

Monitoring Aruba Central

Aruba Central PowerPack version 104

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Chapter

1

Introduction

Overview

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

This chapter covers the following topics:

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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
- Two samples of 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 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:

- 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.

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- 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*.

To ensure accurate data collection after upgrading PowerPack from any of the previous versions, perform the additional steps to authenticate using Oauth Grant Mechanism:

- 1. Go to the **Credential Management** page (System > Manage > Credentials). Identify your current credential and click on the credential's name to edit.
- 2. In the **Embed Password [%P]** field, type your Aruba Central client secret key.
- 3. In the **Embed Value [%1]** field, type "AuthOauth2".
- 4. In the **Embed Value [%2]** field, type your Aruba Central customer ID.
- 5. In the *Embed Value* [%3] field, type your Aruba Central client ID.
- 6. In the *Embed Value [%4]* field, set a page size between 1 and 1000.
- 7. Remove all HTTP Headers.
- 8. Remove any CURL Option and set the SSLVERIFYPEER Curl Option to 0 as the value and click Save.

To authenticate using the Offline Token Mechanism:

- 1. Go to the **Credential Management** page (System > Manage > Credentials). Identify your current credential and click on the credential's name to edit.
- 2. In the **Embed Password [%P]** field, type your Aruba Central client secret key.
- 3. In the *Embed Value [%1]* field, type "OfflineToken".
- 4. In the **Embed Value [%2]** field, type the refresh token.
- 5. In the *Embed Value* [%3] field, type your Aruba Central client ID.
- 6. In the **Embed Value [%4]** field, set a page size between 1 and 1000.
- 7. Remove all HTTP Headers.
- 8. Remove any CURL Option and set the SSLVERIFYPEER Curl Option to 0 as the value and click Save.

NOTE: The following Dynamic Applications will be disabled by default, and all collection for them will stop. In this case, you should manually enable these Dynamic Applications to restart collection: "Aruba Central APs Configuration," "Aruba Central APs Discovery," "Aruba Central APs Performance." If the number of devices is higher than 8000, you must configure your scale settings appropriately. You can follow the steps outlined the section SL1 Scale Settings.

Chapter

2

Configuration and Discovery

Overview

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

This chapter covers the following topics:

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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:

To authenticate using the Oauth Grant Mechanism:

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

To authenticate using the Offline Token Mechanism:

- Aruba Central client ID
- Aruba Central client secret key
- Aruba Central refresh token

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

Configuring Aruba Central Credentials

To use the Dynamic Applications in the Aruba Central PowerPack, you must configure a SOAP/XML credential for the Aruba Central web service.

SL1 includes an Aruba Central credential type that you can use to connect with the Aruba Central web service during guided discovery. This credential type uses field names and terminology that are specific to Aruba Central.

The PowerPack includes two example SOAP/XML credential examples (Aruba Central Example) and Aruba Central SSO Example) 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).

Configuring Aruba Central Credential using Oauth Grant Mechanism

To configure a SOAP/XML credential:

- 1. Go to the **Credentials** page (Manage > Credentials).
- 2. Locate the **Aruba Central Example** sample credential, then click its **Actions** icon (—) and select **Duplicate**. A copy of the credential, called **Aruba Central Example copy** appears.
- 3. Supply values in the following fields:

- Name. Type a new name for your Aruba Central 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.
- Timeout (ms). Type a timeout value of at least 2000.
- Content Encoding. Keep the default value.
- Method. Keep the default value.
- HTTP Version. Keep the default value.
- URL. Type your Aruba Central URL.
- HTTP Auth User. Type your Aruba Central username email address.
- HTTP Auth Password. Type your Aruba Central password.
- Embedded Password [%P]. Type your Aruba Central client secret key.
- Embed Value [%1]. Type "AuthOauth2".
- Embed Value [%2]. Type your Aruba Central customer ID.
- Embed Value [%3]. Type your Aruba Central client ID.
- Embed Value [%4]. Type the page size for pagination between 1 and 1000. ScienceLogic recommends setting the Embed Value [%4] field to a value close to 1,000 for large Aruba Central systems and only lowering this value if you see SIGTERMs. You cannot set the page size to 0 in this field. Aruba Central deployments of more than 5,000 devices need a dedicated collector.
- CURL Options. Ensure that SSLVERIFYPEER is selected and set to 0. There should be no other CURL
 Options configured.
- 4. Click [Save & Close].

NOTE: The SOAP/XML credential tester is not supported by the Aruba Central PowerPack.

Configuring Aruba Central Credentials using Oauth Grant Mechanism for SL1 in the Classic User Interface

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 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.
- Timeout. Type a value of at least 2.

SOAP Options

- Embedded Password [%P]. Type your Aruba Central client secret key.
- Embed Value [%1]. Type "AuthOauth2".
- Embed Value [%2]. Type your Aruba Central customer ID.
- Embed Value [%3]. Type your Aruba Central client ID.
- Embed Value [%4]. Type the page size for pagination between 1 and 1000.

NOTE: ScienceLogic recommends setting the *Embed Value* [%4] field to a value close to 1,000 for large Aruba Central systems and only lowering this value if you see SIGTERMs. You cannot set the page size to 0 in the Embed Value [%4] field. Aruba Central deployments of more than 5,000 devices need a dedicated collector.

- CURL Options. Ensure that SSLVERIFYPEER is selected and set to 0. There should be no other CURL
 Options configured.
- 4. For the remaining fields, use the default values.
- 5. Click the [Save As] button.

Configuring Aruba Central Credentials Using Offline Token Mechanism

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.

Aruba Central Power Pack supports SSO (Single Sign-On) using the Offline Token mechanism. This method generates a **Refresh Token** that's required when creating a SOAP/XML credential. The token file contains both an access token and a refresh token. Access tokens can be renewed with refresh tokens once expired.

To generate a token:

- 1. Navigate to the Aruba Central API Gateway User Interface.
- 2. Go to the **Rest API** page (**Organization** > **Platform Integration** > **Rest API**).
- 3. Click the **System Apps & Tokens** tab, and then click **View Tokens**.

4. Click the **Download Token** button to open the token file, and locate the series of characters next to the field **refresh token**.

For more information about generating a refresh token, see the Aruba Central documentation at https://www.arubanetworks.com/techdocs/central/latest/nms/api/offline-token.htm.

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 SSO Example credential, and then click its wrench icon (). The Edit SOAP/XML Credential modal appears.
- 3. Complete the following fields:
 - Name. Type a new name for the Aruba Central 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.
 - Timeout (ms). Type a timeout value of at least 2000.
 - Content Encoding. Keep the default value.
 - Method. Keep the default value.
 - HTTP Version. Keep the default value.
 - URL. Type your Aruba Central URL.
 - Embedded Password [%P]. Type your Aruba Central client secret key.
 - Embed Value [%1]. Type "OfflineToken" in the field.
 - Embed Value [%2]. Type your Refresh Token.
 - Embed Value [%3]. Type your Aruba Central client ID.
 - Embed Value [%4]. Type the page size for pagination between 1 and 1000. ScienceLogic recommends setting the Embed Value [%4] field to a value close to 1,000 for large Aruba Central systems and only lowering this value if you see SIGTERMs. You cannot set the page size to 0 in the Embed Value [%4] field. Aruba Central deployments of more than 5,000 devices need a dedicated collector.
 - CURL Options. Ensure that SSLVERIFYPEER is selected and set to 0. There should be no other CURL
 Options configured.
- 4. For the remaining fields, use the default values.
- 5. Click the [Save As] button.

Configuring Aruba Central Credentials Using Offline Token Mechanism in the Classic User Interface

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

- 1. Go to the **Credential Management** page (System > Manage > Credentials).
- Locate the Aruba Central SSO Example credential and click its wrench icon (). The Edit SOAP/XML Credential modal 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.
- Timeout. Type a value of at least 2.

SOAP Options

- Embedded Password [%P]. Type your Aruba Central client secret key.
- ° Embed Value [%1]. Type "OfflineToken" in the field.
- Embed Value [%2]. Type your Refresh Token.
- Embed Value [%3]. Type your Aruba Central client ID.
- Embed Value [%4]. Type the page size for pagination between 1 and 1000.

NOTE: ScienceLogic recommends setting the *Embed Value* [%4] field to a value close to 1,000 for large Aruba Central systems and only lowering this value if you see SIGTERMs. You cannot set the page size to 0 in the Embed Value [%4] field. Aruba Central deployments of more than 5,000 devices need a dedicated collector.

- CURL Options. Ensure that SSLVERIFYPEER is selected and set to 0. There should be no other CURL
 Options configured.
- 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 (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 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 (Devices > Templates, or Registry > Devices > Templates in the SL1 classic user interface).
- 2. Locate the "Aruba Central Template" and click its wrench icon (). The **Device Template Editor** modal page appears.
- 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.

NOTE: After discovering your Aruba devices, ensure that Configuration and Performance Dynamic Applications for a device type run at the same interval or less often than the respective discovery Dynamic Application for that device. For example, if the "Aruba: Central AP Discovery" Dynamic Application runs every 15 minutes, then the "Aruba: Central AP Performance" Dynamic Application must run at 15 minutes or less.

Creating Log Policies for Dynamic Applications

Optionally, you can create dedicated log policies that enable deeper analysis of the Dynamic Applications in the *Aruba Central* PowerPack.

To do so:

- 1. Either go to the console of the Data Collector or use SSH to access the Data Collector.
- 2. At the shell prompt, enter the following command:

```
sudo -u s-em7-core
/opt/em7/envs/186BDE253319BF2A2AD30E0C5C4932B9/bin/python -m silo.low_
code.cli log-policy create --name=<name> --app_id=<app_id> --
did=<device_id> --duration="<duration>"
```

You can insert the following durations:

- #w. Week.
- #d . Day.
- #h . Hour.
- #m. Minute.
- #s. Second.

TIP: For more information, you can enter one of the following commands to access the help files:

```
sudo -u s-em7-core
/opt/em7/envs/186BDE253319BF2A2AD30E0C5C4932B9/bin/python -m
silo.low_code.cli log-policy --help

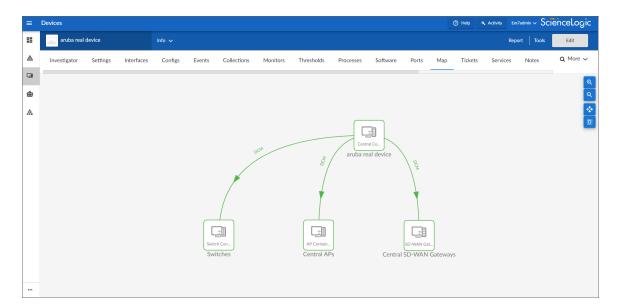
sudo -u s-em7-core
/opt/em7/envs/186BDE253319BF2A2AD30E0C5C4932B9/bin/python -m
silo.low_code.cli log-policy create --help
```

3. The system will create the log file in the directory /var/log/em7, using the name you define.

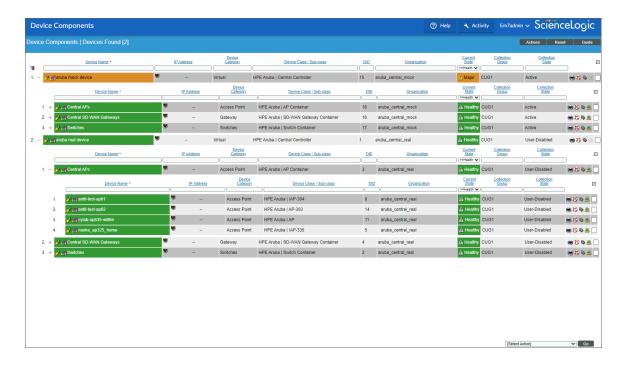
Viewing Aruba Central Component Devices

In addition to the **Devices** page, you can view your Aruba Central 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.

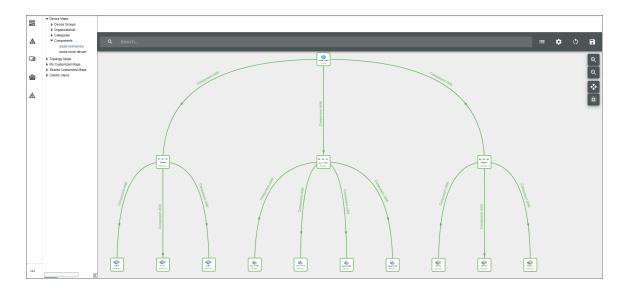


The **Device Components** page (Devices > Device Components) displays a list of all root devices and component devices discovered by SL1. The **Device Components** page displays all root devices and component devices in an indented view, so you can easily view the hierarchy and relationships between child devices, parent devices, and root devices. To view the component devices associated with an Aruba Central device, find the device and click its plus icon (+).



• The **Component Map** page (Maps>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 an Aruba Central

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 **Views** manual.



SL1 Scale Settings

If Aruba Central has more than 8,000 devices to collect information from, follow the steps outlined below to configure and apply the appropriate settings:

Recommended settings in SL1:

- 1. Go to the **Process Editor** page (System > Settings > Processes).
- 2. Search for "Data Collection: Dynamic App" and click its wrench icon (🅕).
- 3. Set the Batch Factor (Jobs) field to [2], and then click [Save].
- 4. You will also need the set the *Maximum Devices* to 400 on the "Aruba: Central AP Configuration" and "Aruba: Central AP Performance" Dynamic Applications.

Recommended settings in the Collector Unit (CU):

1. Set the memory limit of the Data Collection: Dynamic App process to 4294967296 (4GB) by connecting the Collector Unit and adding the following lines to the file /etc/silo.conf:

```
1 ...
2 [PROC_VIRTUAL_MEM_LIMIT]
3 11 = 4294967296
```

NOTE: The 11 represents the id of the Data Collection: Dynamic App process. This setting will be applied during execution, so you do not need to restart the collector.

NOTE: The memory limit set is in bytes and can be increased. You may need to increase this limit if there is "MemoryError: Out Of Memory" exception or if there are SIGTERMS for a period of time

Recommended Specs And Settings

Collection Unit (CU):

Number of devices	Specs	Settings
 Up to ~8000 Access Points Up to ~100 Gateways Up to ~500 Switches 	CPU: 16 cores Memory: 24 GB Disk: 150 GB	*Memory Limit 11: 4294967296
 Up to ~15000 Access Points Up to ~500 Gateways Up to ~500 Switches 	CPU: 16 cores Memory: 32 GB Disk: 150 GB	*Memory Limit 11: 6442450944
 Up to ~20000 Access Points Up to ~500 Gateways Up to ~500 Switches 	CPU: 16 Cores Memory: 32 GB Disk: 150 GB	*Memory Limit 11: 8589934592

For more details on how to configure these settings, refer to the **Recommended Settings in the Collector Unit** section above.

Central Database (CDB) Specs:

CPU: 16 coresMemory: 74 GBDisk: 600 GB

ScienceLogic recommends checking disk space along with other specs in the CDB and increase them as needed based on the VM DataBase Specifications (above 1000 devices) table:

		Minimum at 1000 Devices			Addition Resource per 1000 to 6000 Devices			Addition Resource beyond 6000 Devices		
Туре	Description	CPU Cores	Memory RAM (GB)	Hard Disk (GB)	CPU Cores	Memory RAM (GB)	Hard Disk (GB)	CPU Cores	Memory RAM (GB)	Hard Disk (GB)
DB	Database Server	4	24	300	2	16	150	1	16	100

NOTE: For more information, see the documentation at https://support.sciencelogic.com/s/system-requirements?tabset-e65a2=60f0a.

Chapter

3

Aruba Central Dashboards

Overview

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

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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.

NOTE: Some widgets will not display data for the "Aruba: Central Controller," "Aruba: Wireless Access Points," "Aruba: Gateway Summary," "Aruba: Gateway," and "Aruba: Switches" SL1 dashboards because the Dynamic Applications "REST: Performance Metrics Monitor (Aruba Central)" and "Aruba: Central Component Counts" are disabled by default for this version:

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:

- o 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
 - o 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
 - o Bandwidth limit

Aruba: Central Controller

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
 - o 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

22 Aruba: Gateway

- Four instances of the Multi-series Performance Widget that display the following metrics trended over the specified period of time:
 - ° Switch temperature
 - o Power consumption
 - o Power over Ethernet consumption
 - o Client count

Aruba: Switch

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