



KME – KNOX Mobile Enrollment Guide

Date: 22/01/2024



What is Knox Mobile Enrollment (KME)?



Knox Mobile Enrollment is the quickest and most automated way to enroll a large number of Samsung devices to your Essentials console for corporate use. After adding your device to the dedicated KME platform, it will automatically attempt to complete integration with MDM platform until enrollment finishes with success. After the device wipe, KME will also start automatic re-enrollment process.

For more information visit Samsung KME page

<https://www.samsungknox.com/en/solutions/it-solutions/knox-mobile-enrollment>

Requirements for KME

To use Knox Mobile Enrollment, you need:

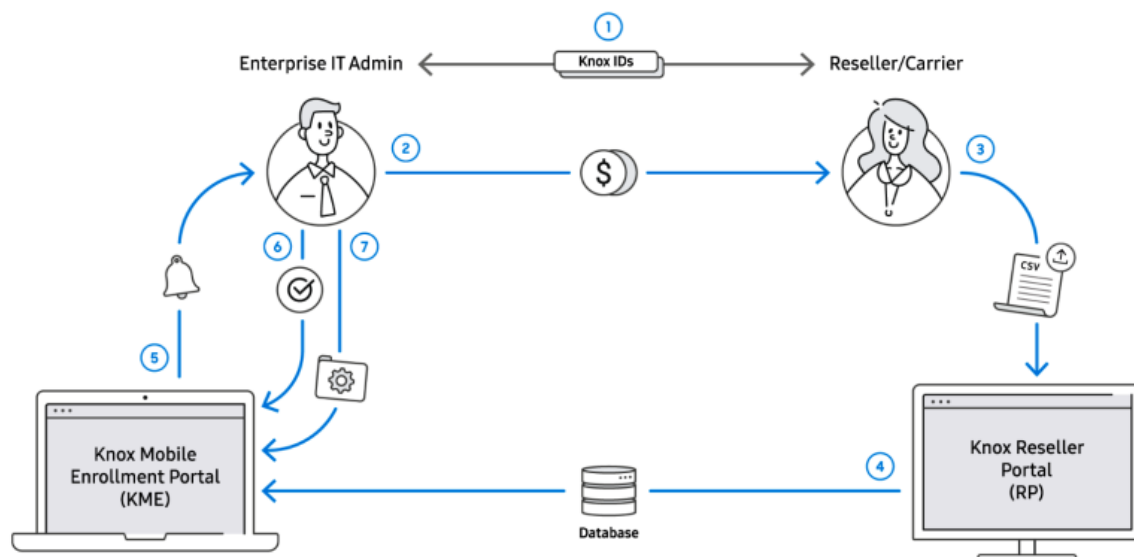
- A Samsung Knox account.
- Samsung Knox devices running Knox version 2.6 or higher.
- [ON-PREMISE] The correct firewall exceptions needed to extend beyond your local and protected network domain and securely connect to the Knox Mobile Enrollment server.
- A KME supported browser (Google Chrome, Microsoft Edge, Mozilla Firefox).

For more information go to:

<https://docs.samsungknox.com/admin/knox-mobile-enrollment/get-started/before-you-begin/>

KME process overview and workflow

Enterprise IT admins purchase devices from carriers, resellers, or distributors and provide their unique customer IDs. The devices are validated for correctness by their sellers in KME, and shipped to end users who open the box and boot their device.

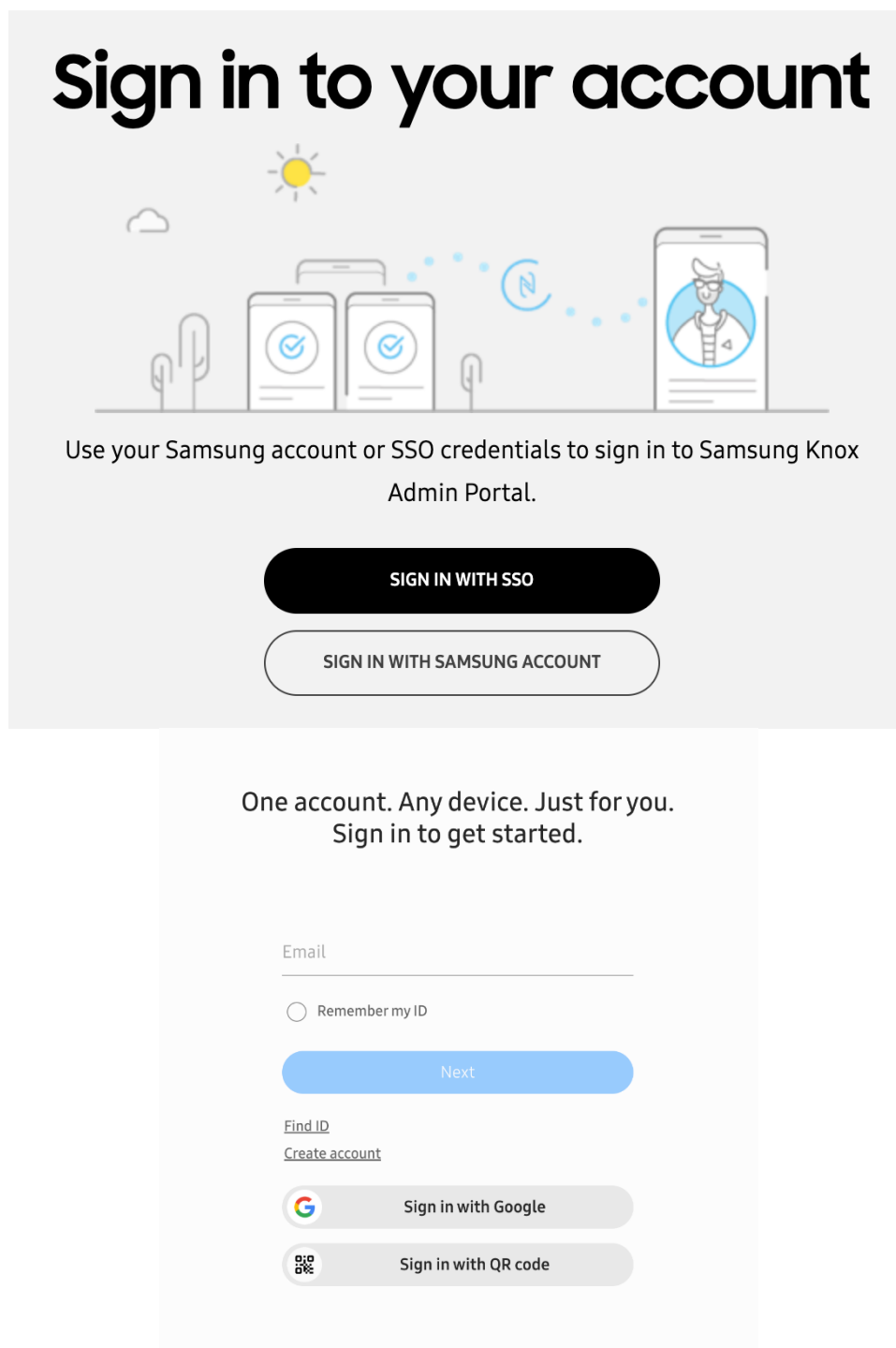


Refer to the following describing the KME process flow activities within the illustration above:

1. An IT Admin and Reseller/Carrier create accounts in KME and RP respectively. They then exchange their IDs within KME using the Customer ID and Reseller ID.
2. The Enterprise IT Admin purchases devices from their Reseller/Carrier.
3. The Reseller uploads the list of purchased device IDs to the Reseller Portal.
4. The device ID list is shared between the Reseller Portal and KME.
5. The IT Admin is notified by email that their Reseller/Carrier has uploaded their devices.
6. The IT Admin approves the device upload. Approvals can be made automatically for trusted Resellers/Carriers.
7. The IT Admin configures the devices by assigning them to a MDM profile and optionally adding username/password information to each device. Devices can be automatically assigned to a profile.

How to add devices to KME portal

Go to <http://www.samsungknox.com/en> and sign in to your account.



The image shows the Samsung Knox Admin Portal sign-in interface. At the top, the heading "Sign in to your account" is displayed in a large, bold, black font. Below the heading is an illustration featuring a sun, clouds, two smartphones with checkmarks, and a larger smartphone showing a user profile. The text "Use your Samsung account or SSO credentials to sign in to Samsung Knox Admin Portal." is centered below the illustration. Two buttons are present: a black button labeled "SIGN IN WITH SSO" and a white button with a black border labeled "SIGN IN WITH SAMSUNG ACCOUNT".

One account. Any device. Just for you.
Sign in to get started.

Email

☐ Remember my ID

[Find ID](#)
[Create account](#)

After entering the data, you will log into the KME administrator portal.

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The screenshot shows the Samsung Knox Admin Portal Dashboard. The left sidebar contains navigation links: Dashboard, Licenses, and Administrators & Roles. The main content area is titled 'Dashboard' and includes several sections:

- Try Knox services for free:** Start using your free trial license key for 90 days. [ACTIVATE LICENSE](#)
- Review a new device upload:** Approve devices uploaded to Knox Configure by your reseller. [REVIEW DEVICES](#)
- Your license is expiring soon:** Contact your reseller to renew your license or purchase a new one. [MANAGE LICENSE](#)
- Device alerts:** Two alerts are shown: 'Knox Mobile Enrollment' (1 of 86 device(s) need(s) attention) and 'Knox Configure' (1 of 61 device(s) need(s) attention). A link [Learn more about each device state](#) is provided.
- Open support tickets:** You have no active support tickets. [SUBMIT A TICKET](#)
- Quick links:** Add up to 6 pages as your quick links. [ADD NOW](#)
- Active licenses:** 2 licenses expiring. A table lists licenses with columns for Name/Service, End date, and a link to manage the license.
- Knox highlights:** Includes 'How to get started' (Watch the video or [read the admin guide](#)) and 'Knox API portal' (Generate public/private key pair and unique Client Identifier to call the Knox cloud service APIs).

Next you should click on Knox Mobile Enrollment button to see KME console.

The screenshot shows the Samsung Knox Admin Portal 'Devices' page. The left sidebar contains navigation links: Dashboard, Licenses, and Administrators & Roles. The main content area is titled 'Devices' and includes a table of all devices (86) with columns for IMEI / MEID, SERIAL NUMBER, MODEL, USER ID, TAGS, SUBMITTED, PROFILE, STATUS, and ACTIONS.

IMEI / MEID	SERIAL NUMBER	MODEL	USER ID	TAGS	SUBMITTED	PROFILE	STATUS	ACTIONS
...	...	SM-G973F/DS	...		19 Jun	verona_automat_webview	DO enrollment	
...	...	SM-G973F/DS	...		30 Nov		Unassigned	
...	...	SM-G780G/DS	...		28 Sep	verona_automat_COSU_wis_cred_enroll	DO enrollment	
...	...	SM-A515F/DSN	...		01 Mar 2021		Unassigned	
...	...	SM-G991B/DS	...		13 Jul 2021		Unassigned	
...	...	SM-A105FN/DS	...		29 Nov	MG Fori WebView WPC	PO enrollment	
...	...	SM-G525F/DS	...		22 Nov	dev_WPC_webview	PO enrollment	
...	...	SM-G965F	...	NTC	12 Jul 2021	dev_WPC_webview	PO enrollment	
...	...	SM-A603FN/DS	...		09 Apr 2021		Unassigned	
...	...	SM-A344B/DSN	...		31 Oct		Unassigned	
...	...	SM-G973F/DS	...	DEV1	02 Jun 2020		Unassigned	
...	...	SM-G973F/DS	...		23 Nov		Unassigned	
...	...	SM-G965B	...	Bluetooth	17 Mar		Unassigned	
...	...	SM-T385	...	Bluetooth	02 Jun 2020	tns18_profile4(RV1_RU22ENA)	DO enrollment	
...	...	SM-A520F	...	NTC	07 Jul 2021		Unassigned	
...	...	SM-A103FN/DS	...		02 Feb 2022	KME-Profile Kasi	DO enrollment	

1- Device purchased from official reseller

When a device is purchased from a reseller, the reseller can automatically upload the device to your KME account. The uploaded devices display within the DEVICES > Uploads page.

The Resellers screen displays a list of resellers, their corresponding reseller ID, default enrollment profile and upload approval preference. Each reseller displays as a link that can be selected to edit that reseller's profile and approval preferences.

More information on link below:

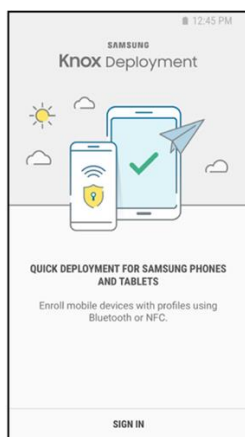
<https://docs.samsungknox.com/admin/knox-mobile-enrollment/get-started/tour-the-console/#resellers>

2- Adding device to KME manually using KNOX Deployment APP without official reseller

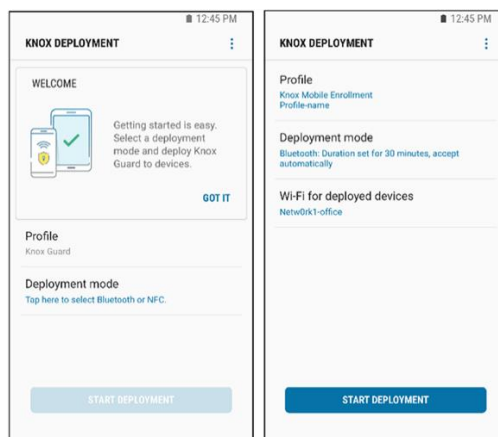
[Knox Deployment](#) App that can be downloaded from [Google Play Store](#)

This section describes the screen flow navigation for a typical enrollment using the Knox Deployment App.

1. Select **SIGN IN** once the Knox Deployment App launches on the device.
2. **NOTE** — If the Knox Deployment App is already running on the device, the initial screen does not display, and the application displays the sign in screen.



3. Enter the Knox Portal Username and Password to login into the Knox Deployment App.
4. Select **Remember me** to display and utilize the username in subsequent Knox Deployment App logins.
5. **NOTE** —If you encounter difficulty logging in to the Knox Deployment App, ensure you have either a valid Knox Portal account with privileges for KME. If that is not the issue, select **Forgot your email or password?** for assistance retrieving your login credentials. Select **SIGN IN** to proceed with the device login.



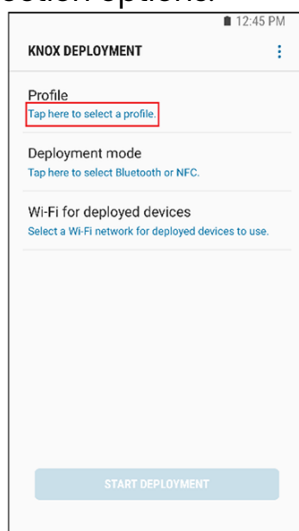
Once you have successfully logged into the Knox Deployment App, a **WELCOME** screen displays providing first-time options for profile selection and deployment mode.

NOTE — Once the Knox Deployment App profile selection and configuration mode are set, the selected options display within their respective fields, the **START DEPLOYMENT** option enables, and the Welcome portion of screen no longer displays in subsequent logins.

Select a profile to apply specific device settings to a master/admin device using to enroll end user devices.

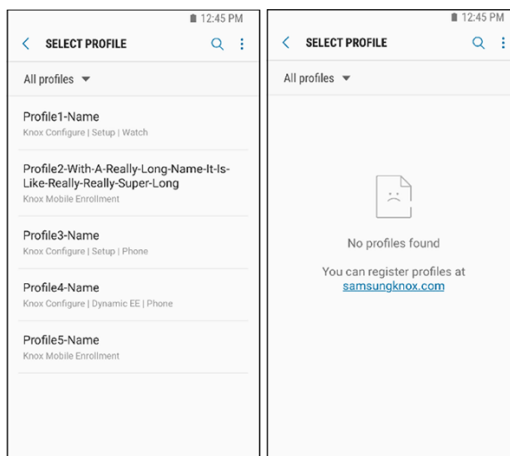
To select a configuration profile using the Knox Deployment App:

- 1- Select **Tap here to select a profile** from the Welcome screen to display a list of profile selection options.

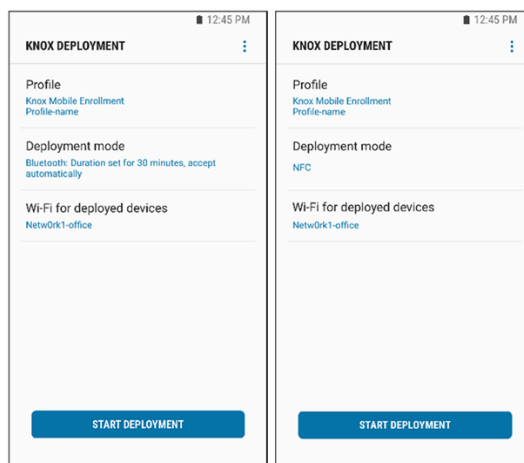


- 2- Optionally filter whether **All profiles** are listed for potential selection or just Knox Configure or Knox Mobile Enrollment defined profiles.

- 3- If there are no profiles available, a profile requires creation using the Knox Mobile Enrollment. Described in **Creating profile in Essentials MDM**



- 4- Select a listed profile. Once selected, the profile displays upon subsequent logins. The profile is now ready for Bluetooth, NFC, or Wi-Fi Direct deployment mode selection as described in the sections that follow.



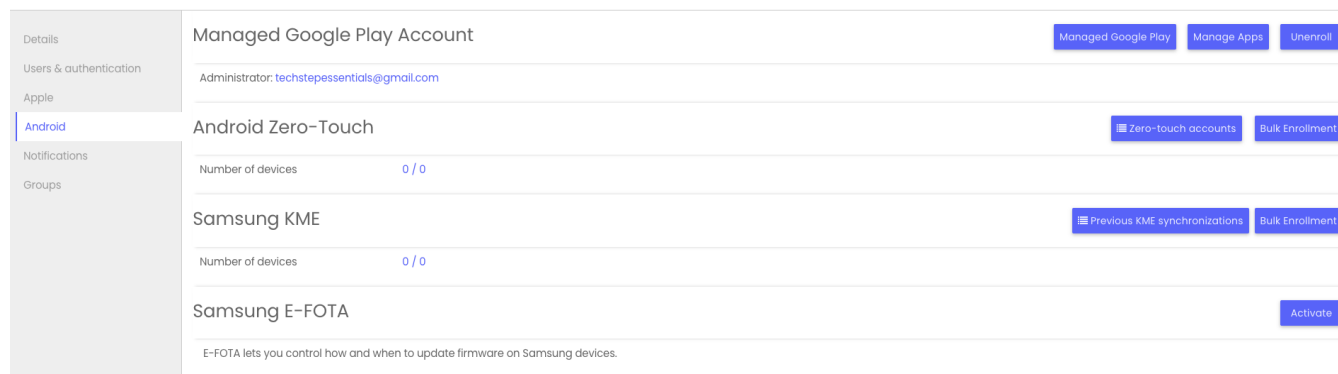
After beaming enrolment information, go to Devices -> All Devices tab, where a new record has been created. You can check enrolment method by hovering cursor on the submitted date.

Essentials MDM and Knox Mobile Enrollment integration

Log in to your Essentials MDM account and choose one of two possibilities.

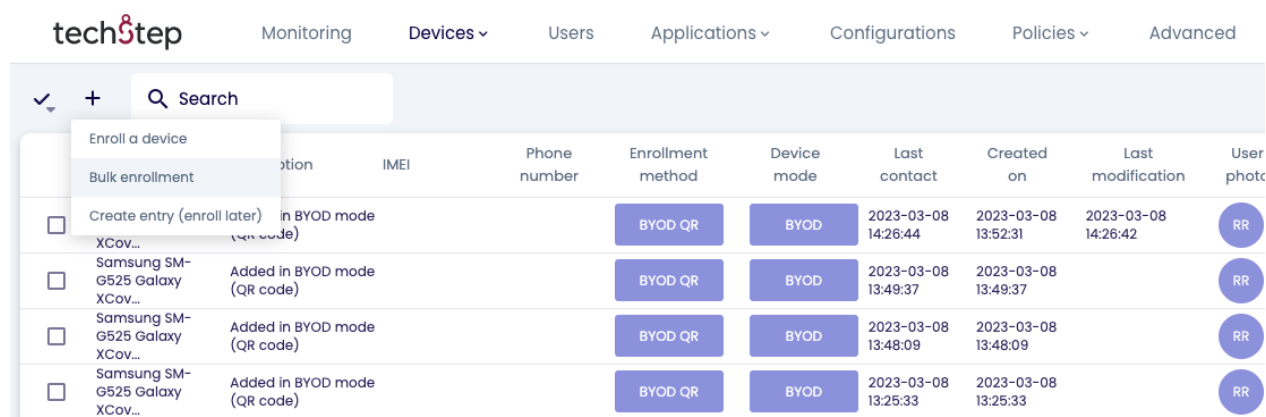
1. Go to Settings -> Android -> Samsung KME and press Bulk Enrollment

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2. Or using second method from device tab

Click on the DEVICES tab, then hover over + icon and choose **Bulk enrollment**, and **Samsung KME**.



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The screenshot shows the techStep web interface. At the top, there's a navigation bar with 'techStep' logo and menu items: Monitoring, Devices, Users, Applications, Configurations, Policies, and Advanced. On the right, there's a user profile for 'Ricardo RodriL' and a session timer '5:30.0'. Below the navigation bar, the breadcrumb 'DEVICES / BULK ENROLLMENT' is visible. The main heading is 'Bulk enrollment options'. There are three main sections: 'Automated enrollment' (highlighted with a blue border), 'Choose the method:', and three method cards: 'Apple DEP', 'Android Zero-Touch', and 'Samsung KME' (highlighted with a blue border). The 'Automated enrollment' section describes enrolling new and factory reset devices in MDM during activation and lists key benefits: Out of the box enrollment, Restrict MDM removal, and Simplified setup. The 'Choose the method:' section has three cards: 'Apple DEP' (describing the Apple Device Enrollment Program), 'Android Zero-Touch' (describing seamless setup for Android devices), and 'Samsung KME' (describing the Knox Mobile Enrollment for Samsung devices).

KME configuration in Essentials MDM (Device Owner)

Each method from the previous section will open a short configurator (Press Start Now)

The screenshot shows a 'Launch KME' configurator window. It has a progress bar at the top with four steps: 'Create an MDM Profile', 'Add devices', 'Upload devices to MDM Essentials', and 'Upload devices to KME'. The first step is active. Below the progress bar, there's a section titled 'Sign in to Knox Mobile Enrollment Portal.' with a list of instructions: 1. Launch Knox Mobile Enrollment console and select "Profiles" from the left side menu. 2. Click "Create Profile" and select ANDROID ENTERPRISE. 3. Provide the profile name, description (optionally) and choose "MDM Essentials" from the MDM list. 4. Add link to MDM Essentials APK: <https://fm.techdemo.no/kme/index.php/DePfZ4nMbG8GvvzORxEoiKUIY1Wsr82a>. 5. Paste MDM Server URI: fm.techdemo.no. There's a blue button 'Go to Samsung KME portal' and a link 'Show legacy options'. At the bottom right, there's a 'Next' button.

- 1- Sign in to Knox Mobile Enrollment Portal with your Samsung Account credentials.

The screenshot shows the 'My Knox' sign-in screen. It has a dark header with 'My Knox' text. Below the header, there's a message: 'Use your Samsung Account or SSO credentials to sign in to Samsung Knox.' There are two buttons: 'SIGN IN WITH A SAMSUNG ACCOUNT' and 'SIGN IN WITH SSO'.

One account. Any device. Just for you.
Sign in to get started.

Email

☐ Remember my ID

Next

[Find ID](#)

[Create account](#)



Sign in with Google



Sign in with QR code

- 2- Go to **Profiles**, click Create Profile and select type - ANDROID ENTERPRISE from the profile types.

Select profile type

Create a new profile by selecting one of the profile types.

[Learn more](#) about different profile types.



ANDROID ENTERPRISE

For fully managed devices. Create a work profile on company-owned devices.



ANDROID ENTERPRISE (ADVANCED)

Create a work profile with advanced features on company-owned devices. You need a Knox Suite license to use advanced features.

Click [here](#) if you want to create a profile for Android Legacy (Device Admin) devices running Android 10 or lower.

- 3- Enter the Profile Name, (Description is optional). Choose Techstep Essentials MDM (FAMOC manage) under “Pick your EMM”.

Paste EMM Server URI using copy button:



Example format for URI: xxx.xxxxxx.xxx/

- 4- Add link to FAMOC (Essentials MDM) APK using copy button:




Example format for APK link:

<https://xxx.xxxxxx.xxx/kme/index.php/S4hShnevBYtvhmWaf rheFsSmXlk6yL6Q>

CREATE NEW PROFILE

Android enterprise profile details

Define your profile details. Contact your EMM for information.



ANDROID ENTERPRISE

BASIC INFORMATION

Profile Name *

Description

0 / 200

EMM INFORMATION

Refer to the [KME profile configuration user guide](#) for more information on how to configure your EMM APK.

Pick your EMM *

Techstep Essentials MDM (FAMOC manage) ▾

EMM agent APK * ⓘ

✓

☐ This EMM APK is locally hosted on an intranet server. ⓘ

EMM server URI ⓘ

CONTINUE

- 5- [OPTIONAL] To enroll device with user credentials or bootstrap code in Device Owner from KME, administrator is obligated to provide custom JSON data in MDM profile. JSON should look like:

```
{"enrollment_type":"credentials, bootstrap_code"}
```

Valid enrollment_type values:

"credentials"

"bootstrap_code"

"credentials, bootstrap_code"

If custom JSON data will be not provided by administrator, device will be enrolled silently, or both enrollment options (credentials, bootstrap code) will be displayed to the user if there is no CSV record for this device.

If you wish to require the user to provide credentials or enrollment code during the process you also have to add to JSON one of the following values.

JSON that should be passed to the KME portal should contain a 'webview_key' parameter when selecting one of the WebView options (credentials or enrollment code).

e.g. When selecting the authentication method: user credentials and enrollment method: fully managed, JSON should look like that:

```
{"provisioning_mode":"do", "web_view_key":"GENERATED_WEB_VIEW_KEY"}
```

For WPC devices and WebView option selected:

```
{"provisioning_mode":"wp", "web_view_key":"GENERATED_WEB_VIEW_KEY"}
```

For COSU devices and WebView option selected:

```
{"provisioning_mode":"cosu", "web_view_key":"GENERATED_WEB_VIEW_KEY"}
```

"WebView key" will be generated and shown on the Samsung KME integration modal.

Android enterprise profile settings

Set MDM configuration and device settings.

MDM CONFIGURATION

Custom JSON Data (as defined by MDM) ⓘ

0 / 2000

Root/intermediate certificate ⓘ

UPLOAD CERTIFICATE FILE

Dual DAR ⓘ

☐ Enable Dual DAR

QR code for enrollment ⓘ

Generate a QR code to enroll devices with this profile during out-of-box gesture enrollment.

ADD A QR CODE

DEVICE SETTINGS

System applications

- ☒ Disable system applications
☐ Leave all system apps enabled

Privacy Policy, EULAs and Terms of Service

Add any End User License Agreements, Terms of Service, or other user agreements that users must acknowledge before using the device. The [Samsung Knox Privacy Policy](#) is always shown.

ADD LEGAL AGREEMENT

Company Name ⓘ

Essentials MDM

Enrollment screens

Change settings for optional enrollment screens.

EDIT

Set up your device


Your admin can monitor and manage settings, corporate access, apps, permissions, theft-protection features, and data associated with this phone, including network activity and your phone's location information.

[Samsung Knox Privacy Policy](#)

[Google](#)

Essentials MDM will manage and monitor this device using the following app:

APP

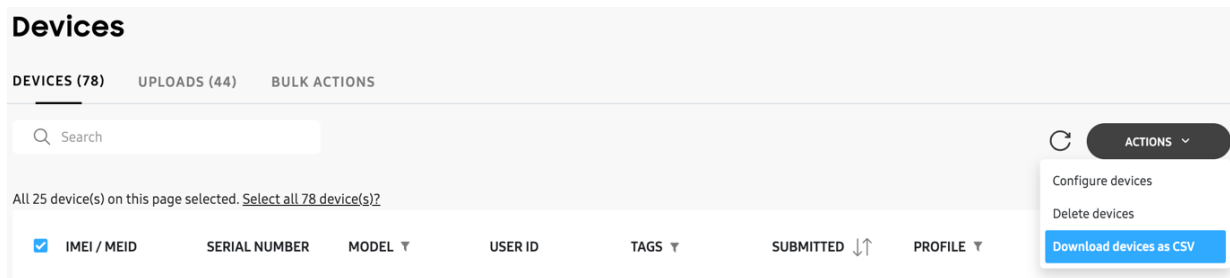
 (Your MDM app name)

< [Accept & continue](#)

Disclaimer: This screen might look slightly different on the device depending on your region.

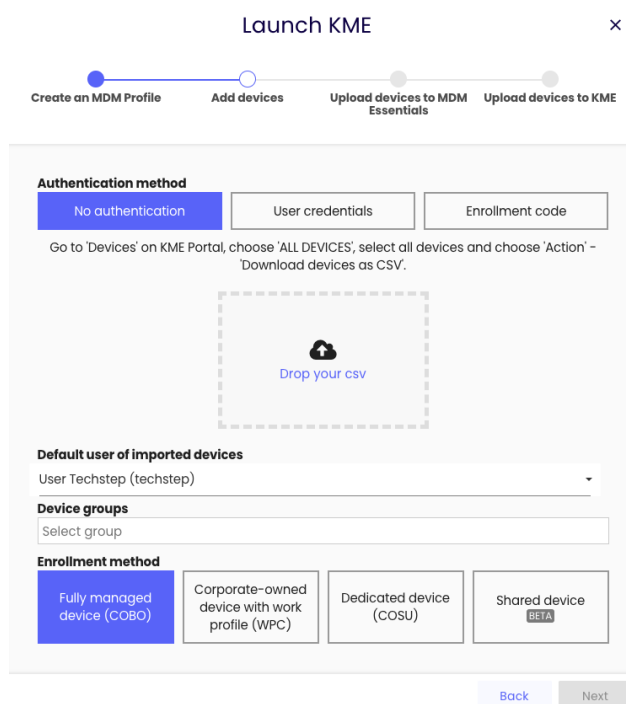
 Instructions for creating an MDM profile

6- Press Next and go to Devices -> All Devices on Samsung KME portal and download devices as CSV.

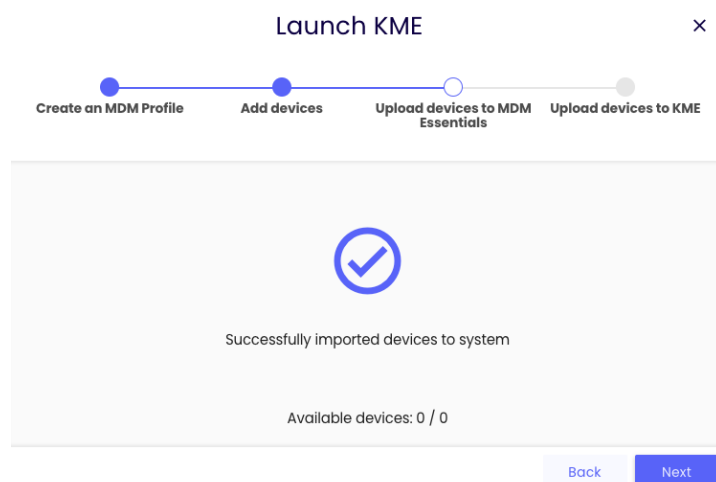


7- **Drop your CSV** or choose a file from local storage.

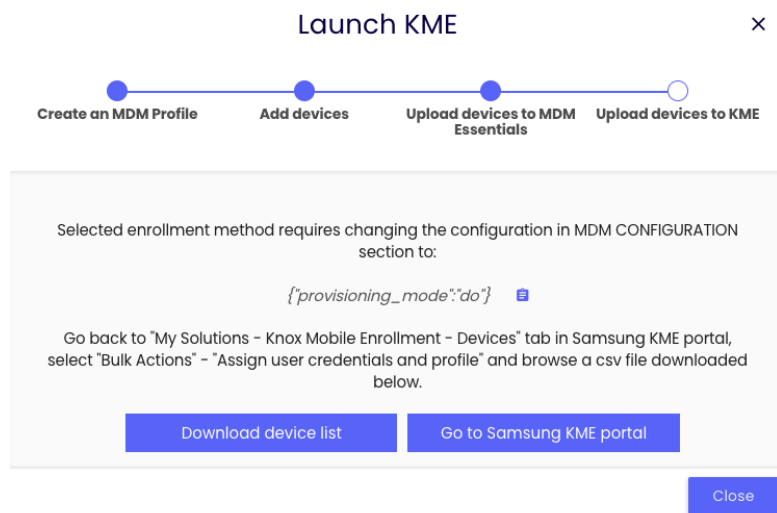
8- Choose Default user or Device Groups for imported devices. Select Authentication method and Enrollment method (remember to add appropriate values to the JSON configuration on KME portal) and press **Next**.



9- List of successfully imported devices will be shown:



10- Press **Next** and click on Download device list button.



- 11- Go back to Samsung KME portal, select Bulk Actions -> Assign user credentials and profile and upload a CSV file downloaded from Essentials MDM.

Assign user credentials and profile

Upload device list with user credentials

All devices must **pre-exist** in the Knox Mobile Enrollment device inventory.
Maximum 10,000 devices per upload.

Select .csv file *

SELECT

(Optional) Configure profiles and tags

You can assign profile now to all devices included in .csv file or assign profile later from [All devices](#) screen.

Modify the MDM profile of selected devices

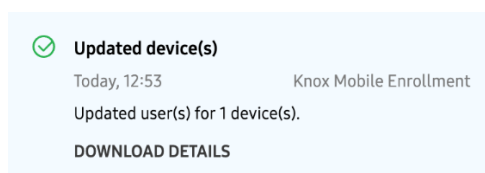
Keep current profiles

Tags

Type and hit enter to add tags

☐ Overwrite existing tags

- 12- Additional popup will appear if Bulk Configuration was submitted correctly.



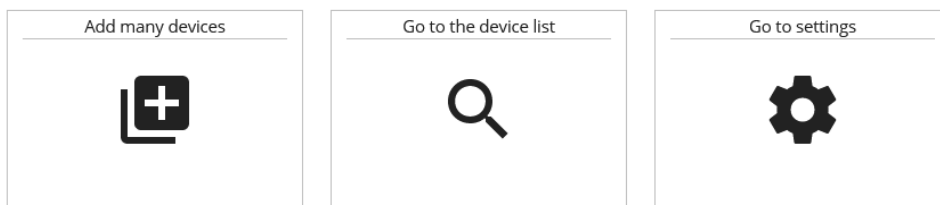
- 13- Go back to Essentials MDM and press close



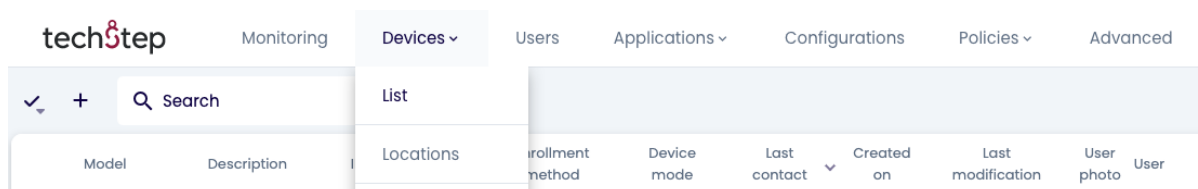
You're all set. The enrollment process will start automatically the first time a user starts a device and connects to the Internet.

Available devices: 1 / 1

What do you want to do next?



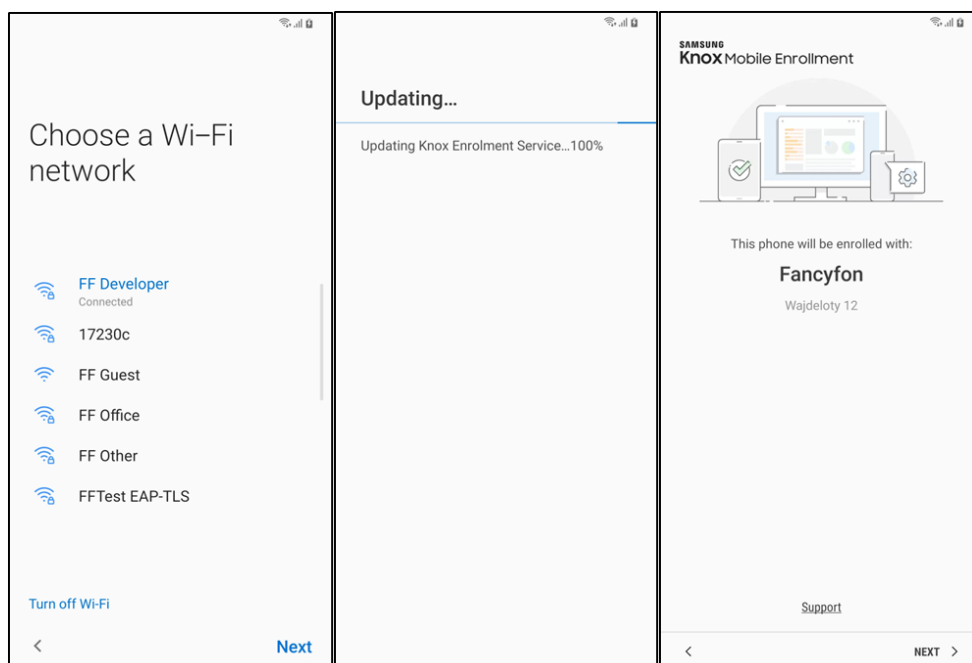
14- Choose the option “Go to device list” to see newly imported list.



After the device wipe or its initial setup, the device will enroll to Essentials MDM automatically.

User actions on device

- 1- For out of box enrollment, turn on your device and connect to the Internet.
- 2- When you receive a prompt to Enroll with Knox, tap Continue.
- 3- Read the SECURITY STATEMENT and the Knox PRIVACY POLICY and tap I agree to all of the above; tap Next.



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Your credentials are validated and your device is enrolled in your organization's enterprise IT environment.

