# Knox Mobile Enrollment (KME) Direct

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# Setup Guide

August 2021 Samsung R&D Centre UK (SRUK)

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#### Agenda

- 1. Prerequisites
- 2. Download and Install KME Direct
- 3. Create a Device Configuration Profile
- 4. Setup a test HTTP server using a mobile device
- 5. Create a Device Deployment Profile
- 6. Device Enrollment



#### Prerequisites

In order to set up a KME Direct test environment you will need to set up a server to host the configuration and APK files. This guide will explain how to do this with a mobile device using an app (Simple HTTP Server)

#### **Download and Install KME Direct**

- Navigate to: <a href="https://www2.samsungknox.com/en/kme-direct-download">https://www2.samsungknox.com/en/kme-direct-download</a>
- Download both files, KME Direct and Knox Service Plugin



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#### **Download and Install KME Direct**

- Once downloaded, launch KME\_Direct\_v1.1.6.exe
- Select NEXT
- Accept the terms of the license agreement
- Select NEXT

#### SAMSUNG KME Direct Installer

#### SAMSUNG KME Direct version 1.1.6

Thank you for choosing SAMSUNG KME Direct for your Enterprise Mobility Management solution. This installer will guide you through the set up and configuration steps.

Let's get started!



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NEXT

#### **Download and Install KME Direct**

- Enter a passcode of your choice
- Select NEXT
- Copy your Recovery key and save to a safe location. The key can be used to access KME Direct if you forget your password.
- Select NEXT

• SAMSUNG KME Direct Installer	• SAMSUNG KME Direct Installer
Create your passcode	Recovery key downloaded
Choose a passcode between 4 and 12 characters, with a mix of upper and lower letters, numbers, and special characters are limited to: !, @, #, \$, %, ^, &, or *.	When you forget your passcode, you can reset the Passcode with this Recovery Key. Download and save your recovery key to secure location that you can access when necessary. We recommend keeping your recovery key safe. Click COPY to copy the recovery key to your clipboard, paste it to a text processing software, and save it to location on your desktop.
	yw3jc-obv94-zfsc6-nx832-1gdyg-gspqw-be1de COPY
······································	
BACK	BACK

#### **Download and Install KME Direct**

- Select NEXT
- Wait for KME Direct to install
- Select LAUNCH

• SAMSUNG KME Direct Installer	SAMSUNG KME Direct Installer	SAMSUNG KME Direct Installer
Choose destination location	Installing SAMSUNG KME Direct	SAMSUNG KME Direct is installed
Select the location where setup should install SAMSUNG KME Direct. To change the default installation location, click BROWSE and follow on-screen instructions to select a different destination.	Installation in progress. Do not close this window until installation is complete.	Installation complete
Destination Folder C:\Program Files\KME Direct BROWSE	2 minutes left	
	19.96	
BACK		FINISH

#### **Download and Install KME Direct**

- Enter your password, select OK
- Select CREATE PROFILE

• SAMSUNG KME Direct	SAMSUNG Knox Mobile Enrollment Direct    Profiles  Create a new profile to deploy a new Enterprise Mobility Management solution using QR code. You can also create a new profile to configure your device settings.
Independent of the product of the produc	Image: state



#### **Download and Install KME Direct**

- Select the Knox SDK version. To find the SDK version for your devices, on the device navigate to: Settings > About phone > Software information > Knox version
- Select CONTINUE

(nox Version *	
Knox Version 3.8 or higher	~

#### **Create a Device Configuration Profile**

KME Direct has two types of profiles, Device Configuration Profile and Device Deployment Profile. The device configuration profile is used to customize device settings such as display, sounds, key mapping and general settings. The device deployment profile is is used to generate a QR code which automatically connects your devices to a network and directs them to your MDM.

Select DEVICE CONFIGURATION PROFILE (XML)



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### **Create a Device Configuration Profile**

- You can now configure the device display settings
- Once you've chosen your settings, select CONTINUE

 CREATE NEW PROPILE	×
Display configuration	
Configure the device's display settings.	
1. SCREEN TIMEOUT	
After 30 seconds of inactivity.	
2. BRIGHTNESS Brightness 50%	
Adaptive brightness Keep track of brightness adjustments and apply them automatically in similar lighting conditions.	
3. FONT SIZE	
<ul> <li>4. TOUCH SENSITIVITY</li> <li>Increase the touch sensitivity of the screen for use with screen protectors.</li> </ul>	
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### **Create a Device Configuration Profile**

- You can now configure the options for hardware key mapping
- Once you've chosen your settings, select CONTINUE

SAMSUNG Knox Mobile Enrollment Direct		@ × ]
$\leftarrow$	DISPLAY CONFIGURATION	×
	Key configuration	
	Configure resulting actions for key presses on the device.	
	1 NAVIGATION BAR	- 1
	Button order	
	Normal (Recents, Home, Back)	- 8
	Reverse (Back, Home, Recents)	
	2. LONG TAP ON HOME KEY	
	Long tap on nome key to launch below app	
	3. X COVER KEY	
	M Staams	
	Custom intent	
	O APP launch	
	4. TOP KEY	
	Custom intent	
	App package name	
	comtesttest	
	com samsung android knox intent action PTT_PRESS	
	Released	
	com.samsung.android.knox.intent.action.PTT_RELEASE	
	APPlaunch	- 1
	CONTINUE	
		-

### **Create a Device Configuration Profile**

- You can now configure the general configuration options
- Once you've chosen your settings, select CONTINUE

•		~
	General configuration	
	Select and configure category below.	
	1. NFC	
	C Enable	
	2. WI-FI BLOCKLISTO	
	Prevent to block a specific AP connection because of adding to blocklist accidentally	
	3. SOUND	
	Selectively control the device volume	
	4. SYSTEM LANGUAGE & COUNTRY	
	Set Language	
	English $\checkmark$	
	Set Country	
	United States of America $\sim$	
	CONTINUE	

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#### **Create a Device Configuration Profile**

- Select GENERATE XML
- Save the XML file onto your PC

SAMSUNG Knox Mobile Enrollment Direct		li x
$\leftarrow$	DEVICE CONFIGURATION	×
	Summary	
Verify the To save t Cl	various details of the configuration profile you jus this profile and generate an XML file, click GENER/ ick RESET to delete this information and start aga	st created. ATE XML. in.
DISPLAY CONFIGURATION	KEY CONFIGURATION	GENERAL CONFIGURATION
1. Screen timeout After 30 seconds of inactivity.	1. Navigation bar Button order: Normal (Recents, Home, Back)	1. NFC Enable
2. Brightness Brightness is set to 50%.	2. Long tap on home key Disable	2. Wi-Fi blocklist Disable
Adaptive brightness is enabled.	3. X cover key	3. Sound
3. Font size Font size is set to 3.	4. Top kev	4. System Language & Country
4. Touch sensitivity Enable	Custom intent App Package name:	Language English Country-United Kingdom of Great Britain and Northern Irelan
	Pressed:	d
	Heleased:	
(	RESET GENERATE XML	



#### Setup a test HTTP server

- On your host mobile device, go to the Play Store and download the Simple HTTP Server app <u>https://play.google.com/work/apps/details?id=jp.ubi.common.http.server&hl=en\_GB</u>
- Once installed, launch the SimpleHttpServer app, make sure the Server is set to ON and your host device is connected to your Wi-Fi network. The server IP address will then display. E.g. <u>http://192.168.110.105:12345/</u> (You may have a different IP address)



### Setup a test HTTP server

- Copy the Knox Service Plugin APK (the file you downloaded in slide 4) and the Device Configuration Profile XML (the file you create in slide 14) to the host device. Save the files into the Documents folder on your host device
- You will now have 2 new file locations:

http://192.168.110.105:12345/Documents/knox\_service\_plugin\_v1.2.74\_0.apk

http://192.168.110.105:12345/Documents/XC5config.xml

• You will use these two files locations in our Device Deployment Profile

/		0	N
<		Q	:= :
6	Internal storage 🕨 🕻	Documents	
		15 1	Name 🕆
6	knox_service_p	lugin_v1.2.74_	0.apk
	26 Aug 11:57		2.28 MB
HTML	XC5 config.xml 26 Aug 11:58		3.99 KB

- Open Knox Mobile Enrollment Direct and select CREATE PROFILE
- Select the Knox Version
- Select CONTINUE



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#### **Create a Device Deployment Profile**

Select DEVICE DEPLOYMENT PROFILE (QR CODE)





- Enter a Profile name of your choice
- Enter your Organization name
- Description is optional
- Select CONTINUE

CREATE NEW PROFILE	>
Profile details	
Enter basic information about the profile you want to create	
BASIC INFORMATION	
Profile name *	
XCS Deployment	
Organization name *	
Samsung	
Description	
07200	
Knox Version 3.8 or higher	
	Control of Control

#### **Create a Device Deployment Profile**

- Enter your Wi-Fi configuration details
- Select CONTINUE





• Legal Agreement is optional, Select CONTINUE

\$AM\$UNG Knox Mobile Enrollment Direc	at and a second s	® ×
$\leftarrow$	CREATE NEW PROFILE	×
	Logg Agroomont	
	Legal Agreement	
	Enter your custom legal agreement information, including privacy policy, EULAs, and terms of service. To proceed without custom legal agreement, click Continue.	
	Title	
	Legal Agreement URI 🔴	
	http://www.example.com/	
	CONTINUE	



- Select your Enterprise Mobility Management provider; the next fields will automatically populate. Depending which Management provider you're using will determine whether you have to enter custom JSON data.
   Check with your EMM provider if this is needed.
- Select CONTINUE

Android Enterprise Enrollment	
Set up an Android Enterprise profile.	
ANDROID ENTERPRISE PROFILE Refer to the <u>Profile configuration User Guide</u> for more information on how to configure your Android Enterprise profile.	
Enterprise Mobility Management provider* Knork Manage	
EMM agent URL*	
https://play.google.com/managed/downloadManagingApp?identifier=kno	
EMM agent's receiver component name*	
com sds.emm.cloud.knox.samsung/com.sds.emm.emmagent.core.event.re	
EMM agent signature checksum*	
MzDUGUat9VKJ1XX/6FBmP2rts6f-5K4RFLVPmxXx/e6gpV=	
EMM server URI	
nttp://www.exampie.com/	
Custom JSON Data (as defined by EMM)	
0/2000 Root/Intermediate certificate	
Upload file UPLOAD	

- In the Device Configuration Profile field, enter your XML address from slide 16. <u>http://192.168.110.105:12345/Documents/XC5config.xml</u>
- In the Knox Service Plugin field, enter your APK address from slide 16. <u>http://192.168.110.105:12345/Documents/knox\_service\_plugin\_v1.2.74\_0.apk</u>
- For Package name, enter: com.samsung.android.knox.kpu
- For Signing key, enter: NN8Oep8c8YkuRcBWtJc82BzPFIpAUNEa6krFpI-QCkI=
- Select CONTINUE

SAMSUNG Knox Mobile Enrollment Direct	
	Additional deployment options
	Set up the URI for the Device Configuration Profile that you created with KME Direct. You can also add applications to deploy.
	DEVICE CONFIGURATION         Image: Specify the location for Dwine Configuration Profile (XML) and the Knox Service Drugsmatch Endback Configuration Profile (XML) and the Dwine Configuration Profile (XML) file)*         Local server URI for a Device Configuration Profile (XML file)*         http://192.168.110.105.12345/Documents/KCSconfig.xml         Local server URI for the Knox Service Plugin agent (APK file)*         http://192.168.110.105.12345/Documents/Kox_service_plugin_v1.
	Package name* com samsung android knoc kpu Signing key* NNSGep8c8/kuRc8WLic828zFFipAUNEa6krFpi-QCKi=
	Add a package name and download URI to deploy an additional app.
	CONTANE

- Select GENERATE QR CODE
- Click on the DOWNLOAD ALL button and then Save the QR code



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#### **Device Enrollment**

• You can now enroll your devices, make sure that your Simple HTTP Server app is still running.



Gesture a + symbol on the Let's go! screen





Scan the QR code, the device will then begin to stage

Select QR code

#### **Document Information**



This is version 1.0 of this document.

# Thank you!



