

MobileIron and Cisco

Identity Services Engine Configuration Guide

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What is Cisco ISE?

Cisco Identity Service Engine (ISE) is usually deployed with Cisco WiFi Access Points as a form of NAC (Network Access Control). Based on identity information received from Cisco ISE, decisions are made whether or not to allow a device to join a network

Cisco ISE now integrates with the two major components of MobileIron's Unified Endpoint Management (UEM) platform -- MobileIron Core (on-premise) and MobileIron Cloud -- to receive security posture information about mobile devices and tablets. Supported UEM device actions available from the Cisco ISE portal include Pin Locking, which locks a device but does not impose or set a new PIN, and Full Device Wipe.

Additional ISE-originated commands may be available in future releases. MobileIron Cloud supports Version 2 of Cisco ISE APIs. A silver MobileIron Cloud license is necessary to enable the ISE integration.

Note: the industry naming convention for mobility management software has changed from Mobile Device Management (MDM) to Enterprise Mobility Management (EMM), to its most recent classification in 2018 of Unified Endpoint Management (UEM). Because MobileIron's underlying code still contains references to the original "mdm", we will use MDM throughout this document when referring to MobileIron's solutions.

Getting MobileIron ready for Cisco ISE

First, basic connectivity must be established between the Cisco ISE server and the MobileIron MDM server. In both the on-premise and cloud models, a firewall is typically located between the two servers. The firewall should be configured to allow an HTTPS session from ISE located in the data center to the MDM server located in either the corporate DMZ or public Internet. The session is established outbound from ISE towards the MDM where ISE takes the client role. This is a common direction for Web traffic through corporate firewalls.

Configuring MobileIron to support Cisco ISE calls

Core (On-Premise)

The MobileIron MDM API is protected by HTTPS and requires a user account that has been granted permission to the API. Ideally, a specific account would be configured for ISE with a very strong password. In addition to this account, only a limited number of administrator accounts should be granted the ability to create new administrators or assign administrator roles.

Step 1: Create an account

Creating local user accounts is accomplished by logging into the Mobileiron Core admin portal >> Devices and Users >> Add >> Add Local Users

	🐴 > CORE	Dashboard	Devices	& Users	Admin
		Devices	Users	Labels	Actives
	Actions - Add -	Resync With LDAP			
	Add New User				×
100	User ID	APluserCiscolSE			
	First Name	Cisco			
	Last Name	API User			
	Display Name	APluserCiscolSE			
	Password				
	Confirm Password				
	Email	15EAdmin@ironworks.con	n		
			Cancel	Sa	ve

Step 2: Assign API role

Once the account has been created, it is assigned roles to allow ISE access to the API Role. To do this, Mobileiron Core admin portal >> Admin >> Select the user >> Actions >> Edit Roles >> scroll to other roles and select API

Note: Ensure the local user is in the delegated admin space that will allow the privilege to get the API Role

Cloud

First, you will need to determine which cluster you belong to. You will need to enter this information in the **Hostname or IP Address field** on the Cisco ISE platform later.

Step 1: Determine the cluster your instance belongs to

From Chrome, Firefox, or Safari, log onto your instance from the URL https://login.mobileiron.com



Your Cluster will be displayed in the URL bar after your username is entered. Valid options include:

na1.mobileiron.com na2.mobileiron.com na3.mobileiron.com eu1.mobileiron.com ap1.mobileiron.com ap2.mobileiron.com sandbox.mobileiron.com (internal testing only)

(i) 🔒 https://na1.mobileiron.com/login.html?uid=russ@	s.net&whiteLabelKey=ee	C
	Mobile Iron	
	Username	
	russ@s.net	
	Password	
	Forgot p	assword?
	Sign In	
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Step 2: Assign the ISE role to the user

Next, create a user on MobileIron Cloud and assign the ISE role to them.

Navigate to Users and select the user you would like to assign the **Cisco ISE Operations** role to. This user's credentials will be configured on the Cisco ISE Admin portal. You do not need to select all of the roles for the Cisco ISE user, only the **Cisco ISE Operations** role is necessary.

(i) a https://na1.mobileiron.	com/index.htr	nl#!/users/detail/%7	3%22id%22:32	2067467,%22	callbackURL%22:%2	22%252Fi
Scloud	Dashboa	rd Users	Devices	Apps	Content	Config
← Back to list	Users	User Groups	User Se	ettings	User Branding	
ISE Admin	Edit	Actions ~				
First Name: ISE Last Name: Admin	Devi	Assign to Group Remove from Gro Send Message	pup ;	License U	sage Roles	A
Email Address: iseadmin@limbonetworks.net	6	Invite User to Reg	gister			
Enabled: Yes	l	Assign Roles Delete				
Username: iseadmin@limbonetworks.net						
Invite Status: Not Invited						
Source: LOCAL						
Google Account: N/A						
Google Status: Not Enabled Sync with Google User Directory						
# of Licenses Used: 0 User Licenses (For 0 Active Devices)						
User Groups: All Users						



Alternate method: You may also navigate to **Users** and select **Add+.** You will have the option to add an API User that does not have **access to the admin portal.**

ACME	Dashboard	Users	Devices
	Users	User Groups	User Se
14 users	+ Add	Actions \checkmark	
Find users	Multiple Us Single User	ers	
Account Source V	API User		

You can now log into the Cisco ISE portal to continue the configuration.

Add MDM server to Cisco ISE Admin Portal

Once the account has been defined on the MobileIron MDM server with the proper roles, ISE can be configured to use this account when querying the MDM for device information. ISE will contact the MDM to gather posture information about devices or to issue device commands, such as corporate wipe or lock. The session is initiated from ISE towards the MDM server

Log into the Cisco ISE Admin portal. Navigate to **Administration >> Network Resources >> External MDM**

dentity Services Engine	Home	Operations	Policy	For the second seco	 Administration 	Work Cente	rs		0	License Warnin
Metrics Total Endpoints		A	Active Endpoin	ts	System Deployment Licensing		Network Resources Network Devices Network Device Grou	ps	pxGrid Services Feed Service Profiler	
dentity Services Engine	Home	 Operation 	ns ⊧P	olicy 🕨 🕨 Guest A	Access - Admini	stration V	ork Centers			0
System Identity Management	✓ Netwo	rk Resources	Device	Portal Management	pxGrid Services	Feed Service	 Identity Mapping 			
Network Devices Network Device	e Groups	Network Devic	e Profiles	External RADIUS	Servers RADIUS	Server Sequence	es NAC Managers	External MDM	Location Se	ervices
MDM Servers										
/ Edit Add X Delete										
Name		Status		Service Provid	der	MD	M Server			Description
				NTP Sync Fa	ih		Settings			

Select Add

Configure the connection by giving a friendly name to your configuration. In the **Hostname or IP Address** field, enter the cluster you determined your MI Cloud tenant is located as determined from the earlier section and

if you are using Core, then key in the IP address or the hostname of Core that ISE can reach and establish connection. It is not necessary to enter http://or https://before the hostname.

Configuration fields

Name: Name your configuration, this can be whatever you like.

Hostname or IP Address: na1.mobileiron.comOR core.mobileiron.com(example only)

Portfield: 443 (*default port for admin portal on Core*; *if a custom port is configured to access admin portal of Core, then specify that here.*)

Instance Name: Leave this blank

Username: this is the full format of the user that the **Cisco ISE Operations** role was assigned to.

Password: The password for the user that the Cisco ISE Operations role was assigned to.

Polling Interval: This is a value in minutes. ISE will obtain new information from MobileIron Core / Cloud when the polling interval expires. Setting the value to zero will disable polling. Polling is used to periodically check the MDM compliance posture of an end station. The polling interval is a global setting and cannot be set for specific users or asset classes. If the polling interval is set, then it should match the device check-in period defined on the MDM

For example, if the MDM is configured such that devices will report their status every four hours, then ISE should be set to the same value and no less than half of this value. Oversampling, the device posture will create unnecessary loads on the MDM server and reduced battery life on the mobile devices. There are other considerations with respect to scan intervals. Changing MDM timers should be done only after consulting with MobileIron's best practices.

MDM Server details

* Name	MI-Cloud-MDM	
* Hostname or IP Address	.mobileiron.com	Enter cluseter i.e nal.mobileiron.com
* Port	443	
Instance Name		
* User Name	user@domain.suffix	
* Password	•••••	
Description		
* Polling Interval	240	(minutes) (j)
	C Enable	
Used By Profiles	NONRegistered	
	Test Connection	

Test Connection: The Test Connection button shown above can be used to isolate and resolve common problems prior to developing MDM-based authorization policy. ISE will attempt to log in to the API and report back the result. Completing the test successfully is required prior to saving the settings. If the test does not complete successfully, the settings can still be saved, but the Enable box will be deselected and the MDM will not be active.

Cisco ISE API guide

You can download the latest version of supported Cisco ISE API's from MobileIron Core Cisco ISE API Guide

Supported API's (triggered from ISE)

These are the API's that Cisco ISE is calling in the background. The configuration of these API's on the CIsco ISE portal is not necessary. The Cluster URL uses the value entered in the **Hostname or IP Address** field in the ISE configuration step. For a full listed of Cisco ISE v2 API's, please see MobileIron Core Cisco ISE API Guide

API Description	API Call
MDM info- retrieves general information about the MobileIron Cloud tenant	https:// <cluster url="">/ciscoise/mdminfo HTTP GET </cluster>
Get devices for the given single value filter criteria Get devices for the given multi value filter criteria	 https://<cluster url="">/ciscoise/mdmapi/v1/devices?</cluster> HTTP GET https://<cluster url="">/ciscoise/mdmapi/v1/ batchdevices?</cluster>
Take an action (pin_lock or full_wipe) supported	 https://<cluster url="">/ciscoise/mdmapi/v1/action</cluster> HTTP POST
Send a message to a device	https://< Cluster URL >/ciscoise/mdmapi/v1/ sendmessage • HTTP PUT

Examples of API data returned from Cloud to ISE

API Call: Retrieve basic information about tenant including version

https://na1.mobileiron.com/ciscoise/mdminfo

Method: GET

<?xml version="1.0" encoding="UTF-8"

standalone="yes"?> <ise_api>

<name>mdminfo</name>

<api_version>2</api_version>

<api_path>/ciscoise/mdmapi/v1</api_path>

<redirect_url>https://login.mobileiron.com</redirect_url>

<query_max_size>1000</query_max_size>

<messaging_support>true</messaging_support>

<vendor>MobileIron</vendor>

<product_name>MobileIron Cloud</product_name>

<product_version>38.0.0.49</product_version>

</ise_api>

GET 🗸	https://na1.mo	obileiron.com/ciscois	e/mdminfo			Para	ams	Send	~	Save	~
Authorization	Headers (1)	Body Pre-rec	luest Script	Tests					c	ookies	Code
Туре		Basic Auth		~			Clea	r	Update	Reques	t
Username Password		iseadmin@l	vorks.ne	t	The authorization hea added as a custom he	ader will be generated eader ata to request	and				
Body Cookies	Headers (14)	Tests				Sta	atus: 200 Oł	Time: (633 ms	Size: 9	40 B
1 xml ve</td 2 - <ise_api< td=""> 3 <nam< td=""> 4 <api< td=""> 5 <api< td=""> 6 <red< td=""> 7 <que< td=""> 8 <mess< td=""> 9 <ven< td=""> 10 <pro< td=""> 11 <pro< td=""> 12 </pro<></pro<></ven<></mess<></que<></red<></api<></api<></nam<></ise_api<>	ersion="1.0" er > ne>mdminfoversion>2path>/ciscois lirect_url>http try_max_size>10 ssaging_support ndor>MobileIror nduct_name>Mobi duct_version>1 vi>	ncoding="UTF-8" ne> pi_version> se/mdmapi/v1ps://login.mobil 000>>truen leIron Cloud38.0.0.49 <td>i_path> eiron.com g_support> roduct_name: ct_version></td> <td>"yes"?> redirec</td> <td>t_url></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	i_path> eiron.com g_support> roduct_name: ct_version>	"yes"?> redirec	t_url>						

API Call: retrieve information about a device

```
https://na1.mobileiron.com/ciscoise/mdmapi/v1/devices?queryCriteria=macadd
ress&value= 48:e9:f1:09:58:c8&paging=0
Method: GET
(based on the macaddress as queryCriteria)
<?xml version="1.0" encoding="UTF-8"
standalone="yes"?> <ise api>
  <name>attributes</name>
  <api version>2</api version>
  <paging_info>0</paging_info>
  <deviceList>
    <device>
      <macaddress>48:e9:f1:09:58:c8</macaddress>
      <attributes>
       <register_status>true</register_status>
       <compliance>
          <status>true</status>
       </compliance>
       <pin lock on>true</pin lock on>
       <jail_broken>false</jail_broken> <manufacturer>Apple
       Inc.</manufacturer>
       <udid>4cbd2a97e0b8f08522933aa1162e23da5939055f
       </udid>
       <serial_number>CCQP59AGG22V</serial_number>
       <os version>9.3.5</os version>
      </attributes>
    </device>
  </deviceList>
</ise api>
```

MDM Info	Get Device with iPod 1 × +	No Environme	ent	✓ ④ ‡
GET 🗸	https://na1.mobileiron.com/ciscoise/mdmapi/v1/devices?queryCriteria=macaddress&value=	Params	Send 💉	Save ~
	Show Password			
Body Cookies	Headers (14) Tests	Status: 200 OK	Time: 800 ms	Size: 1.28 KB
Pretty Raw	Preview XML V		ΓQ	Save Response
2 - <ise_api: 3</ise_api: 	<pre>>> >> >></pre>			

API Call: Retrieve devices that are out of compliance

https://na1.mobileiron.com/ciscoise/mdmapi/v1/devices/?paging=0&queryCrietera=compliance& fileter=all&value=false

Method: GET

(compliance value is set to false. Setting it to true would retrieve a list of compliant devices)

<?xml version="1.0" encoding="UTF-8" standalone="yes"?> <ise_api>

<name>attributes</name>

<api_version>2</api_version>

<paging_info>0</paging_info>

<deviceList>

<device>

<macaddress>10:2f:6b:ce:b5:f0</macaddress>

<attributes>

<register_status>true</register_status>

<compliance>

<status>false</status>

<failure_reason>Out of Contact</failure_reason>

</compliance>

<pin_lock_on>false</pin_lock_on>

<jail broken>false</jail broken>

<manufacturer>NOKIA</manufacturer>

<imei>353045067066348</imei>

<udid>urn:uuid:9F3A846F-0D50-51A6-A64C-3829EE5D7D56</udid>

<os_version>8.1</os_version>

<phone_number></phone_number>

</attributes>

</device>

<device>

<macaddress>a4:f1:e8:3c:a9:38</macaddress>

<attributes>

<register_status>true</register_status>

<compliance>

<status>false</status>

<failure_reason>Out of Contact</failure_reason>

</compliance>

<pin_lock_on>true</pin_lock_on>

<jail_broken>false</jail_broken>

<manufacturer>Apple Inc.</manufacturer>

<udid>042458ff962250dacd0cf3ef0b318b2efa93207d</udid>

<serial number>CCQR62AFGGK5</serial number>

<os_version>9.3.2</os_version>

</attributes>

</device>

<device>

<macaddress>94:d7:71:d2:25:4e</macaddress>

<attributes>

<register_status>false</register_status>

<compliance>

<status>false</status>

<failure_reason>Compromised

Devices</failure_reason> </compliance>

<pin_lock_on>false</pin_lock_on>

<jail_broken>true</jail_broken>

<manufacturer>samsung</manufacturer>

<imei>357742051405922</imei>

<meid></meid>

<udid>7c96043f36477a4ad20d3376faf0011178468799d7435396d03c01f27201de7c</u did>

<serial_number>R31D8100NXL</serial_number>

<os_version>4.2.2</os_version>

<phone_number></phone_number>

</attributes>

</device>

<device>

<macaddress>a4:f1:e8:a8:f4:b3</macaddress>

<attributes>

<register_status>false</register_status>

<compliance>

<status>false</status>

<failure_reason>Out of Contact</failure_reason>

</compliance>

<pin_lock_on>true</pin_lock_on>

<jail_broken>false</jail_broken>

<manufacturer>Apple Inc.</manufacturer>

<imei>35 545007 032832 1</imei>

<meid>35545007032832</meid>

<udid>1f08f6251d49cc8efb69f8706baf2f08b90ed95a

</udid>

<serial_number>DMPR9A42H256</serial_number>

<os_version>9.3.5</os_version>

<phone_number></phone_number>

</attributes>

</device>

<device>

<macaddress>fc:db:b3:09:53:be</macaddress>

<attributes>

<register_status>true</register_status>

<compliance>

<status>false</status>

<failure_reason>Out of Contact</failure_reason>

</compliance>

<pin_lock_on>false</pin_lock_on>

<jail_broken>false</jail_broken>

<manufacturer>samsung</manufacturer>

<imei>990004872072834</imei>

<meid></meid>

<udid>273b5e693f922ca9b88abc73712a5a0e7241e2da3d1a42e564c77c6d037a5089< /udid>

<serial_number>R28G627G92L</serial_number>

<os_version>5.0.2</os_version>

<phone_number></phone_number>

</attributes>

</device>

<device>

<macaddress>c0:f2:fb:37:56:13</macaddress>

<attributes>

<register_status>true</register_status>

<compliance> <status>false</status>

<failure_reason>Out of Contact</failure_reason>

</compliance>

<pin_lock_on>true</pin_lock_on>

<jail_broken>false</jail_broken>

<manufacturer>Apple Inc.</manufacturer>

<udid>63fc6f4d22ded20e17a6317cf864bf0965f218a5</udid>

<serial_number>F4KN855FG5V1</serial_number>

<os_version>9.3.2</os_version>

</attributes>

</device>

<device>

<macaddress>ac:bc:32:1d:8e:a4</macaddress>

<attributes>

<register_status>true</register_status>

<compliance>

<status>false</status>

<failure_reason>Out of Contact</failure_reason>

</compliance>

<pin_lock_on>true</pin_lock_on>

<jail_broken>false</jail_broken>

<manufacturer>Apple Inc.</manufacturer>

<udid>9fc420d031b7b5af737264dbc4f4581fb1d1eb58</udid>

<serial_number>CCQQN2TTGGK5</serial_number>

<os_version>9.1</os_version>

</attributes>

</device>

<device>

<macaddress>a4:31:35:a2:51:72</macaddress>

<attributes>

<register_status>true</register_status>

<compliance>

<status>false</status>

<failure_reason>Out of Contact</failure_reason>

</compliance>

<pin_lock_on>true</pin_lock_on>

<jail_broken>false</jail_broken>

<manufacturer>Apple Inc.</manufacturer>

<udid>d68b77a59f21c2cdc78772485a936098bcb9837a</udid>

<serial_number>CCQQ347QGGK5</serial_number>

<os_version>10.0.2</os_version>

</attributes>

</device>

<device>

<macaddress>a4:f1:e8:3c:d1:06</macaddress>

<attributes>

<register_status>false</register_status>

<compliance>

<status>false</status>

<failure_reason>Out of Contact</failure_reason>

</compliance>

<pin_lock_on>true</pin_lock_on>

<jail_broken>false</jail_broken>

<manufacturer>Apple Inc.</manufacturer>

<udid>5bbff6a5b9c7aab78316798245ff1a3528fcfb04</udid>

<serial_number>CCQR628MGGK5</serial_number>

<os_version>10.0.1</os_version>

</attributes>

</device>

</deviceList>

</ise_api>

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API Call: Lock the device if a device passcode is present

https://na1.mobileiron.com/ciscoise/mdmapi/v1/action/?actionType=pin_lock

Method: POST

This command is sent as XML. In the Postman example, the XML is configured in the Bodyfield. Full_Wipeis also supported. The Enterprise_Wipeaction is not currently supported.

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in Lock			
post \vee	https://na1.mobileiron.com/ciscoise/mdmapi/v1/action/?actionType=pin_lock	Params Send	Save Save
uthorization	Headers (2) Body Pre-request Script Tests		Cookies Co
4 d d 5 6 <th>macaddress>48:e9:f1:09:58:c8 ntifier> ></th> <th></th> <th></th>	macaddress>48:e9:f1:09:58:c8 ntifier> >		

Example XML (Identifier is MAC Address)

<?xml version="1.0" encoding="UTF-8"?>

<ise_api>

<identifier>

<macaddress>48:e9:f1:f3:58:d8</macaddress>

</identifier>

</ise_api>

Successful call output

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
```

<ise_api>

<name>action</name>

<api_version>2</api_version>

<deviceList>

<device>

<macaddress>48:e9:f1:09:58:c8</macaddress>

<result>

<action_status>true</action_status>

</result>

</device>

</deviceList>

</ise_api>

