Service Servic

Intune &

Knox Platform for Enterprise

June 2022 Samsung R&D Centre UK (SRUK)



Agenda

- 1. Pre-requisites for Knox Platform for Enterprise
- 2. Configure Android Enterprise
- 3. Android Enterprise Deployment Modes
 - Work Profile
 - Fully Managed Device
 - Fully Managed Device with a Work Profile
 - Work Profile on Company Owned Device
 - Dedicated Device
- 4. Configure Knox Service Plugin [KSP]
- 5. Configure Knox Platform for Enterprise

Contacts:

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Knowledge Base: https://docs.microsoft.com/en-us/mem/intune/

- 1. Obtain access to Microsoft Endpoint Manager Endpoint Manager is the new home for Microsoft Intune. The Intune link within Azure is no longer accessible and Administrators should access the console by using the link: https://endpoint.microsoft.com
- 2. A Gmail account to map to Intune for Managed Google Play
- 3. Consider what enrollment method to use:
 - Knox Mobile Enrollment (KME)
 - QR Code enrollment
 - Email enrollment
 - Server details enrollment

- Within Microsoft Endpoint Manager, navigate to: Devices > Android > Android enrollment
- Select Managed Google Play
- Select I agree and click Launch Google to connect now

Microsoft Endpoint Manager a	admin center		Managed Google Play Android enrollment			
«	Home > Devices >		1/1/2 Disconnect			
숚 Home	📻 Android Android e	nrollment	Status: Not Setup	Google Account: Not Available		
🗔 Dashboard	-		Organization:	Registration Date:		
E All services	✓ Search (Ctrl+/) «	Set up devices with one of these Android Enterprise solutions. And	Not Available	Not Available		
★ FAVORITES	() Overview	features for personal and company-owned devices. To enable thes account to Intune. To enroll Android devices with device administr	*	\$		
Devices	Android devices	prerequisite. Learn more	You must connect Intune to your company's managed Google Play account	nanaged Google Play account to manage Android enterprise devices. Follow the steps below to enab		
Apps	Android enrollment	Android Enterprise	Android enterprise enrollment. Learn More.			
퉋 Endpoint security	Android policies	Prerequisites	1. I grant Microsoft permission to send both user and device information to	Google. Learn More.		
Reports	Compliance policies		✓ I agree.			
📩 Users		Managed Google Play				
🍰 Groups	Configuration profiles	Link your managed Google Play account to Intune.	2. Connect your Intune tenant to an administrative Google account to enable	le Android enterprise enrollment.		
🔊 Tenant administration			Launch Google to connect now.			
X Troubleshooting + support						

- Sign into your Google account and select Get Started
- Fill out the Contact details page, tick the Managed Google Play agreement page and then select Confirm. These text fields are not mandatory, so you can alternatively leave them blank and just tick the Managed Google Play agreement and then select Confirm
- Click Complete Registration to complete the Android Enterprise configuration and return to Microsoft Endpoint Manager



Deployment Modes

Android Enterprise can be deployed in the following 5 deployment modes

- 1. Work Profile [formerly known as Profile Owner or PO]
- 2. Fully Managed Device [formerly known as Device Owner or DO]
- 3. Fully Managed Device with a Work Profile [*formerly known as Company Owned Managed Profile or COMP*] on Android 10 or before
- 4. Work Profile on Company Owned Device or WPC on Android 11 or later
- 5. Dedicated device [formerly known as COSU]

Intune can support <u>all</u> 5 of these deployment modes. In this next section we will show you how to configure each of these 5 deployment modes in Intune for your device fleet.



Once you link your Google account, Android Enterprise Work Profile enrollment is enabled by default. To Work Profile enroll, follow the below steps:



Install Intune Company Portal From Google Play Store	SIGN IN And then enter your username and password	BEGIN	CONTINUE	Agree	Creating work profile	CONTINUE	DONE
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How to tell that Work Profile has been successfully set up:







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Android Enterprise: Fully Managed

- Within Microsoft Endpoint Manager, navigate to: Devices > Android > Android enrollment
- Select Corporate-owned, fully managed user devices
- Make sure Allow users to enroll corporate-owned user devices is set to Yes
- If you're using KME, you can use the Token to simplify the enrollment steps and force the user to enroll into your tenant. Copy and Paste the below JSON code into Custom JSON Data field in your KME Profile, changing YOUR TOKEN to the Token displayed in your Corporate Device Enrollment Token.

{"com.google.android.apps.work.clouddpc.EXTRA_ENROLLMENT_TOKEN":"YOUR TOKEN"}

If you're not using KME you should provide the QR code shown under Enrollment token to your end users. You will need to print screen this or copy the image and email it to your end users. The QR code should then be scanned on the initial setup screen which is explained in the next slide.



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Android Enterprise: Fully Managed Enrollment (with QR code 1/2)





Tap anywhere on the screen 6 times	Scan the enrollment QR code	Next	Continue	Next	Accept & continue	Sign in with your Office 365 account
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Android Enterprise: Fully Managed Enrollment (with QR code 2/2)





Android Enterprise: Fully Managed Enrollment (with KME 1/2)





Android Enterprise: Fully Managed Enrollment (with KME 2/2)







How to tell that a Fully Managed Device has been successfully set up:



Sparse set of applications including Intune



Device belongs to your organization on lock screen

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Android Enterprise: Fully Managed with a Work Profile (COMP or WPC)

- Within the Microsoft Endpoint Manager console, navigate to: Devices > Android > Android enrollment
- Select Corporate-owned devices with work profile (Preview)
- Select Create profile

« free Home	Home > Devices >	enrollment		Microsoft Endpoint Manager	admin center
Dashboard	Search (Ctrl+/)	Set up devices with one of these Android Enterprise solutions. Andr features for personal and company-owned devices. To enable these	oid Enterprise supports the most up-to-date and secure manager features in your organization, you must link your managed Goog	«	Home > Devices > Android Android enrollment >
FAVORITES Devices	 Overview Android devices 	account to Intune. To enroll Android devices with device administra prerequisite. Learn more	tion privileges, enable the Android device administrator solution i	Dashboard	
 Endpoint security Reports 	Android enrollment	Prerequisites		All services FAVORITES	+ Create profile ∇ Filter $\equiv \exists$ Columns \downarrow Export
Lusers	Configuration profiles	Managed Google Play Link your managed Google Play account to Intune.		Devices	Create and assign enrollment profiles and tokens for corporate-owned devices with we
Tenant administration Troubleshooting + support		Enrollment Profiles	.	Endpoint security	D Search by name Name
		Personal devices with work profile Manage personal enrollments with work profiles.	Corporate-owned dedicated devices Manage device owner enrollments for kiosk and task devices.	Reports	No profiles found.
		Corporate-owned, fully managed user devices	Corporate-owned devices with work profile	A Groups	
		devices.	Manage enrollments for corporate devices with work profiles.	X Troubleshooting + support	



- Enter a Name, select Next
- Select a scope tag (optional) select Next
- Select Create
- To view your Token and QR code, select your profile in the profiles list
- If you're using KME, you can use the Token to simplify the enrollment steps and force the user to enroll into your tenant. Copy and paste the below JSON code into Custom JSON Data field in your KME Profile, changing YOUR TOKEN to the Token displayed in your Corporate Device Enrollment Token.
 {"com.google.android.apps.work.clouddpc.EXTRA_ENROLLMENT_TOKEN":"YOUR TOKEN"}
- If you're not using KME you should provide the QR code shown in your enrollment profile to your end users. You will need to print screen this or copy the i
 mage and email it to your end users. The QR code should then be scanned on the initial setup screen which is explained in the next slide.

1 Basics 2 Scope tags 3	Review + create	✓ Basics 2 S	Scope tags ③ Review + create	✓ Basics	🗸 Scope tags	3 Review + create
Name * ①	Fully Managed with a Work Profile	Configure scope tags for these terms and conditions		Summary		
Description	Optional	Scope tags		Basics		
		Default		Name		Fully Managed with a Work Profile
		+ Select scope tags		Description		
Previous Next				Scope tags		
		Previous	Next	Default		
Home > Devices > Android Android enrollment	>		Fully Managed with a Work Pr \times	Previous	Create	
Corporate-owned devices wi	th work profile		Use this taken or OB code to enroll devices Jearn more	_		
+ Create profile ∇ Filter \equiv Columns \downarrow	Export		Token BPXT			
Create and assign enrollment profiles and tokens for c	orporate-owned devices with work profiles. Learn mo	e				
Name						
Fully Managed with a Work Profile						



Android Enterprise: Fully Managed with a Work Profile Enrollment (QR code 2/3) ^{© Knox}





















Android Enterprise: Fully Managed with a Work Profile Enrollment

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How to tell that Fully Managed with a Work Profile has been successfully set up:







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Android Enterprise: Work Profile on Company Owned Device Enrollment (KME 2/3)



Android Enterprise: Work Profile on Company Owned Device Enrollment (KME 3/3)



How to tell that Work Profile on a Company Owned Device has been successfully set up:





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Android Enterprise: Dedicated Device

- Within the Microsoft Endpoint Manager console, navigate to: Devices > Android > Android enrollment
- Select Corporate-owned dedicated devices
- Select Create profile

Microsoft Endpoint Manager admin center 🕀 🗳 🋞	Microsoft Endpoint Manager a	ıdmin center
Image: Comparison of the provide o	 Home Dashboard All services FAVORITES Devices Apps Endpoint security Reports Users Groups Fonant administration Troubleshooting + support 	Home > Devices > Android Android enrollment > Corporate-owned dedicated devices Android enrollment

- Enter a Name and set a Token expiration date, then click Next
- Select a scope tag (optional) select Next
- Select Create
- To view your Token and QR code, select your profile in the profiles list
- If you're using KME, you can use the Token to simplify the enrollment steps and force the user to enroll into your tenant. Copy and paste the below JSON code into Custom JSON Data field in your KME Profile, changing YOUR TOKEN to the Token displayed in your Corporate Device Enrollment Token. {"com.google.android.apps.work.clouddpc.EXTRA_ENROLLMENT_TOKEN":"YOUR TOKEN"}
- If you're not using KME you should provide the QR code shown in your enrollment profile to your end users. You will need to print screen this or copy the i
 mage and email it to your end users. The QR code should then be scanned on the initial setup screen which is explained in the next slide.

1 Basics 2 Scope tags	3 Review + create	✓ Basics	2 Scope tags (3) Review + create		2 Paviaw L create
Name * (i)	Kiosk Profile	Configure scop	e tags for these terms and conditions		• Review + create
Description	Optional	Scope tags		Summary	
		Default			
		+ Select scope	tags	Basics	
Token expiration date $*$ ()	11/11/2020			Name	Kiosk Profile
Previous Next		Previous	Next	Description	
				Token expiration date	11/11/20
Home > Devices > Android Android enrollment > Corporate-owned dedicated de	evices		Kiosk Profile		
Android enrollment + Create profile ♥ Filter ☷ Columns ↓ Export	nt		Use this token or QR code to e Token woh wis	Scope tags	
Create an enrollment profile for Android Enterprise dedicat	ted devices and send a token to who will be enrolling	the device. Learn more	Token explicit of date 11/11/20, 12:16 PM	Default	
Search by name Name	¢ψ⊂ τα	oken expiration date		Previous	
Kiosk Profile	15	1/11/2020			

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Create an Azure Active Directory Group

- Within the Microsoft Endpoint Manager console, navigate to Groups and select New Group
- "Group type = Security" "Group name = Name of your choice " "Group description = Optional" "Me mbership type = Dynamic Device"
- Click Add dynamic query
- Add the following rule:

(device.enrollmentProfileName -match "Kiosk Profile")

Microsoft Endpoint Manager a	ndmin center		* Group type					
«	Home >		Security			~		
A Home	Groups All groups		* Group name 👩					
E All services	«	+ New group	Android Enterprise Klosk Profile	Configure Rules	Validate Rules (Preview)			
* FAVORITES	🏜 All groups		Group description (You can use the rule b	uilder or rule syntax text box to create or	edit a dynamic membership rule. 🛈 Lea	arn more	
Devices	Deleted groups	> Search groups	Android Enterprise Kiosk Profile					
Apps	✗ Diagnose and solve problems	Name	* Membership type 👩	And/Or	Property	Operator	Value	
🔍 Endpoint security	Settings		Dynamic Device		enrollmentProfileName	Match	Kiosk Profile	Ĩ
Reports	🖏 General							
Lusers	🐯 Expiration		Owners	T Add expression				
🎎 Groups	🐯 Naming policy			Rule syntax				🖉 Edit
🔗 Tenant administration	Activity		* Dynamic device members 🚯	(device.enrollmentPro	fileName -match "Kiosk Profile")			
🗙 Troubleshooting + support	š≡ Access reviews		Add dynamic query					
	Audit logs							
								_

Add the Managed Home Screen

- Within Endpoint Manager, navigate to: Apps > Android apps
- Select Add
- Set the App type to: Managed Google Play app
- Click Select

Home	Home > Apps > Android Android a	pps		Select app type ×
All services	✓ Search (Ctrl+/) «	🕂 Add 🕐 Refresh 🍸 Filter 🞍 Expor	rt ≣≣ Colu	App type Managed Google Play app
★ FAVORITES	📕 Android apps	Filters applied: Platform, App type		
Devices		Search by name or publisher	_	Managed Google Play ann
Apps		Name ↑↓ Type		
Lendpoint security		Add-On: Samsung Mana	aged Google	Search the built-in managed Google Play store to find and add apps for Android Enterprise
Reports		AnyConnect Mana	aged Google	
Users		Boosted - Productivity & Time Tracker Mana	aged Google	Learn more
Groups		Cisco Webex Meetings Mana	aged Google	
Tenant administration		Dropbox: Cloud Storage to Backup, Sy Mana	aged Google	
X Troubleshooting + support		Evernote – Organizer, Planner for Not Mana	aged Google	
		F5 Access Mana	aged Googli	
		Gmail Mana	aged Google	
		Google Chrome: Fast & Secure Mana	aged Google	
		Intune Company Portal Mana	aged Google	
		Knox E-FOTA One Mana	aged Googli	
		Knox Service Plugin Mana	aged Google	
		KNOX Status Samsung Mana	aged Google	
		Managed Home Screen Mana	aged Google	
		Messages Mana	aged Google	Select Cancel

Android Enterprise: Dedicated Device

- Search for the "Managed Home Screen" and approve the app.
- Press Sync to add the apps to the apps list.
- Click on the Managed Home Screen in the apps list and select Properties
- Select Edit next to Assignments

Managed Goo	gle Play		Client Apps	Screen Properties	
♦	Search	٩	Search (Ctrl+/) Overview Manage Properties	« App information Edit Name Description Publisher	Managed Home Screen Managed Home Screen Microsoft Corporation
 ▶ ♦ ♦ ♦ 		Managed Home Screen Microsoft Corporation ***** 111 *	Monitor Device install status User install status	Appstore UKL	id=com.microsoft.launcher.enterprise&hl=GB
		 PEGI 3 This app offers managed configuration This app is only available in certain countries Select Unapprove Approval Preferences 		Available licenses Total licenses Scope tags Edit Default Assignments Edit	0

Android Enterprise: Dedicated Device

- Select Add group
- Search for and click on the Kiosk Device Group
- Click Select
- Click Review + save
- Click Save

Edit application	Select groups ×	Edit application Managed Google Play store app	Edit application Managed Google Play store app
Managed Google Play store app	C Kiosk Kiosk Device Group Selected	Assignments Review + save	Assignments Review + save Summary
Assignments Review + save		Group mode Group	Assignments
Required ①		Included Kiosk Device Group	Required Kiosk Device Group Available for enrolled devices Available with or without enrollment
Group mode	Selected items	+ Add group ① + Add all users ① + Add all devices ① Available for enrolled devices ①	Uninstall
	KD Kiosk Device Group Remove	Group mode Group	
+ Add group		+ Add group ① + Add all users ①	
		Available with or without enrollment ①	
		Group mode Group	
	Select	Review + save Cancel	Save Cancel

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Create a Kiosk Profile

- Within Endpoint Manager, navigate to: Devices > Android
- Click Configuration profiles and then Create profile
- Set the Platform to Android Enterprise and the Profile to Device Restrictions
- Click Create

Microsoft Endpoint Manager a	dmin center				Create a profile
«	Home > Devices >				Platform
1 Home	Android Configurat	ion profiles			Android Enterprise
🗔 Dashboard		I			Device restrictions
\ All services		+ Create profile ≡≡ Column	ns 🕐 Refresh 🞍 Export	🔽 Filter	Device restrictions
★ FAVORITES	() Overview				This profile is for fully managed, dedicated, and corporate-owned wo
Devices	🖣 Android devices	Profile Name	Platform	Profile	
Apps	Android enrollment			_	
, Endpoint security	Android policies	-			
Reports		-			
🚨 Users	Configuration profiles	-			
邉 Groups	Configuration promes	-			
🔗 Tenant administration					
X Troubleshooting + support		-		_	Create

Create a Kiosk Profile

- Enter a Name and select Next
- Scroll down to Device experience
- Select Dedicated device for Enrollment profile type
- Choose whether you would like a Single or Multi-app mode
- Click Next

1 Basics ② Configu	ration settings ③ Scope tags ④ Assignments ⑤ Review + create	✓ Basics ② Configuration settings ③ Scope tags ④ Assignments ⑤	Review + create
Name *	Kiosk Config	V General	
Description		System security Device experience	
		Fully managed and dedicated devices These settings only work for fully managed and dedicated devices.	
		Enrollment profile type ① Dedicated device	~
		Configure a kiosk-style experience on your dedicated devices. Prior to configuring th apps and deploy any apps you want to the devices.	nese settings, go to Client
Platform	Android Enterprise	Learn about Android Enterprise dedicated devices.	
Profile type	Device restrictions	Kiosk mode Multi-app	~
		Select an app to use for kiosk mode *	
Previous Next		com.microsoft.teams	Ē
		+ Select an app to use for kiosk mode	
		Previous Next	

Create a Kiosk Profile

- Once you have created your configuration, select Next
- Scope tags are optional, select Next
- Click Select groups to include
- Search for and add the Kiosk Device Group, click Select
- Click Next and then Create

Device restrictions	Home > Devices > Android Configuration profiles > Device restrictions	Select groups to include Azure AD Groups	×	✓ Basics ✓ Configuration set	tings 🗸 Scope tags	 Assignments 	5 Review + create	- 1
	Android Enterprise	P Kiosk	×	Summary				
\checkmark Basics \checkmark Configuration settings	✓ Basics ✓ Configuration settings ✓ Scope tags ④ Assignments ⑤ Review	KD Kiosk Device Group		Basics				
Scope tags	Included groups Assign to Selected groups Selected groups	Jeeven		Name Description Platform	Kiosk Config Android Enterprise			- 1
Default	No groups selected			Profile type	Device restrictions			- 1
+ Select scope tags	+ Select groups to include Excluded groups			Configuration settings				
Previous Next	When excluding groups, you cannot mix user and device groups across include and exclude. Click here to le	Selected items	Remove	Leave kiosk mode code Enrollment profile type	1234 Dedicated device			- 1
	Selected groups	Nosk bevice oroup		Kiosk mode	Multi-app App name ↑↓	Package Name ↑↓	App store URL $\uparrow \downarrow$	Publishe
	No groups selected + Select groups to exclude				Microsoft Outlook Microsoft Teams	com.microsoft.office.o	. Not configured Not configured	Microsof Microsof
	Previous Next	Select	_	Leave kiosk mode Previous Create	Enable			

Android Enterprise: Dedicated Device Enrollment (with QR code 1/2)





Tap anywhere on the screen 6 times	Scan the enrollment QR code	Next	Continue	Next	Accept & continue	Sign in with your Office 365 account

Android Enterprise: Dedicated Device Enrollment (with QR code 2/2)

The Knox Platform for Enterprise solution provides a robust set of features on top of the core Android Enterprise platform, to fill security and management gaps and meet the strict requirements of highly regulated industries.

The Knox Platform for Enterprise solution comes in a two tiered offering:

- Knox Platform for Enterprise : Standard Edition [FREE]
- Knox Platform for Enterprise : Premium Edition [FREE, or \$ for advanced options such as Dual DAR]

Knox Platform for Enterprise : Standard Edition offers free additional policies you can use to provide enhanced security, manageability and usability over your Samsung device fleet, running Android Enterprise 8.0 or above.

- Within the Endpoint Manager console, navigate to: Apps > Android apps > Add
- Set the App type to Managed Google Play app and click Select
- Search for and approve the Knox Service Plugin

Home Dashboard	Home > Apps > Android Android apps	Select app type ×
All services All services FAVORITES Devices Apps Endpoint security Reports		App type Managed Google Play app Managed Google Play app Search the built-in managed Google Play store to find and add apps for Android Enterprise devices.
 Groups Tenant administration Troubleshooting + support 		Image: Second state Image: Second state Image: Second state Image: Second state
	•	Select Cancel Select Unapprove Approval Preferences

- Navigate to: Devices > Android > Configuration profiles
- Click Create profile
- Set the Platform to Android Enterprise
- Set the Profile to OEMConfig
- Click Create

Microsoft Endpoint Manager	Create a profi		
«	Home > Devices >		Platform
合 Home	Android Configuration	tion profiles	Android Enterprise
🗔 Dashboard		tion promes	Profile OEMConfig
All services	✓ Search (Ctrl+/) «	+ Create profile ≡	OEMConfig
★ FAVORITES	1 Overview	✓ Search by name	
Devices	Android devices	Profile Name	
Apps	Android enrollment		
🛼 Endpoint security	Android policies		
Reports	Compliance policies		
名 Users	Configuration profiles		
🎎 Groups	sar congression promos		
Tenant administration			
🗙 Troubleshooting + support			Create

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Knox Platform for Enterprise

- Enter a Name
- Description is optional
- Click Select an OEMConfig app
- Search for and select the Knox Service Plugin
- Click Select
- Click Next

 All services 	Create profile		Search by name or publish	ief 🗸
* FAVORITES	Basics Configuration setting	ags 3 Scope tags 4 Assignments 3 Review + create	App Name	Publisher
Devices	Name * 💿	KPE 🗸	Knox Service Plugin	Samsung Electronics Co., Ltd.
Apps	Description ()			
뤇 Endpoint security				
Reports				
🚨 Users				
🚑 Groups				
Tenant administration	OEMConfig app *	Select an OEMConfig app	Andrew Arrows	
🗙 Troubleshooting + support			Selected app:	
			Knox Service Plugin Sa	amsung Electronics Remov
	Previous Next		Select	

- Enter a Profile name
- To make use of the KPE Premium features, enter your KPE Premium License Key. This can be found in your

Samsung Knox Portal

- Set your desired configuration and select Next
- Scope tags are optional, select Next
- Choose an assignment and select Next
- Click Create

✓ Basics ② Configuration settings ③ Scope tags ④ Assignments ⑤ Review + create		Create profile	✓ Basics ✓ Configuration set	tings V Scope tags V Assignments 5 Review + create
Configure settings with	Configuration designer	OEMConfig	Summary	
Settings PLocate	e Knox Service Plugin For enterprise IT Admins to setup Knox policies on Samsung mobile devices.	Basics Configuration settings Scope tags Assignments S Review + create Included groups Assign to All users	Basics Name Description OEMConfig app	KPE Knox Service Plugin
	Profile name ① Clear		Configuration settings	
	KPE Premium License key ① XXX-XXXX-XXXX-XXXX Clear	Excluded groups	Profile name	KPE Profile
	Debug Mode () Clear	() When excluding groups, you cannot mix user and device groups across include and exclude. Click here to learn more.	KPE Premium License key	XXX-XXXX-XXXX
	Device-wide policies (Device Owner) ① Configure		Scope tags	
	Work profile policies (Profile Owner) () Configure	Selected groups	Default	
	DeX customization profile (Premium) ① Configure	No groups selected	Assignments	
	Device and Settings customization profile Configure (Premium)	+ Select groups to exclude	Included groups Excluded groups	All users
Previous Next	VDNL neofiles /Dromitum)_()	Previous Next	Previous	

This is version 3.0 of this document.

Thank you!

