

# MobileIron Cloud

## Cisco Security Connector Setup Guide

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## MobileIron and Cisco Security Connector Setup Guide

### Introduction

Cisco Security Connector provides visibility and control for enterprise-owned and Unified Endpoint Management (UEM) managed Apple IOS system devices, such as iPhones and iPads. This increases security and compliance of mobile devices by providing the capability to audit workflow by users and applications. In addition, organizations can gain control over their mobile endpoints by regulating connectivity to the Internet through <u>DNS and IP requests</u>

Mobileiron Unified Endpoint Management (UEM) solution will configure and manage iOS devices using Apple Device Enrollment Program (DEP) framework. This ensures all corporate security controls are enabled and applied. Along with this, MobileIron UEM solution will also manage application distribution via Apple Volume Purchase Program (VPP) and publish apps, in this case, the Cisco Security Connector app. Mobileiron UEM solution will then help to configure the app on the device by pushing the mobileconfig file (a custom xml payload) that was provided by Cisco's Umbrella and Clarity.

#### **Requirements**

The following are the minimum system requirements for the Cisco Security Connector and Mobileiron:

- A device running IOS system version 11.2 or higher:
  - running in supervised mode with Device Enrollment Program (DEP)
  - managed by Mobileiron Cloud or On-Premise solution leveraging the Volume Purchase Program (VPP) to purchase, distribute and manage the app lifecycle.
  - having 5 MB free space on the device.
- Access to Cisco Advanced Malware Protector (AMP) for Endpoints and Cisco Umbrella instances
- If your devices are used on wifi networks behind a firewall, the Cisco Security Connector needs access to certain servers over specific ports.
  - The firewall must allow connectivity from the Connector to the following servers over HTTPS (TCP 443):
    - Event Server intake.amp.cisco.com/event/
    - Management Server mgmt.amp.cisco.com/agent/v1/
    - Cloud Host cloud-ios-asn.amp.cisco.com
    - Enrollment Server cloud-ios-est.amp.cisco.com

- For IPv4 DNS protection, direct access to the IPv4 IP addresses 208.67.222.222 or 208.67.220.220 is required.
- For IPv6 DNS protection, direct access to the IPv6 IP addresses 2620:119:35::35 or 2620:119:53::53, or access to IPv4 addresses via NAT64/DNS64 translation is required
- Note: if DNS protection fails to engage then DNS traffic is not encrypted
- The device must be able to communicate with \*.opendns.com for registration & validation purposes at least once a day.

#### **Overview and Integration workflow**

- 1. Enable and configure the DEP and VPP settings on the MobileIron On-Premise / Cloud solution
- 2. Register the devices into MobileIron UEM and push the apps to the devices
- 3. Enable the Cisco Security Connector app with Clarity AMP Dashboard
  - a. Export Mobileiron's custom xml payload from AMP Dashboard.
  - b. Upload the custom XML payload (.mobileconifg) to Mobileiron.
  - c. Apply the payload to the device in order to configure the app
- 4. Enable the Cisco Security Connector app with Umbrella Dashboard
  - a. Export Mobileiron's custom xml payload from the Umbrella Dashboard.
  - b. Upload the custom XML payload (.mobileconifg) to Mobileiron.
  - c. Apply the payload to the device to configure the app

### **Settings and Configuration**

#### **DEP and VPP in MobileIron**

For more about DEP, VPP and their configurations on Mobileiron see:

- DEP Getting Started
- How to distribute apps with VPP

**Note** : As part of the VPP, get the free licenses for Cisco Cisco Security Connector app and distribute them to the devices.

On MobileIron Cloud start by identifying the user group you will deploy the Cisco Security Connector app to. To create a new user group for the deployment:

- 1. Login to MobileIron Cloud
- 2. Select users > user group and create a new user group
- 3. Build the criteria to obtain and add users to the group either manually or by using filters

To import the Cisco Security Connector app:

1. Go to apps > Add >> Select IOS system Store



2. Search for Cisco Security Connector app, select it and hit Next in the bottom right corner



3. Add a description (optional)



4. Select the admin space where you want to deploy to the Cisco Security Connector app

	Dashboard Users Devices Apps Content Configurations Policies Admin	
	App Catalog Categories Reviews Catalog Settings Distribution Filters Apple VPP	
Add App Cancel	Cisco Security Connector	
Describe	App Delegation ③	
<ul> <li>3 Delegate</li> <li>4 Distribute</li> <li>5 Configure</li> </ul>	<ul> <li>Define whether this app should be inherited by newly created spaces.</li> <li>Delegate this app to all spaces</li> <li>Do not delegate this app to all spaces</li> </ul>	
		$\bigcirc$
	- Back	Next →

5. To deploy the Cisco Security Connector app, select the target user group. If you would like to do this for a particular group, then select **custom** and choose the user group you created earlier at the beginning. If a custom group is already created then select that and click **Next.** 

**Note :** It is always recommended, for scalability, visibility and better control, that you use specific distribution groups and deploy the configuration and apps to only those devices.

	Dashboard Users Devices	Apps Content Configurations Policies	Admin 🖉 💽
	App Catalog Categories Review	vs Catalog Settings Distribution Filters	Apple VPP
Add App Cancel	Cisco Security Conr	nector	
Describe	Choose one of these options		
Delegate			
4 Distribute 5 Configure	-	*	
	Everyone	No One	Custom
	All users with compatible devices will see app in the App Catalog	a this No user will receive this app. (Stage for later distribution).	Define specific User Groups and Individuals who should see the app in the App Catalog

6. Next you will taken to the app configuration page. Here, click "**Done**" at the bottom right corner to finish the app import process.

**Note**: It may take few moments for the server to pull the metadata and reflect it on the MobileIron console.

# Enabling the Cisco Security Connector app with the Clarity AMP Dashboard

1. Export Mobileiron's custom xml payload from AMP Dashboard.

From the AMP Console:

- Go to Management > Deploy Clarity for IOS system.
- Select the AMP for Endpoints Group which is assigned to your intended IOS system policy.
- Click Download MobileIron Profile.
- 2. Upload the custom XML payload (.mobileconifg) to Mobileiron and deploy to devices.

For MobileIron Cloud:

- Identify the device group that will receive the configuration. If you choose to create a new device group, then go to **devices > device group** and create one with the necessary filter criteria, or manually add devices into the device group.
- Next on the MobileIron Cloud console, navigate to Configurations, click on Add and search for "Custom" configuration. Select that option to import and distribute a predefined configuration file to the device by clicking next at the bottom right corner.

	Dashboard	Users	Devices	Apps	Content	Configurations	Policies	Admin
	+ Add	Actions $\checkmark$						
N > CLOUD	Dashboard	Users	Devices	Apps	Content	Configurations	Policies	Admin
Add Configuration	Cancel							
Filters X	Custom		$\otimes$					
OS V	Custon Import an predefine	n nd distribute a ed configuratio	n file.					
OS Version V ios 9+								

3. Give the configuration a name and choose iOS as the operating system.



4. Click **Choose** or **drag and drop** the mobileconfig file you downloaded from the AMP console and click **next** 

Configuration Se	tup	ios	
Upload .plist or .mobi	ileconfig file to create the custom configuration settings.		
File data	MICloud-Certify-withCSC_amp_ios.mobileconfig File successfully added! Choose a different file		$\sim$
← Back			Next →

5. Select the device group to publish the configuration to. The recommended approach is to define a group specifically for the Cisco Security Connector app deployment. To do this, select that group under "Custom" and click **done**.

	Dashboard Users Devices Apps	Content Configurations	Policies Admin		
Add Config Cancel	X Create Custom Configura	tion			
Create Settings	Import and distribute a predefined confi	guration file.			
2 Distribute	<ul> <li>Enable this configuration</li> <li>This configuration will be applied to selected devices.</li> </ul>				
	Choose one of these options				
		Z			
	All Devices	No Devices	Custom		
	All compatible devices will have this configuration sent to them	Stage this configuration for later	distribution Define specific Device Groups that will have this configuration sent to them		

#### Define Device Group Distribution Select options below to distribute Configuration.

All (6)	Selected (0)
Android Devices (0)	
Android Enterprise Devices (0)	
iOS Devices (1)	
Windows Devices (0)	
macOS Devices (0)	
tvOS Devices (0)	

#### Distribution Summary

List of device users as they are added to the distribution.

NAME	*	PHONE #	DEVICE TYPE	
There is no	informat	ion to display.		

`	/	

Done

# Enabling the Cisco Security Connector app with the Umbrella Dashboard

1. Export Mobileiron's custom xml payload from the Umbrella Dashboard.

To deploy from MobileIron you will need to download a Mobileconfig file from the Umbrella dashboard first.

Navigate to **Identities > Mobile Devices** and click the **MobileIron Config** download button. **Save** the file downloaded.



Next, download the Umbrella Root Certificate. Navigate to **Policies > Root Certificate**. Then click **Download Certificate** and **save** the resulting .cer file.

2. Upload the custom XML payload (.mobileconifg) to Mobileiron and deploy it to the device along with the root certificate.

For MobileIron Cloud,

- First identify the device group to publish the configuration to. If you choose to create a new device group, then go to devices > device group and create one with the necessary filter criteria or manually add devices into the device group.
- Edit the mobileconfig downloaded from Umbrella dashboard with the help of any text editor and find and replace "\$DEVICE\_SN\$" value with "\${deviceSN}" and save the changes in the file

<key>serialNumber</kev> <string>\${deviceSN}</string> </dict> </dict> </array> <key>PayloadDisplayName</key> <string>Cisco Security</string> <key>PayloadIdentifier</key> <string>com.cisco.ciscosecurity.app.CiscoUmbrella.DBE2A157-E134-3E8C-B4FB-23EDF48A0CD1</string>

3. Next on the Mobileiron console, navigate to **Configurations** and click on **add** and search for "**Custom**" configuration. Select the option to import and distribute the configuration file by clicking on **next** at the bottom right corner of the screen



4. Give the configuration a friendly name and choose the operating system as iOS

N > CLOUD	Dashboard Users I	Devices Apps	Content Configurations	Policies	Admin
Add Config Cancel	Create Custo	m Configuration	DN ation file.		
2 Distribute	Name Cloud Security Connector - Ur + Add Description	nbrella Profile			
	Choose OS iOS	mac	Android		Windows

5. Click **Choose** or **drag and drop** the mobileconfig file you edited with text editor to reflect the device Serial number variable and click **next**.

Note : If this is for MobileIron Core (On Premise solution) then you do not need to edit the variable.

Configuration Se	tup	iOS	
Upload .plist or .mob	leconfig file to create the custom configuration settings.		
File data	mobileconfigMobileIron-6.xml File successfully added! Choose a different file File for inclusion on device		$\bigcirc$
← Back			Next →

6. Select the device group you wish to publish the configuration. If you have created a device group specifically for Cisco security Connector app deployment (which is recommended approach) then select that under "**Custom**" section and and click **done**.

To upload and distribute the Cisco Umbrella root certificate in MobileIron's MI Cloud:

1. For MobileIron Cloud, navigate to Configurations on the console and click on **add**. Search for "**Certificate**" and click **next**.

) > CLOUD		Dashboard	Users	Devices
Add Configura	ation	Cancel		
Filters	$\times$	Certificate		$\otimes$
OS	)	Certifica Adding ce to establis networks.	a <b>te</b> ertificates allov sh trust with s	ws devices ervers and
OS Version	$\sim$			

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2. Name the configuration

CLOUD	Dashboard	Users	Devices	Apps	Content	Configurations	Policies	Admin
Add Config Cancel          1       Create Settings         2       Distribute	Cisco Umbrell + Add Descrip	ate Cer g certificate Often, thes these system a Root Cert	tificate ( es on devices se systems a ms is more se	Configu s allows de re already s ecure and i	ration vices to estat set up with pu mproves the	blish trust with serve ublicly verifiable cer user experience.	ers and netwo tificates, in w	orks such as

3. Click **Choose** or **drag and drop** the rootcert file you downloaded from the Umbrella console and click **next** 

onliguration Setup	
Certificate data Cisco_Umbrella_Root_CA.cer File successfully added! Choose a different file X.509 certificate (.cer ) files for inclusion on device	

4. Again, select the device group you wish to publish the rootcert. If you have created a device group specifically for Cisco security Connector app deployment (which is recommended approach) then select that under "Custom" settings section and and click done.

#### References

More information about Cisco Security Connector can be found at these links: <u>https://www.cisco.com/c/en/us/products/security/security-connector/index.html</u> <u>https://docs.umbrella.com/deployment-umbrella/docs/cisco-mobile-security-setup-guide</u> <u>https://docs.umbrella.com/deployment-umbrella/docs/mobileiron-configuration</u> (contains steps that can be followed when using MobileIorn Core)

ARE there MobileIron links we should add?

### **Contact Information**

Please contact the Mobileiron Technology Ecosystem team at <u>ecosystem@mobileiron.com</u> with any questions.