

Android Enterprise – Part Two Linking devices to an Enterprise

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Introduction

In the first blog we covered how to create an Android Enterprise account. It this blog we will cover why devices must be linked Enterprise ID and how to link devices to an Android Enterprise. It's time for Part Two – Linking devices to an Enterprise.

Part Two – Linking devices to Android Enterprise

In this blog we will cover the following:

- Why must devices be linked to an Android Enterprise ID?
- Android Enterprise Requirements
- Android Enterprise compatible devices
- How to link a device during enrollment
- How to link an already enrolled device

Why must devices be linked to Android Enterprise ID?

When you have created the Android Enterprise account, a Managed Google Play Store is created for your enterprise. In that Play Store, you approve the apps that are allowed in your Enterprise. To access and install apps from that Play Store, your devices need to be linked to that Enterprise ID.

Play Store requires a user to be logged in, to install apps. The idea with Android Enterprise is to install apps from the Enterprise without user interaction. For that reason, a Google Play Store service account is created on the device when it is linked to the Enterprise ID.

Android Enterprise Requirements:

There are some requirements that must be fulfilled to link a device to an Android Enterprise ID:

- 1. Device must be Android Enterprise compatible (Android 9 or newer)
- 2. Device must be enrolled either as Device Owner or Profile Owner
- 3. Android requires a device passcode must be present (minimum length: 4) <u>Android Enterprise</u> <u>key features</u>

Devices used in this blog

- Samsung Galaxy A51 updated to Android 11
- Nokia 3.4 updated to Android 11

Android Enterprise Compatible Devices

The only way to check if a device is compatible is to check <u>Android Enterprise Compatible device</u> <u>directory</u>. According to Androids glossary and specification of <u>Devices</u>, Android 9 and above devices should be compatible with Android Enterprise.

However, according to this <u>newsletter</u>; Samsung officially did not join Android Enterprise until Nov 2020 and only selected Samsung devices running Android 11 and above can be found in the directory.

When checking the directory for the two devices, I used to write this blog, I could find the <u>Nokia 3.4</u> in the directory, but not the Samsung Galaxy A51 (SM-A515F).

But What if My Device is not in the Directory?

If your device is not in the directory, you can try and see if it works anyway. There are no guaranties, but you can try.

Disclaimer: This is a best effort situation. If the device is not in the directory, it's not guaranteed to work.

In this example I checked if the Samsung A51 should be Android Enterprise compatible:

Open Configuration Management module and find the device.

On the device to go Inventory->Hardware tab. Check if "Capabilities" -> "Device Android Enterprise Supported" is "true"

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		iPad		Category	Entry	Value		
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		Samsung SM-A515F		Bluetooth Adapter	Bluetooth Scan Mode	CONNECTABLE		
	1	Samsung SM-J330F		Bluetooth Adapter	Bluetooth State	ON		
Users		1	Capabilities	Device Android Enterprise Supported	true			

In this case the value is true, and the device should be compatible.

Next on the device in Inventory->Hardware, check if "Capabilities" -> "Security" -> "Passcode is Present" is "true"

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	🔒 Security	Passcode is Present	True

In this case the value is true, and the device should be compatible.

If those two items report back both values are true, it should be possible to link the device to an Android Enterprise.

How to Link a Device to Android Enterprise

A device can be linked to an Enterprise ID in two ways:

- During enrollment (Enterprise ID and passcode is added in the enrollment configuration)
- Unit command on an already enrolled device

During Enrollment

In CapaInstaller 6.0 a new field, Android Enterprise, was added to the enrollment configuration in the MDM Enrollment payload.

If you want to link a device during enrollment you have to select the Enterprise account and set a default passcode.

The passcode can be changed later manually, or you can link a passcode profile.

Open CapaInstaller Installer Console -> System Administration -> Enrollment Configurations and select the MDM payload.

Android Enterprise				
Android Enterprise Account:	LCC			
Default Device Password:	****			

During the enrollment process, the agent will validate if a device passcode is set and if it is compatible with Android Enterprise.



When all steps have been validated, the enrollment is completed, and the device is linked to the Enterprise ID.

On the details tab on the device in console, you can see the device is linked

🧧 Details 🎲 Change log 🕄 Inventor	y 🧰 Groups 🍓 Relations 🔄 Profiles/ap	plications 📃 Self Service
	Business Unit	N/A
	Enrollment date	17. august 2021
	Last run date	23. august 2021 12:38:53 (8 minutes ago)
	Status	Active
200	State	Operational
Sameung SM-A515E	Online status	Connected
Android phone	Description	
Samsung SM-A515F	Primary User	
	Phone number	
	Subscription Carrier	
	IMEI number	35
	Operating system	Android 11
	Device identifier (UUID)	2eae43ee-JC Control Co
	Serial Number	File of Tables.
	Android Enterprise	Enterprise ID: LCC, Account ID: 09@android-for-work.gserviceaccount.com
	Capabilities	Android, Android Device Owner, Lost Mode Possible, Wipe Supported, Clearing of Passcode Supported, Device Lock Supported, Restart Supported, Rename Supported, Android Enterprise Supported

On the device, open the Play Store, and check if the service account is created



When the device is linked, you can link and install the approved apps from the managed Play Store. Either in console where you link the app to device or from Play Store on the device.

Linking an already enrolled device

An already enrolled device can be linked to an Android Enterprise as well as a device being enrolled. Remember the requirements for Android Enterprise:

- 1. Device must be compatible with Android Enterprise
- 2. Device passcode must be present
- 3. Device must be enrolled as Device Owner or Profile Owner.

Check the device you want to link if it is already enrolled. Before you try to link the device to the Android Enterprise, check if the device is already linked to an Android Enterprise. If it is not, check if a device passcode is present.

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j∎ ve	Change rog of the interior	Business Unit Enrollment date Last run date Status State Online status Description Primary User Phone number Subscription Carrier IMEI number Operating system Device identifier (UUID) Serial Number Android Enterprise Capabilities	N/A 23. august 2021 23. august 2021 23. august 2021 13:54:43 (3 minutes ago) Active Operational Connected Android I1 Android 11 Not linked to Android Enterprise Android, Android Device Owner, Lost Mode Possible, Wipe Supported, Clearing of Passcode Supported, Device Lock Supported, Restart Supported, Rename Supported

When the 3 requirements have been checked and they are fulfilled, you can send the Android Enterprise unit command to the device to link it to the Android Enterprise. In Configuration Management module on the device, right click and select "Android Enterprise" and then "Link to Enterprise".

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🖅 😽 Users	Android Enterprise	•	Link to Enterprise		
	Linked user	۲	Unlink from Enterprise	e	Operational
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Asset Management	Clone			Phone number	
Change Log	Generate Self Service token			Subscription Carrier	
Carlowerking Management	Delete			IMEI number	A REPORT OF A R
Configuration Management	Properties			Operating system	Android 11

The Link Android Enterprise – CapaInstaller Console appears. Select the Enterprise ID and click OK.

4 Link Android Enterprise - CapaInstaller Console X					
Link to the following Android Enterprise					
This will queue a command which will be sent to the device in order to finish the linking.					
Current name:	CapaSystems - LC	~			
Change description:					
		OK Cancel			

Wait till device has returned hardware inventory

🖉 Details 🍞 Change log 🕷 Inventory 🥃 Groups 🍓 Relations 🔄 Profiles/applications 🔄 Self Service			plications 📃 Self Service
		Business Unit	N/A
		Enrollment date	17. august 2021
		Last run date	23. august 2021 12:38:53 (8 minutes ago)
		Status	Active
	2 9 2 2	State	Operational
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		Phone number	
		Subscription Carrier	
		IMEI number	35
		Operating system	Android 11
		Device identifier (UUID)	2eae43ee-JCC Com Duding Control Control Control
		Serial Number	R and an and a second
		Android Enterprise	Enterprise ID: LCC, Account ID: 09@android-for-work.gserviceaccount.com
		Capabilities	Android, Android Device Owner, Lost Mode Possible, Wipe Supported, Clearing of Passcode Supported, Device Lock Supported, Restart Supported, Rename Supported, Android Enterprise Supported
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When the Enterprise ID and Account ID is present and the device is linked, apps can be installed from managed Google Play Store.