Monitoring Aruba Central

Beta Version

Aruba Central PowerPack version 100

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Chapter 1

Introduction

Overview

This manual describes how to monitor Aruba Central in SL1 using the *Aruba Central* PowerPack.

The following sections provide an overview of Aruba Central and the *Aruba Central* PowerPack:

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What is Aruba Central?

Aruba Central is a cloud-based platform that provides management tools and built-in analytics for Aruba Instant Access Points (IAPs), switches, and gateways. In each Aruba network, one IAP acts as a virtual controller, which is a single configuration and management point for the network.

What Does the Aruba Central PowerPack Monitor?

To monitor Aruba Central using SL1, you must install the *Aruba Central* PowerPack. This PowerPack enables you to discover, model, and collect data about Aruba Central virtual controllers and their components.

The *Aruba Central* PowerPack includes:

- Dynamic Applications to discover and monitor Aruba Central virtual controllers and their component devices
- Device Classes for each of the Aruba Central components that the *Aruba Central* PowerPack can monitor
- Event Policies that are triggered when Aruba Central component devices meet certain status criteria
- A sample SOAP/XML Credential that you can use to create your own Aruba Central Credential
- A Device Template that aligns Dynamic Applications to the Aruba Central virtual controller and enables you to discover component devices for that virtual controller
- Device Dashboards that display information about Aruba Central component devices

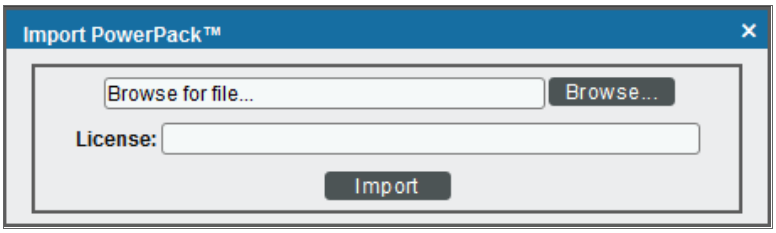
Installing the Aruba Central PowerPack

Before completing the steps in this manual, you must import and install the latest version of the *Aruba Central* 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*.

Chapter 2

Configuring and Discovering Aruba Central Controllers

Overview

The following sections describe how to configure and discover Aruba Central virtual controllers for monitoring by SL1 using the *Aruba Central* PowerPack:

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Prerequisites for Monitoring Aruba Central

Before you can monitor Aruba Central virtual controllers and their component devices using the *Aruba Central* PowerPack, you must first have the following information:

- Aruba Central username and password
- Aruba Central customer ID
- Aruba Central client ID
- Aruba Central client secret key

You can request these items by registering with Aruba Technical Support.

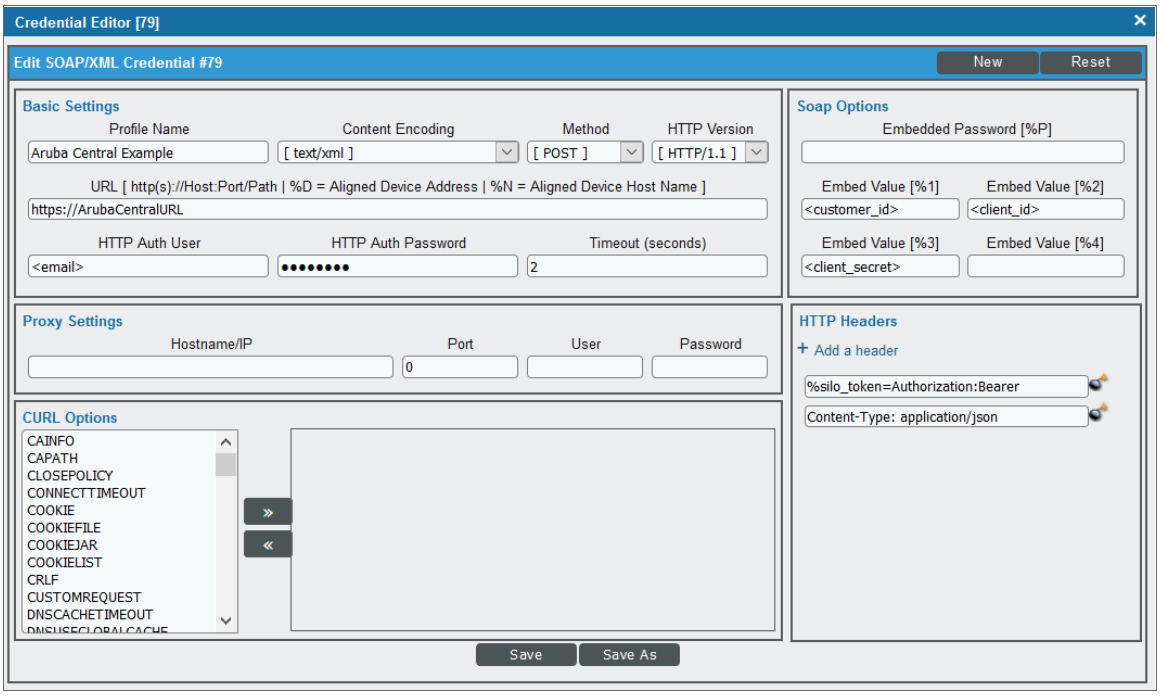
Configuring Aruba Central Credentials

To configure SL1 to monitor Aruba Central devices, you must first create a SOAP/XML credential. This credential allows the Dynamic Applications in the *Aruba Central* PowerPack to use your Aruba Central user account to retrieve information from the Aruba Central virtual controller and component devices.

The PowerPack includes an example SOAP/XML credential (**Aruba Central Example**) that you can edit for your own use.

To configure a SOAP/XML credential to access Aruba Central:

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



3. Complete the following fields:

Basic Settings

- ***Profile Name***. Type a new name for the Aruba Central credential.
- ***URL***. Type your Aruba Central URL.
- ***HTTP Auth User***. Type your Aruba Central username email address.
- ***HTTP Auth Password***. Type your Aruba Central password.

SOAP Options

- ***Embed Value [%1]***. Type your Aruba Central customer ID.
- ***Embed Value [%2]***. Type your Aruba Central client ID.
- ***Embed Value [%3]***. Type your Aruba Central client secret key.

HTTP Headers

- Keep the default values that appear in this section.

4. For the remaining fields, use the default values.
5. Click the **[Save As]** button.

Discovering Aruba Central Devices

To discover and monitor your Aruba Central virtual controller, you must do the following:

- Create a virtual device representing the virtual controller
- Configure the Aruba Central device template that is included in the *Aruba Central* PowerPack
- Align the device template to the Aruba Central virtual device

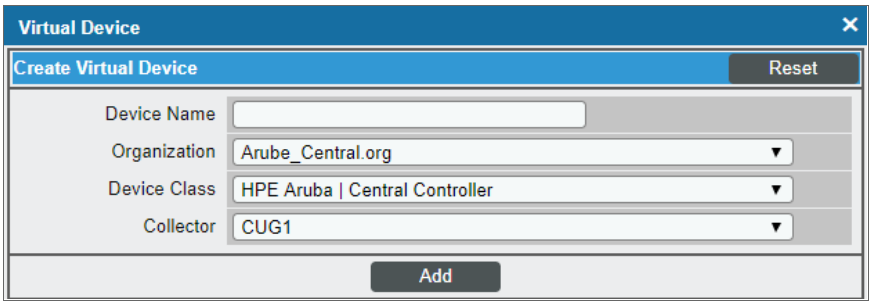
Each of these steps is documented in the following sections.

Creating an Aruba Central Virtual Device

Because the Aruba Central virtual controller does not have a static IP address, you cannot discover an Aruba Central device by running a discovery session. Instead, you must create a ***virtual device*** that represents the Aruba Central virtual controller. 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.

To create a virtual device that represents your Aruba Central virtual controller:

1. Go to the **Device Manager** page (Registry > Devices > Device Manager).
2. Click the **[Actions]** button and select *Create Virtual Device* from the menu. The **Virtual Device** modal page appears:



3. Complete the following fields:
   - ***Device Name***. Type a name for the device.
   - ***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 *HPE Aruba | Central Controller*.
   - ***Collector***. Select the collector group that will monitor the device.
4. Click **[Add]** to create the virtual device.

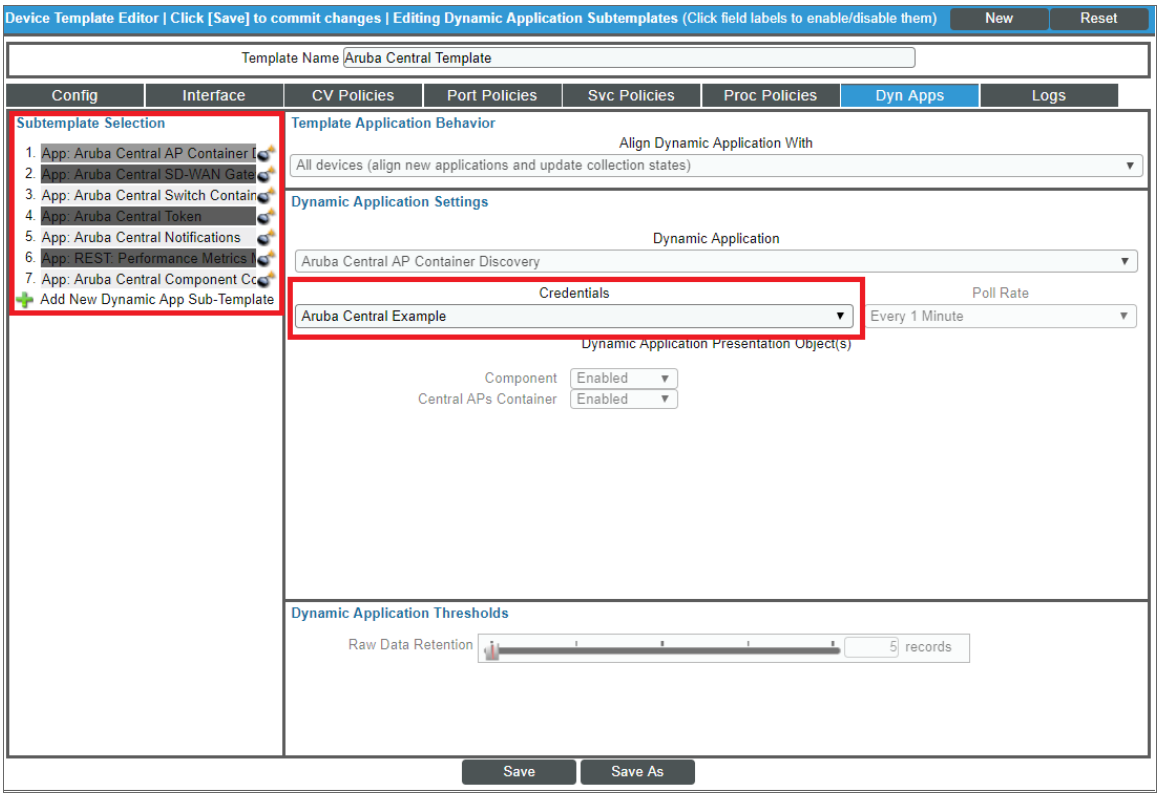
Configuring the Aruba Central Device Template

A ***device template*** allows you to save a device configuration and apply it to multiple devices. The *Aruba Central* PowerPack includes the "Aruba Central Template," which enables SL1 to align all of the necessary Dynamic Applications to the virtual controller root component device.

Before you can use the "Aruba Central Template", you must configure the template so that each Dynamic Application in the template aligns with the *credential you created earlier*.

To configure the Aruba Central device template:

1. Go to the **Configuration Templates** page (Registry > Devices > Templates).
2. Locate the "Aruba Central Template" and click its wrench icon (). The **Device Template Editor** modal page appears.
3. Click the **[Dyn Apps]** tab. The **Editing Dynamic Application Subtemplates** page appears:



4. In the ***Credentials*** drop-down list, select the credential that you created for Aruba Central.
5. Click the next Dynamic Application listed in the **Subtemplate Selection** section on the left side of the page and then select the credential you created in the ***Credentials*** field.
6. Repeat step 5 until you have selected your Aruba Central credential in the ***Credentials*** field for all of the Dynamic Applications listed in the **Subtemplate Selection** section.
7. Click **[Save]**.

NOTE: To maintain a "clean" version of the template, type a new name in the ***Template Name*** field and then click **[Save As]** instead of **[Save]**.

Aligning the Device Template to Your Aruba Central Virtual Device

After you have configured the Aruba Central device template so that each Dynamic Application in the template aligns with your Aruba Central credential, you can use that template to align the Dynamic Applications to the virtual device that you created to act as the root device for your Aruba Central virtual controller. When you do so, SL1 discovers and models all of the components in your Aruba Central virtual controller.

To align the Aruba Central device template to the Aruba Central virtual device:

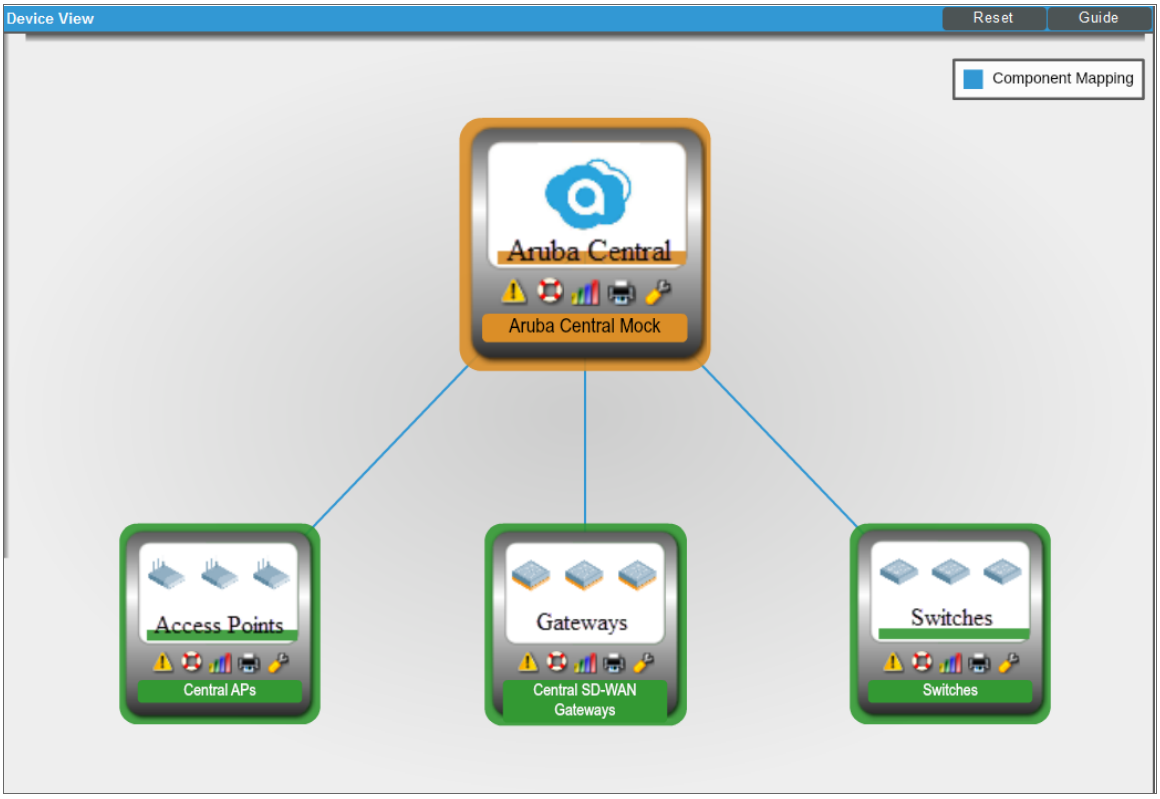
1. Go to the **Device Manager** page (Registry > Devices > Device Manager).

2. On the **Device Manager** page, select the checkbox for the Aruba Central virtual device.
3. In the ***Select Action*** field, in the lower right corner of the page, select the option *MODIFY by Template* and then click the **[Go]** button. The **Device Template Editor** page appears.
4. In the ***Template*** drop-down list, select your Aruba Central device template.
5. Click the **[Apply]** button, and then click **[Confirm]** to align the Dynamic Applications to the root component device.

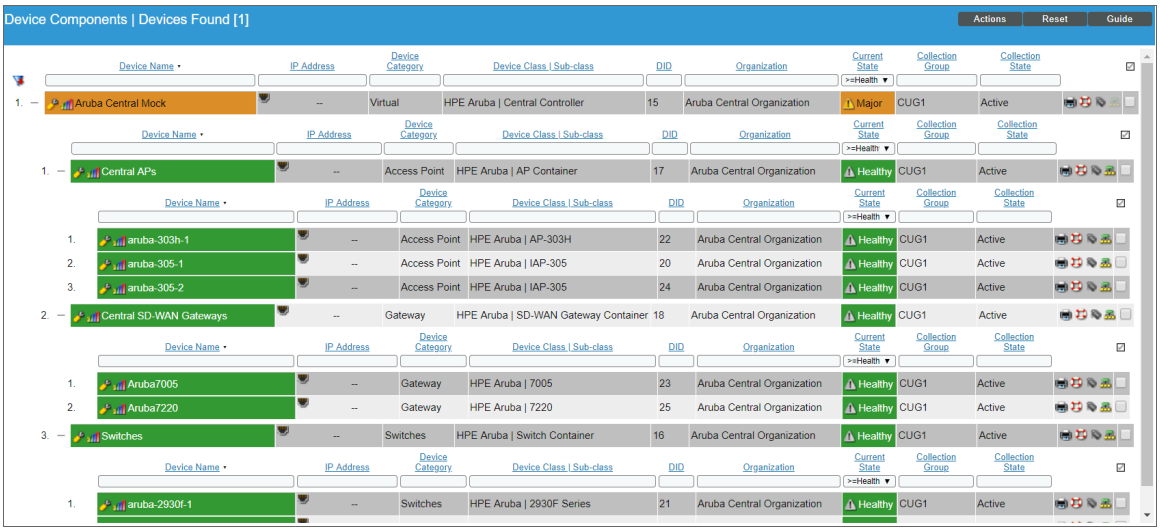
Viewing Aruba Central Component Devices

In addition to the **Device Manager** page (Registry > Devices > Device Manager), you can view Aruba Central virtual controllers and all associated component devices in the following places in the user interface:

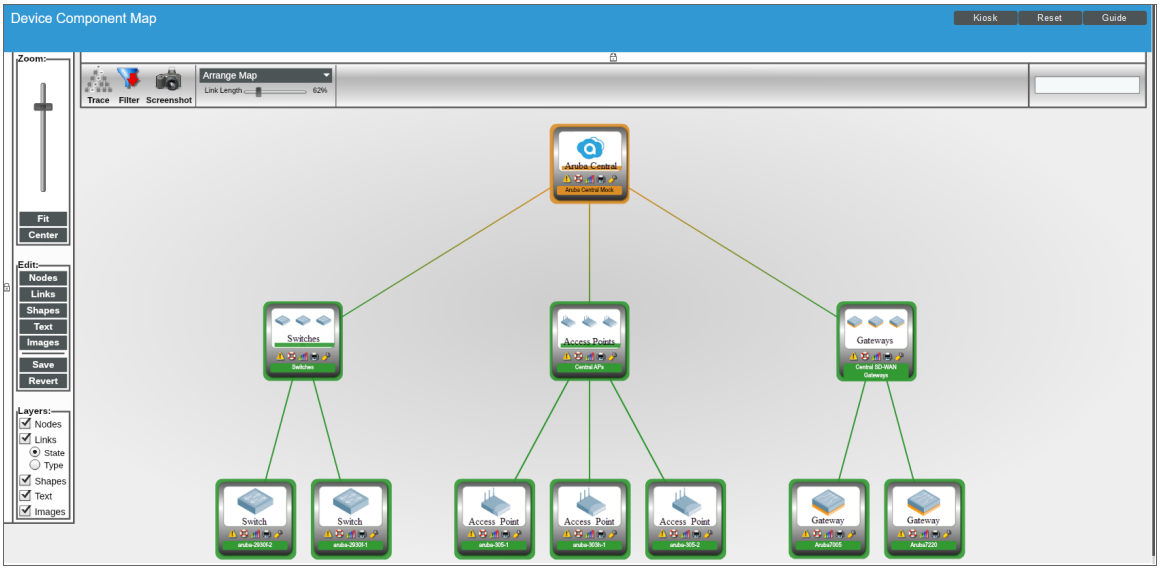
- The **Device View** modal page (click the bar-graph icon [ ] for a device, then click the **Topology** tab) displays a map of a particular device and all of the devices with which it has parent-child relationships. Double-clicking any of the devices listed reloads the page to make the selected device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



- The **Device Components** page (Registry > 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 Aruba Central, find the Aruba Central root device and click its plus icon (+):



- The **Device 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. 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 Aruba Central devices, 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 ***Views*** manual.



Chapter 3

Aruba Central Dashboards

Overview

The following sections describe the device dashboards that are included in the *Aruba Central* PowerPack:

Device Dashboards ***13***

Aruba: AP Container *14*

Aruba: AP *15*

Aruba: Central Controller *16*

Aruba: Gateway Container *17*

Aruba: Gateway *18*

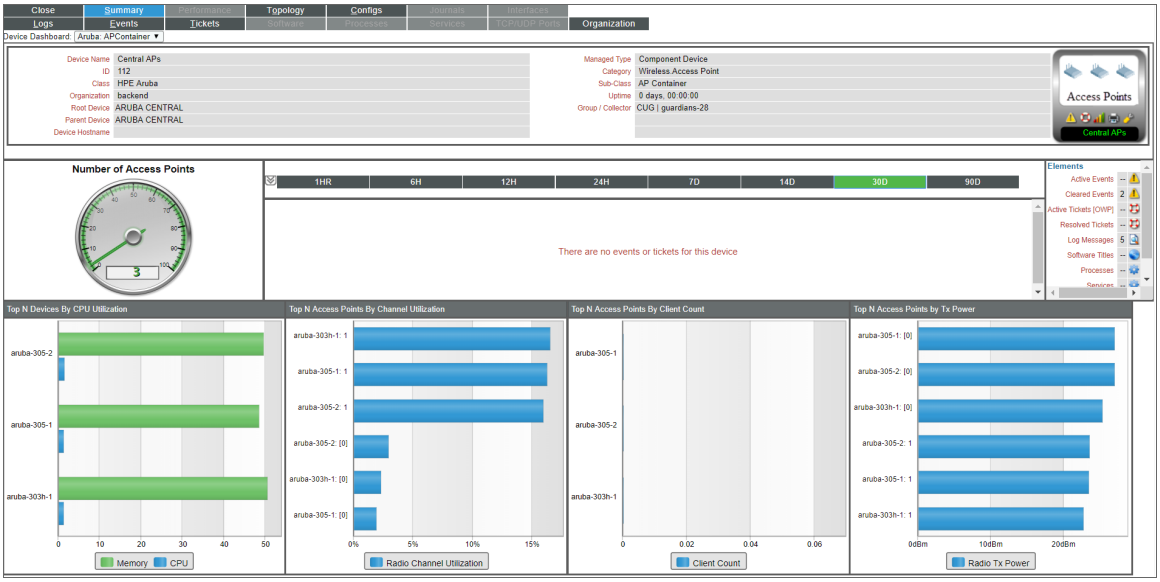
Aruba: Switch Container *19*

Aruba: Switch *20*

Device Dashboards

The *Aruba Central* PowerPack includes device dashboards that provide summary information for Aruba Central component devices. Each of the device dashboards in the *Aruba Central* PowerPack is set as the default device dashboard for the equivalent device class.

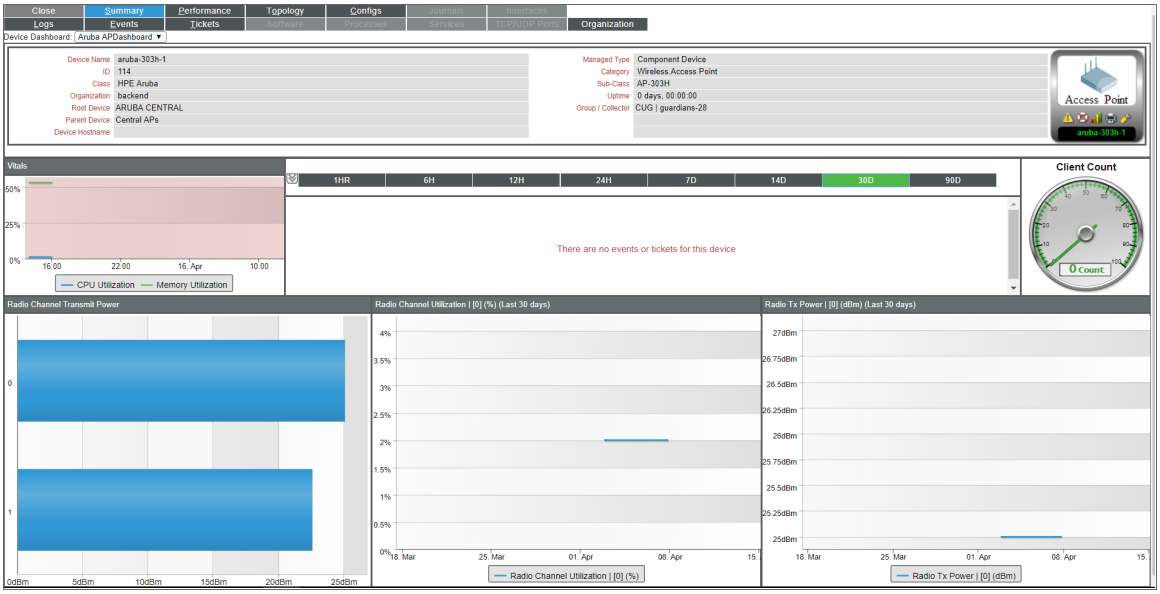
Aruba: AP Container



The **Aruba: AP Container** dashboard displays the following information:

- The basic information about the device
- The total number of access points
- A list of active events and open tickets associated with the device
- A count of, and links to, the elements associated with the device
- Four instances of the Leaderboard/Top-N Widget that display the top access points based on the following metrics:
    - CPU/memory utilization
    - Channel utilization
    - Client count
    - Transmit power

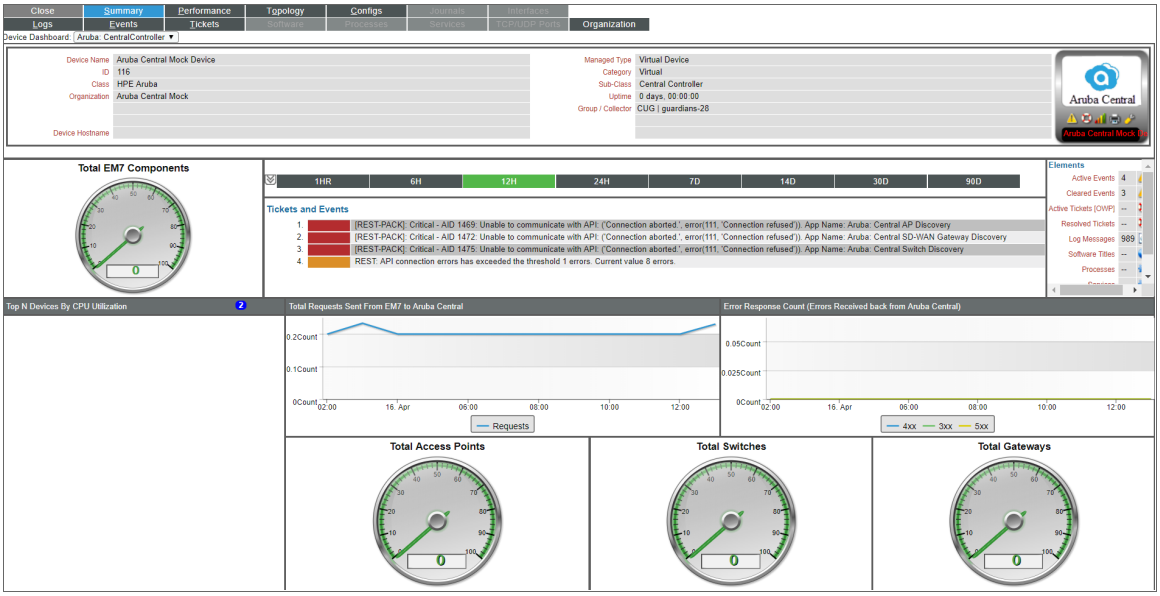
Aruba: AP



The **Aruba: AP** dashboard displays the following information:

- The basic information about the device
- The device's CPU and memory utilization vitals
- A list of active events and open tickets associated with the device
- The total number of AP clients
- Three instances of the Multi-series Performance Widget that display the following metrics trended over the specified period of time:
    - Radio channel transmit power
    - Radio channel utilization
    - Radio transmit power

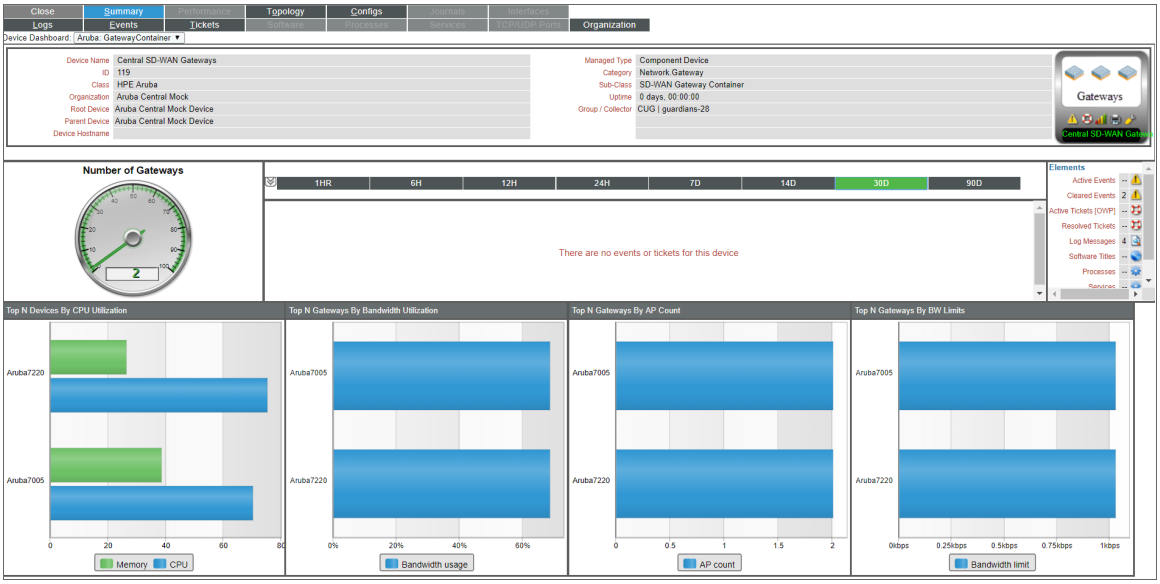
Aruba: Central Controller



The **Aruba: Central Controller** dashboard displays the following information:

- The basic information about the device
- A list of active events and open tickets associated with the device
- A count of, and links to, the elements associated with the device
- Four instances of the Gauge Widget that display the following metrics trended over the specified period of time:
    - Total SL1 components
    - Total access points
    - Total switches
    - Total gateways
- The top devices by CPU utilization over the specified period of time
- The total requests sent from SL1 to Aruba Central over the specified period of time
- The errors received back from Aruba Central over the specified period of time

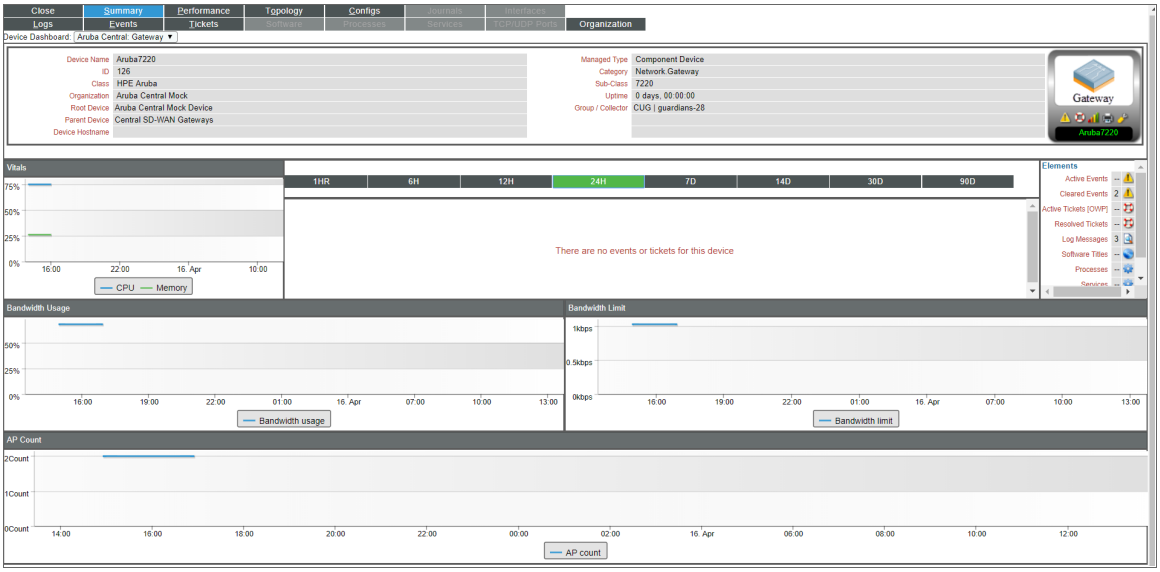
Aruba: Gateway Container



The **Aruba**: **Gateway Container** dashboard displays the following information:

- The basic information about the device
- The total number of gateways
- A list of active events and open tickets associated with the device
- A count of, and links to, the elements associated with the device
- Four instances of the Leaderboard/Top-N Widget that display the top gateways based on the following metrics:
    - CPU/memory utilization
    - Bandwidth utilization
    - AP count
    - Bandwidth limit

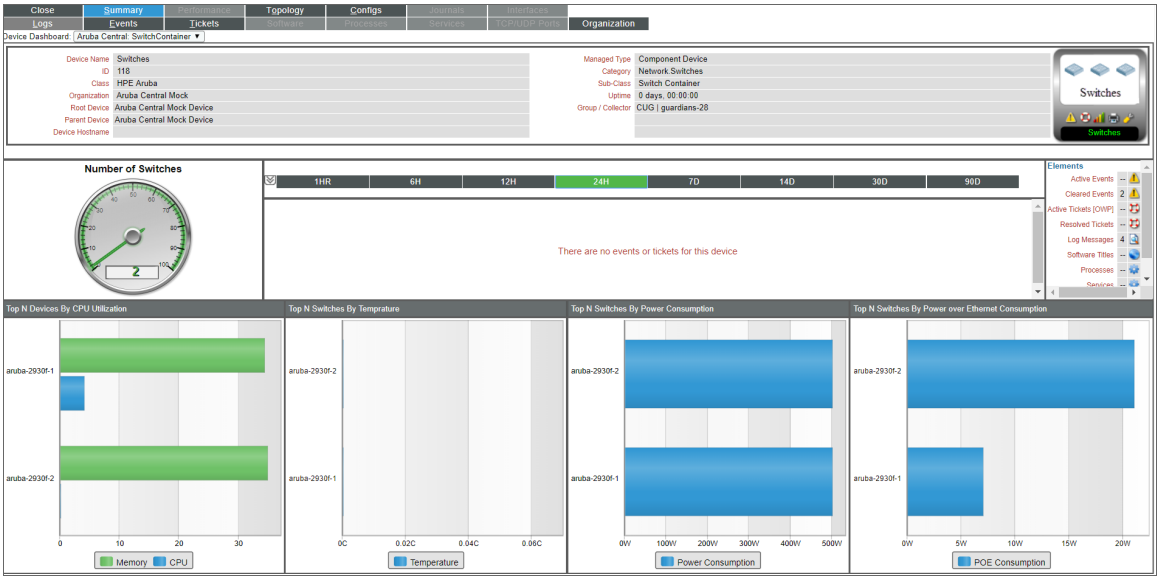
Aruba: Gateway



The **Aruba**: **Gateway** dashboard displays the following information:

- The basic information about the device
- The device's CPU and memory utilization vitals
- A list of active events and open tickets associated with the device
- A count of, and links to, the elements associated with the device
- Three instances of the Multi-series Performance Widget that display the following metrics trended over the specified period of time:
    - Bandwidth usage
    - Bandwidth limit
    - AP count

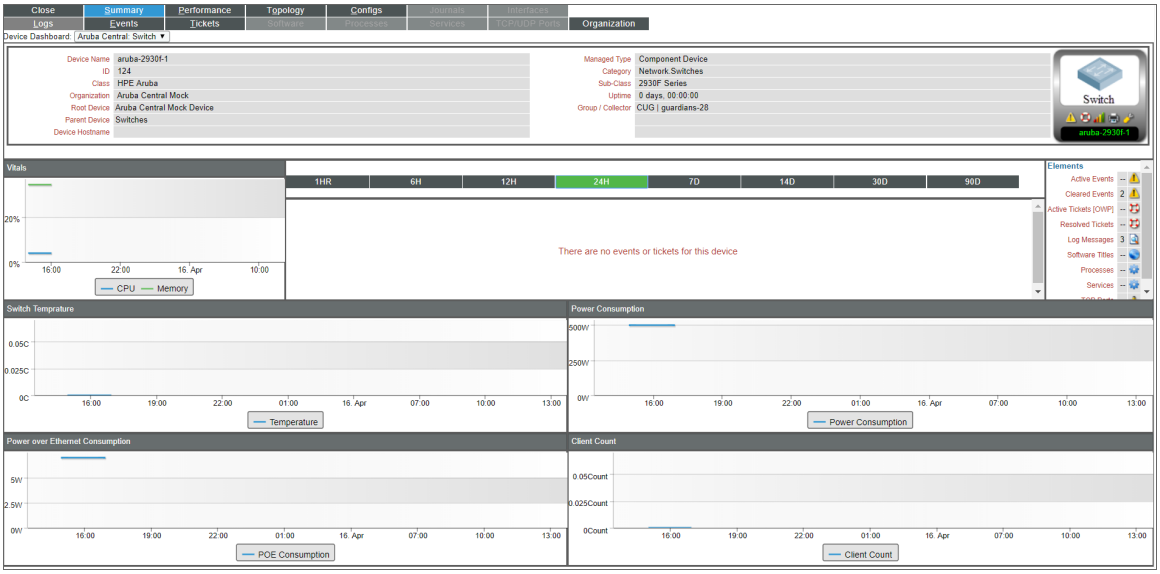
Aruba: Switch Container



The **Aruba: Switch Container** dashboard displays the following information:

- The basic information about the device
- The total number of switches
- A list of active events and open tickets associated with the device
- A count of, and links to, the elements associated with the device
- Four instances of the Leaderboard/Top-N Widget that display the top gateways based on the following metrics:
    - CPU/memory utilization
    - Temperature
    - Power consumption
    - Power over Ethernet consumption

Aruba: Switch



The **Aruba: Switch** dashboard displays the following information:

- The basic information about the device
- The device's CPU and memory utilization vitals
- A list of active events and open tickets associated with the device
- A count of, and links to, the elements associated with the device
- Four instances of the Multi-series Performance Widget that display the following metrics trended over the specified period of time:
    - Switch temperature
    - Power consumption
    - Power over Ethernet consumption
    - Client count

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