SCEP Configuration

SCEP (Simple Certificate Enrollment Protocol) is a standardized protocol for certificate management, crucial for securely provisioning digital certificates to devices, including the devices managed by the Workspace ONE® SDK. These certificates are essential for device and user authentication, enabling secure access to corporate resources.

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Key Concepts

- Certificate: A digital certificate verifies the identity of a device or user.
- SCEP: A protocol that automates certificate requests and enrollment.
- Workspace ONE: A unified endpoint management (UEM) platform that includes tools and services to manage devices.
- Workspace ONE SDK: Provides libraries for developers to integrate Workspace ONE functionalities, including SCEP, into device applications.

SCEP Enrollment Process With Workspace ONE

When using Workspace ONE, the SCEP enrollment process involves these steps:

Creating an Organization Group (OG) in Workspace ONE UEM

Organization Groups are used to organize devices, users, and policies within the Workspace ONE UEM.

Steps:

- Navigate to Organization Group Details:
- Go to Groups & Settings > Groups > Organization Groups > Details.
- Select the Add Child Organization Group tab.
- Provide the following information. Refer screen capture below:

Groups & Settings > Groups > Organization Grou	ps	
Details		
Add Child Organization Group		
Name*	OGDescriptiveName	
Group ID	OGUniqueID	
Type *	Container v	
Country*	United States v	
Locale *	English (United States) [English (United States)]	
Time Zone *	(GMT-05:00) Eastern Time (US & Canada)	
	SAVE	

Screen Capture: OG Creation

• Select **Save** and save the settings.

Once inside your created OG, all further steps must be completed there.

Workspace ONE SCEP Configuration

The administrator configures SCEP settings in the Workspace ONE UEM, including the SCEP server URL, certificate templates, and enrollment policies.

Steps:

- Navigate to Certificate Authorities Settings:
- Go to Groups & Settings > All Settings > System > Enterprise Integration > Certificate Authorities and click Add to add a certificate authority.
- Enter the information from the SCEP server. Refer screen capture below:

Name *	DynamicSCEPDemo	
Description		
Authority Type *	Microsoft ADCS ~	
Protocol *	ADCS SCEP ()	
Version *	NDES 2008/2012 SCEP 2003	
SCEP URL*	http://10.87.130.23/certsrv/mscep/mscep.dll	
Challenge Type *	DYNAMIC STATIC ()	
Challenge Username	bccant	
Challenge Password	CHANGE	
Challenge Client Certificate	UPLOAD	
SCEP Challenge URL	http://10.87.130.23/certsrv/mscep_admin/	
Show Advanced Options		
Enable Proxy	ENABLED ()	

Screen Capture: Certificate Authorities

• Choose the **Authority Type** from the dropdown menu to match your SCEP server configuration. Refer screen capture below.

Certificate Authority -	- Add/Edit	×
Name *	DynamicSCEPDemo	
Description		
Authority Type *	V Microsoft ADCS	
Protocol *	Generic SCEP Verisign MPKI	
Version *	Symantee OpenTrust CMS Mobile Entrust	
SCEP URL *	SecureAuth RSA Certificate Manager	
Challenge Type *	GlobalSign JCCH Glaas	
Challenge Username	bccant	
Challenge Password	CHANGE	
Challenge Client Certificate	UPLOAD	
SCEP Challenge URL	http://10.87.130.23/certsrv/mscep_admin/	
Show Advanced Options		
Enable Proxy	ENABLED ①	
	SAVE SAVE AND ADD TEMPLATE	T CONNECTION CANCEL

Screen Capture: CA Authority Types

- After entering all details, click **Test Connection**.
- If the test is successful, a confirmation pop-up will appear; click **Save** to save the configuration.
- If the test is unsuccessful, check the server connection. Refer Screen Capture below:

	⊘ Test is successful	×	
Certificate Authority -	Add/Edit		×
Name *	DynamicSCEPDemo		
Description			
Authority Type *	Microsoft ADCS	×	
Protocol *	ADCS SCEP		
Version *	NDES 2008/2012 SCEP 2003		
SCEP URL*	http://10.87.130.23/certsrv/mscep/mscep.dll	(i)	
Challenge Type *	DYNAMIC STATIC		
Challenge Username	bccant		
Challenge Password		CHANGE	
Challenge Client Certificate	UPLOAD		
SCEP Challenge URL	http://10.87.130.23/certsrv/mscep_admin/		
Show Advanced Options			
Enable Proxy	ENABLED DISABLED		
	SAVE	SAVE AND ADD TEMPLATE	TION CANCEL

Screen Capture: CA Test Connection

• The next step is to add a certificate template. Switch to the **Request Templates** tab on the current screen. Refer Screen Capture below:

System	System > Enterprise Integration					
Certificate Authorities ⑦						
Certificate Authorities Request Templates						
Filters		» 🗘	ADD			

Screen Capture: CA Request templates

• Click 'Add' to add a Certificate Template. Enter the required information, select the previously added certificate authority, and save. Refer Screen Capture below:

Certificate Template -	Add/Edit	×
Name *	bynamicSCEPDemoTemplate	
Description		
Certificate Authority $*$	DynamicSCEPDemo v	
Issuing Template	certificatetemplate:MobileDevicesInterDynamic3Hrs	
Subject Name	CN=E=Vorname.Nachname@t-systems.com,CN={EnrolImentUser},OL	
Private Key Length *	2048 ~	
Private Key Type *	 ✓ Signing ✓ Encryption 	
Include Security Identifier (SID) in certificate		
SAN Type	Email address × {EmailAddress}	
	User Principal Name × {EnrollmentUser}@Asdk.AD	
	●Add	
Automatic Certificate Renewal	ENABLED DISABLED	
Publish Private Key	ENABLED DISABLED	
EKU Attributes	O Add	
	SAVE SAVE AND ADD TEMPLATE	ANCEL

Screen Capture: Certificate Template

With this Certificate authority and Certificate template configuration is completed in Workspace One UEM.

Active Directory Group Creation in Workspace ONE UEM

Workspace ONE UEM leverages your existing Active Directory (AD) infrastructure for user authentication and group management.

Steps:

- Navigate to AD(Active Directory) settings.
- Go to Groups & Settings > All Settings > System > Enterprise Integration > Directory Services and enter further information. Refer Screen Captures below:

Server Unit Group Convertence Others Science	
Convert Sering C Interes 🐞 Querrice	
Dentry Type* LDMP - Kolm Dentry - O	
265.597 EXALLS EXALLS CALLS	
Server ⁴ andwa01.andwat	
 Lit 1001 Lit 201 Lit 1001 Lit 201 	
Fart* 200	
Protect Winser*	
the lense Academical Booked D mice and D	
End Waterstrates Affet	
Bind (pursame) 0	
Gue End Pannerd 🛛 🔿	
kind Paraood Convert	
International State	
IKS01 IKKs01 IKKs01	
● Ab2 cleansk	
) Advanced	
Dar SMA for Authentication EXMAND DI UNICA D	
Auri-Kitrigata DMALID DMALID	
Châl/hemissies Orient Ocument 🔒 Interfut orientide	
AND TELESCONCERS IN	IT SETUP WIZARD

Screen Capture: AD Server

System > Enterprise Integration		
Directory Services @		
Server Uter Group		
Current Setting	🔿 inherit. 🛞 Dverride	
omain	Base DN*	
shad	CC-MARLEC-MD	
User Object Class*	perize	
User Search Filter*	(BobjectCategory=person(pMMAccountName=dimointentUser))	
> Advanced		
Child Permission	🔿 inherit. 🔿 Dverride 🔹 Inherit or override	
		SAVE TEST CONNECTION START SETUP WIZARD
	United United Street or resolution	SAVE TEST CONNECTION START SETUP WIZARD



System > Enterprise integration		
Directory Services @		
Server User Group		
Current Setting	🔿 inberit 🐞 Dverride	
Domain	Base ON*	
208-2d	DCANBEDCARD +	
Group Object Class #	\$1040	
Permittation of their Philary Philary	- exemplifying	
organizations on organization	adjustance out on	
) Advanta		
Child Permission	🔿 inherit. 🔿 Dverride 📵 Inherit or override	
		SAVE TEST CONNECTION START SETUP WIZARD

Screen Capture: AD Group

• After entering all details, click **Test Connection**. A confirmation pop-up will appear; click **Save** to save the configuration.

Configuring SCEP Details in SDK Profile in Workspace ONE UEM

This configuration allows applications that integrate the Workspace ONE SDK to obtain certificates for authentication and other security purposes. SDK profiles can be configured with either default or custom options.

Steps(DEFAULT):

- Navigate to default SDK profile settings.
- Go to Groups & Settings > All Settings > Apps > Settings and Policies > Security Policies.
- Enable Integrated Authentication by selecting the previously created CA (Certificate Authority) and its template from the dropdown menus. Refer Screen Capture below:

Settings	Global / androidci 🛩		×
> System	Biometric Mode *	ENABLED DISABLED (T)	
> Devices & Users	1		
* Apps	Single Sign-On	ENABLED DISABLED	
> App Scan	Integrated Authentication		
Workspace ONE Web		ENABLED DISABLED	
> Workspace ONE	Use Enrollment Credentials	ENABLED DISABLED	
Container			
 Settings and Policies 	Use Certificate	ENABLED DISABLED	
Security Policies			
Settings	Credential Source	Defined Certificate Authority *	
SDK App Compliance	Certificate Authority *	DynamicSCEPDemo v	
Policies			
Content	Certificate Template *	DynamicSCEPDemoTemplate *	
Email	Allowed Sites *	*	
Telecom		h and a second se	
Admin		Separate URL prefixes with new lines or commas. Use * as a wildcard for the domains. For example: *airwatch.com, *airwatch.com*,	
Installation	Offline Access	ENABLED DISABLED	
	Compromised Protection	ENABLED DISABLED ()	
	Play Integrity Evaluation Type	All Evaluation Types v	Android
	AirWatch App Tunnel	ENABLED DHARED	

Screen Capture: SCEP Settings in SDK Profile

• Click Save to save the default SDK profile.

Steps(CUSTOM):

- If you want to create a custom SDK profile, go to Devices > Profiles & Resources > SDK Profiles and click Add Profile.
- Select the Android platform and click Next.
- Enter the required information and select the previously created CA (Certificate Authority) and its template from the dropdown menus. Refer Screen Captures below:

t Configuration						×
Select the profile configuration type t	o get started					
Configuration Type	SDK Profile Use this profile to configure your apps that have full Workspace ONE SDK embedded	Application Profile Use this profile to configure your credentials that have full Workspace ONE SDK embedded	Components Profile Use this profile to configure your apps that have components of the modular SDK embedded	App Wrapping Profile Use this profile to configure your apps that have gone through our wrapping service		
Platform	IOS ANDROID					
					NEXT	CANCEL

Screen Capture: SCEP Settings in Custom SDK Profile

Add a new Android Profile ×				
Find Payload	A			
General	Authentication			
Authentication	Single Sign-On			
Restrictions	Integrated Authentication			
Compliance	Allowed Sites *	•		
Offline Access				
Proxy				
Network Access				
Logging				
Custom Settings				
Content Filtering				
Credentials				
Geofencing				
Analytics				
				Θ
				SAVE CANCEL

Screen Capture: SCEP Settings in Custom SDK Profile IA

Add a new Android Profile				
Find Payload	Cradantiala			
General	Credentials			
Authentication	Credential Source	Defined Certificate Authority ~		
Restrictions	Cartificate Authority *	DuramicSCERDama		
Compliance	Cerement Potentiny	Dynamicacle Demo		
Offline Access	Certificate Template *	DynamicSCEPDemoTemplate v		
Proxy				
Network Access				
Logging				
Custom Settings				
Content Filtering				
Credentials 1				
Geofencing				
Analytics				
			$\oplus \Theta$	
		SAVE	CANCEL	

Screen Capture: SCEP Settings in Custom SDK Profile Cert

• Click Save to save the custom SDK profile.

After saving, navigate to your application and assign the newly created SDK profile(default or custom).

Device Application enrolment

Enrol the device application in this server and Organization Group with AD(Active Directory) user information. Workspace ONE then delivers the SDK profile with SCEP configuration to the managed device. Sample Application Code for Workspace ONE for Android SDK is available at Integration Guide For Android.

Setup Verification

When the SCEP endpoint is accessed, the URL connection should return an HTTP 200 (OK) response, confirming successful certificate issuance.

11:16 🌣 🥝 堂 🔹 🔹	▼⊿∎				
Integrated Authentication :					
Relevant Policies					
Integrated Authentication	Enabled				
Use Enrollment Credentials	Disabled				
Use Certificate	Enabled				
https://uaginteria.ssdevrd.com:6443/					
AWHTTPCLIENT	AWURLCONNECTION				
AWOKHTTPCLIENT	AWWEBVIEW				
BASIC URLCONNECTION					
200					

Screen Capture: SCEP Verification

Document Information

Revision History

22 May 2025 Initial Publication.

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