

Monitoring Cisco UC Voice Operating System (VOS) Applications

Cisco: UC VOS Applications PowerPack version 106

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Chapter

1

Introduction

Overview

This chapter describes how to monitor Cisco Unified Communications (UC) Voice Operating System (VOS) applications in the ScienceLogic platform.

The following sections provide an overview of Cisco UC VOS and the Cisco: UC VOS Applications PowerPack:

What are Cisco UC VOS Applications?
What Does the Cisco: UC VOS Applications PowerPack Monitor?
Installing the Cisco: UC VOS Applications PowerPack

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What are Cisco UC VOS Applications?

The following Cisco UC applications and devices share the Cisco Voice Operating System (VOS):

- Cisco Contact Center Express (CCX)
- Cisco Unity Connection (CUC) servers
- Cisco Hosted Collaboration Mediation for Fulfillment (HCM-F)
- Cisco HCS Intelligent Loader
- o Cisco IM & Presence (IM&P) servers
- Cisco Prime License Manager (PLM)
- Cisco Emergency Responder
- Cisco Prime Collaboration Deployment (PCD) servers
- Cisco SocialMiner

NOTE: In the past, Cisco labeled VOS as "Cisco Unified Communications Operating System" and "Cisco Unified Operating System."

What Does the Cisco: UC VOS Applications PowerPack Monitor?

To monitor Cisco VOS applications using the ScienceLogic platform, you must install the Cisco: UC VOS Applications PowerPack. This PowerPack enables you to discover, model, and collect data about VOS applications.

The Cisco: UC VOS Applications PowerPack includes:

- Three example credentials you can use as templates to create SOAP/XML and/or Basic/Snippet credentials to connect to the VOS applications you want to monitor
- Dynamic Applications and Run Book Actions to discover, model, and monitor performance metrics and/or collect configuration data for VOS applications and devices.
- Device Classes for each of the VOS applications and devices the ScienceLogic platform monitors
- Event Policies and corresponding alerts that are triggered when VOS devices meet certain status criteria

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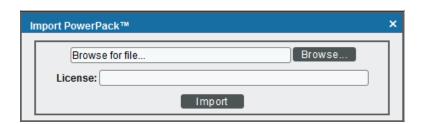
Installing the Cisco: UC VOS Applications PowerPack

Before completing the steps in this manual, you must import and install the latest version of the Cisco: UC VOS Applications PowerPack.

TIP: By default, installing a new version of a PowerPack overwrites all content in that PowerPack that has already been installed on the target system. You can use the *Enable Selective PowerPack Field Protection* setting in the *Behavior Settings* page (System > Settings > Behavior) to prevent new PowerPacks from overwriting local changes for some commonly customized fields. (For more information, see the *System Administration* manual.)

To download and install a PowerPack:

- 1. Download the PowerPack from the ScienceLogic Customer Portal.
- 2. Go to the **PowerPack Manager** page (System > Manage > PowerPacks).
- 3. In the PowerPack Manager page, click the [Actions] button, then select Import PowerPack.
- 4. The Import PowerPack dialog box appears:



- 5. Click the [Browse] button and navigate to the PowerPack file.
- 6. When the PowerPack Installer modal page appears, click the [Install] button to install the PowerPack.

NOTE: If you exit the PowerPack Installer modal page without installing the imported PowerPack, the imported PowerPack will not appear in the PowerPack Manager page. However, the imported PowerPack will appear in the Imported PowerPacks modal page. This page appears when you click the [Actions] menu and select Install PowerPack.

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Chapter

2

Configuring Cisco UC VOS Applications for Monitoring

Overview

The following sections describe how to configure Cisco UC Voice Operating System (VOS) applications for monitoring by the ScienceLogic platform using the Cisco: UC VOS Applications PowerPack:

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Configuring Cisco UC VOS Applications for Monitoring

Before performing the other tasks in this chapter, you must create accounts for the different Cisco VOS applications that you want to monitor in the ScienceLogic platform. The following sections describe how to configure the Cisco VOS applications.

Configuring SNMP for Cisco VOS Applications

The ScienceLogic platform uses SNMP to collect information about the following Cisco VOS applications:

- Cisco Contact Center Express (CCX)
- Cisco Unity Connection (CUC) servers
- Cisco Hosted Collaboration Mediation for Fulfillment (HCM-F)
- Cisco HCS Intelligent Loader
- Cisco IM & Presence (IM&P) servers (optional)
- Cisco Emergency Responder
- Cisco Prime Collaboration Deployment (PCD) servers (optional, but recommended)
- Cisco SocialMiner

To configure SNMP for Cisco VOS applications:

- 1. Log in as an administrative user to the command-line interface of the Cisco VOS application that you want to monitor. You can also use SSH to connect to the application.
- 2. Run the following command with additional parameters as needed:

```
utils snmp config
```

3. When prompted, add additional SNMP information. The following image displays additional configuration parameters, based on SNMP version (version 1 or 2, or version 3):

```
admin:utils snmp config 1/2c
     utils snmp config 1/2c community-string*
     utils snmp config 1/2c inform*
     utils snmp config 1/2c trap*
admin:utils snmp config 3
      utils snmp config 3 trap*
      utils snmp config 3 user*
```

4. For additional SNMP configuration commands and instructions, see the Cisco Command Line Interface Reference Guide.

Creating the User Account for the Platform Administrative Web Services (PAWS) API

To get access to the Platform Administrative Web Services (PAWS) API, you can create a new user account by using the command-line interface on the console of the Cisco VOS application that you want to monitor. You can also use SSH to connect to the application.

You can then use this user account to connect to the following Cisco VOS applications:

- Cisco Contact Center Express (CCX)
- Cisco Unity Connection (CUC) servers
- Cisco Hosted Collaboration Mediation for Fulfillment (HCM-F)
- Cisco HCS Intelligent Loader
- Cisco IM & Presence (IM&P) servers
- Cisco Unified Communications Manager (CUCM)
- Cisco Prime License Manager (PLM)
- Cisco Prime Collaboration Deployment (PCD) servers
- Cisco SocialMiner

To create the PAWS API user account:

- 1. Log in as an administrative user to the command-line interface of the Cisco VOS application that you want to monitor.
- 2. To create the new account, run the following command:

```
set account name new_account_username
```

3. The interface prompts you for the privilege level and password for the new account:

```
admin:set account name em7paws

Privilege Levels are:
   Ordinary - Level 0
   Advanced - Level 1

Please enter the privilege level :0
        Please enter the password :*******
        re-enter to confirm :*******

Account successfully created
```

- 4. Set the privilege level to 0.
- 5. Type the password, then retype the password to confirm.

6. Newer versions of Cisco Unified Communications products require that new accounts created with the command-line interface must change the password at the first login. This requirement blocks the account from accessing the PAWS API until you change the password. To remove the requirement for this account, run the following command:

```
set password change-at-login disable new_account_username
```

- 7. To confirm that the user account works with the Cisco PAWS API, log in as an administrator to one of the following addresses:
 - https://ip-address-of-cisco-application:8443/platformservices/services/ProductService?wsdl
 - https://ip-address-of-cisco-application:8443/platformservices/services/ClusterNodesService?wsdl

NOTE: If you receive a message that the user does not have permission to access a page, then the Cisco VOS application requires a user account like the one you just created to access the PAWS API. You might get this message if you are using Cisco Unified Communications products older than version 9, because those products do not use the PAWS API. In this situation, use the credential setup for non-PAWS API. Also, you cannot use any Dynamic Applications that use the PAWS API, but you can use the SNMP and Application APIs.

Configuring Cisco Unity Connection

You can create a user account for Cisco Unity Connection applications that gives you access to other Cisco APIs such as Administrative XML (AXL), Serviceability, and Real-Time Monitoring Service. You can configure this account using the web-based interfaces for the Cisco applications. This account does not have access to the PAWS API.

NOTE: To create a PAWS API user account for Cisco Unity Connection, see Creating the User Account for the Platform Administrative Web Services (PAWS) API.

To create the user account for Cisco Unity Connection:

- In a browser window, navigate to the following address:
 https://ip-address-of-cisco-application/cuadmin/home.do
- 2. Navigate to the relevant **Edit Users Basics** page for your version of Cisco Unity Connection (User > Users).
- 3. Create a new user and complete the fields as needed.
- 4. Select the role of **Technician** or **System Administrator**.
- 5. Save the new user account.

- 6. To confirm that the user account works with the Cisco APIs, log into one of the following addresses:
 - https://ip-address-of-ciscoapplication:8443/realtimeservice/services/RisPort?wsdl
 - https://ip-address-of-ciscoapplication
 :8443/controlcenterservice/services/ControlCenterServicesPort?wsdl
- 7. If you are not prompted for the username and password when testing the addresses, your previous administrative login might still be active. Close the browser and navigate to the addresses again.

Configuring Cisco Unified Communications Manager IM and Presence

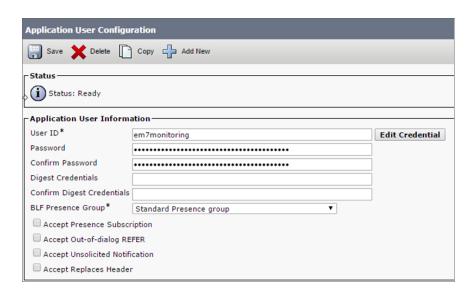
You can use the same account for Cisco Unified Communication Manager (CUCM) IM and Presence that you already created for CUCM. If you are creating an account specifically for monitoring IM and Presence, you only need the Standard CCM Server Monitoring Group.

NOTE: Because the ScienceLogic platform does not access the Administrative XML API for IM and Presence, the Standard AXL API Access role is not required.

To create a user account for CUCM IM and Presence:

- 1. In a browser window, navigate to the Cisco CUCM web interface:

 https://ip-address-of-cisco-cucm/ccmadmin/showHome.do
- 2. Navigate to the relevant **User Management** page for your version of Cisco CUCM (User Management > Application User):



3. Click the [Add New] button and complete the required information for the new user account.

4. In the Permissions Information section, select the **Standard CCM Server Monitoring** group and save the user record.



NOTE: To create the Level 0 PAWS API user account for CUCM, see Creating the User Account for the Platform Administrative Web Services (PAWS) API. The discovery process for IM and Presence queries the CUCM servers using this user account to determine the server role (IM and Presence or CUCM). As a result, the PAWS API user account needs to be enabled on the CUCM nodes during discovery for IM and Presence.

Configuring Cisco Prime License Manager

When Cisco Prime License Manager is co-resident with Cisco Unified Communications Manager, this release of the PowerPack cannot monitor Cisco Prime License Manager.

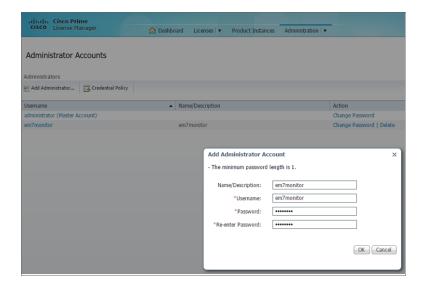
When Cisco Prime License Manager is installed as a standalone system, and is not co-resident with another Cisco product, you can only create administrative users for the application. You can use the existing administrator account or create a new account for monitoring.

To create a user account for Cisco Prime License Manager:

1. In a browser window, navigate to the following address:

https://ip-address-of-application/elm-admin/faces/main.xhtml

2. Navigate to the **Administrator Accounts** page for your version of Cisco Prime License Manager (Administration > Administrator Accounts):



- 3. Click **Add Administrator** and complete the required information.
- 4. After you create the user account, you can use the following address to confirm that the new account works with the APIs:

https://ip-address-of-application/elm-admin/faces/license usage.xhtml?

NOTE: To create a PAWS API user account for Cisco Prime License Manager, see Creating the User Account for the Platform Administrative Web Services (PAWS) API.

Configuring Cisco Prime Collaboration Deployment

To create the PAWS API user account for Cisco Prime Collaboration Deployment, see Creating the User Account for the Platform Administrative Web Services (PAWS) API.

Using the PAWS API user account, use SSH to connect to the command-line interface of the application, and then run the following command to get service status:

utils service list

Configuring Cisco Collaboration Mediation Fulfillment

To create the PAWS API user account for Cisco Collaboration Mediation Fulfillment, see *Creating the User Account for the Platform Administrative Web Services (PAWS) API*.

After you create the account, you can use the following address to confirm that the ScienceLogic platform can monitor Cisco Collaboration Mediation Fulfillment:

```
https://ip-address-of-application:8443/controlcenterservice/services/ControlCenterServicesPort?wsdl
```

Configuring Hosted Collaboration Solution Intelligent Loader

Cisco Hosted Collaboration Solution Intelligent Loader requires only a PAWS API user account. To create the PAWS API user account for Cisco Hosted Collaboration Solution Intelligent Loader, see Creating the User Account for the Platform Administrative Web Services (PAWS) API.

After you create the account, you can use the following address to confirm that the ScienceLogic platform can monitor Cisco Hosted Collaboration Solution Intelligent Loader:

```
https://ip-address-of-application:8443/controlcenterservice/services/ControlCenterServicesPort?wsdl
```

Configuring Cisco Contact Center Express

Cisco Contact Center Express does not let you create additional accounts that can access the Application API. Instead of creating an Application Monitoring user account, you must use the administrative account that was assigned when the product was first installed.

To create the PAWS API user account for Cisco Contact Center Express, see *Creating the User Account for the Platform Administrative Web Services (PAWS) API*.

Configuring Cisco Emergency Responder

You can only use SNMP to monitor the Cisco Emergency Responder. To set up SNMP for the Cisco Emergency Responder, see Configuring SNMP for Cisco VOS applications.

Configuring Cisco SocialMiner

To set up SNMP for Cisco SocialMiner, see Configuring SNMP for Cisco VOS applications.

To create the PAWS API user account for Cisco SocialMiner, see Creating the User Account for the Platform Administrative Web Services (PAWS) API.

To use a Social Miner account, make sure that the account has Administrator credentials for API access. You can use an existing SocialMiner administrator account or create a new account for monitoring that has administrator permissions.

NOTE: Because Cisco SocialMiner is a virtual machine that does not support clusters, the ScienceLogic platform creates a cluster for each SocialMiner device during the discovery process. The platform then uses that cluster to create a component level where it can use the relevant Cisco VOS dynamic applications. For more information, see *Discovering VOS Devices*.

Enabling Network Address Translation (NAT) for Cisco UC VOS Devices

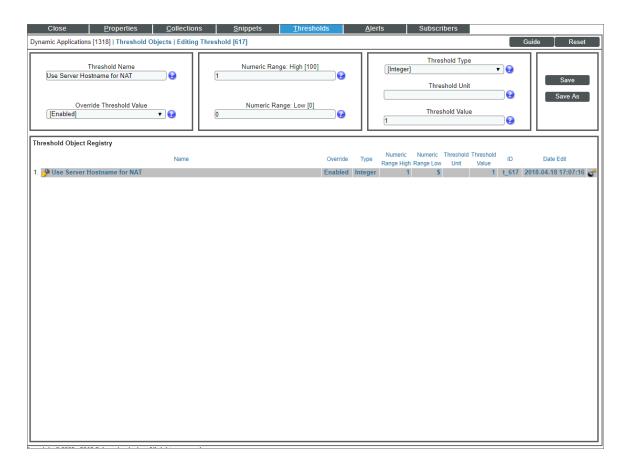
If you are monitoring Cisco UC VOS devices in a Network Address Translation (NAT) environment using a *non-PAWS API SOAP/XML credential*, you can enter either a list of server IP addresses or server hostnames in the credential.

If you then enable the "Use Server Hostname for NAT" threshold object in the "Cisco: VOS Node Classification and Cluster Creation" Dynamic Application, the ScienceLogic platform will embed the target devices' component names into the SOAP requests instead of their IP addresses.

To enable NAT support for Cisco UC VOS devices:

- 1. Go to the **Dynamic Applications Manager** page (System > Manage > Applications).
- 2. Locate the "Cisco: VOS Node Classification and Cluster Creation" Dynamic Application and then click its wrench icon (). The **Dynamic Applications Properties Editor** page appears.
- 3. Click the [Thresholds] tab. The Threshold Objects page appears.

4. Click the wrench icon () for the "Use Server Hostname for NAT" Threshold Object.



5. In the *Threshold Value* field, type "1". This signifies that NAT support is enabled.

NOTE: To disable NAT support, type "0" in this field. "0" and "1" are the only two values you can type in this field for the "Use Server Hostname for NAT" Threshold Object.

NOTE: This threshold is set on a per-device basis, and will affect all VOS performance Dynamic Applications aligned to a given device.

6. Click [Save].

Creating Cisco UC VOS Application Credentials

To configure the ScienceLogic platform to monitor VOS applications, you must use the platform to create the credentials that enable the platform to connect with the devices in those application clusters. You can create the following credential types to monitor VOS applications:

- SNMP
- SOAP/XML (PAWS API)
- SOAP/XML (non-PAWS API)
- Basic/Snippet

Creating an SNMP Credential

The ScienceLogic platform uses SNMP to collect information about the following devices that can be monitored using the Dynamic Applications in the Cisco: UC VOS Applications PowerPack:

- Cisco Contact Center Express (CCX)
- Cisco Unity Connection (CUC) servers
- Cisco Hosted Collaboration Mediation for Fulfillment (HCM-F)
- Cisco HCS Intelligent Loader
- Cisco IM & Presence (IM&P) servers (optional)
- Cisco Emergency Responder
- Cisco Prime Collaboration Deployment (PCD) servers (optional, but recommended)
- Cisco SocialMiner

To monitor these devices, you must first define one or more SNMP credentials that enable the ScienceLogic platform to communicate with the applications.

To configure an SNMP credential:

- 1. Go to the **Credential Management** page (System > Manage > Credentials).
- 2. Click the [Create] button.

3. In the drop-down list that appears, select SNMP Credential. The Credential Editor page appears:



4. In the **Profile Name** field, type a name for the credential.

TIP: If you are monitoring multiple VOS applications that have the same SNMP credential information, including community string, then you can create one common SNMP credential for those applications. Otherwise, each application should have its own unique SNMP credential. In that scenario, ScienceLogic recommends specifying the application type in the credential's *Profile Name* (e.g., "Cisco VOS SNMP - CCX").

- 5. In the **SNMP Version** field, select SNMP V2.
- 6. In the **SNMP Community (Read Only)** field, type the community string for the VOS application you want to monitor.
- 7. Supply values in the other fields on this page as needed. In most cases, you can accept the default values for the other fields.
- 8. Click the [Save] button.

Creating a SOAP/XML Credential (PAWS API)

The ScienceLogic platform uses SOAP API queries, Cisco Platform Administrative Web Service (PAWS) API queries, and requests to an HTML-based user interface to monitor the following Cisco VOS applications:

- Cisco Contact Center Express (CCX) (SOAP and PAWS)
- Cisco Unity Connection (CUC) servers (SOAP and PAWS)
- Cisco Hosted Collaboration Mediation for Fulfillment (HCM-F) (PAWS only)
- Cisco HCS Intelligent Loader (PAWS only)

- Cisco IM & Presence (IM&P) servers (SOAP and PAWS)
- Cisco Prime License Manager (PLM) (PAWS and HTML)
- Cisco Prime Collaboration Deployment (PCD) servers (SOAP and PAWS)
- Cisco SocialMiner (SOAP and PAWS)

As a result, several of the Dynamic Applications (including all performance Dynamic Applications) in the Cisco: UC VOS Applications PowerPack must be aligned with a SOAP/XML credential that includes the SOAP API and PAWS API login information.

If you are configuring a credential for a Cisco VOS application that does *not* use the PAWS API, see *Creating a SOAP/XML Credential (non-PAWS API)*.

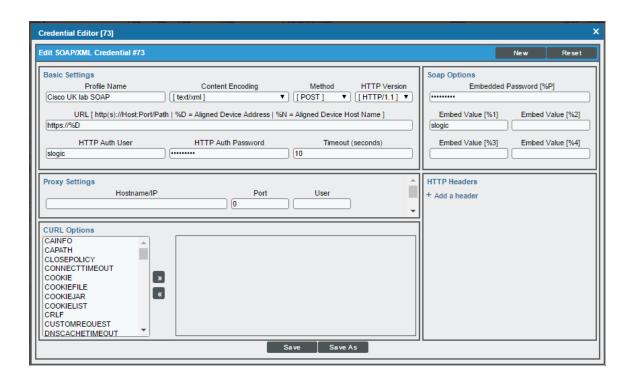
TIP: When possible, ScienceLogic recommends using the same login information with read access for all of the APIs required to monitor a particular application. Doing so enables you to create a single SOAP/XML credential for each application with only the "Basic Settings" configured.

The PowerPack includes an example SOAP/XML credential that you can edit for your own use.

To configure a SOAP/XML credential:

- 1. Go to the **Credential Management** page (System > Manage > Credentials).
- 2. Locate the Cisco VOS SOAP Example credential, and then click its wrench icon (). The Edit SOAP/XML Credential page appears.

3. Add values to the following fields:



Basic Settings

• Profile Name. Type a unique name for your VOS credential.

TIP: Each application should have its own unique SOAP/XML credential. ScienceLogic recommends specifying the application type in the credential's **Profile Name** (e.g., "Cisco VOS SOAP - IM&P").

- Content Encoding. Select text/xml.
- Method. Select POST.
- HTTP Version. Select HTTP/1.1.
- *URL*. Type "http://%D" or "http://%N".
- HTTP Auth User. If the SOAP API and PAWS API login information is identical, then type the common login username. Otherwise, type the SOAP API login username.
- *HTTP Auth Password*. If the SOAP API and PAWS API login information is identical, then type the common login password. Otherwise, type the SOAP API login password.
- Timeout (seconds). Type "10".

Proxy Settings

• Hostname/IP. Leave this field blank.

- **Port**. Type "0".
- User. Leave this field blank.

CURL Options

• CURL Options. Do not make any selections in this field.

SOAP Options

- Embedded Password [%P]. If the SOAP API and PAWS API login information differ, then type the PAWS API login password. Otherwise, leave this field blank.
- *Embed Value* [%1]. If the SOAP API and PAWS API login information differ, then type the PAWS API login username in this field. Otherwise, leave this field blank.
- Embed Value [%2]. Leave this field blank.
- Embed Value [%3]. Leave this field blank.
- Embed Value [%4]. Leave this field blank.

HTTP Headers

- HTTP Headers. Do not make any selections in this field.
- 4. Click the [Save As] button.

Creating a SOAP/XML Credential (non-PAWS API)

If you do not have access to the Cisco Platform Administrative Web Service (PAWS) API, configure a SOAP/XML credential using the settings in this section.

The ScienceLogic platform uses SOAP API queries and requests to an HTML-based user interface to monitor the following VOS applications:

- Cisco Contact Center Express (CCX) (SOAP)
- Cisco Unity Connection (CUC) servers (SOAP)
- Cisco IM & Presence (IM&P) servers (SOAP)
- Cisco Prime License Manager (PLM) (HTML)
- Cisco Prime Collaboration Deployment (PCD) servers (SOAP)
- Cisco SocialMiner (SOAP)

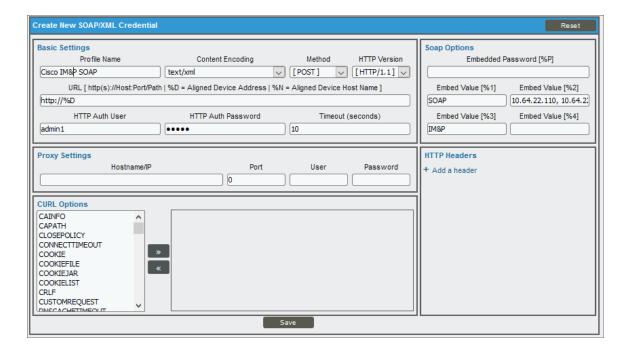
As a result, several of the Dynamic Applications (including all performance Dynamic Applications) in the Cisco: UC VOS Applications PowerPack must be aligned with a SOAP/XML credential that includes the SOAP API login information.

TIP: When possible, ScienceLogic recommends using the same login information with read access for all of the APIs required to monitor a particular application. Doing so enables you to create a single SOAP/XML credential for each application with only the "Basic Settings" configured.

The PowerPack includes an example SOAP/XML credential that you can edit for your own use.

To configure a SOAP/XML credential for non-PAWS APIs:

- 1. Go to the **Credential Management** page (System > Manage > Credentials).
- 2. Locate the Cisco VOS SOAP Example credential, and then click its wrench icon (). The Edit SOAP/XML Credential page appears.
- 3. Add values to the following fields:



Basic Settings

• **Profile Name**. Type a unique name for your VOS credential.

TIP: Each application should have its own unique SOAP/XML credential. ScienceLogic recommends specifying the application type in the credential's **Profile Name** (e.g., "Cisco VOS SOAP - IM&P").

- Content Encoding. Select text/xml.
- Method. Select POST.
- HTTP Version. Select HTTP/1.1.

- *URL*. Type "http://%D" or "http://%N".
- HTTP Auth User. Type the SOAP API login username.
- HTTP Auth Password. Type the SOAP API login password.
- Timeout (seconds). Type "10".

Proxy Settings

- Hostname/IP. Leave this field blank.
- Port. Type "0".
- User. Leave this field blank.

CURL Options

• CURL Options. Do not make any selections in this field.

SOAP Options

- Embedded Password [%P]. Leave this field blank.
- Embed Value [%1]. Type "SOAP" or "SNMP" as applicable. "SOAP" indicates that the PAWS service will not be queried during discovery, but SOAP will still be used for monitoring. "SNMP" indicates that neither the PAWS service nor the SOAP service will be queried during discovery. Otherwise, leave this field blank.
- Embed Value [%2]. If you typed "SOAP" or "SNMP" in Embed Value [%1], then type the IP address or hostname list for the cluster nodes, with each address in the list separated by a comma. (The first address or hostname in the list is assumed to be primary.) Otherwise, leave this field blank.

NOTE: If you enter hostnames in this field, you must first enable Network Address Translation (NAT) support for Cisco UC VOS devices.

NOTE: If you enter hostnames in this field that cannot be resolved to IP addresses, then you must create a Host File entry for each hostname included in the list. In a NAT environment, the Host File entry should contain an entry for the external IP addresses. For more information about Host Files, see the **System Administration** manual.

- Embed Value [%3]. If you typed "SOAP" or "SNMP" in Embed Value [%1], then type the appropriate VOS application cluster type abbreviation as follows:
 - CUC
 - IM&P
 - \circ CCX
 - o PIM

- HCS Intelligent Loader
- ∘ HCM-F
- PCD
- SocialMiner

Otherwise, leave this field blank.

• Embed Value [%4]. Leave this field blank.

HTTP Headers

- HTTP Headers. Do not make any selections in this field.
- 4. Click the [Save As] button.

Creating a Basic/Snippet Credential

The ScienceLogic platform uses REST API queries to monitor the following VOS applications:

- Cisco Unity Connection (CUC) servers
- Cisco IM & Presence (IM&P) servers

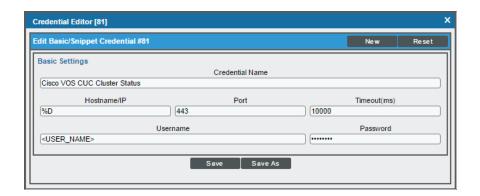
To monitor these devices, you must create one or more Basic/Snippet credentials that enable the ScienceLogic platform to log in to the REST API that reports the status of each VOS application's cluster. The Cisco: UC VOS Applications PowerPack includes two example Basic/Snippet credentials that you can edit for your own use.

NOTE: The steps below describe how to edit both example credentials, which you should do if the REST API login information is different for CUC and IM&P. However, if the REST API login information is the same for both applications, then a second Basic/Snippet credential is unnecessary.

To edit the example Basic/Snippet credentials:

- 1. Go to the **Credential Management** page (System > Manage > Credentials).
- 2. Locate the Cisco VOS CUC Cluster Status example credential, then click its wrench icon (). The Edit Basic/Snippet Credential page appears.

3. Update the following fields:



• Credential Name. Type a new name for the CUC cluster status credential.

TIP: If you are monitoring multiple VOS applications that have the same REST API login information, then you can create one common Basic/Snippet credential for those applications. Otherwise, each VOS application should have its own unique Basic/Snippet credential. In that scenario, ScienceLogic recommends specifying the application type in the credential's **Profile Name** (e.g., "Cisco VOS Basic/Snippet - CUC").

- Hostname/IP. Type "%D".
- Port. Type "443".
- Timeout. Type "10000".
- Username. Type the login username for the CUC cluster status REST API.
- Password. Type the password for the CUC cluster status REST API.
- 4. Click the [Save As] button.
- 5. When the confirmation message appears, click [OK].
- 6. To create a Basic/Snippet credential to monitor VOS IM&P, repeat steps 1-5 to edit the **Cisco VOS IM&P Cluster Status** example credential.

Chapter

3

Discovering Cisco UC VOS Devices

Overview

The following sections describe the steps required to discover Cisco UC VOS devices in the ScienceLogic platform:

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Discovering VOS Application Clusters

To model and monitor your VOS applications, run a discovery session to discover the VOS application clusters that the ScienceLogic platform will use as the root devices for monitoring the applications.

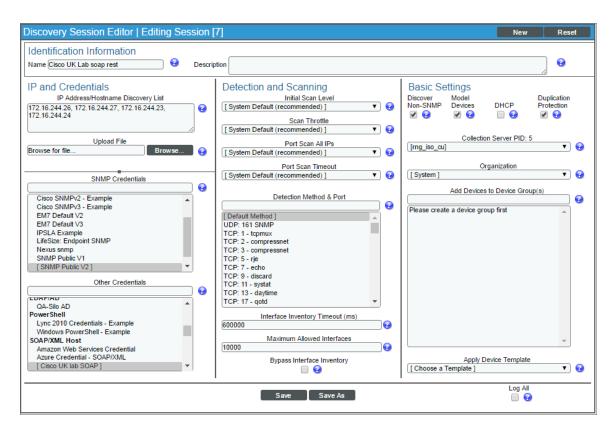
Several minutes after the discovery session has completed, the Dynamic Applications in the Cisco: UC VOS Applications PowerPack should automatically align to the cluster root devices and then discover, model, and monitor the remaining VOS application component devices.

NOTE: Cisco Prime Collaboration Deployment (PCD) and Cisco SocialMiner do not support cluster deployment. However, to create component-level devices that can be monitored using the Dynamic Applications in the Cisco: UC VOS Applications PowerPack, the ScienceLogic system creates a virtual PCD cluster device or a virtual SocialMiner cluster in addition to the PCD or SocialMiner component-level devices during discovery.

To discover the VOS application clusters that you want to monitor, perform the following steps:

- 1. Go to the **Discovery Control Panel** page (System > Manage > Discovery).
- 2. In the **Discovery Control Panel**, click the **[Create]** button.

3. The **Discovery Session Editor** page appears. In the **Discovery Session Editor** page, define values in the following fields:



• IP Address/Hostname Discovery List. Enter the IP address(es) and/or hostname(s) for the cluster root device(s) you want to discover.

NOTE: All VOS devices on a single ScienceLogic collector must have unique host names.

- SNMP Credentials. Select the SNMP credential you created for the device clusters.
- Other Credentials. Select the Basic/Snippet and SOAP/XML credentials you created for the device clusters.
- Discover Non-SNMP. Select this checkbox.
- Model Devices. Select this checkbox.
- 4. Optionally, you can enter values in the other fields on this page. For more information about the other fields on this page, see the *Discovery & Credentials* manual.
- 5. Click the [Save] button to save the discovery session and then close the Discovery Session Editor window.
- 6. The discovery session you created appears at the top of the **Discovery Control Panel** page. Click its lightning-bolt icon () to run the discovery session.

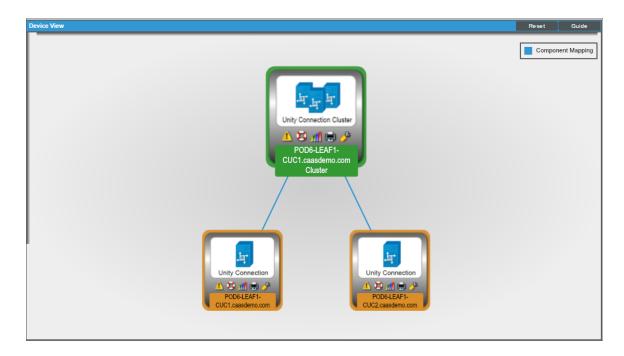
7. The **Discovery Session** window appears. When the cluster root device(s) are discovered, click the device icon (**Device Properties** page for each device.

Viewing VOS Devices

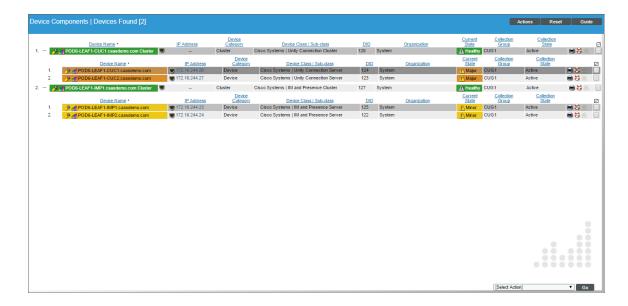
When the ScienceLogic platform discovers your VOS devices, the platform will create component devices that represent each component in your VOS device clusters.

In addition to the **Device Manager** page, you can view component devices in the following places in the user interface:

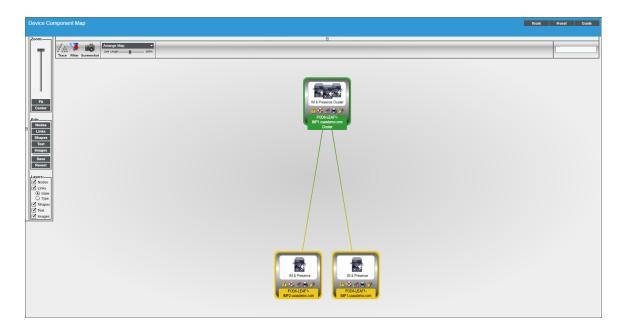
• The **Device View** page (click the bar-graph icon [for a device, then click the **Topology** tab) displays a map of the selected device and all of the devices with which it has parent-child relationships. Double-clicking any of the devices reloads the page with the selected device as the primary device:



• The **Device Components** page (Registry > Devices > Device Components) displays a list of all root devices and component devices discovered by the ScienceLogic platform, in an indented view, so you can easily view the hierarchy and relationships between child devices, parent devices, and root devices. To view the component devices associated with your VOS device clusters, find a device cluster and click its plus icon (+):



• The Component Map page (Views > Device Maps > Components) allows you to view devices by root node and view the relationships between root nodes, parent components, and child components in a map. This makes it easy to visualize and manage root nodes and their components. The ScienceLogic platform automatically updates the Component Map as new component devices are discovered. The platform also updates each map with the latest status and event information. To view the map for your VOS device clusters, go to the Component Map page and select a map from the list in the left NavBar. To learn more about the Component Map page, see the Views manual.



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