

# **Monitoring Cisco Viptela**

Cisco: Viptela PowerPack Beta version 100

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# Chapter

# Introduction

#### Overview

This manual describes how to monitor Cisco Viptela devices in the ScienceLogic platform using the Cisco Viptela PowerPack.

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

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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.

### What Does the Cisco: Viptela PowerPack Monitor?

To monitor Cisco Viptela resources using the ScienceLogic platform, you must install the Cisco ViptelaPowerPack. 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:
  - 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 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:

Import PowerPack™		×
Browse for file License:	Browse	

- 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

# **Discovering a Cisco Viptela System**

#### Overview

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

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# Prerequisite for Monitoring Cisco Viptela

To configure the ScienceLogic system to monitor Cisco Viptela resources using the Cisco ViptelaPowerPack, 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.

## Configuring a Credential for Cisco Viptela

To configure the ScienceLogic platform 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 (*P*). The Edit SOAP/XML Credential modal page appears:

Edit SOAP/XML Credential #80	New Reset
Basic Settings         Profile Name       Content Encoding       Method       HTTP Version         Viptela Credential Example       [[text/xml]]       [[POST]]       [[HTTP/1.1]]         URL [ http(s)://Host:Port/Path   %D = Aligned Device Address   %N = Aligned Device Host Name ]         https://URL:443         HTTP Auth User       HTTP Auth Password       Timeout (seconds)         cusername>       10	Soap Options Embedded Password [%P] Embed Value [%1] Embed Value [%2] False Embed Value [%3] Embed Value [%4]
Proxy Settings Hostname/IP Port User Password  CURL Options CAINFO CAPATH CLOSEPOLICY CONNECTTIMEOUT COOKIEFLLE COOKIEFLLE COOKIEFLLE COOKIEFLLST CRLF CUSTOMREQUEST DNSCACHETIMEOUT V	HTTP Headers + Add a header
Save Save As	

- 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.

### 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 the ScienceLogic platform. 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 (Registry > Devices > Device Manager).
- 2. Click the **[Actions]** button and select Create Virtual Device from the menu. The **Virtual Device** modal page appears:

Virtual Device		×							
Create Virtual Device		Reset							
Device Name	192.0.2.0								
Organization	System	$\sim$							
Device Class	Cisco Systems Viptela   vManage	$\sim$							
Collector	CUG	~							
	Add								

- 3. Complete the following fields:
  - **Device Name**. Type the system IP address of the Cisco Viptela vManage device. The ScienceLogic API request uses this IP address instead of the device name.
  - **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 the ScienceLogic platform 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 (Registry > Devices > Templates).
- 2. Locate the "Cisco: Viptela vManage Template" and click its wrench icon (*P*). The **Device Template Editor** modal page appears.
- 3. Click the [Dyn Apps] tab. The Editing Dynamic Application Subtemplates page appears:

Device Template Editor   Editing Dynam	ic Application Subte	mplates (Click field la	bels to enable/disable	them)		New	Reset
Templa	ate Name Cisco: Viptela	vManage Template					
Config Interface	CV Policies	Port Policies	Svc Policies	Proc Policies	Dyn Apps	Lo	gs
Subtemplate Selection	Template Applicati	on Behavior		c Application With			
1. App: Cisco: Viptela Component Cc 2. App: Cisco: Viptela Events	All devices (align nev	v applications and upd		c Application with			$\sim$
3. App: Cisco: Viptela Events	Dynamic Applicatio	on Settings					
4. App: Cisco: Viptela vManage Con of	bynamie Applicate	in octango	Durani				
<ol> <li>App: Cisco: Viptela vSmart Controct</li> <li>App: Cisco: Viptela vEdge Contain C</li> </ol>	Cisco: Viptela Comp	onent Counts	Dynamic	c Application			~
7. App: Cisco: Viptela vBond Discov			lentials		1	Poll Rate	
<ol> <li>App: Cisco: Viptela Events Cachin of 9. App: Cisco: Viptela vManage Systof</li> </ol>	Viptela Credential E	xample		~	Every 1 Minute		$\sim$
			Dynamic Application	n Presentation Object(s)			
	BFD C	ount by Device state	Enabled 🗸				
		ount by Device state	Enabled 🗸				
		ount by Device state ount by Device state	Enabled V				
		ount by Device state	Enabled				
	-	ount by Device state	Enabled V				
	Dynamic Applicatio	n Threeholde					
						_	
	Raw Data R	etention			90 days		^
	Daily Rollup R	etention	1 I		730 days		
	Hourly Rollup R	etention	<u>.</u>		365 days		~
	1	Save	Save As				

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.
- 6. 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.
- 7. 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:

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

vice Manager   Devices Found												
Device Name •		P Address	Device Category	Device Class   Sub-class	DD	Organization	Current State	Collection Group	Collectio State	B SNMP Credential	SNMP Versio	<u> </u>
								<u>_</u>				
				Cisco Systems Viptela   vManage	80	SILO	Critical	CUG2	Active	-		
🤌 📶 🚊 🚊 Branch 1-Router 1				Cisco Systems Viptela   vEdge Cloud	87	SILO		CUG2	Unavailable		-	•
🥜 📶 🏂 🏂 Branch 1-Router2		-	Network.Router	Cisco Systems Viptela   vEdge Cloud	86	SILO	Major	CUG2	Unavailable		-	1
🥕 🚮 🚊 🚊 DC1-Router1		-	Network.Router	Cisco Systems Viptela   vEdge Cloud	91	SILO	Major	CUG2	Unavailable	-	-	📾 👯 🗞 🛅
🤌 🚮 🚊 🧕 DC1-Router2	۳	-	Network.Router	Cisco Systems Viptela   vEdge Cloud	89	SILO	Major	CUG2	Unavailable	-	-	iii 🕄 🗞 🛄
🥜 🚮 🏯 🚆 DC2-Router1			Network.Router	Cisco Systems Viptela   vEdge Cloud	88	SILO	Major	CUG2	Unavailable	-	-	📾 😂 🗞 💼
🤌 🚮 🚊 🚊 DC2-Router2	۳		Network.Router	Cisco Systems Viptela   vEdge Cloud	90	SILO	Major	CUG2	Unavailable			- × × •
🤌 📶 🏯 🏨 vBond-1	۳	-	Network.Service:	Cisco Systems Viptela   vBond Orchestrato	r 84	SILO	Major	CUG2	Unavailable	-		<b></b>
<i>₯</i> ∰ ﷺ \$vBond-2			Network.Service:	Cisco Systems Viptela   vBond Orchestrato	r 85	SILO	Major	CUG2	Unavailable	[Select Action]	_	
🤌 🚮 🚊 🌉 vEdge Container	۳		Network.Service:	Cisco Systems Viptela   vEdge Container	83	SILO	Healthy	CUG2	Active	Administration:		
🤌 📶 🚊 🚊 vSmart-1	۳		Network.Service:	Cisco Systems Viptela   vSmart Controller	81	SILO	Major	CUG2	Unavailable	_DELETE Selecte		35
			Network Service:	Cisco Systems Viptela   vSmart Controller	82	SILO	Major	CUG2	Unavailable	_MODIFY By Ten		
										CLEAR Device L		
										_SCHEDULE Main		
										FIND Collection		
										Change Collection S	State:	
										_Active		
										_Disabled		
										Change User Mainte	enance	Mode:
										_Enabled with Co	lection	
										_Enabled withou	t Collect	ion
										_Disabled		
										Change Collector G	roup:	
										L_CUG2		
										_CUG_Automatic	n	
										Move To Organizati	ion:	
										_backend		

3. 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:

Device Templa	late Editor   Applying Template to De	vices   Config Te	mplate Se	ttings (Click field labels t	o enable/disa	ble them)	Reset
Template Ne	ew / One-off Template	Save When Appli	ed & Confirr	ned Template	Name		
Con	lew / One-off Template	cies Port	Policies	Svc Policies	Proc Poli	cies Dyn Apps	Logs
Access &	Sisco: CE Series					Device Preferences	
Devi	Cisco: UCS Standalone Template Cisco: Viptela vManage Template	~				Auto-Clear Events	Scan All IPs
	lost Agent: Dynamic Applications	s s	NMP Write	None	$\sim$		
Avai	upport: Apply Applications	$\sim$	Avail Port	ICMP	$\sim$	Accept All Logs	Dynamic Discovery
La Si	upport: Discovery Template	La	tency Port	ICMP	$\sim$		
Avail U	JCS Template	$\sim$				Daily Port Scans	Preserve Hostname
V	/Mware vSphere Template	⊂ Co	llector Grp	CUG2	$\sim$	Auto-Update	Disable Asset Update
	Coll. Type Standard	$\sim$				Auto-opdate	
	Critical Ping Disabled	$\sim$				Bypass Interface	
1	Event Mask Disabled	$\sim$				Inventory	
	ntion & Basic Thresholds			] Dailv Rollup Bandwidth			
59	ystem Latency	100	ms	Daily Rollup Bandwidth Data	<u> </u>		730 days
				Hourly Rollup Bandwidth Data	÷	1 1	120 days
Availabilit	Ity Packet Size	56	bytes	Raw Performance	ŵ		7 days
Availabi	ility Ping Count	1	pings	Daily Rollup Performance Data			730 days
1	ventory Settings						
Inte	erface Inventory	6000		Maximum Allowe Apply	d Lâs		10000 interfaces

- 4. 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.
- 5. 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 all the devices, virtual devices, and component devices in the Cisco Viptela system in the following places in the user interface:

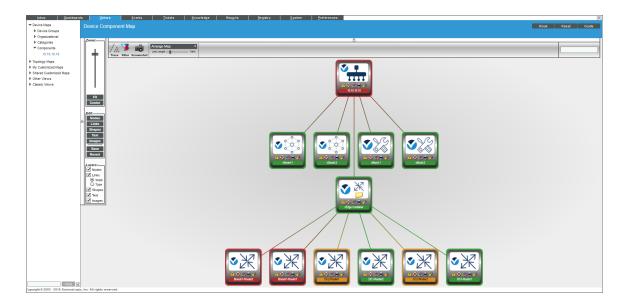
 All devices, virtual devices, and component devices appear in the Device Manager page (Registry > Devices > Device Manager).

Device Name •	IP Address	Device Category	Device Class   Sub-class	DD	Organization	Current State	Collection Group	Collection State	SNMP Credential	SNMP Version	
			(		)[]		<u>~</u>		)		
Amal 10.10.10.10 / 10.10	·	Network.Services	Cisco Systems Viptela   Manage	80	SILO	Critical	L CUG2	Active	-		n 🛪 🖉 📾
🤌 📶 🏯 🏯 Branch 1-Router 1		Network.Router	Cisco Systems Viptela   vEdge Cloud	87	SILO	Critical	L CUG2	Active	-		🖶 👯 🗞 📑
🦻 🚮 🏯 🚆 Branch 1-Router2	· -	Network.Router	Cisco Systems Viptela   vEdge Cloud	86	SILO	Critical	L CUG2	Active	-		n 🛪 🖉 🖷
🤌 📶 🚉 🚊 DC1-Router1		Network.Router	Cisco Systems Viptela   vEdge Cloud	91	SILO	Healthy	L CUG2	Active	-		📾 👯 🗞 📑
🤌 📶 🚊 🚊 DC1-Router2		Network.Router	Cisco Systems Viptela   vEdge Cloud	89	SILO	Healthy	L CUG2	Active	-		
🤌 📶 🚉 💐 DC2-Router1		Network.Router	Cisco Systems Viptela   vEdge Cloud	88	SILO	Healthy	L CUG2	Active	-		🖶 🕄 🗞 📑
🥍 🚮 🚊 DC2-Router2		Network.Router	Cisco Systems Viptela   vEdge Cloud	90	SILO	Healthy	L CUG2	Active	-		
🤌 📶 💐 💐 vBond-1	۰. ۳	Network.Services	Cisco Systems Viptela   vBond Orchestrator	84	SILO	Healthy	L CUG2	Active	-	-	📾 😂 🗞 🔳
🤌 🚮 🛃 💐 vBond-2		Network.Services	Cisco Systems Viptela   vBond Orchestrator	85	SILO	Healthy	L CUG2	Active	-		10 X N 11
🖗 🚮 🛃 🌉 vEdge Container	۰	Network.Services	Cisco Systems Viptela   vEdge Container	83	SILO	Healthy (	L CUG2	Active	-		
∲ 📶 🛃 🔒 vSmart-1	۰	Network.Services	Cisco Systems Viptela   vSmart Controller	81	SILO	Healthy	L CUG2	Active			10 II ( 10 II
n 🖉 🕂 🚆 🖉 vSmart-2		Network.Services	Cisco Systems Viptela   vSmart Controller	82	SILO	Healthy	L CUG2	Active	-		
₽ 📶 â â vSmart-2	•	Network.Services	Cisco Systems Viptela   \Smart Controller	82	SILO	Healthy	L CUG2	Active	-	-	

 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 Cisco Viptela, find the Cisco Viptela root device and click its plus icon (+):

		Device Name -	P	Address	Device Category	Device Class   Sub-class	DID	Organization	Current State	Collection Group	Collection State	
								(	>+Health; 🗸			
- 🥕	ali 10	.10.10.10			Services	Cisco Systems Viptela   vManage	80	SILO	🛕 Critical	CUG2	Active	🖶 🔀 🗞 🖉
	_	Device Name •		IP Address	Device Category	Device Class   Sub-class	00	Organization	Current State	Collection Group	Collection State	_
1.	<u>.</u>	Nond-1		-	Services	Cisco Systems Viptela   vBond Orchestrator	84	SILO	>=Health	CUG2	Active	100 <b>1</b> 2 10 <u>8</u>
2.	1	wBond-2	۳	-	Services	Cisco Systems Viptela   vBond Orchestrator	85	SILO	A Healthy	CUG2	Active	<b>₩</b> ₩ % #
3.	- 🥜	, VEdge Container			Services	Cisco Systems Viptela   vEdge Container	83	SILO	A Healthy	CUG2	Active	
		Device Name •		IP Address	Device Category	Device Class I Sub-class	00	Organization	Current State	Collection Group	Collection State	_
	1.	🖋 🔐 Branch 1-Router 1		-	Router	Cisco Systems Viptela   vEdge Cloud	87	SILO	A Critical	CUG2	Active	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	2.	🔑 🚮 Branch 1-Router2		-	Router	Cisco Systems Viptela   vEdge Cloud	86	SILO	🛕 Critical	CUG2	Active	10 X & 20
	3.	DC1-Router1 🖉		-	Router	Cisco Systems Viptela   vEdge Cloud	91	SILO	🛦 Healthy	CUG2	Active	10 🔁 🗟 😹
	4.	DC1-Router2 🗸 🖓		-	Router	Cisco Systems Viptela   vEdge Cloud	89	SILO	🛦 Healthy	CUG2	Active	🖶 👯 🗞 😹
	5.	🚰 📶 DC2-Router1			Router	Cisco Systems Viptela   vEdge Cloud	88	SILO	🛦 Healthy	CUG2	Active	1) N (1) N (2) N (
	6.	nt DC2-Router2	۳	-	Router	Cisco Systems Viptela   vEdge Cloud	90	SILO	🛦 Healthy	CUG2	Active	🖶 👯 🗞 😹
4.	¢,	µ∬vSmart-1		-	Services	Cisco Systems Viptela   vSmart Controller	81	SILO	🛦 Healthy	CUG2	Active	🖶 😫 🗞 🛔
5.	÷.	VSmart-2			Services	Cisco Systems Viptela   vSmart Controller	82	SILO	A Healthy	CUG2	Active	📾 😂 🗞 🗿

• 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. 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 Cisco Viptela 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

# **Cisco Viptela Dashboards**

### Overview

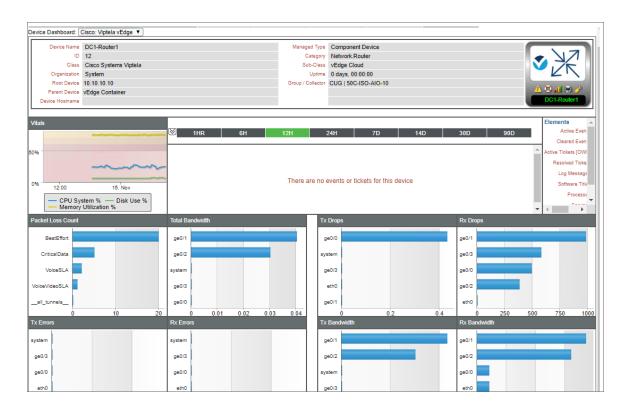
The Cisco: Viptela PowerPack contains dashboards that present data related to different aspects of a Cisco Viptela system.

The following sections describe each of these dashboards:

Cisco Viptela vEdge Dashboard	15
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Cisco Viptela vSmart and vBond Dashboard	17

# Cisco Viptela vEdge Dashboard

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

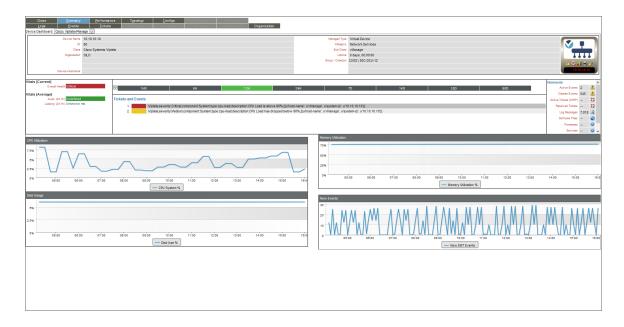


The Cisco: Viptela vEdge dashboard displays the following information:

- 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.

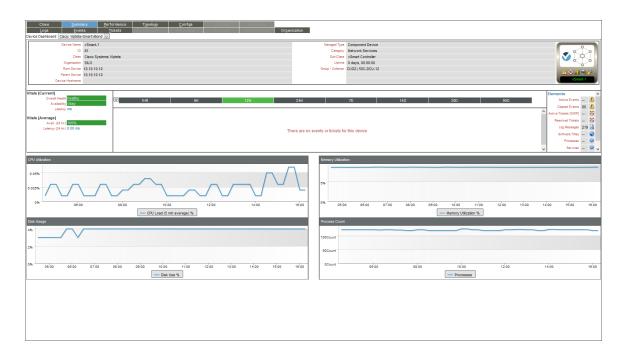


The Cisco: Viptela vManage dashboard displays the following information:

- 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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In the U.S. and other jurisdictions, trademark owners have a duty to police the use of their marks. Therefore, if you become aware of any improper use of ScienceLogic Trademarks, including infringement or counterfeiting by third parties, report them to Science Logic's legal department immediately. Report as much detail as possible about the misuse, including the name of the party, contact information, and copies or photographs of the potential misuse to: legal@sciencelogic.com



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