techŜtep

Bulk enrolment – Samsung KME

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

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

	Purchase	Enroll	Sign In 🔻
My Knox			
Use your Samsung Account or SSO credentials to sign in to Samsung Knox.			
SIGN IN WITH A SAMSUNG ACCOUNT SIGN IN WITH SSO			
Sign in to your Samsung account			
Email			
C Remember my ID			
Next			
Find ID Create account			
Sign in with Google			
器 Sign in with QR code			

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

In compliance with the General Data We've updated our Samsung Knox pri	Protection Regulation (GDPR), we have added ne vacy policy to better explain how we process you	ew Privacy Settings. To view these, go to Edit accourt or personal data. To view the latest privacy policy	ount, and click on Privacy Settings . × , click here .
My Solutions			
C Knox Mobile Enrollment Automated and enforced EMM enrollment.	Chock Platform for Enterprise Defense-grade security and management features.	C. Knox Configure Quick & simple setup and rebranding of devices.	
Discover more ENTERPRISE SOLUTIONS			
Knox Manage Cross-platform EMM optimized for Samsung devices.	(' ዮ)) Knox E-FOTA Versatile OS version control and management. Jow	III Knox Asset Intelligence Smart device inventory management.	Knox Copture Enterprise-grade scanning on your device.
SERVICE & TOOLS			
C > Knox Developers Get access to Knox SDKs, license keys, REST APIs, and other developer resources.	Samsung Care+ for Business Manage and monitor your Samsung Care+ covered devices.	C Enterprise Edition dashboard Manage Knox Suite license keys for Samsung Galaxy Enterprise Edition devices.	Paid premium support for Samsung mobile products. North America → Global →

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

SAMSUNG Knox Admin Portal									🧟 🔊 🚺
Devices	Device								
Profiles	Derice								
Resellers	DEVICES (7	71) UPLOADS	S (40) BUL	LK ACTIONS					
Device Users	Q Search							(
Activity Log									
۲	IMEI/	MEID SER	RIAL NUMBER	MODEL T	USER ID	TAGS T	SUBMITTE D ↓↑	PROFILE T	STATUS T
	3594	245707712 <u>RF8</u>	<u>3H42X91RZ</u>	SM-G935F	35945707712 8980		16 Feb		Unassigned
	<u> </u>	<u>54201009</u> <u>RF8</u>	BKB24DS0D	SM-G965F	35342010096 2243	NFC	12 Jul	verona_automat	DO Enrollment
	<u> </u>	<u>12107474</u> <u>R58</u>	BH30CE1GE	SM-G928F	353121074743 789		30 Sep	Verona_automa	Enrolled
	354	16070850 <u>R58</u>	<u>BJ14XTQQA</u>	SM-A520F	35460708503 2138	Bluetooth	27 Nov 2019	Verona_automa	DO Enrollment
	<u>352</u>	<u>868811094</u> <u>RF8</u>	<u>8N11F887N</u>	SM-G770F	35268811094 1446	Bluetooth	20 Feb 2020	Strzyza	DO Enrollment
	357	3290720 <u>RF8</u>	BH20WWEQW	SM-G935F	35732907200		23 Jun		 Unassigned

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/getstarted/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.
- 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.

× _	SAMSUNG Knox Deploy	vment
QUIC	C DEPLOYMENT FOR SA AND TABLET	MSUNG PHONES S
	SIGN IN	

- 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.

ii 12:	45 PM		12:45 PM
KNOX DEPLOYMENT	- 81	KNOX DEPLOYMENT	:
WELCOME		Profile Knox Mobile Enrollment Profile-name	
Getting started is eas Select a deployment mode and deploy Kno Guard to devices.	y. ix	Deployment mode Bluetoath: Duration set for 30 minutes, acce automatically	pt
6	ті то	Wi-Fi for deployed devices Netw0rk1-office	
Profile Knox Guard			
Deployment mode Top here to select Bluetooth or NFC.			
START DEPLOYMENT		START DEPLOYMENT	

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.

12:4	45 PM	■ 12:45 PM
KNOX DEPLOYMENT	1	KNOX DEPLOYMENT
Profile Knox Mobile Enrollment Profile-name		Profile Knox Mobile Enrollment Profile-name
Deployment mode Bluetooth: Duration set for 30 minutes, accept automatically		Deployment mode NFC
Wi-Fi for deployed devices NetwOrk1-office		Wi-Fi for deployed devices Netw0k1-office
START DEPLOYMENT		START DEPLOYMENT
START DEPLOTMENT		START DEPLUTMENT

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

techŜtep	Monitoring	Devices - Users	Applications -	Configurat	ions Policies ~	Advanced		¢ a	Ricardo Rodriguez 🗸	5.30.0
								Your s	Profile	ŧ
					Devices coun	t by platform			Settings	
		3				14	1		Logout	
		managed devi	ICES OF 14	14			unread dients or. 51			

Details	Managed Google Play Account	Managed Google Play Manage Apps Unenroll
Users & authentication Apple	Administrator: techstepessentials@gmail.com	
Android	Android Zero-Touch	Ezero-touch accounts Bulk Enrollment
Groups	Number of devices 0 / 0	
	Samsung KME	I Previous KME synchronizations Bulk Enrollment
	Number of devices 0 / 0	
	Samsung E-FOTA	Activate
	E-FOTA lets you control how and when to update firmware on Samsung devices.	

2. Or using second method from device tab

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

te	ech <mark></mark>	tep	Monitoring	Devices ~	Users	Applicat	ions ~	Configurati	ons Policie	es ~ Advo	inced
✓.	+	Q Sear	rch								
	Enroll (Bulk er	a device nrollment	ation	IMEI	Phone number	Enrollment method	Device mode	Last	Created on	Last modification	User photo
	Create	e entry (enro	ill later) in BYOD mode ریزہ محطe)			BYOD QR	BYOD	2023-03- 14:26:44	-08 2023-03-08 13:52:31	2023-03-08 14:26:42	RR
	Sams G525 XCov	sung SM- Galaxy 	Added in BYOD mode (QR code)			BYOD QR	BYOD	2023-03- 13:49:37	-08 2023-03-08 13:49:37		RR
	Sams G525 XCov	sung SM- Galaxy 	Added in BYOD mode (QR code)			BYOD QR	BYOD	2023-03- 13:48:09	-08 2023-03-08 13:48:09		RR
	Sams G525 XCov	ung SM- Galaxy 	Added in BYOD mode (QR code)			BYOD QR	BYOD	2023-03- 13:25:33	-08 2023-03-08 13:25:33		RR
tech		Monitoria ar nent optio	ng Devices - Users	Applications ~	Configurations	Policies ~	Advanced			¢	≗ Ricardo Rodri_ ∨ 5. Your session will expire in 106 minut
						Automated enro	llment				
					Enroll new and facto Keybenefits: • Out of the box en • Restrict MDM rem • Simplified setup	ry reset devices in MDM up and running qu rollment loval	during activation and Jickly.	get users			
Choose	the met	hod:									
			Apple DEP			Android Zero-T	ouch			Samsung KME	
	The Apple I an	Device Enrollment I d configure iOS de	Program allows you to automatically e vices owned by your organization.	enroll	Android zero-touch	allows you to seamless owned Android de	ly setup and deploy co vices.	prporate-	The Knox Mobile Enrol in an MDM with	SAM SUNI Ilment enables you to enroll hout having to manually con	G multiple Samsung devices nfigure each device.

KME configuration in Essentials MDM (Device Owner)

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

Launch KME ×							
Create an MDM Profile	Add devices	Upload devices to MDM Essentials	Upload devices to KME				
	Sign in to Knox M	obile Enrollment Portal.					
1. Launch Knox Mobil	e Enrollment consol	e and select "Profiles" from t	he left side menu.				
2. Click "Create Profile	e" and select ANDRC	DID ENTERPRISE.					
3. Provide the profile MDM list.	name, description (optionally) and choose "MD	M Essentials" from the				
4. Add link to MDM Es https://fm.techder	sentials APK: mo.no/kme/index.pl	hp/DePfZ4nMbG8GvvzORxE	oiKUIY1Wsr82a 自				
5. Paste MDM Server fm.techdemo.no	URI:						
	Go to San	nsung KME portal					
Show legacy options							
			Next				

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

SIGN IN WITH A SAMSUNG ACCOUNT SIGN IN WITH SSO
Sign in to your Samsung account
Email
Remember my ID
Next
Find ID Create account
G Sign in with Google
59 Sign in with OD code

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

Select pro	offile type
Create a new profile by select	ing one of the profile types.
Learn more about diff	Ferent profile types.
C F	
ANDROID ENTERPRISE	DEVICE ADMIN
Enroll as a Device Owner or let	Legacy method for managing
MDM choose to enroll as a Device	devices. Being replaced by Device
Owner or Profile Owner.	Owner.

3- Enter the Profile Name, (Description is optional). Choose Famoc Manage under "Pick your MDM".

Paste MDM Server URI using copy button:



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



Example format for APK link:

https://xxx.xxxxxxxxxxkme/index.php/S4hShnevBYtvhmWafrheFsSmX1k6yL6Q

	BASIC INFORMATION	
	Profile Name *	
¥	Essentials MDM Profile	
	Description	
IDROID ENTERPRISE		
		1
		0/200
	MDM INFORMATION	
	Refer to the KME profile configuration user guide for more information on how to configure your MDM APK.	
	Pick your MDM *	
	Famoc manage	\sim
	MDM Agent APK * 🙃	
	https://play.google.com/managed/downloadManagingApp?identifier=famocom/managed/downloadManaged/downloadManaged/downloadManaged/downloadManaged/downloadManaged/downloadManaged/downloadManaged/downloadManaged/downloadManaged/downloadManaged/downloadManaged/dow	0
	☐ This MDM APK is locally hosted on an intranet server. ●	
	MDM Server URI	
	example.essentials.com	

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

MDM CONFIGURATION	DEVICE SETTINGS	
Custom JSON Data (as defined by MDM)	System applications	•
	Disable system applications	Your admin can monitor an
	Leave all system apps enabled	settings, corporate access, theft-protection features, a associated with this phone network activity and your information.
0 / 2000	Add any End Liger Ligerse Agreements Terms of Service as other user agreements that	Samsung Knox Privacy Pol
Root/intermediate certificate 🛛	users must acknowledge before using the device. The <u>Samsung Knox Privacy Policy</u> is	Google
	always shown.	Essentials MDM will mana this device using the follow
OF EARD LEATH TEALED INE	ADD LEGAL AGREEMENT	400
Dual DAR		(Your MDM app n
Enable Dual DAR	Company Name * 🔁	
	Essentials MDM	
QR code for enrollment 🖲		
Generate a QR code to enroll devices with this profile during out-of-box gesture enrollment.	Enrollment screens	< Accep
ADD A QR CODE	Change settings for optional enrollment screens.	
		Disclaimer: This scree

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

Devices

DEVICES (78)	UPLOADS (44) BULK A	CTIONS					
Q Search							C ACTIONS ~
All 25 device(s) on t	his page selected. <u>Select all 78</u>	device(s)?					Configure devices
MEI / MEI	SERIAL NUMBER	MODEL T	USER ID	TAGS T	SUBMITTED $\downarrow\uparrow$	PROFILE T	Delete devices 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.

	Launc	h KME	×
Create an MDM Profile	Add devices	Upload devices to MDM Essentials	Upload devices to KME
Authentication method	1		
No authentication	User c	redentials	Enrollment code
Default user of importe	Download of Drop	devices as CSV.	
User Techstep (techste	p)		•
Select groups			
Enrollment method			
Fully managed device (COBO)	Corporate-owned device with work profile (WPC)	Dedicated device (COSU)	Shared device
			Back Next

9- List of successfully imported devices will be shown:

	Launc	h KME		×
Create an MDM Profile	Add devices	Upload devices to MDM Essentials	Upload devia	ces to KME
	($\overline{\mathcal{O}}$		
	Successfully impo	orted devices to system		
	Available	e devices: 0 / 0		
			Back	Next

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

	Launa	h KME	×
Create an MDM Profile	Add devices	Upload devices to MDM Up Essentials	load devices to KME
Selected enrollment m	ethod requires chai se	nging the configuration in MDM ction to:	CONFIGURATION
Go back to "My Solutic select "Bulk Actions" - "A	ns - Knox Mobile En ssign user credentic I	rollment - Devices" tab in Sams Ils and profile" and browse a cs pelow.	sung KME portal, v file downloaded
Downl	oad device list	Go to Samsung KME p	ortal
			Close

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	(Optional) Configure profiles and tags			
All devices must pre-exist in the Knox Mobile Enrollment device inventory.	assign profile later from <u>All devices</u> screen. Modify the MDM profile of selected devices			
Maximum 10,000 devices per upload. Select .csv file *	Keep current profiles \sim			
SELECT	Tags			
	Overwrite existing tags			

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

\oslash	Updated device(s)	
	Today, 12:53	Knox Mobile Enrollment
	Updated user(s) for 1 device(s).
	DOWNLOAD DETAILS	

13- Go back to Essentials MDM and press close



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

tech	tep M	onitoring	Devices ~	Users	Applications ~	Configure	ations	Policies ~	Advanced
∽ +	Q Search		List						
Mode	el Descrip	otion I	Locations	irollment nethod	Device mode	Last Contact	Created on	Last modification	User User photo

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.

<u>ې ال</u> ش	ې ان کې	Q h. P
		SAMSUNG Knox Mobile Enrollment
Choose a Wi–Fi network	Updating Knox Enrolment Service100%	This phone will be enrolled with:
FF Developer		Fancyfon
3 17230c		wajdeloty 12
🔶 FF Guest		
S FF Office		
🛜 FF Other		
🛜 FFTest EAP-TLS		
Turn off Wi-Fi		Support
< Next		<

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

Q ha 🕫	14:49 🖬 🖯 🗣 🧠 📾 🛸 🖬 😫
Knox Mobile Enrollment	Enrolling
Samsung Knox Privacy Policy Samsung will use your personal data when you use Knox. See the <u>Samsung Knox Privacy</u> <u>Policy</u> for details.	Authenticating your information100% Downloading MDM100% Finishing up0%
< NEXT >	

Bulk enrolment – Samsung KME

