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# Monitoring Cisco Viptela

Cisco: Viptela PowerPack version 104

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# Chapter

# 1

## Introduction

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### Overview

This manual describes how to monitor Cisco: Viptela devices in SL1 using the *Cisco: Viptela PowerPack*.

The following sections provide an overview of Cisco: Viptela devices and the *Cisco: Viptela PowerPack*:

This chapter covers the following topics:

<i>What is Cisco: Viptela?</i> .....	4
<i>What Does the Cisco: Viptela PowerPack Monitor?</i> .....	4
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## What is Cisco: Viptela?

Cisco: Viptela provides a cloud-based, software-defined wide area networking (SD-WAN) solution. Cisco: Viptela includes advanced routing, segmentation, and security capabilities for enterprise networks. Cisco: Viptela's cloud-based network management and orchestration technologies help you deploy and manage the latest WAN architectures.

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## What Does the Cisco: Viptela PowerPack Monitor?

To monitor Cisco: Viptela resources using the ScienceLogic platform, you must install the *Cisco: Viptela* PowerPack. This PowerPack enables you to discover, model, and collect data about Viptela resources.

The *Cisco: Viptela* PowerPack includes:

- Example credentials that you can use as templates to create SOAP/XML credentials to connect to Viptela
- The "Cisco: Viptela vManage Template" for aligning all dynamic applications to the root component device
- Dynamic Applications to discover, model, and monitor performance metrics or collect configuration data for the following Cisco: Viptela resources:
  - vManage
  - vSmart Controller
  - vEdge Routers
  - vBond Orchestrator
- Device Classes for each type of Cisco: Viptela device monitored:
  - ASR1000 Series
  - ISR1000 Series
  - ISR4000 Series
  - vBond Orchestrator
  - vEdge
  - vEdge Cloud
  - vEdge 100
  - vEdge 1000
  - vEdge 5000
  - vEdge 2000
  - vEdge 100-B
  - vEdge 100-M
  - vEdge 100-WM
  - vEdge Container

- vManage
- vSmart Controller
- Event Policies and corresponding alerts that are triggered when Viptela resources meet certain status criteria
- Dashboards that display information about Cisco: Viptela component devices

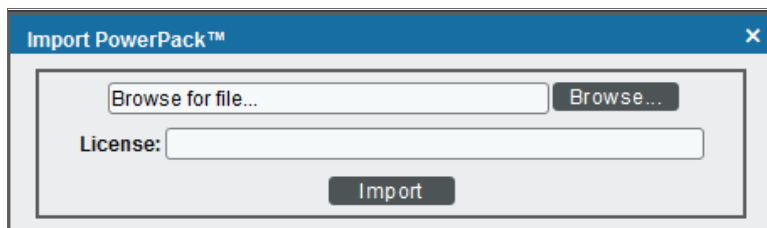
## Installing the Cisco: Viptela PowerPack

Before completing the steps in this manual, you must import and install the latest version of the *Cisco: Viptela 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.)

To download and install a PowerPack:

1. Download the PowerPack from the ScienceLogic Support Site at <https://support.sciencelogic.com/s/powerpacks>.
2. Go to the **PowerPack Manager** page (System > Manage > PowerPacks).
3. In the **PowerPack Manager** page, click the **[Actions]** button, then select *Import PowerPack*. The **Import PowerPack** dialog box appears:



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

**NOTE:** If you exit the **PowerPack Installer** modal 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. This page appears when you click the **[Actions]** menu and select *Install PowerPack*.

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# Chapter

# 2

## Configuration and Discovery

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### Overview

The following sections describe how to configure and discover Cisco Viptela resources for monitoring by SL1 using the *Cisco: Viptela* PowerPack:

This chapter covers the following topics:

<i>Prerequisite for Monitoring Cisco Viptela</i> .....	6
<i>Configuring a Credential for Cisco Viptela</i> .....	6
<i>Creating a Cisco Viptela Virtual Device</i> .....	9
<i>Aligning Dynamic Applications to the Virtual Device</i> .....	10
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### Prerequisite for Monitoring Cisco Viptela

To configure the SL1 system to monitor Cisco Viptela resources using the *Cisco: Viptela* PowerPack, you must first know the credentials (username and password) for a user account that has access to the Cisco Viptela system. The user account must have read-all access.

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### Configuring a Credential for Cisco Viptela

To configure SL1 to monitor Cisco: Viptela devices, you must first create a SOAP/XML credential. This credential allows the Dynamic Applications in the *Cisco: Viptela* PowerPack to use your Cisco: Viptela user account to retrieve information from the *Cisco: Viptela* devices.

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

To configure a SOAP/XML credential to access Cisco: Viptela:

1. Go to the **Credentials** page (Manage > Credentials).
2. Locate and then click the **Viptela Credential Example - SOAP/XML** credential. The **Edit Credential** modal page appears:

3. Complete the following fields:
  - **Name**. Type a name for the Cisco: Viptela 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 **What organization manages this service?** drop-down field to align the credential with those specific organizations.
  - **Timeout (ms)**. Keep the default value.
  - **Content Encoding**. Select *text/xml*.
  - **Method**. Select POST.
  - **HTTP Version**. Select HTTP/1.1.
  - **URL**. Type the URL and port for the Cisco: Viptela system, using the following format: *https://URL:443*. For example, *https://my.viptela.system:443*.
  - **HTTP Auth User**. Type the Cisco: Viptela account username.
  - **HTTP Auth Password**. Type the Cisco: Viptela account password.
4. For the remaining fields, use the default values, and then click the **[Save As]** button.

## Configuring a Credential for Cisco Viptela in the SL1 Classic User Interface

To configure SL1 to monitor Cisco: Viptela devices, you must first create a SOAP/XML credential. This credential allows the Dynamic Applications in the Cisco: Viptela PowerPack) to use your Cisco: Viptela user account to retrieve information from the Cisco: Viptela devices.

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

To configure a SOAP/XML credential to access Cisco: Viptela:

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

The screenshot shows the 'Edit SOAP/XML Credential #94' modal page. It features a blue header with the title and 'New' and 'Reset' buttons. The main content area is divided into four sections: 'Basic Settings', 'Soap Options', 'Proxy Settings', and 'CURL Options'. The 'Basic Settings' section contains 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 has fields for Hostname/IP, Port, and User. The 'CURL Options' section has a list of options and a 'Add a header' section with a field containing '%silo\_token=X-XSRF-TOKEN'. The page has 'Save' and 'Save As' buttons at the bottom.

3. Complete the following fields:

- **Profile Name.** Type a name for the Cisco: Viptela credential.
- **Content Encoding.** Select *text/xml*.
- **Method.** Select POST.
- **HTTP Version.** Select HTTP/1.1.
- **URL.** Type the URL and port for the Cisco: Viptela system, using the following format: *https://URL:443*. For example, *https://my.viptela.system:443*.
- **HTTP Auth User.** Type the Cisco: Viptela account username.



- **HTTP Auth Password.** Type the Cisco: Viptela account password.
- **Timeout (seconds).** Type "10".

4. For the remaining fields, use the default values, and then click the **[Save As]** button.

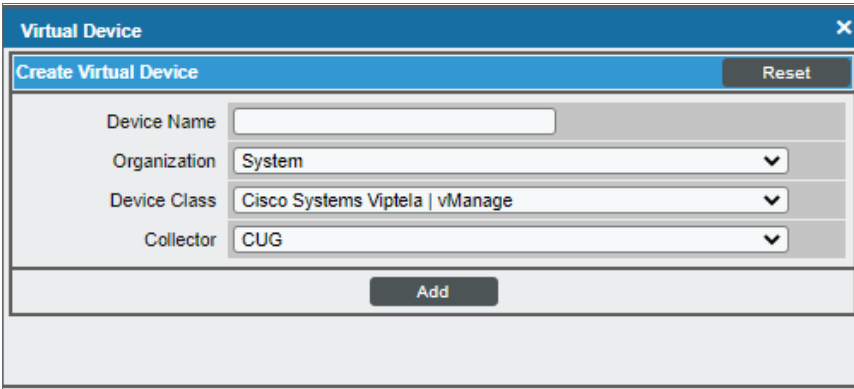
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## Creating a Cisco Viptela Virtual Device

Because the Cisco: Viptela service does not have a static IP address, you cannot discover a Cisco: Viptela device using discovery. Instead, you must create a **virtual device** that represents the Cisco: Viptela service. 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 Cisco: Viptela service:

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



The screenshot shows a modal window titled "Virtual Device" with a close button (X) in the top right corner. Inside the modal, there is a sub-header "Create Virtual Device" and a "Reset" button. Below this, there are four input fields: "Device Name" (a text box), "Organization" (a dropdown menu with "System" selected), "Device Class" (a dropdown menu with "Cisco Systems Viptela | vManage" selected), and "Collector" (a dropdown menu with "CUG" selected). At the bottom of the form is an "Add" button.

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 *Cisco Systems Viptela | vManage*.
  - **Collector.** Select the collector group that will monitor the device.
4. Click **[Add]** to create the virtual device.

# Aligning Dynamic Applications to the Virtual Device

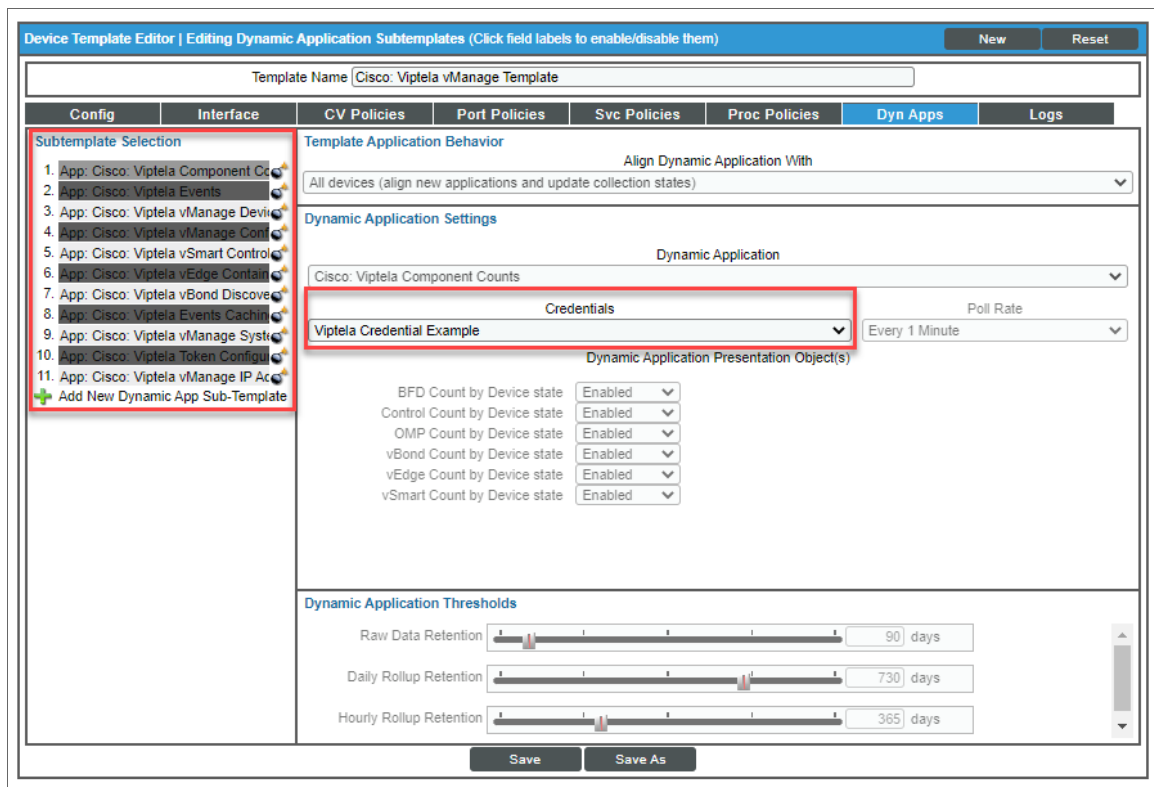
A **device template** allows you to save a device configuration and apply it to multiple devices. The Cisco: Viptela PowerPack includes the "Cisco: Viptela vManage Template," which enables the SL1 to align all Dynamic Applications to the root component device.

## Configuring the Device Template

Before you can use the "Cisco: Viptela vManage Template," you need to configure the template so that each dynamic application in the template aligns with the **credential you created earlier**.

To configure the Viptela device template:

1. Go to the **Configuration Templates** page (Devices > Templates).
2. Locate the "Cisco: Viptela vManage 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 Viptela.
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.

- Repeat step 5 until you have selected that credential in the **Credentials** field for all of the Dynamic Applications listed in the **Subtemplate Selection** section.
- Click **[Save]**.

## Using the Device Template to Align Dynamic Applications to the Component Device

After you have configured the "Cisco: Viptela vManage Template" so that each dynamic application in the template aligns with the credential you created, you can use that template to align the Dynamic Applications to the root component device for Cisco: Viptela.

To use the "Viptela vManage Template" to align Dynamic Applications:

- Go to the **Device Manager** page (Devices > Device Manager).
- On the **Device Manager** page, select the checkbox for the root component device.

The screenshot shows the 'Device Manager' interface with a table of 12 devices. The first device, '10.10.10.10', is the root component device and is highlighted. A context menu is open over this device, showing various actions. The '\_MODIFY By Template' option is highlighted in red.

Device Name	IP Address	Device Category	Device Class   Sub-class	DD	Organization	Current State	Collection Group	Collection State	SNMP Credential	SNMP Version
10.10.10.10	--	Network Services	Cisco Systems Viptela   vManage	80	SILO	Healthy	CUG2	Active	--	--
Branch1-Router1	--	Network Router	Cisco Systems Viptela   vEdge Cloud	87	SILO	Major	CUG2	Unavailable	--	--
Branch1-Router2	--	Network Router	Cisco Systems Viptela   vEdge Cloud	86	SILO	Major	CUG2	Unavailable	--	--
DC1-Router1	--	Network Router	Cisco Systems Viptela   vEdge Cloud	91	SILO	Major	CUG2	Unavailable	--	--
DC1-Router2	--	Network Router	Cisco Systems Viptela   vEdge Cloud	89	SILO	Major	CUG2	Unavailable	--	--
DC2-Router1	--	Network Router	Cisco Systems Viptela   vEdge Cloud	88	SILO	Major	CUG2	Unavailable	--	--
DC2-Router2	--	Network Router	Cisco Systems Viptela   vEdge Cloud	90	SILO	Major	CUG2	Unavailable	--	--
vBond-1	--	Network Services	Cisco Systems Viptela   vBond Orchestrator	84	SILO	Major	CUG2	Unavailable	--	--
vBond-2	--	Network Services	Cisco Systems Viptela   vBond Orchestrator	85	SILO	Major	CUG2	Unavailable	--	--
vEdge Container	--	Network Services	Cisco Systems Viptela   vEdge Container	83	SILO	Healthy	CUG2	Active	--	--
vSmart-1	--	Network Services	Cisco Systems Viptela   vSmart Controller	81	SILO	Major	CUG2	Unavailable	--	--
vSmart-2	--	Network Services	Cisco Systems Viptela   vSmart Controller	82	SILO	Major	CUG2	Unavailable	--	--

Context Menu Options:

- [Select Action]
- Administration:
  - \_DELETE Selected Devices
  - \_MODIFY By Template**
  - \_CLEAR Device Logs
  - \_CREATE Asset Record
  - \_SCHEDULE Maintenance
  - \_FIND Collection Label Duplicates
- Change Collection State:
  - \_Active
  - \_Disabled
- Change User Maintenance Mode:
  - \_Enabled with Collection
  - \_Enabled without Collection
  - \_Disabled
- Change Collector Group:
  - \_CUG2
  - \_CUG\_Automation
- Move To Organization:
  - \_backend

Buttons: [ \_MODIFY By Template ], [ Go ]

- In the **Select Actions** field, in the lower right, select the option *MODIFY by Template* and click the **[Go]** button. The **Device Template Editor** page appears:

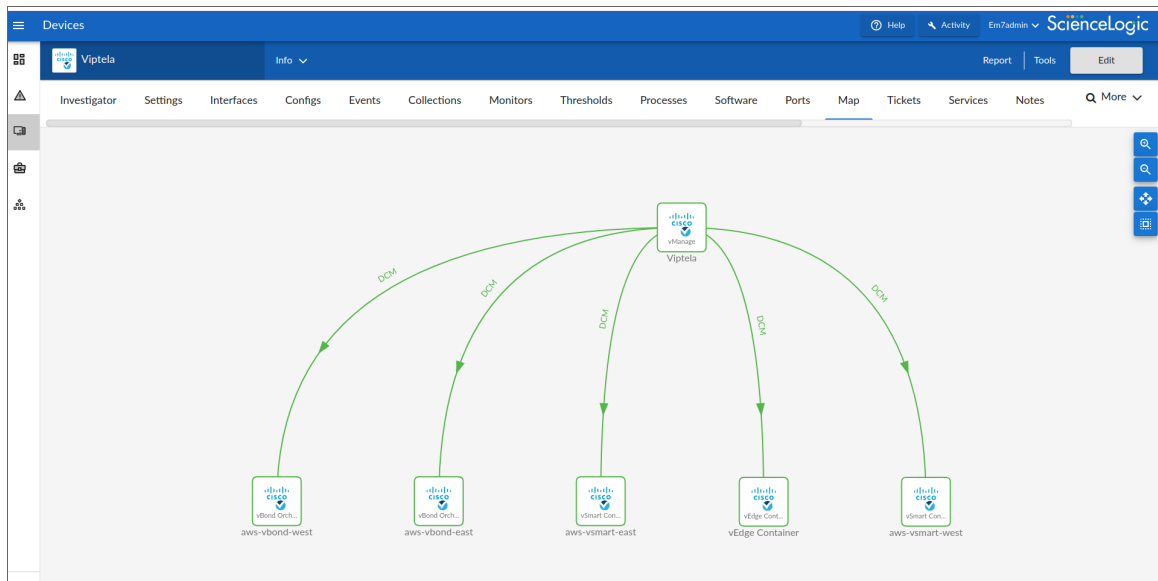
The screenshot shows the 'Device Template Editor' interface. At the top, there's a title bar with 'Device Template Editor | Applying Template to Devices | Config Template: Settings (Click field labels to enable/disable them)' and a 'Reset' button. Below the title bar, there's a 'Template' dropdown menu set to 'New / One-off Template' and a 'Save When Applied & Confirmed' checkbox. The main area is divided into several sections: 'Access & Availability' with various device and support templates, 'Device Retention & Basic Thresholds' with sliders for System Latency, Availability Packet Size, Availability Ping Count, and various Rollup Bandwidth Data, and 'Interface Inventory Settings' with fields for Interface Inventory and Maximum Allowed. An 'Apply' button is at the bottom center.

- Complete the following fields:
  - In the **Template** drop-down list, select *Cisco: Viptela vManage Template*.
  - In the **Credentials** drop-down list, select the credential you created earlier.
- Click the **[Apply]** button, and then click **[Confirm]** to align the Dynamic Applications to the root component device.

# Viewing Information About the Cisco Viptela System

You can view your Cisco Viptela devices in the following places in the user interface:

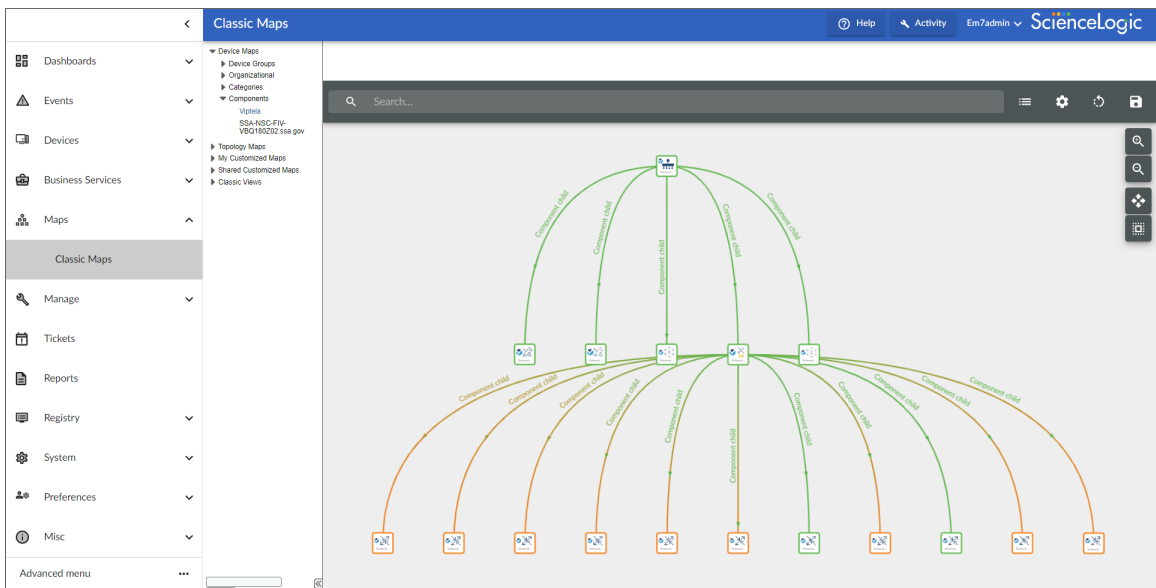
- The **Devices** page (click the **Devices** tab) allows you to view all the devices, virtual devices, and component devices in the Cisco: Viptela system, including a map of particular devices and all of the devices with which it has parent-child relationship.



- 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 a Cisco Viptela device, find the device and click its plus icon (+).

Device Components   Devices Found [1]																																																																																																																							
Device Name	IP Address	Device Category	Device Class   Sub-class	DD	Organization	Current State	Collection Group	Collection State																																																																																																															
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- The **Classic Maps** page (*Maps > Classic Maps*) allows you to view devices by root node and view the relationships between root nodes, parent components, and child components in a map. From this page, go to Device Maps > Component to easily visualize and manage root nodes and their components. SL1 automatically updates the **Classic Maps** 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 Viptela device, go to the **Classic Maps** page and select the map from the list in the left NavBar. To learn more about the **Classic Map** page, see the *Maps* manual.



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# Chapter

# 3

## Dashboards

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### Overview

The *Cisco Viptela* PowerPack contains dashboards that present data related to different aspects of a Cisco Viptela system.

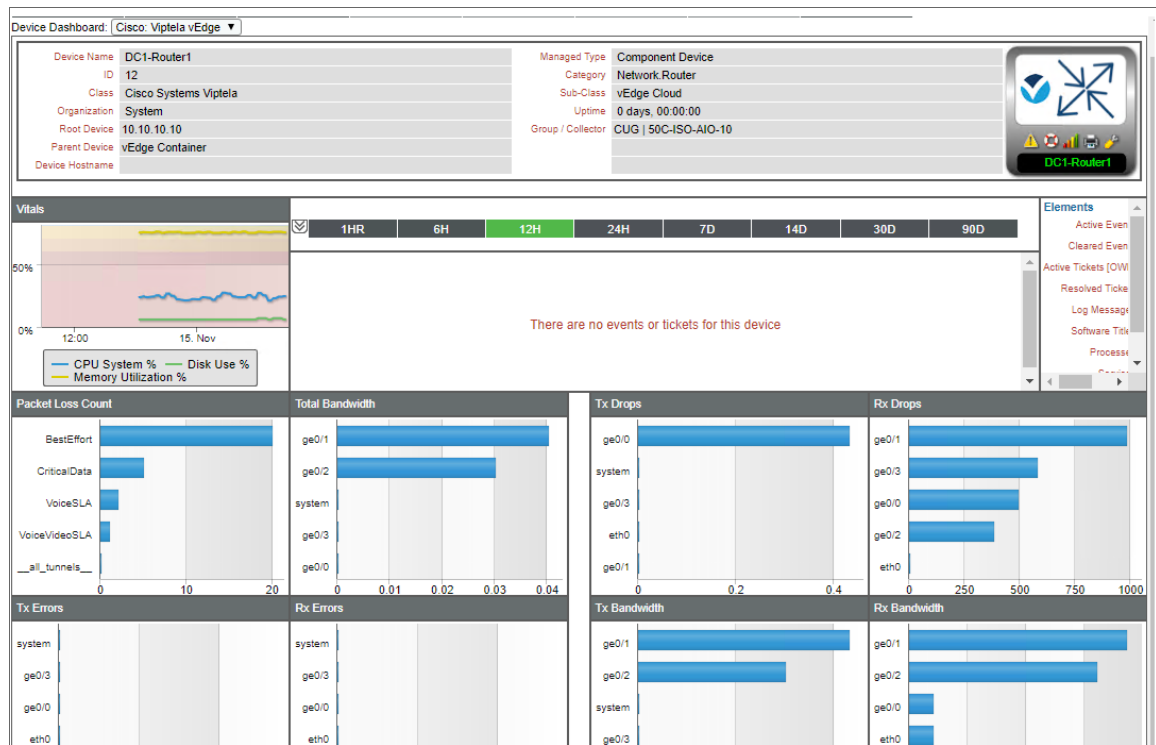
The following sections describe each of these dashboards:

This chapter covers the following topics:

<i>Cisco Viptela vEdge Dashboard</i> .....	16
<i>Cisco Viptela vManage Dashboard</i> .....	17
<i>Cisco Viptela vSmart and vBond Dashboard</i> .....	18

# Cisco Viptela vEdge Dashboard

The Cisco: Viptela PowerPack includes a dashboard that provides summary information for vEdge Router component devices.



The Cisco: Viptela vEdge dashboard displays the following information:

- Vitals: CPU system percentage, disk use percentage, and memory utilization percentage
- Packet loss count
- Total bandwidth by interface
- Tx drops by interface
- Rx drops by interface
- Tx errors by interface
- Rx errors by interface
- Tx bandwidth by interface
- Rx bandwidth by interface



# Cisco Viptela vManage Dashboard

The Cisco Viptela PowerPack includes a dashboard that provides summary information for vManage component devices.

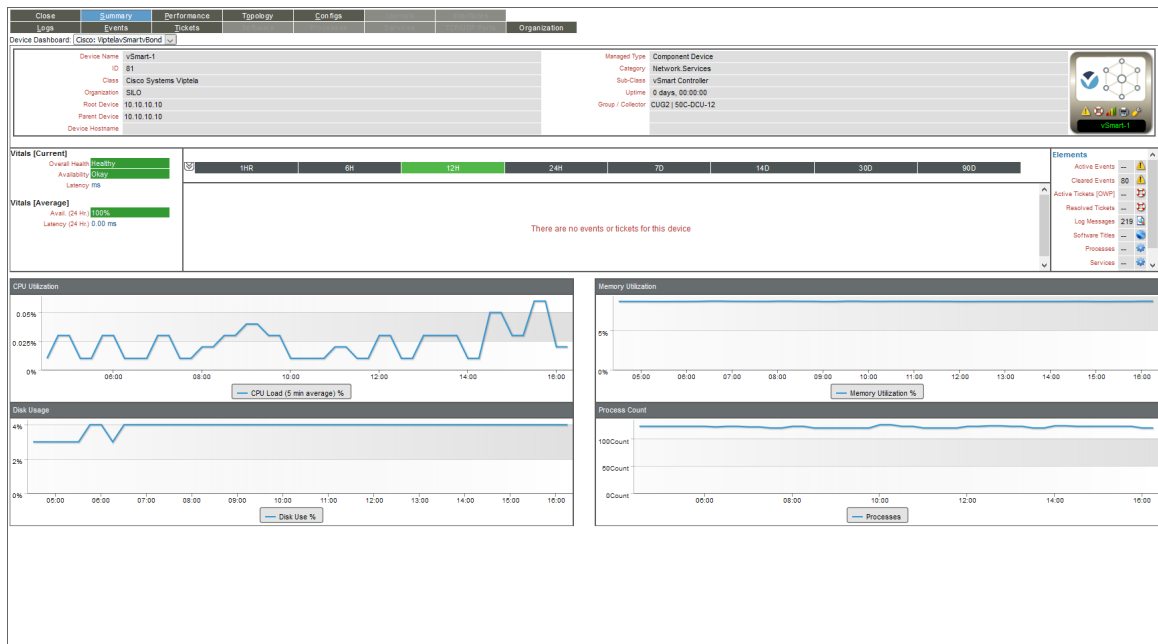


The Cisco Viptela vManage dashboard displays the following information:

- CPU utilization
- Memory utilization
- Disk usage
- New event counts

# Cisco Viptela vSmart and vBond Dashboard

The Cisco Viptela PowerPack includes a dashboard that provides summary information for vSmart and vBond component devices.



The Cisco Viptela vSmartvBond dashboard displays the following information:

- CPU utilization
- Memory utilization
- Disk usage
- Process counts

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