



Monitoring Cisco ACI Multi-Site Manager

Cisco: ACI Multi-Site Manager PowerPack version 102

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Chapter

1

Introduction

Overview

This manual describes how to monitor Cisco ACI Multi-Site architectures in SL1 using the *Cisco: ACI Multi-Site Manager PowerPack*.

The following sections provide an overview of Cisco ACI Multi-Site Manager and the *Cisco: ACI PowerPack*:

This chapter covers the following topics:

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What Does the Cisco: ACI Multi-Site Manager PowerPack Monitor?

To monitor Cisco ACI Multi-Site architectures using SL1, you must install the *Cisco: ACI Multi-Site Manager PowerPack*. This PowerPack enables you to discover, model, and collect data about Cisco ACI Multi-Site architectures.

The *Cisco: ACI Multi-Site Manager PowerPack* includes:

- A sample credential you can use as a template to create a SOAP/XML credential to connect to the Cisco ACI Multi-Site architecture you want to monitor
- Dynamic Applications to discover, model, and monitor performance metrics and/or collect configuration data
- Device Classes for each type of ACI Multi-Site Manager device monitored
- Event Policies and corresponding alerts that are triggered when ACI Multi-Site Manager devices meet certain status criteria

Installing the Cisco: ACI Multi-Site Manager PowerPack

Before completing the steps in this manual, you must import and install the latest version of the *Cisco: ACI Multi-Site Manager PowerPack*.

TIP: By default, installing a new version of a PowerPack overwrites all content from a previous version of 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.)

IMPORTANT: The minimum required MySQL version is 5.6.0.

To download and install the PowerPack:

1. Search for and download the PowerPack from the **PowerPacks** page (Product Downloads > PowerPacks & SyncPacks) at the [ScienceLogic Support Site](#).
2. In SL1, go to the **PowerPacks** page (System > Manage > PowerPacks).
3. Click the **[Actions]** button and choose *Import PowerPack*. The **Import PowerPack** dialog box appears.
4. Click **[Browse]** and navigate to the PowerPack file from step 1.
5. Select the PowerPack file and click **[Import]**. The **PowerPack Installer** modal displays a list of the PowerPack contents.
6. Click **[Install]**. The PowerPack is added to the **PowerPacks** page.

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

Chapter

2

Configuration and Discovery

Overview

The following sections describe how to configure and discover Cisco ACI Multi-Site Manager for monitoring by SL1 using the *Cisco: ACI Multi-Site Manager PowerPack*:

This chapter covers the following topics:

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| Creating a Credential for Cisco ACI Multi-Site Manager | 5 |
| Creating a Cisco ACI Multi-Site Manager Virtual Device and Discovering Cisco ACI Multi-Site | 7 |
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Prerequisites

Before you can monitor Cisco ACI Multi-Site Manager in SL1, you must do the following:

- Your Data Collector must have API access to the Cisco ACI Multi-Site Manager Orchestrator
- The API user needs permissions for "auth", "get token", and "poll" for metrics

Creating a Credential for Cisco ACI Multi-Site Manager

To configure SL1 to monitor Cisco ACI Multi-Site architecture, you must first create a SOAP/XML credential. This credential allows the Dynamic Applications in the *Cisco: ACI Multi-Site Manager PowerPack* to communicate with your Cisco ACI Multi-Site account.

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

NOTE: If you are using an SL1 system prior to version 11.1.0, the new user interface does not include the **Duplicate** option for sample credential(s). ScienceLogic recommends that you use [the classic user interface and the Save As button](#) to create new credentials from sample credentials. This will prevent you from overwriting the sample credential(s).

To configure a SOAP/XML credential:

1. Go to the **Credentials** page (Manage > Credentials).
2. Locate the **Cisco: ACI MM Sample Credential** credential, click its **[Actions]** icon (**☰**) and select **Duplicate**. A copy of the credential appears.
3. Click the **[Actions]** icon (**☰**) for the "Cisco: ACI MM Sample Credential copy" credential and select **Edit**. The **Edit Credential** page appears:

The screenshot shows the 'Edit Credential' interface. The main form has the following fields and values:

- Name: Cisco: ACI MM Sample Credential copy
- All Organizations: (toggle on)
- Timeout (ms): 20000
- Content Encoding: text/xml
- Method: POST
- HTTP Version: http/1.1
- URL: https://198.18.135.71
- HTTP Auth User: admin
- HTTP Auth Password: [REDACTED]
- Proxy Hostname/IP: optional
- Proxy User: optional
- Proxy Password: [REDACTED]
- Embedded Password [%P]: [REDACTED]
- Embed Value [%1]: False
- Embed Value [%2]: [REDACTED]

The 'Credential Tester' panel on the right includes:

- Select Credential Test: [Dropdown]
- Select Collector: [Dropdown]
- IP or Hostname to test: [Text Input]
- Test Credential: [Button]

A 'Save & Close' button is located at the bottom right of the form.

4. Enter values in the following fields:
 - **Name**. Type a new name for the credential.
 - **All Organizations**. Toggle on (blue) to align the credential to all organizations, or toggle off (gray) and then select one or more specific organizations from the **Select the organizations the credential belongs to** drop-down field to align the credential with those specific organizations.
 - **URL**. Specify the IP of the Cisco ACI Multi-Site web interface
 - **HTTP Auth User**. Enter the username for the Cisco ACI Multi-Site web interface
 - **HTTP Auth Password**. Enter the password for the Cisco ACI Multi-Site web interface
5. Click the **[Save & Close]** button.

Creating a Credential for Cisco ACI Multi-Site Manager in the SL1 Classic User Interface

To configure SL1 to monitor Cisco ACI Multi-Site architecture, you must first create a SOAP/XML credential. This credential allows the Dynamic Applications in the *Cisco: ACI Multi-Site Manager PowerPack* to communicate with your Cisco ACI Multi-Site account.

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: ACI MM Sample Credential** credential, then click its wrench icon (🔧). The **Edit SOAP/XML Credential** modal page appears.
3. Enter values in the following fields:

The screenshot shows the 'Credential Editor [99]' window with the 'Edit SOAP/XML Credential #99' modal open. The modal is divided into several sections: 'Basic Settings', 'Soap Options', 'Proxy Settings', and 'CURL Options'. The 'Basic Settings' section includes fields for Profile Name, Content Encoding, Method, HTTP Version, URL, HTTP Auth User, HTTP Auth Password, and Timeout. The 'Soap Options' section includes an Embedded Password field and four Embed Value fields. The 'Proxy Settings' section includes Hostname/IP, Port, and User fields. The 'CURL Options' section includes a list of options like CAINFO, CAPATH, etc. The 'HTTP Headers' section includes a list of headers like Content-Type: application/json and %silo_token=Authorization:Bearer. The window has 'Save' and 'Save As' buttons at the bottom.

Basic Settings

- **HTTP Auth User.** Enter the username for the Cisco ACI Multi-Site web interface
- **HTTP Auth Password.** Enter the password for the Cisco ACI Multi-Site web interface
- **URL.** Specify the IP of the Cisco ACI Multi-Site web interface

4. Click the **[Save As]** button.

Creating a Cisco ACI Multi-Site Manager Virtual Device and Discovering Cisco ACI Multi-Site

To discover a Cisco ACI Multi-Site architecture, you must create a **virtual device** that represents the root device. A virtual device is a user-defined container that represents a device or service that cannot be discovered by SL1.

You can use the virtual device to store information gathered by policies or Dynamic Applications.

TIP: If you have multiple Cisco ACI Multi-Site architecture you want to monitor, you should create a separate virtual device for each root device. You can also create different organizations for each architecture.

To create a virtual device that represents your Cisco ACI Multi-Site architecture:

1. Go to the **Device Manager** page (Devices > Device Manager, or Registry > Devices > Device Manager in the SL1 classic user interface).
2. Click the **[Actions]** button and select *Create Virtual Device* from the menu. The **Create Virtual Device** modal page appears.
3. Enter values in the following fields.
 - **Device Name.** Enter a name for the device. For example, you could enter "ACI Multi-Site" in this field.
 - **Organization.** Select the organization for this device. The organization you associate with the device limits the users that will be able to view and edit the device. Typically, only members of the organization will be able to view and edit the device.
 - **Device Class.** Select *Cisco Systems | ACI Multi-Site Manager Cluster*.
 - **Collector.** Select *CUG*.
4. Click the **[Add]** button to create the virtual device.
5. Once you have created the device, go to the **Device Manager** page (Devices > Device Manager, or Registry > Devices > Device Manager in the SL1 classic user interface) and select the virtual device you created.
6. In the **Select Action** menu, select *MODIFY By Template* and click **[Go]**.
7. In the **Device Template Editor** window, select the **[Dyn Apps]** tab.
8. Click the plus sign in the **Subtemplate Selection** pane.
9. In the **Dynamic Application Settings** pane, select the "Cisco: ACI Multi-Site Manager Node Discovery" Dynamic Application.
10. In the **Credentials** drop-down, select the "Cisco: ACI MM Sample Credential". Click **[Apply]**.

Once you have completed modifying the device template, discovery will run and the Dynamic Applications will be aligned.

Verifying Discovery and Dynamic Application Alignment

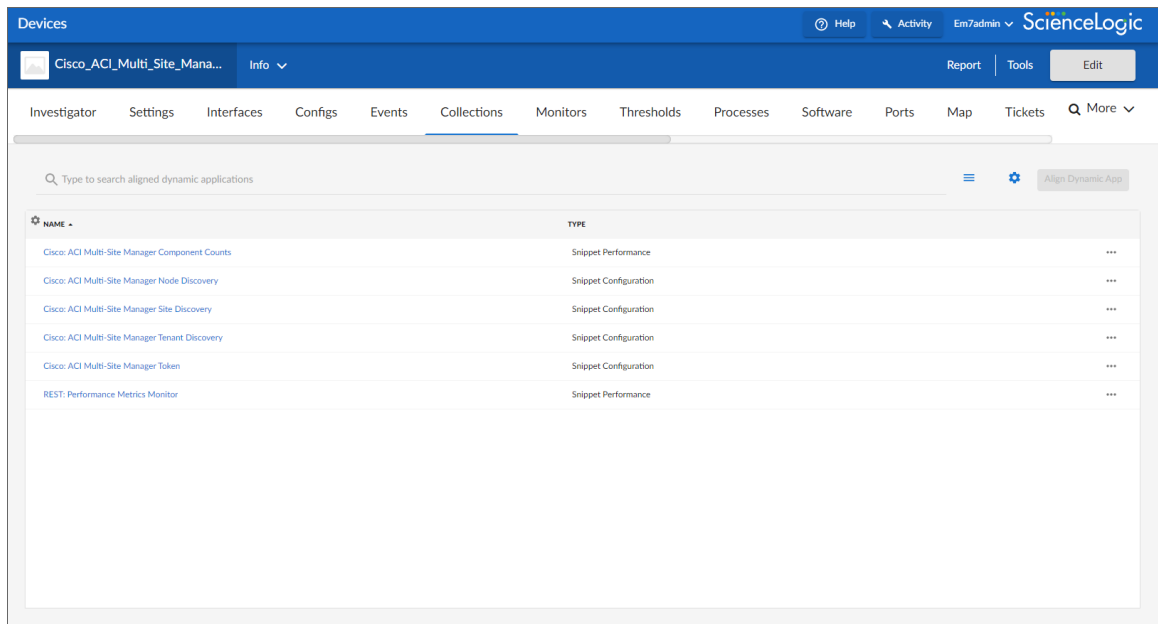
To verify that SL1 has automatically aligned the correct Dynamic Applications during discovery:

1. After creating the virtual device and aligning the credential to the template, go to the **Devices** page and click on the ACI Multi-Site virtual device. From the **Device Investigator** page, click the **[Collections]** tab.

2. All applicable Dynamic Applications for the switch are automatically aligned during discovery and will appear in the **[Collections]** tab.

You should see the following Dynamic Applications aligned to the ACI Multi-Site virtual device:

- Cisco: ACI Multi-Site Manager Component Counts
- Cisco: ACI Multi-Site Manager Node Discovery
- Cisco: ACI Multi-Site Manager Site Discovery
- Cisco: ACI Multi-Site Manager Tenant Discovery
- Cisco: ACI Multi-Site Manager Token



The following Dynamic Applications will automatically align to their corresponding device components:

- Cisco: ACI Multi-Site Manager Node Configuration
- Cisco: ACI Multi-Site Manager Site Config
- Cisco: ACI Multi-Site Manager Site Performance
- Cisco: ACI Multi-Site Manager Tenant Config

Verifying Discovery and Dynamic Application Alignment in the SL1 Classic User Interface

To verify that SL1 has automatically aligned the correct Dynamic Applications during discovery:

1. After creating the virtual device and aligning the credential to the template, go to the **Device Manager** page and click the wrench icon (🔧) for the ACI Multi-Site virtual device. From the **Device Properties** page, click the **[Collections]** tab. The **Dynamic Application Collections** page appears.
2. All applicable Dynamic Applications for the switch are automatically aligned during discovery.

You should see the following Dynamic Applications aligned to the ACI Multi-Site virtual device:

- Cisco: ACI Multi-Site Manager Component Counts
- Cisco: ACI Multi-Site Manager Node Discovery
- Cisco: ACI Multi-Site Manager Site Discovery
- Cisco: ACI Multi-Site Manager Tenant Discovery
- Cisco: ACI Multi-Site Manager Token

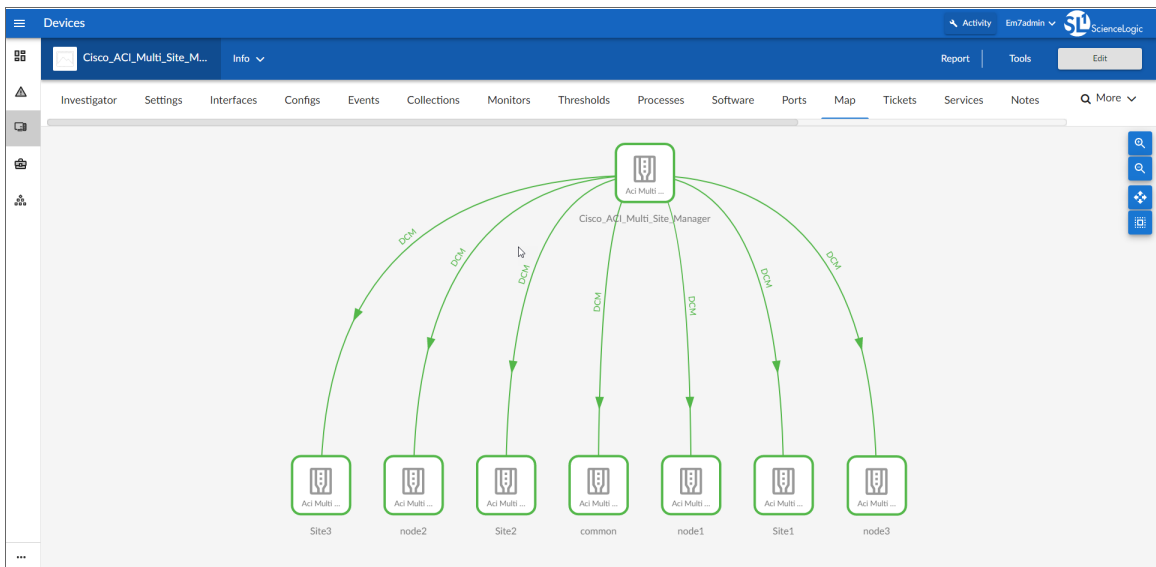
The following Dynamic Applications will automatically align to their correspondent device components:

- Cisco: ACI Multi-Site Manager Node Configuration
- Cisco: ACI Multi-Site Manager Site Config
- Cisco: ACI Multi-Site Manager Site Performance
- Cisco: ACI Multi-Site Manager Tenant Config

Viewing Component Devices

In addition to the **Devices** page, you can view the Cisco ACI Multi-Site Manager and all associated component devices in the following places in the user interface:

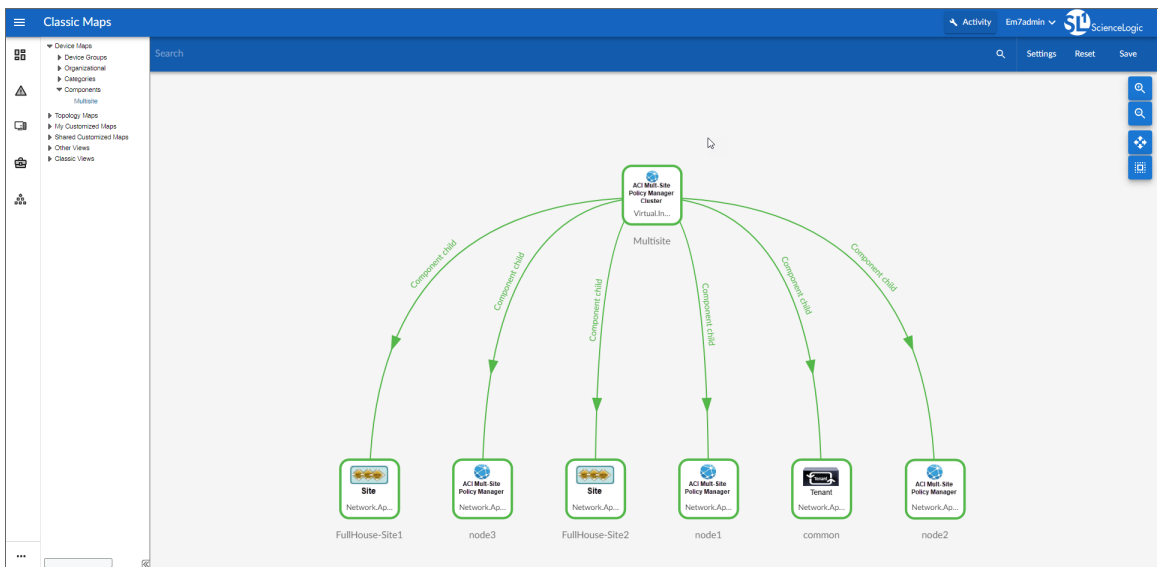
- The **Device Investigator** Map page (click **Map** in the **Device Investigator** page) displays a map of a particular device and all of the devices with which it has parent-child relationships. Double-clicking any of the listed devices reloads the page to make the selected device the primary device.



- The **Device Components** page (Devices > Device Components) displays a list of all root devices and component devices discovered by SL1 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 a Cisco ACI Multi-Site Manager, find the virtual device and click its plus icon (+):

| Device Name | IP Address | Device Category | Device Class / Sub-class | DID | Organization | Current State | Collection Status | Collection State |
|---------------------------------|------------|-----------------|--|-----|------------------------------|---------------|-------------------|------------------|
| 1. Cisco_ACI_Multi_Site_Manager | -- | Infrastructure | Cisco Systems ACI Multi-Site Manager Cluster | 9 | Cisco_ACI_Multi_Site_Manager | Healthy | CUG | Active |
| 1. common | -- | Application | Cisco Systems ACI Multi-Site Manager Tenant | 13 | Cisco_ACI_Multi_Site_Manager | Healthy | CUG | Active |
| 2. node1 | -- | Application | Cisco Systems ACI Multi-Site Manager Node | 14 | Cisco_ACI_Multi_Site_Manager | Healthy | CUG | Active |
| 3. node2 | -- | Application | Cisco Systems ACI Multi-Site Manager Node | 11 | Cisco_ACI_Multi_Site_Manager | Healthy | CUG | Active |
| 4. node3 | -- | Application | Cisco Systems ACI Multi-Site Manager Node | 16 | Cisco_ACI_Multi_Site_Manager | Healthy | CUG | Active |
| 5. node4 | -- | Application | Cisco Systems ACI Multi-Site Manager Node | 15 | Cisco_ACI_Multi_Site_Manager | Healthy | CUG | Active |
| 6. Site1 | -- | Application | Cisco Systems ACI Multi-Site Manager Site | 12 | Cisco_ACI_Multi_Site_Manager | Healthy | CUG | Active |
| 7. Site2 | -- | Application | Cisco Systems ACI Multi-Site Manager Site | 10 | Cisco_ACI_Multi_Site_Manager | Healthy | CUG | Active |

- The **Component Map** page (Classic Maps > 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. SL1 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 a Cisco ACI Multi-Site Manager device, go to the **Component Map** page and select the map from the list in the left NavBar. To learn more about the **Component Map** page, see the **Maps** manual.



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