.

Get the firmware downloader

To get the Knox E-FOTA firmware downloader:

- 1. Sign in to the Knox Admin Portal.
- 2. On the Knox Admin Portal homepage, under Knox E-FOTA On-Premises, click **Get** started.
- 3. On the page that opens, click **Download Firmware Files**.
- 4. Enter your Knox E-FOTA On-Premises license key, then click CONTINUE.
- 5. Next to the firmware downloader tooltip, click **DOWNLOAD HERE**.

DOWNLOAD FIRMWARE FILES	5	
rai-ujooq4		
ader? DOWNLOAD HERE	CHANGE LI	GENERATE REQUEST
LE STATUS	EXPIRATION	FIRMWARE ①
• Complete	MM/DD/YYYY	DOWNLOAD
Complete	MM/DD/YYYY	DOWNLOAD 生
	ader? DOWNLOAD HERE 🛃	ader? DOWNLOAD HERE

After the firmware downloader is saved to your PC, open it.

Get an input JSON file

Before following these steps, make sure you exported the scenario JSON file. The input JSON file also requires the scenario JSON file so that the firmware delivery servers can prepare the corresponding firmware versions for your devices.

To download the input JSON file:

← Back to Knox E-FOTA On-Premises Resources

- 1. Sign in to the Knox Admin Portal.
- 2. On the Knox Admin Portal homepage, under Knox E-FOTA On-Premises, click **Get started**.
- 3. Click Download Firmware Files.
- 4. Enter your Knox E-FOTA On-Premises license key, then click **CONTINUE**.
- 5. A page is shown with your license key. Click **GENERATE REQUEST**.

EFOTA1-UJOOQ4

 Looking for Knox E-FOTA On-Pre 	mises Firmware Downloader? DOWNLOAD HERE ال	5	CHANGE LICENSE K	GENERATE REQUEST
REQUEST DATE	SCENARIO JSON FILE	STATUS	EXPIRATION	FIRMWARE ()
MM/DD/YYYY	filename3.json	Complete	MM/DD/YYYY	DOWNLOAD
MM/DD/YYYY	filename2.json	• Complete	MM/DD/YYYY	DOWNLOAD
MM/DD/YYYY	filename4.json	• Complete	MM/DD/YYYY	DOWNLOAD
*Eirmware remusts expire 14 days after you submit your remust				

6. In the dialog that opens, click **BROWSE** and select the scenario JSON file.

7. Click **GENERATE REQUEST**.

The console notifies you that your request was successfully submitted, and the input JSON file is ready for download after your request is completed.

Download specific firmware versions

The following steps assume the prerequisites outlined previously are met.

To download specific firmware versions using the Knox E-FOTA firmware downloader:

- 1. Launch the Knox E-FOTA firmware downloader.
- 2. Under input.json, click **Browse** and select the input JSON file you downloaded from the Knox Admin Portal.
- 3. Under Target firmware, click SELECT FIRMWARE.
- 4. A dialog opens with the firmware list specified by the input JSON file. Select the firmware versions you want to host in Knox E-FOTA On-Premises, then click **SELECT**.
- 5. Under scenario.json, click **Browse** and select the scenario JSON file you exported from the Knox E-FOTA On-Premises console.
- 6. Under Origin firmware, click SELECT FIRMWARE.
- 7. A dialog opens with the firmware list specified by the scenario JSON file. Select a firmware version equal to or lower than the lowest firmware version that your devices are running.
- 8. Under **Save directory**, click **Browse** to choose a location for your firmware download.
- 9. (Optional) If your PC is behind a proxy server, enter the Proxy host and Proxy port.
- 10. Click DOWNLOAD.

The target firmware versions are then downloaded to the location you selected, and can be imported to your Knox E-FOTA On-Premises server.

View the activity log

The activity log displays a list of activities that were performed in the admin portal. Use these logged events to troubleshoot issues and track user actions.

To view the activity log:

- 1. Log in to the Knox E-FOTA On-Premises admin portal. Ensure you're in the correct workspace by verifying the workspace name in the upper-right corner of the console.
- 2. In the navigation sidebar, click **Activity Log**.
- 3. Filter the list as needed by doing any of the following:
 - a. Click Show all and select Last 7 days or Last 30 days.
 - b. Filter the activity log by **Name** (of the admin), **Category**, **Event**, or a combination of those.
 - c. Sort the list by **Date**.
 - d. Enter a keyword in the search bar.
- To download the full activity log, click **DOWNLOAD AS CSV** in the upper-right corner of the screen.

Settings overview

While Knox E-FOTA On-Premises has a similar feature set to its cloud counterpart, Knox E-FOTA, certain functionalities are extended to accommodate on-premises setups. These features are located in a separate menu on the Knox E-FOTA On-Premises console.

Note

Only super admins can access the **Settings** menu with the on-premises features.

To navigate to the Knox E-FOTA On-Premises **Settings** menu:

- 1. Sign in to the Knox E-FOTA On-Premises console.
- 2. Click your account icon.
- 3. In the menu that's shown, click **Settings**.

The console view updates to show a new sidebar with the following features exclusive to super admins:

Feature	Description
Workspaces	Manage separate consoles within one Knox E-FOTA On-Premises instance.
Users	View and edit user roles and information.
License	Upload licenses and view their information.
Versions	Upload and view firmware versions.
Agent	Manage Knox E-FOTA On-Premises agent app versions.

To return to the main console view, click the **Knox E-FOTA** logo in the top-left corner of the console.

Add, edit, and delete users

With Knox E-FOTA On-Premises, super admin can manage users and their roles directly from the admin portal.

To access the users list:

- 1. Sign in to the Knox E-FOTA On-Premises console.
- 2. Click your account icon.
- 3. In the menu that's shown, click **Settings**.
- 4. The navigation sidebar pane refreshes with a new set of tabs. Click Users.

The users list is then displayed, which includes the name, ID, role, status, and join date of each user.

Add a user

- 1. On the **Users** screen, click **ACTIONS** > **Add User**.
- 2. A popup is shown, prompting you to enter the user's details. Fill in the required fields as shown, then click **SAVE**.

ID *		
testadmin@test.org		
Name*		
Test Admin		
Password*		
•••••		
n I +		
Role*		-
Admin		-
Admin Status		-
Admin Status		
Admin Status		~

After saving, the new user is added to the list. The user's role, assigned password and status can be changed at a later date.

Edit a user

- 1. On the Users screen, select the checkbox next to the user you want to modify.
- 2. Click ACTIONS > Edit User.
- 3. Select one of the available options:

Action	Description
APPROVE	If the user's status is Pending , click APPROVE to change their status to Active and grant them console access.
PASSWORD MODIFY	Set a new password for the user. Depending on how your Knox E-FOTA On-Premises instance is configured, a password length policy may apply. By default, the minimum length for a password is 8 characters, and the maximum length is 12.
EDIT	Change the user's name, role, status, or time zone.

Delete a user

- 1. On the **Users** screen, select the user you want to delete.
- 2. Click ACTIONS > Delete User.
- 3. In the confirmation popup that appears, click **PROCEED**.

The user is then removed from the list and can no longer access the Knox E-FOTA On-Premises instance.

Manage firmware versions

To better organize and track firmware versions, Knox E-FOTA On-Premises includes a versions list that allows you to record firmware test results and block certain versions.

To view the versions list:

- 1. Sign in to the Knox E-FOTA On-Premises console.
- 2. Click your account icon.
- 3. In the menu that's shown, click **Settings**.
- 4. The navigation pane refreshes with a new set of entries. Click Versions.

The version list is then displayed with the following information:

Field	Description
TYPE	Indicates whether the firmware is intended for deployment on devices (user), or for testing (dummy). See Create a test campaign for more details.
OPEN DATE	The date the firmware version was publicly released.

Field	Description
OS VERSION	The Android version that corresponds to the firmware version.
SECURITY PATCH	The date the security patch was publicly released.
FIRMWARE VERSION	The full name of the firmware version. Click the name to view the firmware details, which includes a description and specific device information.

Above the list, you can filter by device **Model / Sales Code** or search by firmware version ID to quickly identify the firmware versions you need.

Click the **ACTIONS** menu to access more features:

Field	Description
Upload Versions	Select and upload new firmware versions from your PC.
Mark as Tested	Adds an icon to the TEST RESULT column to indicate that the firmware version was successfully tested for compatibility with business apps. When creating a campaign, selecting Latest firmware (Tested) as the target version allows you to update the latest tested firmware version from the Versions menu without modifying the campaign settings.
Unmark from Tested	Removes the icon from the TEST RESULT column.
Add to Blocklist	Locks the firmware version, preventing it from being downloaded and installed on devices.
Remove from Blocklist	Unlocks the firmware version and allows it to be downloaded and installed on devices again.
Download Versions Scenario	Downloads a JSON file that contains device version scenario information, including a list of changes between the current firmware version and the target version.

Manage licenses

Knox E-FOTA On-Premises uses special licenses that can be obtained through the corresponding self-service **Resources** page. For steps on how to generate and add a license, see Step 2 - Add a license in the **Get started** tutorial.

To view your license information:

- 1. Sign in to the Knox E-FOTA On-Premises console.
- 2. Click your account icon.
- 3. In the menu that's shown, click **Settings**.
- 4. The navigation sidebar refreshes with a new set of tabs. Click License.

The **License** page is displayed, with a list of the total workspaces and devices. As one license services all the workspaces within your Knox E-FOTA On-Premises instance, you can review this list to see how your license seats are distributed.

Underneath the workspace list, the Knox E-FOTA On-Premises license information is shown:

Field	Description
Purchased	The total number of seats on your license.
Assigned	The number of seats currently consumed by devices.
Remaining	The number of seats available to be consumed by devices.

Your license key, its type, status, start date and expiry date are listed below the seat counts. You can also view your license expiration date in the welcome message on your **Dashboard**.

Important

To prevent unexpected workflow issues, please renew or extend your license before its expiry date. If your license expires:

- You can still sign in to the console and view or retrieve information, but you won't be able to perform any campaign-related actions.
- You can still delete and unenroll devices from the console. If you unenroll a device, it reconnects to the B2C FOTA server and continues to receive regular firmware updates.

Manage workspaces

Unique to Knox E-FOTA On-Premises, workspaces allow larger organizations to divide their teams or business units into separate consoles. You can easily switch between workspaces using the dropdown menu to the left of your username.



As a super admin, you can view and manage a list of your organization's workspaces:

- 1. Sign in to the Knox E-FOTA On-Premises console.
- 2. Click your account icon.
- 3. In the menu that's shown, click **Settings**.
- 4. The left sidebar refreshes with a new set of tabs. Click **Workspaces**.

The following workspace actions are also available to you through the **ACTIONS** menu:

Action	Description
Add Workspace	Select this option to launch a popup where you can enter the name and description for a new workspace. Click Save to confirm.
	Add Workspace X
	Test
	DESCRIPTION A test workspace
	CANCEL
Assign Users	Select the checkbox next to a workspace in the list to enable this option in the menu. A dialog opens with a list of all users in the Knox E-FOTA On-Premises instance, across all workspaces.
	Assign Users
	Q
	Select the checkboxes next to the users you want to assign to the workspace, then click ASSIGN .
Modify Workspace	Opens a dialog that allows you to edit the workspace name and description.
Delete Workspace	Select this option and click Delete in the confirmation popup to delete a workspace.
Download Workspace as CSV	Downloads a CSV file with the information of the selected workspaces.

View the agent app version

The **Agent** tab provides an overview of the Knox E-FOTA On-Premises package version, or agent, that is to be or is currently deployed to your devices.

This screen displays the following details:

Description
The deployment status of the agent, either Started or Stopped .
The version number of the agent.
The full name of the agent.
The date the agent version was made publicly available.

Click the **Actions** menu to view more options:

Action	Description
Upload Agent	Opens a popup to upload an agent file. Click BROWSER to launch your PC's file explorer and select the file. Then, click UPLOAD .
	Upload Agent ×
	Select an agent file you want to upload
	BROWSER
	UPLOAD
	The Agent screen is then refreshed with the new agent information.
Start Deployment	Prompts the devices to start downloading and installing the agent the next time they poll for updates.
Stop Deployment	Stops the devices from downloading and installing the current agent version.

Knox E-FOTA On-Premises portable

Knox E-FOTA On-Premises provides a portable solution, which allows you to install Knox E-FOTA On-Premises on a laptop and bring it to your business sites. With this solution, you don't have to install and maintain Knox E-FOTA On-Premises servers at each site.

You can use one server to manage firmware for your entire device fleet, which may span across multiple business sites.

Currently, Knox E-FOTA On-Premises portable is only available as a Windows Hyper-V virtual machine package.

Prerequisites

- Enable Hyper-V
 - a. Windows 10
 - b. Windows 11
- Set up a network interface with IP address 192.168.10.10 on your laptop. This address should be accessible to your fleet of devices to download firmware updates.

Install and run Knox E-FOTA On-Premises portable

- 1. Download the compressed Knox E-FOTA On-Premises portable Hyper-V image and the support files.
- 2. From the support files, decompress the Knox E-FOTA licenseApp_pkg_win.zip file and run the Knox E-FOTA licenseApp reg.bat file as an administrator to install the license service.
- 3. From the support files, run the Knox E-FOTA Portable NW reg.bat file as an administrator to configure network settings.
- 4. Decompress the Hyper-V virtual machine image.
- 5. Import the virtual machine using Hyper-V Manager.
- 6. Run the virtual machine.

You can now access your Knox E-FOTA On-Premises portable server through its URL:

http://192.168.10.10:8080/admin

This URL is configured in Knox E-FOTA Portable NW reg.bat.

Knox E-FOTA On-Premises 21.06 release notes

Support for firmware updates through Ethernet connection

This Knox E-FOTA On-Premises release adds a new feature that allows IT admins to update the firmware of devices through a USB Ethernet connection. This feature requires the use of a LAN cable and a USB-C Ethernet adapter.

See Update firmware through Ethernet for more details.

Knox E-FOTA On-Premises 21.09 release notes

Support for Redhat Enterprise Linux 8

This Knox E-FOTA On-Premises release adds support for Redhat Enterprise Linux (RHEL) 8. This allows a wider range of support for RHEL from version 8 onwards. RHEL 8 offers container tools to support containerized applications, and also provides compatibility across new hardware architectures and environments.

Knox E-FOTA On-Premises 22.04 release notes

Updates to password hash algorithm

Previously, Knox E-FOTA On-Premises used the bcrypt password hash algorithm.

Starting with this release, passwords are now hashed with the PBKDF2 algorithm to offer more flexible password security measures for high-security enterprises.

Benefits of the PBKDF2 algorithm include:

- Longer salt length and key length 128 bits or higher
- Higher key iteration count 10,000 or higher
- Lightweight pseudorandom function (PRF) HMAC-SHA256 or HMAC-SHA512

Password length configuration

To comply with enterprise security regulations, Samsung installation engineers can now set a minimum and maximum length for user passwords. By default, the minimum password length is set to 8 characters, and the maximum is set to 12. The minimum password length that an installation engineer can set is 8-20 characters. The maximum length can be 12-30 characters.

Important

Existing user passwords are not affected by this change. However, when an old password is updated, the new password must conform to the current policy.

Knox E-FOTA On-Premises 22.06 release notes

Support for Redhat Enterprise Linux (RHEL) 8.4

Previously, the Knox E-FOTA On-Premises installation package only supported RHEL 8.3. The RHEL 8.3 installation ISO image has since been removed from the project's official download center.

With this release, the Knox E-FOTA On-Premises installation package now supports RHEL 8.4.

Knox E-FOTA On-Premises 22.09 release notes

Support for high-availability clusters on Ubuntu OS

With the 3Q 2022 release, Knox E-FOTA On-Premises for the Ubuntu platform now supports high-availability (HA) clusters. Current Ubuntu installations of Knox E-FOTA On-Premises can be upgraded to enable HA support.

Important

Only the Ubuntu installation package supports HA.

For the latest installation and upgrade guides, refer to Knox E-FOTA On-Premises installation and upgrade guides.

Knox E-FOTA On-Premises 23.04 release notes

Version Release date 1.0.1.6 April 28, 2023

Improvements to the Knox E-FOTA firmware downloader

To reduce the number of firmware versions you need to download for your on-premises server, the Knox E-FOTA firmware downloader now allows you to select target firmware versions to download for your on-premises server.

The latest list of available firmware versions can be obtained as a input.json file from the Knox Admin Portal homepage. You can browse for this file in the firmware downloader, as well as a scenario.json file containing the current firmware versions of your enrolled devices.

After uploading these two files, you can then select specific firmware versions for download. Note that if your PC is behind a proxy server, you also need to enter your proxy server host IP and port before you can download the firmware.

Support for a certificate password field in configuration file

The Knox E-FOTA On-Premises agent now allows you to input required passwords through an additional field in the efota_config file. If you're familiar with the Android API, you can also add an Android intent listener to define the password.

See Step 5 — Download and install the agent app for more details.

Improvements to service performance

Starting with the 23.04 release, Knox E-FOTA On-Premises now automatically evenly polls device groups for updates. If you allocated a maximum bandwidth per device in the campaign policy, the agent ensures it meets the download speed limit by stopping and starting the firmware download as needed.

Enhancements to bulk device deletion

Previously, Knox E-FOTA On-Premises didn't require additional confirmation from you when bulk deleting devices.

With the 23.04 release, when you delete devices in bulk, a dialog asks you to confirm before the operation begins.

Enhancements to device tags

Prior to the 23.04 release, Knox E-FOTA On-Premises only supported device tags up to 10 characters long. When the maximum device tag length was reached, no error message would display in the console.

To allow for easier differentiation between devices, device tags up to 45 characters long are now supported. Tag limitations are also dynamically shown as you enter the device tag — for example, an error message notifies you when you enter a tag 46 characters long.

Knox E-FOTA On-Premises 23.12 release notes

Version Release date

1.0.1.7 December 14, 2023

Support for Red Hat Enterprise Linux 9.2

Starting with the 23.12 release, Knox E-FOTA On-Premises now supports Red Hat Enterprise Linux 9.2 in addition to 8.4.

Support for Red Hat Enterprise Linux High Availability Add-on

Knox E-FOTA On-Premises previously only supported high availability technologies on Ubuntu. Additionally, high availability technologies were only supported with an application layer through dfm-core and dfm-console.

Starting with the 23.12 release, Red Hat Enterprise Linux High Availability Add-on is now fully supported with HAProxy, DB, and minIO storage servers. The full-stack High Availability Add-on is also supported.

Improvements to polling cycles of firmware versions

Before the 23.12 release, you had to wait for the next polling cycle — configured to either every hour or every 24 hours — before the device could proceed to the next step in a campaign.

To help you deploy firmware at a shorter cadence, the waiting time between steps can now be configured. Updates now shorten previously established polling cycles and instead update whenever available.

During sequential updates, devices also reboot and update accordingly. For the first installation of a sequential update, a firmware installation notice displays for 30 seconds by default. The waiting time can be adjusted to any value from 1 to 7200 seconds in the dfm_conf.json file.

Tooltip for invalid firmware

Previously, there was no way to verify whether enrolled devices had official Samsung firmware installed.

Knox E-FOTA On-Premises 23.12 can now detect unofficial firmware versions. If the console detects unofficial firmware, a warning icon displays beside the firmware version, and a tooltip shows when you hover over the corresponding firmware version on the **Devices** page.

Default server URL in the client app

From Knox E-FOTA On-Premises 23.12 onward, the client app can now work with a predefined server URL. If there's no efota_config file configured after installation, the Knox E-FOTA On-Premises agent app sets a default server URL — http://192.168.10.10:8080/admin.

If you uninstall the agent app from a device and reinstall it afterward, any custom server URLs aren't kept. However, the agent app will still work with the default server URL.

If you've configured an efota_config file, the server URL specified takes precedence over the default server URL.

See Create a configuration file for more information.

Knox E-FOTA On-Premises 24.03 release notes

Hotfixes

Hotfix for firmware updates through VPN

You can now bypass the network restrictions that block devices from downloading firmware when connected to a VPN. To remove the restrictions in your campaign, set **Download network** to **Any (Wi-Fi or Mobile)**.

For more information on configuring campaigns, see Step 7 — Create and assign a campaign.

Knox E-FOTA On-Premises 24.07 release notes

Version Release date 1.0.1.8 June 28. 2024

New

Knox E-FOTA On-Premises portable

The 24.07 release introduces a portable solution for Knox E-FOTA On-Premises. This solution allows you to install Knox E-FOTA On-Premises on a laptop with a Hyper-V virtual machine and bring it to your business sites, so you don't have to install and maintain Knox E-FOTA On-Premises servers at each site.

For more information, see Knox E-FOTA On-Premises portable.

Download the Knox E-FOTA client through a QR code

With this release, you can download the Knox E-FOTA On-Premises client on your devices through a QR code in the Knox E-FOTA On-Premise console. This feature allows you to quickly set up Samsung devices with Knox E-FOTA On-Premises, streamlining the initial setup for your fleet of devices.

For more information, see Download and install the agent app.

Updates

Improvements to license installation

The 24.07 release introduces improvements to license installation.

- License keys can't be reused once the license file is generated.
- Licenses are now activated with the hardware serial number of the motherboard instead of the MAC address of the device.

Support for Virtual A/B updates

With this release of Knox E-FOTA On-Premises, you can now deploy virtual A/B firmware updates to Samsung Galaxy A55 5G devices running Android 14 or higher. With Virtual A/B, the device seamlessly rolls back a firmware update if it fails to boot. Furthermore, firmware can be installed in separate dynamic partitions to allow both download and installation to occur in the background, and to ensure faster reboot speeds. Support for other device models will be available in future releases.

You can configure when the installation occurs. Once the installation is complete, the device reboots automatically.

See the Android Virtual A/B overview documentation to learn more about virtual A/B updates.

Download firmware over VPNs or private networks

With this release of Knox E-FOTA On-Premises, you can download firmware on your fleet of devices over VPNs and private networks if the **Download network** campaign setting is set to **Any**.

You can configure this when you create a campaign.

Knox E-FOTA On-Premises 24.12 release notes

Version Release date

1.0.1.9 December 23, 2024

New

Enhancement to the Knox E-FOTA On-Premises app

Previously, the URL and TLS certificate needed for the app to connect to your Knox E-FOTA On-Premises server could only be configured with a config file.

With this release, the Knox E-FOTA On-Premises app now supports a managed configuration, which allows you to configure the URL and TLS certificate when you push the app to your devices with your EMM. This feature means that you no longer need a separate config file for your devices to connect to your Knox E-FOTA On-Premises server.

For more information, see how to Install the client through your EMM.

Updates

Updated Java version for Knox E-FOTA On-Premises

With this release, we are updating the Java version used in Knox E-FOTA On-Premises to ensure optimum security for your assets.