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## Director GUI Overview



For supported software information, click [here](#).

The Versa Director provisioning and management platform provides a web-based graphical user interface (GUI) that you use to orchestrate your network. The Director GUI provides a single pane of glass from which you configure and monitor all devices in your secure SD network, perform administrative functions, and access your Versa Analytics nodes. For device configuration, the Director GUI offers a wizard called Workflows that you use to configure the common and basic features across devices, and it offers a series of well-organized menus for configuring additional features. For device monitoring, the Director GUI displays real-time network and device status in graphical and tabular formats and provides the ability to drill down on screen elements to see more detailed information. The Analytics nodes provide both real-time and historical network and device status data, and they allow you to display system logging (log) information.

This article provides a tour of the Director GUI, describing all the areas on the GUI screens and the information displayed in them. You can use the information in this article to familiarize yourself with the Director GUI and to understand the nomenclature that the Versa Networks product documentation uses to describe the components of the Director GUI.

Note that this articles describe the GUI for Director nodes that are running Versa Operating System™ (VOS™) Releases 22.1 and later. For a description of the GUI for Director nodes that are running Releases 21.2 and earlier, see [Director GUI Overview \(for Releases 21.2 and Earlier\)](#).

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## Browser Support

To use a Director node, it is recommended that you use one of the following browsers:

- Chrome, Versa 71 or later
- Firefox, Version 60 or later

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## Login Screen

To access the Director GUI, enter the URL of the Director node in the browser's URI field. The login screen displays. Then type your username and password, and click Login.



## DIRECTOR

Username

Password



Session expired. Please re-login

[Forgot Password](#)

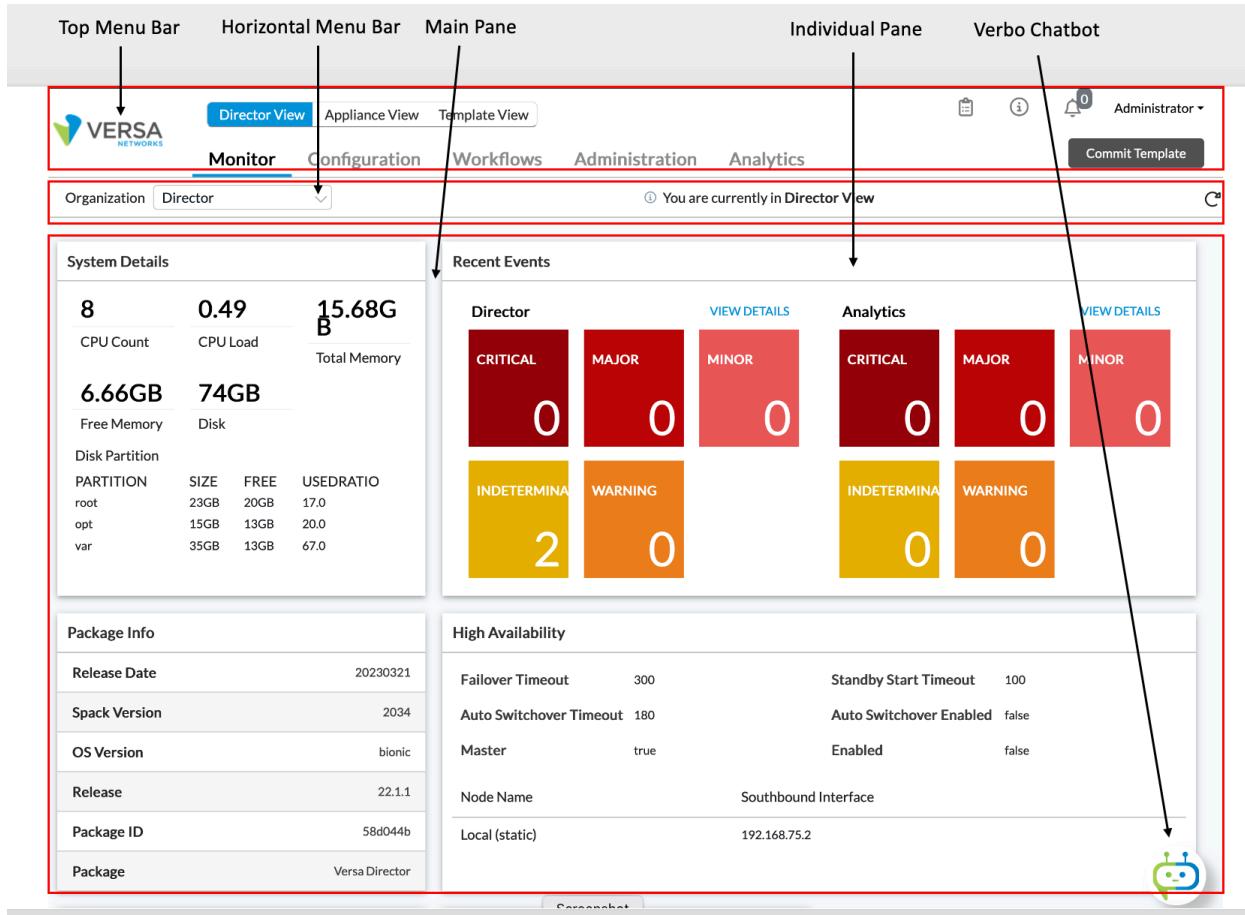
[Login](#)

When you log in to a Director node for the first time, you are in Director view. For subsequent logins, the screen that you were last on displays when you log in.

## Terminology

The articles on the Versa Networks documentation portal use the following terminology. The articles attempt to use these terms consistently so that you can clearly understand the explanations and procedures.

- Screen—The full browser window for Versa Director (and also for Versa Analytics). A Director screen always include a top menu bar, and can include other screen components such as a horizontal menu bar, a left menu bar, and a main pane. The following is an example of a Director screen.

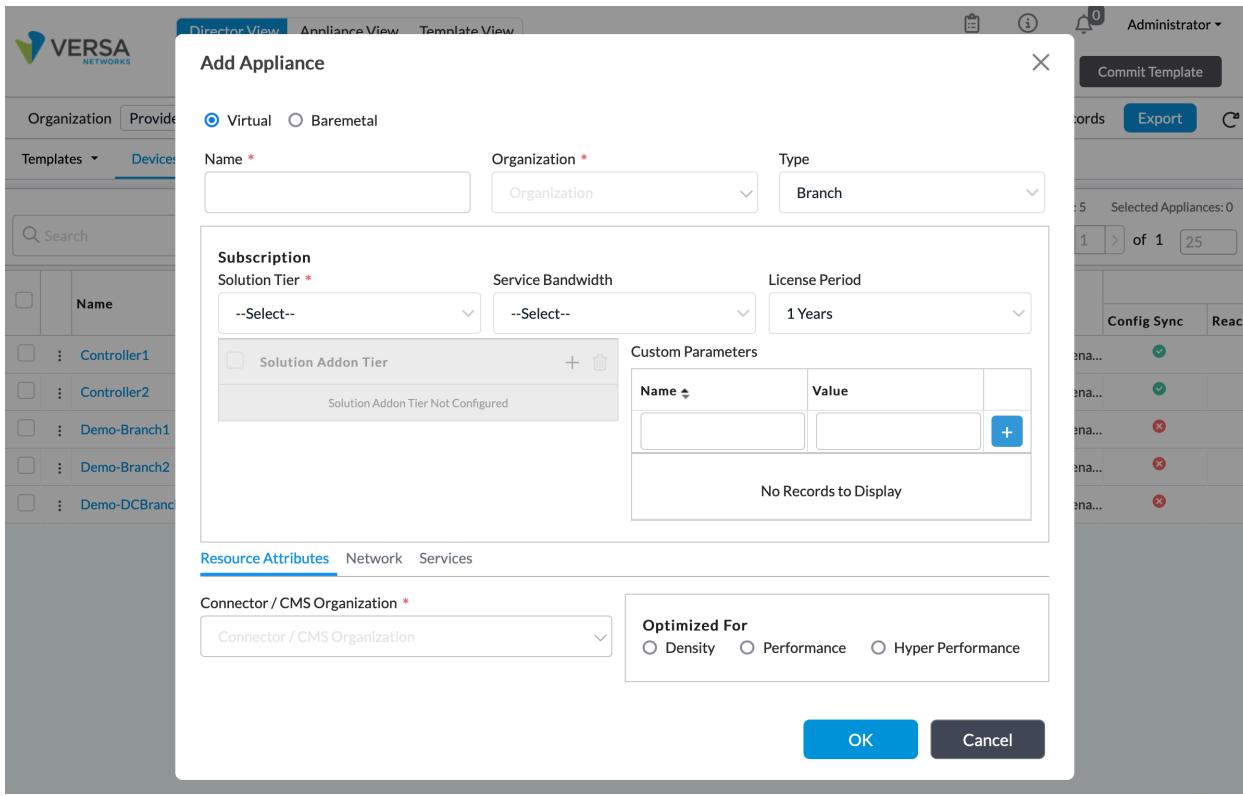


- **Screenshot**—An illustration of all or some of a Director screen or of a popup window that displays when you select an item or an action on a screen.
- **Tab**—An area on the screen that allows you to open a different page on Versa Director. In the screenshot above, the tabs in the top menu bar are Monitor, Configuration, Workflows, Administration, and analytics. The tabs in the horizontal menu bar are Summary and Devices. To use a tab, you *select* it.
- **Top menu bar**—The area across the top of the screen that includes the company logo, buttons that allow you to choose the view tabs and, on the right, icons and a user drop-down menu.
- **Main pane**—The area beneath the top menu bar that display information from the Director node. The main pane can include one or more horizontal menu bars, one or more smaller panes, tables and graphical objects.
- **Pane**—A smaller pane on the main pane.
- **Horizontal menu bar**—The area at the top of the main pane that displays tabs that you can select to open different pages. Some screens have more than one horizontal menu bar, each with its own tabs.
- **Left menu bar**—The area to the left of the main pane that displays items that you can select to open different pages. The screenshot above does not include a left menu bar.
- **Popup window**—A window that pops up, or displays, and is superimposed over the current screen. Popup windows typically allow you to add or modify (edit) a networking or service component. For screenshots of popup windows, the articles on the documentation portal generally show just the popup window, not the popup window on top of its underlying screen, so that it is easier to see the popup window. The following is an example of a popup window as you see it on the Director screen, superimposed over the current screen. A documentation portal article would show a screenshot only of the Add Appliance popup window.

[https://docs.versa-networks.com/Management\\_and\\_Orchestration/Versa\\_Director/Configuration/01\\_Director\\_GUI\\_Overview](https://docs.versa-networks.com/Management_and_Orchestration/Versa_Director/Configuration/01_Director_GUI_Overview)

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- Select and click—Verbs that indicate how to choose items on screens, pane, panels, and popup windows. For any item that is a tab and for any selectable item in the left menu bar, you *select* the tab or item to choose it. For any other items, you *click* to choose one of them. These items include names, devices, or organizations in tables; checkboxes; arrows; icons; items in drop-down menus; and graphical elements on monitoring screens. To select a tab or click an item, you click on it once.
- Drill down—Display more detailed information about elements on device monitoring screens. To drill down, you click on a graphical component, such as a section in a bar graph, or you click on an item in a table.

## Director Single Pane of Glass

The Director single-pane-of-glass design provides a powerful tool for managing your entire network, allowing you to configure and monitor individual devices and interfaces, groups of devices for individual customers (called tenants) and provider organizations, and the entirety of your network enterprise, including SD-WAN and SASE portions of the network from a single interface. These broad views of the network and its components are provided by a streamlined graphical user interface (GUI) that begins with five high-level home screens, one of which is a link to the Analytics home screen. You access each home page by selecting a tab at the top of the screen. Each tab arranges device and network-related information in a logical and straightforward manner. Because of the large number of network and device components and the amount of information that the Director node is managing, each of the home screens has many screens under it to allow you to access all components and information.

To perform operations and view information, you navigate from the Director home screens in a number of ways—by

[https://docs.versa-networks.com/Management\\_and\\_Orchestration/Versa\\_Director/Configuration/01\\_Director\\_GUI\\_Overview](https://docs.versa-networks.com/Management_and_Orchestration/Versa_Director/Configuration/01_Director_GUI_Overview)

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selecting tabs, clicking buttons and fields, and clicking items in tables or portions of graphical elements. Selecting or clicking displays additional or more detailed information (sometimes referred to as drilling down), opens popup windows, performs a test or other operation, or changes the presentation of the information that is displayed.

In an effort to provide a usable and somewhat concise overview of the Director GUI, this article describes many, but not all, of the Director screens, and many, but not all, of the selectable and clickable items on each screen. The goal here is to allow you to familiarize yourself with the design of the GUI and the available options, especially if you do not have access to a Director node. When you do have access to a Director node, you are strongly encouraged to explore all the screens and the options on them. For monitor and other screens that report information, viewing the information and changing views (for example, changing from a table to a graph, or from one style of graph to another style) has no impact on the operation of the network or its devices. With a few exceptions, the options on configuration-related screens are viewable, and they have delete or cancel options, allowing you to explore screens and popup window, and configure test items, and then undo your trial work.

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## Areas on the Director Screen

All screens that you can access in the Director GUI have common areas, as illustrated in the screenshot below:

- Top menu bar contains View buttons and tabs. The View buttons allow you to switch quickly to Director View, Appliance View, or Template View. Configuration The tabs allow you to perform different tasks from the Director GUI, including monitoring, configuring, administering, using workflows, and accessing Versa Analytics. The icons and drop-down menu in the upper right of the top menu bar provide access for performing administrative tasks related to the Director node itself.
- Left menu bar allows you to navigate to devices and task menus.
- Horizontal menu bar provides additional navigational links or tabs. Many screens have a horizontal menu bar that is below the top menu bar. Some screens have multiple horizontal menu bar. In both cases, they are called horizontal menu bars. You can use the text description of the menu bar to determine which one is being discussed.
- Main pane displays the information that results from your navigational choices.
- Versa Verbo platform is an intelligent chatbot assistant that you use to ask questions and receive answers about the Director GUI. Versa Verbo derives answers to your questions using natural language processing (NLP), artificial intelligence (AI), and machine-learning (ML).



Director View Appliance View Template View

Administrator 0



0

Administrator ▾

Commit Template

Monitor

Analytics

Configuration

Administration

Appliance Controller1

Networking Services Objects &amp; Connectors Others

Interfaces

WLAN

T1/E1 Auth

Networks

Virtual Wires

Global Routers

Virtual Routers

Virtual Switches

&gt; IP-SLA

TWAMP

SaaS App Monitor

&gt; VRRP

Zones

&gt; DNS

LLDP

Zone Protection Profiles

&gt; Class of Service

Search		+ Add										
Name	View	Interfaces	Networks	Static Routes	OSPF	OSPFv3	BGP	PIM	IGM	RIP	Router Advertise	Redistribution Policies
Analytics-VR		tvi-0/603.0		0.0.0.0/0								
Provider-Contr...		tvi-0/2.0 tvi-0/3.0 tvi-0/602.0	Control	0.0.0.0/ 192.168.0.0/16 192.169.0.128/...	1						Default-Policy TO_SubOrgs	
Tenant1-Contro...		tvi-0/4.0 tvi-0/5.0		0.0.0.0/0	2						To-Banches-Po... To-ProviderOrg	
Tenant2-Contro...		tvi-0/8.0 tvi-0/9.0		0.0.0.0/0	4						To-Banches-Po... To-ProviderOrg	
Tenant3-Contro...		tvi-0/6.0 tvi-0/7.0		0.0.0.0/0	3						To-Banches-Po... To-ProviderOrg	
Tenant4-Contro...		tvi-0/10.0 tvi-0/11.0		0.0.0.0/0	5						To-Banches-Po... To-ProviderOrg	
Tenant5-Contro...		tvi-0/14.0 tvi-0/15.0		0.0.0.0/0	7						To-Banches-Po... To-ProviderOrg	
WAN1-Transpo...			WAN1	0.0.0.0/0								
WAN2-Transpo...			WAN2	0.0.0.0/0								
WAN3-Transpo...			WAN3	0.0.0.0/0								

Rows per page 25 Showing 1 - 10 of 10



To select any tabs in the top menu bar or the horizontal menu bar, or to select an item in the left menu bar, you click the tab or item. For items in the left menu bar that are containers for other items, click the ► to display the subordinate items.

## Buttons in the Top Menu Bar

The Director GUI has four distinct presentation formats, which are referred to as *views*. In each view, you can monitor different items and perform different tasks. The four View buttons in the top menu bar allow you to switch quickly between view. For more information, see [Select a Director View](#), below.

## Tabs in the Top Menu Bar

The Director GUI generally always has the same five tabs in the top menu bar:

- Monitor—From the Monitor home page, you monitor the network and its devices in real time.
- Configuration—From the Configuration home page, you configure VOS devices and the Director node itself.
- Workflows—The Workflows home page provide wizards for configuring VOS device properties that are shared across multiple devices.
- Administration—From the Administration home page, you configure and modify systemwide and networkwide properties.

- Analytics—Redirects you to an Analytics node, where you can view real-time and historical device information and device system logging data (also called logs). From this tab, you can also monitor and configure Analytics clusters.

To select a tab, you single-click it. Selecting the Monitor, Configuration, Workflows, or Administration tab takes you to the home screen specific for that function. Selecting the Analytics tab takes you to the home screen on one of the Analytics node in your network. The tabs on these home screens may differ slightly from those listed above. The home screens and their subordinate screens are discussed below.

## Other Items in the Top Menu Bar

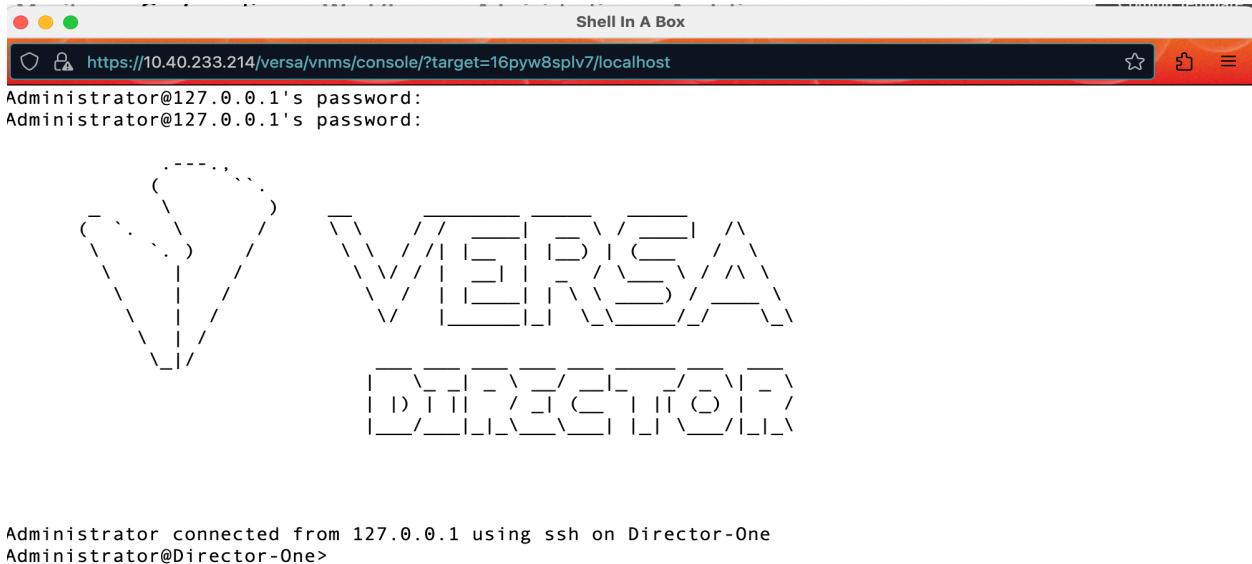
The icons and drop-down menu in the upper right of the top menu bar provide access for performing general administrative tasks on the Director node. These icons generally remain constant regardless of the tab that you select in the top menu bar.

The following items are in the top menu bar:

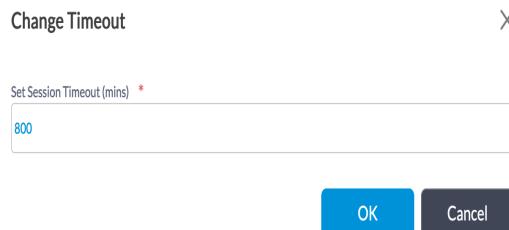
- Notifications Bell  icon—Click to display all notifications that have been sent to the Director node. You can also clear all the notifications.
- Tasks  icon—Click to display all tasks that are currently running on the Director node and on the VOS nodes for which the Director node is responsible.
- Information (circle-i) icon—Click to display information about the VOS software version running on the Director node.
- Username—Name of the user who is logged in to the Director node. In the screenshot above, the username is Administrator.

Click the username to display a drop-down menu that contains the following items:

- Director CLI—Click to start the CLI on the Director node. In the Shell In A Box popup window, enter the password to access the CLI. To log out of the CLI, enter the **exit** CLI command or close the Shell In A Box popup window.



- Change Session Timeout—Click to change how long a Director GUI session is idle before the user is logged out. By default, the Director GUI timeout is set to 15 minutes.



- Change Password—Click to change the user's password. Type the existing password, and then type and confirm the new password.

**Change Password**

Current Password \*

New Password \*

Bad Password Weak Password Moderate Password Strong Password

Confirm New Password \*

**OK** **Cancel**

- Change Logo—Click to change the logo displayed on the left side of the top menu bar.

**Change Logo**

File Name \* **Browse**

Enable Login Logo

File Name **Browse**

A png file of dimensions 100 \* 28 (W\*H) is recommended

A page refresh is required for the changes to reflect.

Logo Text

Reset to default logo

**OK** **Cancel**

- Change Footer—Click to change the footer displayed along the bottom of the Director GUI.

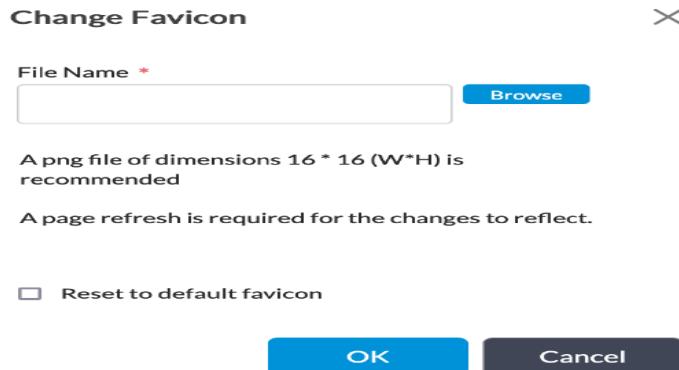
**Change Footer**

Footer Text \*

Reset to default footer

**OK** **Cancel**

- Change Favicon—Click to change the favicon (logo bug) to display next to the log in the top menu bar.



- Toggle Chatbot—Click to disable the Chatbot if it is visible or to enable it if it is not visible.
- Show RBAC Privileges—Click to display information about the services enabled on the VOS devices that are managed by the Director node.
- REST API Documentation—Click to display the REST API documentation for the version of the VOS software that is running on the Director node.
- Language—Click to select the language in which to display the Director. You can choose English or Chinese.
- Logout—Click to log out of the Director node.

## Sections in the Left Menu Bar

The left menu bar in the Director GUI lists the options available for the tab that you select in the top menu bar. To select an item in the left menu bar, single-click it. For items in the left menu bar that are organized hierarchically, click the > or ► to display the subordinate items.

The top of the left menu bar may have a search box so that you can search the items in the left menu bar.

## Items in the Horizontal Menu Bars

The items that display in the horizontal menu bars vary, depending on the tab that you select. The sections below that describe each of the tabs describe some of the horizontal menu bars.

## Director GUI Views

The Director GUI has four distinct presentation formats, which are referred to as *views*. In each view, you can monitor different items and perform different tasks.

- Director view, which displays when you log in for the first time, is the centralized connection point to a series of dashboards from which you can display all activities and control all operations on the devices that are managed by the Director node. To go directly to Director view, click the Director View button in the top menu bar.
- Appliance view displays when you select a VOS device (which is sometimes referred to as an appliance) so that you can view information about or perform a task related to that device. To go directly to Appliance view, click the Appliance View button in the top menu bar.

- Template view displays when you select the Workflows tab in the top menu bar. Template view provides configuration templates that you can use to deploy configurations across an organization or across devices in an organization. For more information, see [Overview of Configuration Templates](#). To go directly to Template view, click the Template View button in the top menu bar.
- Analytics view displays when you select the Analytics tab in the top menu bar, a selection that connects you to a node in your Analytics cluster. The Director and Analytics nodes almost always run on different devices.

## Director View

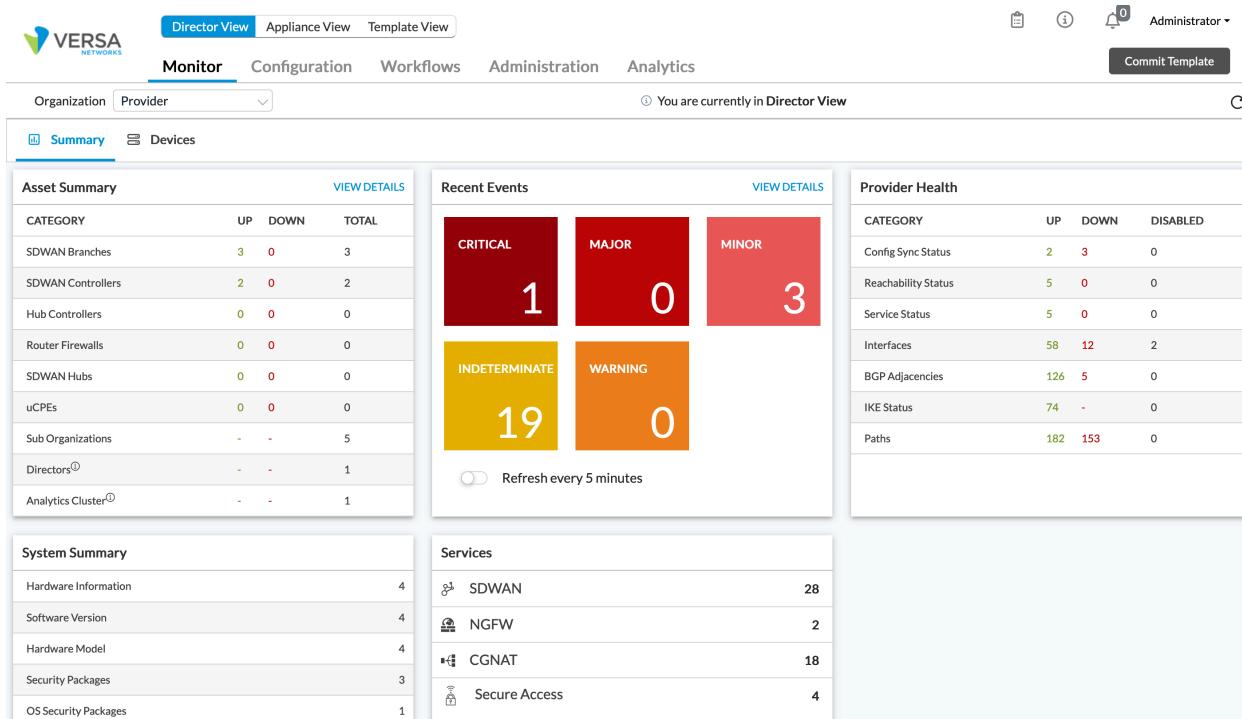
Director view is the centralized connection point to a series of dashboards from which you can display all activities and control all operations on the devices that are managed by the Director node.

When you log in to a Director node for the first time, you are in Director view. For subsequent logins, the screen that you were last on displays when you log in.

To go directly to Director view, click the Director View button in the top menu bar.

In Director view, the top menu bar shows the Monitor, Configuration, Workflows, Administration, and Analytics tabs.

When you select the Monitor tab in Director view, a monitor home screen similar to the following displays:



When you select the Configuration tab in Director view, a configuration home screen similar to the following displays:

VERSA NETWORKS

Director View Appliance View Template View

Administrator

Monitor Configuration Workflows Administration Analytics

Organization Provider

You are currently in Director View

Configuration > Provider > Device Templates

Commit Template

Templates Devices Objects

Name	Organizations	Template Type	Metadata	Snapshots	View	Lock Scope	Locked By		
<input type="checkbox"/> Branch1	Tenant1 Tenant2 Tenant3 <a href="#">View More...</a>	SDWAN Post Staging							
<input type="checkbox"/> Branch2	Tenant1 Tenant2 Tenant3 <a href="#">View More...</a>	SDWAN Post Staging							
<input type="checkbox"/> Branch3	Tenant1 Provider	SDWAN Post Staging							
<input type="checkbox"/> Branch4	Tenant1 Provider	SDWAN Post Staging							
<input type="checkbox"/> Demo-Branch1	Tenant1 Tenant2 Tenant3 <a href="#">View More...</a>	SDWAN Post Staging							
<input type="checkbox"/> Demo-Branch2	Tenant1 Tenant2 Tenant3 <a href="#">View More...</a>	SDWAN Post Staging							

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When you select the Workflows tab in Director view, a workflows home screen similar to the following displays:

VERSA NETWORKS

Director View Appliance View Template View

Administrator

Monitor Configuration Workflows Administration Analytics

You are currently in Director View

Workflows > Infrastructure > Controllers

Commit Template

Infrastructure Template Devices

### Controllers

Name	Global Controller ID	Status	Last Modified Time	Last Modified By	Actions
<input type="checkbox"/> Controller1	1	Deployed	2023-01-31T01:34:28.090+0000	Administrator	
<input type="checkbox"/> Controller2	2	Deployed	2023-02-01T20:25:54.134+0000	Administrator	

Rows per page  Showing 1 - 2 of 2

When you select the Administration tab in Director view, an administration home screen similar to the following displays:

The screenshot shows the Versa Director View interface. At the top, there are tabs for Director View, Appliance View, and Template View. Below the tabs, there's a navigation bar with links for Monitor, Configuration, Workflows, Administration (which is underlined), and Analytics. A message at the top center says "You are currently in Director View". On the right side, there are buttons for Commit Template, Export All Records, and Export. The main content area is titled "Organizations" and contains a table for "Appliances". The table has columns for Name, Mgmt. Address, Tags, Type, Service Start Time, Software Version, Organizations, and Config Sync. The table shows five entries: Controller1, Controller2, Demo-Branch1, Demo-Branch2, and Demo-DCBranch. Each entry includes its management address, tag count, type (Controller or Branch), service start time, software version, organizations it belongs to, and a green checkmark in the Config Sync column.

When you select the Analytics tab in Director view, the Analytics home screen displays

## Appliance View

Appliance view displays when you select the Monitor, Configuration, or Administration tab and then select a VOS device (which is sometimes referred to as an appliance) so that you can view information about or perform tasks related to that device.

In Appliance view, the top menu bar shows the Monitor, Analytics, Configuration, and Administration tabs, and the horizontal menu bar shows a Home button and a drop-down box that shows the device's name and that allows you to select other devices.

To return to Director view, click the Home button or click the Director View button in the top menu bar.

To go directly to Appliance view, click the Appliance View button in the top menu bar. Then, select a VOS device from the Select Appliance popup window.

Select Appliance

Name	Type	Mgmt. Address	Software Version	Config Sync	Reachability	Locked
Controller1	controller	10.40.233.210	22.1.1-GA	✓	✓	🔓
Controller2	controller	10.40.233.211	22.1.1-GA	✓	✓	🔓
Demo-Branch1	branch	192.169.0.8	22.1.1-GA	✗	✓	🔓
Demo-Branch2	branch	192.169.0.10	22.1.1-GA	✗	✓	🔓
Demo-DCBranch	branch	192.169.0.18	22.1.1-GA	✗	✓	🔓

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Cancel

When you select a device, the view changes to Appliance view and a home screen displays for the device that is similar to the screenshot below. The horizontal menu bar shows the name of the device, here, Controller1. This horizontal menu bar also has a Build button, to allow you to perform a build operation. This device home screen has a second horizontal menu bar, which shows the tabs Summary, Services, System, and Tools and which has buttons for operations you can perform here, including Shell, Configuration Status, Upgrade and Subscription. Select a tab to display additional monitoring-related information about the device. The left menu bar lists the organizations and tenants associated with the device you selected. Select an organization or tenant to display monitoring-related information specific to it.

Director View Appliance View Template View

Monitor Analytics Configuration Administration

Appliance Controller1 Organization Tenant You are currently in Appliance View

Build C

Networking Services Objects & Connectors Others

- > Next Gen Firewall
- > Secure Access
- > SSL
- > IPsec
- Web Proxy
- Captive Portal

Select a service from left menu.

When you select the Configuration tab in Director view and then select a device, the view changes to Appliance view and a home screen displays for the device that is similar to the screenshot below. Again, the horizontal menu bar shows the Home button and the name of the device, SDWAN-Branch1. This horizontal menu bar also has a Build button, to allow you to perform a build operation. The left menu bar has tabs for four configuration sections:

- Networking
- Services
- Objects & Connectors
- Others

Depending on the configuration option you select, the device home screen may have a second horizontal bar, with tabs that allow you to fine-tune configuration parameters. In the screenshot below, Networking > Interfaces is selected in the left menu bar, and the second horizontal menu bar has tabs for each of the interface types that you can configure.

Name	Description	Interfaces	IP Address/Prefix
vni-0/0	WAN1 Configured from Director	vni-0/0.0	10.40.233.221/16
vni-0/1	WAN2 Configured from Director	vni-0/1.0	192.168.212.1/24
vni-0/2	WAN3 Configured from Director	vni-0/2.0	192.168.213.1/24
vni-0/3	Control Configured from Director	vni-0/3.601	192.168.71.2/24
vni-0/30		vni-0/30.0	2001:db8:3333:4444:CCCC:Dddd:EEEE:FF...

## Template View

Template view displays when you select the Workflows tab in the top menu bar. Template view provides configuration templates that you can use to deploy configurations across an organization or across devices in an organization. For more information, see [Configuration Using Templates](#), below, and [Overview of Configuration Templates](#).

To go directly to Template view, click the Template View button in the top menu bar.

## Analytics View

Analytics view refers to the home page of the Analytics software running on the Analytics node. For more information about the Analytics home page, see the articles in [Versa Analytics Configuration Concepts](#).

## Select a Director View

You can directly change the Versa Director view to Director view, Template view, or Appliance view by clicking one of the buttons in the top menu bar. A message displays in the horizontal menu bar to indicate which view you are currently in. You use the buttons in the bar to the right of the log to change views.

VERSA NETWORKS

Director View Appliance View Template View

Monitor Configuration Workflows Administration Analytics

Organization Provider

Templates Devices Objects

You are currently in Director View

+ Add Delete Clone Import Export Export as Plain text Lock Unlock

Name	Organizations	Template Type	Metadata	Snapshots	View	Lock Scope	Locked By
<input type="checkbox"/> Branch1	Tenant1 Tenant2 Tenant3 <a href="#">View More...</a>	SDWAN Post Staging					
<input type="checkbox"/> Branch2	Tenant1 Tenant2 Tenant3 <a href="#">View More...</a>	SDWAN Post Staging					
<input type="checkbox"/> Branch3	Tenant1 Provider	SDWAN Post Staging					

To change to Appliance View, click the Appliance View button. The following popup window displays. First, select an organization to display the available appliances in the organization. Then, click the name of an appliance to go to Appliance view.

VERSA NETWORKS

Director View Appliance View Template View

Monitor Configuration Workflows Administration Analytics

Organization Provider

Templates Devices Objects

You are currently in Director View

Commit Template

Select Appliance

Organization

Provider

Search

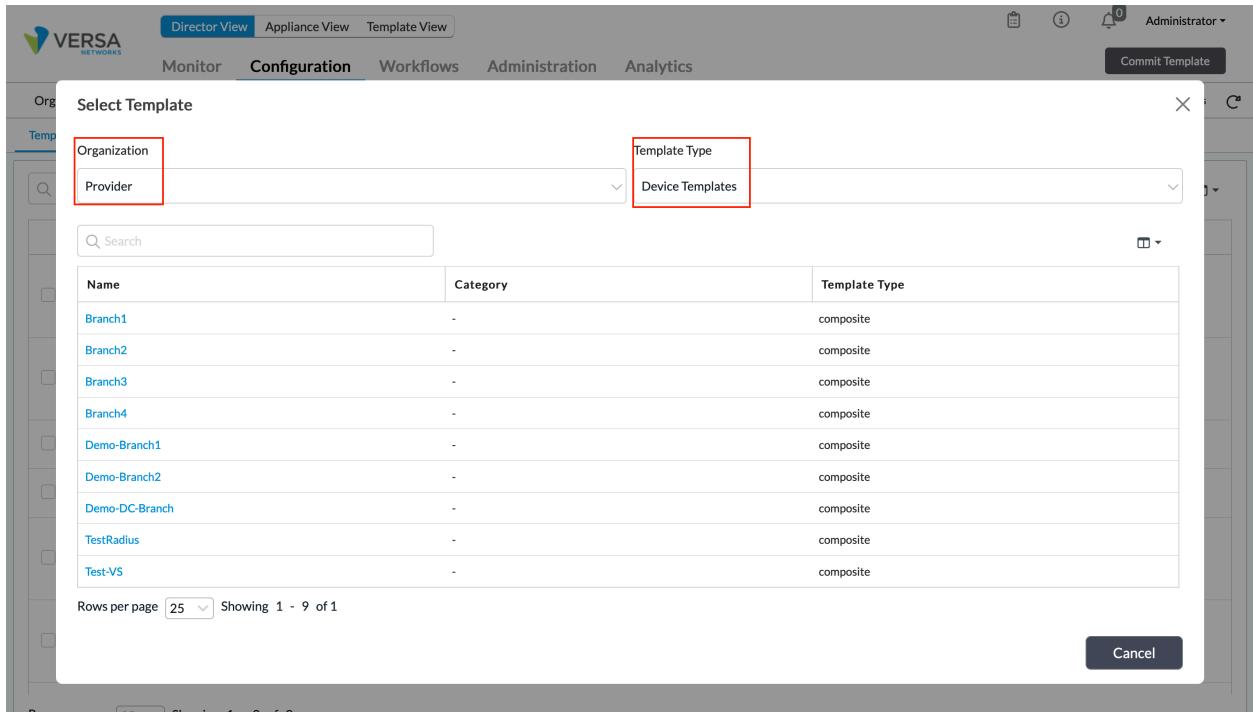
Name	Type	Mgmt. Address	Software Version	Config Sync	Reachability	Locked
Controller1	controller	10.40.233.210	22.1.1-GA			
Controller2	controller	10.40.233.211	22.1.1-GA			
Demo-Branch1	branch	192.169.0.8	22.1.1-GA			
Demo-Branch2	branch	192.169.0.10	22.1.1-GA			
Demo-DCBranch	branch	192.169.0.18	22.1.1-GA			

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Demo-Branch2 Tenant2 Tenant3 SDWAN Post Staging

Cancel

To change to Template view, click the Template View button. The following popup window displays. First, select an organization to display the available templates for the organization. Then, click the name of a template to go to Template view.



## Monitor Tab in Director View

In Director view, the screens on the Monitor tab allow you to monitor the network and its devices in real time. You can monitor the Director node itself and all the provider organizations, VOS branch devices, and Controller nodes for which the Director node is responsible. Note that you can also monitor the network and devices by selecting the Analytics tab, which takes you from the Director node to the Analytics node, as discussed below. On an Analytics node, you can view both real-time and historical device information.

In the left menu bar, you click the device or devices to monitor.

### Monitor a Director Node

Select Director in the Organization field in the horizontal menu bar to display monitoring information about the Director node itself. For example:

The screenshot shows the Versa Director Monitor interface. At the top, there are tabs for Director View, Appliance View, Template View, Monitor (which is selected), Configuration, Workflows, Administration, and Analytics. A red box highlights the 'Organization' dropdown menu. Below the tabs, a message says 'You are currently in Director View'. The main area is divided into several sections:

- System Details:** Shows CPU Count (8), CPU Load (0.51), Total Memory (15.68GB), Free Memory (6.32GB), and Disk Partition details for PARTITION root, opt, and var.
- Recent Events:** A grid showing Director and Analytics alarms. Director has 0 Critical, 0 Major, and 2 Minor alarms. Analytics has 0 Critical, 0 Major, and 0 Minor alarms. Buttons for 'VIEW DETAILS' are available for each category.
- Package Info:** Lists Release Date (20230321), Spack Version (2034), OS Version (bionic), Release (22.1.1), Package ID (58d044b), and Package (Versa Director).
- High Availability:** Lists Failover Timeout (300), Auto Switchover Timeout (180), Master (true), Node Name (Local (static)), Standby Start Timeout (100), Auto Switchover Enabled (false), Enabled (false), and Southbound Interface (192.168.75.2).

Most of the panes on the Monitor screen display static information about the Director node. The exception is the Alarms pane, which reports active alarms on the Director node and on the Analytics node to which it is connected. Alarms are organized by severity, and an active alarm is indicated by a number other than 0 in the circle. To display more information about the active alarms, click the alarm's box or click View Details. A table describing the alarms displays. For example:

The screenshot shows the Director Recent Events table. The table has columns for Device Name, Organization Name, Alarm Type, Handling State, Severity, Status Change Time, and Alarm Text. A blue box highlights the 'Back' button in the horizontal menu bar above the table.

<input type="checkbox"/>	Device Name	Organization Name	Alarm Type	Handling State	Severity	Status Change Time	Alarm Text
<input type="checkbox"/>	VersaDirector	System	director-high-disk-usage		Cleared	Thu, Mar 30 2023, 14:25	Disk usage of /: 17.0%
<input type="checkbox"/>	VersaDirector	System	backup-operation-successful		Indetermin...	Mon, Apr 10 2023, 23:25	'Versa Director backup operation successful'
<input type="checkbox"/>	VersaDirector	System	user-login-failed		Indetermin...	Mon, Apr 03 2023, 13:09	Incorrect username or password for user 'Administrator'
<input type="checkbox"/>	VersaDirector	System	director-high-disk-usage		Cleared	Thu, Mar 30 2023, 14:25	Disk usage of /var: 67.0%
<input type="checkbox"/>	VersaDirector	System	director-high-disk-usage		Cleared	Thu, Mar 30 2023, 14:25	Disk usage of /opt: 20.0%
<input type="checkbox"/>	VersaDirector	System	director-high-cpu-usage		Cleared	Thu, Mar 30 2023, 14:26	CPU usage is more than 70% for 3 intervals
<input type="checkbox"/>	VersaDirector	System	director-high-memory-usage		Cleared	Thu, Mar 30 2023, 14:26	Memory usage is more than 75% for 3 intervals

Rows per page: 25 Showing 1 - 7 of 7

Click the blue Back button in the horizontal menu bar to return to the Director monitoring screen.

## Monitor an Organization

When you select an organization in the left menu bar, you display real-time status information for the provider and its tenants. In the horizontal menu bar, you select the display option, either Summary or Devices.

### Summary View

On the Monitor home screen, select the Summary tab in the horizontal menu bar to display a summary of real-time information about the organization. The information displays in a number of panes and is presented in both table and graphical format. For example:

CATEGORY	UP	DOWN	TOTAL
SDWAN Branches	3	0	3
SDWAN Controllers	2	0	2
Hub Controllers	0	0	0
Router Firewalls	0	0	0
SDWAN Hubs	0	0	0
uCPEs	0	0	0
Sub Organizations	-	-	5
Directors <sup>①</sup>	-	-	1
Analytics Cluster <sup>②</sup>	-	-	1

CRITICAL	MAJOR	MINOR
1	0	3
INDETERMINATE	19	0
Refresh every 5 minutes		

CATEGORY	UP	DOWN	DISABLED
Config Sync Status	2	3	0
Reachability Status	5	0	0
Service Status	5	0	0
Interfaces	58	12	2
BGP Adjacencies	126	5	0
IKE Status	74	-	0
Paths	182	153	0

Hardware Information	4
Software Version	4
Hardware Model	4
Security Packages	3
OS Security Packages	1

Services	Count
SDWAN	28
NGFW	2
CGNAT	18
Secure Access	4

The Monitor screen shows the following panes. Click the Refresh icon in the horizontal menu bar to update the information displayed. For some of the panes, you can drill down to display more information or change the presentation of the display.

- Asset Summary—Displays information about the device in the organization. Click View Details to display information about specific assets for each tenant. For example:

VERSA NETWORKS

Director View Appliance View Template View

Administrator ▾ Commit Template

Monitor Configuration Workflows Administration Analytics

Organization Provider ▾ You are currently in Director View

Asset Summary

Name	CPEs	UCPEs	Controllers	Hub Controllers	Branches	Hubs	SubTenants	Interface	Config Sync	Reachability	BGP Adjacencies	Paths	IKE Status
Tenant1	0	0	2	0	3	0	0	34 2	2 3	5 0	17 1	30 25	12 2
Tenant2	0	0	2	0	3	0	0	17 1	2 3	5 0	17 1	30 25	12 2
Tenant3	0	0	2	0	3	0	0	15 1	2 3	5 0	17 1	30 25	12 2
Tenant4	0	0	2	0	3	0	0	15 3	2 3	5 0	17 1	30 25	12 2
Tenant5	0	0	2	0	3	0	0	15 2	2 3	5 0	17 1	30 25	12 2

Rows per page 25 Showing 1 - 5 of 5

In the horizontal menu bar, you can perform the following actions:

- Return to the summary pane—Click the blue Back button in the horizontal menu bar. Note that you cannot use the browser's Back arrow or menu option to return to the summary pane.
- Select the columns to display in the table—Click the  Column Filter icon, and then click the columns to display or hide.

VERSA NETWORKS

Director View Appliance View Template View

Administrator ▾ Commit Template

Monitor Configuration Workflows Administration Analytics

Organization Provider ▾ You are currently in Director View

Asset Summary

Name	CPEs	UCPEs	Controllers	Hub Controllers	Branches	Hubs	SubTenants	Interface	Config Sync	Reachability	BGP Adjacencies	Paths	IKE Status
Tenant1	0	0	2	0	3	0	0	34 2	2 3	5 0	17		
Tenant2	0	0	2	0	3	0	0	17 1	2 3	5 0	17		
Tenant3	0	0	2	0	3	0	0	15 1	2 3	5 0	17 1	30 25	12 2
Tenant4	0	0	2	0	3	0	0	15 3	2 3	5 0	17 1	30 25	12 2
Tenant5	0	0	2	0	3	0	0	15 2	2 3	5 0	17 1	30 25	12 2

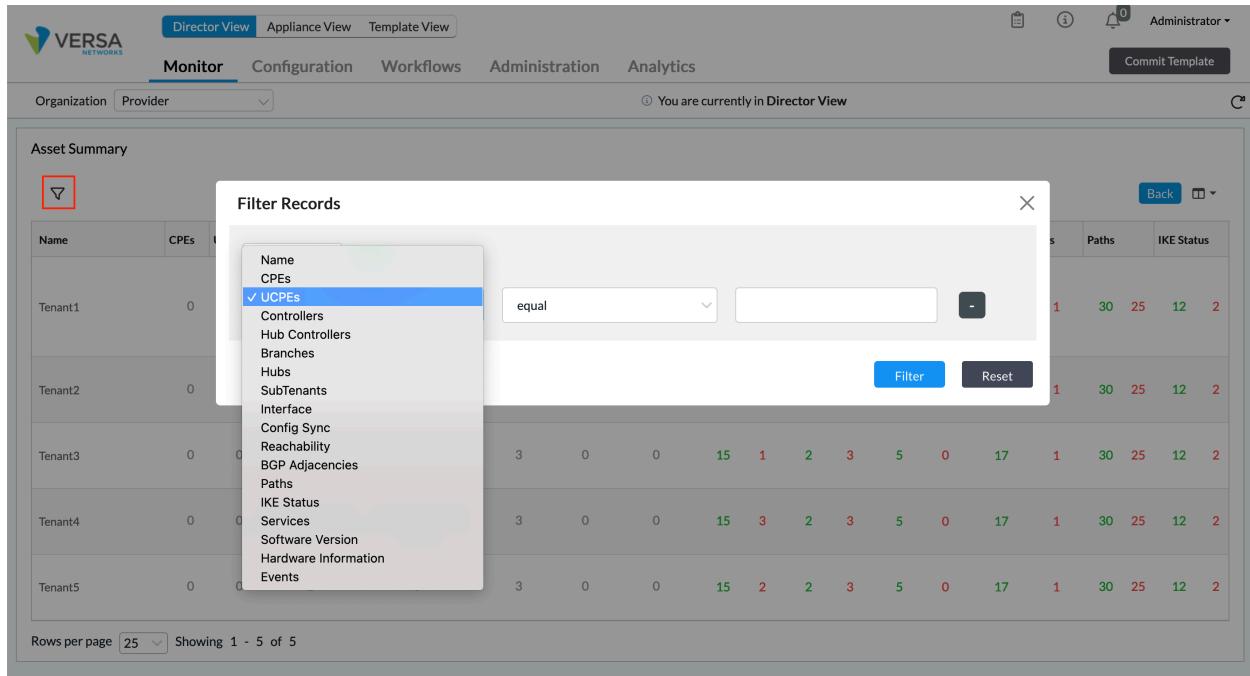
Rows per page 25 Showing 1 - 5 of 5

Back Column Filter

CPEs  
 UCPEs  
 Controllers  
 Hub Controllers  
 Branches  
 Hubs  
 SubTenants  
 Interface  
 Config Sync  
 Reachability

Cancel Reset

- Select specific records to display—Click the  Filter Records icon, select the items and value to display, click the Add icon, and then click Filter.



The screenshot shows the Versa Director GUI in Director View. The top navigation bar includes Director View, Appliance View, Template View, Monitor (selected), Configuration, Workflows, Administration, and Analytics. A notification bar indicates 0 notifications and the user is an Administrator. The main content area is titled "Asset Summary". On the left, there's a table with columns: Name, CPEs, and others partially visible. A "Filter Records" dialog is open over the table. The dialog has a dropdown menu showing "Name", "CPEs", and "UCPEs" (which is selected and highlighted in blue). Below this is a list of filter options: Controllers, Hub Controllers, Branches, Hubs, SubTenants, Interface, Config Sync, Reachability, BGP Adjacencies, Paths, IKE Status, Services, Software Version, Hardware Information, and Events. To the right of the dropdown is a search field with the operator "equal" and a text input field. At the bottom of the dialog are "Filter" and "Reset" buttons. The background table shows data for five tenants (Tenant1-Tenant5) across various metrics like Paths and IKE Status. The bottom of the screen shows pagination controls: "Rows per page" set to 25, and "Showing 1 - 5 of 5".

- Change the number of records displayed per screen.
- Recent Events—Displays a visual summary of recent alarms, arranged by alarm severity. Click Details to display a table with more information about the recent alarms. In the horizontal menu bar, you can perform the same actions as for Asset Summary Details. In addition, you can refresh the display because the alarm information changes, while the asset summary details are static.

The screenshot shows the Versa Director View interface with the 'Monitor' tab selected. The main pane displays a table of 'Recent Events'. The table has columns for Device Name, Organization Name, Alarm Type, Handling State, Severity, Status Change Time, and Alarm Text. Events listed include various system and provider-related alarms such as 'appliance-sync-state-changed', 'sso-cert-expiry', and 'delete-appliance'. The 'Alarm Text' column contains detailed descriptions of each event. At the top right of the table, there are several buttons: 'Back', 'Handle/Assign', 'Clear Selected Alarm', 'Alarms Filter', 'Export', and a red-highlighted 'Refresh' button.

- Provider Health—Displays information about the health of the provider's network infrastructure components. No detailed information is available.
- System Summary—Displays a summary of the provider's hardware and software components. No detailed information is available.
- Services—Displays the number of instances of SD-WAN services running on the provider's devices. No detailed information is available.

## Devices View

On the Monitor home screen, select the Devices tab to display a table in the main pane that lists all devices. For example:

The screenshot shows the Versa Director View interface with the 'Monitor' tab selected. The main pane displays a table of 'Total Appliances'. The table has columns for Name, Mgmt. Address, Tags, Type, Service Start Time, Software Verisc, Organizations, and Status. The 'Status' column includes sub-columns for Config Sync, Reachability, Service, and Locked. The table shows five entries: Controller1, Controller2, Demo-Branch1, Demo-Branch2, and Demo-DCBranch. The 'Status' column for all entries shows green checkmarks in the first three sub-columns and a lock icon in the last one. A red box highlights the 'Devices' tab in the navigation bar and the 'Status' column header in the table.

[https://docs.versa-networks.com/Management\\_and\\_Orchestration/Versa\\_Director/Configuration/01\\_Director\\_GUI\\_Overview](https://docs.versa-networks.com/Management_and_Orchestration/Versa_Director/Configuration/01_Director_GUI_Overview)

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In the horizontal menu bar, you can perform the following actions:

- Add a device—Click the Add icon to add a VOS device.
- Delete a device—Click the box to the left of a device name to select it, and then click the Trashcan icon.
- Open a shell on a device—Click the box to the left of a device name to select it, and then click the Display/Prompt icon.
- Select the columns to display in the table—Click the Column Filter icon, and then click the columns to display or hide.
- Select specific records to display—Click the Filter Records icon, and then select the items and value to display.
- Change the number of records displayed per screen.

The right side of the horizontal menu bar has five operation buttons:

- Configuration—Click to configure the device.
- Shell—Click to open a shell to the device so that you can perform operations from the CLI.
- Configuration Status—Click to perform configuration operations on the device:
  - Sync To
  - Sync From
  - Compare
- Upgrade—Click to upgrade the software on the device.
- Subscription—Click to view information about the device's Versa Networks software subscription.

Initially, the Summary tab is selected in the lower horizontal menu bar.

Select the Summary tab in the horizontal menu bar to display summary information for the device. Scroll down to display additional information.

**Controller1** | 2550 Great America Way Suite 350 Santa Clara ca United States 95054  
Mgmt. Address: 10.40.233.210  
System Bridge Address: 0A:28:E9:D2:01:00

**reachable** SYNC: IN\_SYNC  
Up since: Mon Mar 27 14:24:45 2023

CPE Interfaces								
Interface	Network Name	Service Provider	Status		Live Data	Bandwidth (Mbps)		
			Operational	Admin		Configured	Measured	
> vni-0/0.0	WAN1	-	↑	↑	□	↑ 0.00	↓ 0.00	C ⓘ Measure
> vni-0/1.0	WAN2	-	↑	↑	□	↑ 0.00	↓ 0.00	C ⓘ Measure
> vni-0/2.0	WAN3	-	↑	↑	□	↑ 0.00	↓ 0.00	C ⓘ Measure
> vni-0/3.601	Control	-	↑	↑	□			

**SDWAN Application Traffic**

Remote Branch \* Application Rule

Select Option Select Option L2 SDWAN Latency Jitter Packet Loss MOS

**Controller1** | 2550 Great America Way Suite 350 Santa Clara ca United States 95054  
Mgmt. Address: 10.40.233.210  
System Bridge Address: 0A:28:E9:D2:01:00

**reachable** SYNC: IN\_SYNC  
Up since: Mon Mar 27 14:24:45 2023

CPE Interfaces								
Interface	Network Name	Service Provider	Status		Live Data	Bandwidth (Mbps)		
			Operational	Admin		Configured	Measured	
> vni-0/1.0	WAN1	-	↑	↑	□	↑ 0.00	↓ 0.00	C ⓘ Measure
> vni-0/2.0	WAN3	-	↑	↑	□	↑ 0.00	↓ 0.00	C ⓘ Measure
> vni-0/3.601	Control	-	↑	↑	□			

**SDWAN Application Traffic**

Remote Branch \* Application Rule

Select Option Select Option L2 SDWAN Latency Jitter Packet Loss MOS

**Recent Events**

VIEW DETAILS

CRITICAL	MAJOR	MINOR
0	0	0
INDETERMINATE	WARNING	
0	0	

Refresh every 5 minutes

**Health Monitor**

Config Sync Status	IN_SYNC
Reachability Status	REACHABLE
Service Status	GOOD
Interfaces	4 0
BGP Adjacencies	4 0
IKE Status	4 -
Paths	6 9

Refresh every 5 minutes

**Policy Violations**

Packet drop no valid available link	0
Packet drop attributed to SLA action	0
Packet Forward attributed to SLA action	0

Refresh every 5 minutes

Select the Services tab in the horizontal menu bar to display the networking software and security services that are enabled and running on the device. The following screenshot shows an example of services running on a Controller node:

[https://docs.versa-networks.com/Management\\_and\\_Orchestration/Versa\\_Director/Configuration/01\\_Director\\_GUI\\_Overview](https://docs.versa-networks.com/Management_and_Orchestration/Versa_Director/Configuration/01_Director_GUI_Overview)

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The screenshot shows the Versa Director GUI interface. At the top, there are tabs for Director View, Appliance View, and Template View. Below that is a navigation bar with Monitor, Analytics, Configuration, and Administration tabs, where Monitor is selected. A sub-navigation bar shows Organization and Provider, with a note that the user is in Appliance View. On the right, there are buttons for Commit Template and Build.

In the main content area, there's a summary table for Total Appliances (5) and a specific entry for Controller1. The Controller1 entry shows its location (2550 Great America Way Suite 350 Santa Clara, ca United States 95054), management address (10.40.233.210), and system bridge address (0A:28:E9:D2:01:00). It also indicates it is Reachable and SYNC: IN\_SYNC, last updated on Mon Mar 27 14:24:45 2023.

The Services tab is selected in the horizontal menu bar. Below it, a detailed view of services is shown, including NGFW, Secure Access, SDLAN, Sessions, APM, Antivirus, ATP, Authentication Policies, CASB, Cloud File Export, Decryption, DLP, DNS Filtering, DoS Policies, File Filtering, IP Filtering, and Persistent Action. The Cloud File Export tab is currently active.

The following screenshot shows an example of services running on a VOS branch node:

This screenshot shows the same Versa Director GUI interface as the previous one, but for a different device: Demo-Branch1. The navigation and tabs are identical, including the selection of the Services tab.

The summary table shows Demo-Branch1 (5) and the specific entry for Demo-Branch1. The entry details its location (2550 Great America Way Suite 350, Santa Clara, ca, United States 95054), management address (192.169.0.8), system bridge address (0A:30:FB:EF:00:00), and redundant pair (Demo-Branch2). It is also Reachable and SYNC: OUT\_OF\_SYNC, last updated on Mon Apr 10 18:58:49 2023.

The horizontal menu bar shows the Services tab is selected. Below it, a detailed view of services is shown, including SDWAN, CGNAT, SDLAN, IPsec, Sessions, SCI, Secure Access, and APM. The IPsec tab is currently active. Sub-options under IPsec include Branch To Branch, IKE History, IKE Security Association, IPsec History, IPsec Security Association, Overview, and Profile Statistics.

Select the Networking tab in the horizontal menu bar to display information about the networking software for the device.

Screenshot of the Versa Director View - Appliance View interface showing the Networking tab for Demo-Branch1.

**Header:** Director View, Appliance View, Template View, Administrator, Commit Template, Build.

**Breadcrumbs:** Organization > Provider > Demo-Branch1

**Summary:** Total Appliances: 5, Controller1, Demo-Branch1 (highlighted with a red box).

**Device Details:**

- Demo-Branch1 | 2550 Great America Way Suite 350, Santa Clara, ca, United States 95054
- Mgmt. Address: 192.169.0.8
- System Bridge Address: 0A:30:F8:EF:00:00
- Redundant Pair: Demo-Branch2

**Status:** Reachable | SYNC: OUT\_OF\_SYNC  
Up since: Mon Apr 10 18:58:49 2023

**Horizontal Menu:** Summary, Services, **Networking**, System, Tools.

**Networking Tab:** Interfaces, Routes, **BGP**, OSPF, OSPFv3, BFD, DHCP, DNS Proxy, COS, VRRP, LEF, ARP, IP-SLA, PIM, IGMP, 802.1X, RIP, SW.

**Sub-Tab:** Neighbors, Advertised Prefixes, Received Prefixes.

**Table:** Provider-Control-VR

Neighbor IP	Select Local ...	Select Local ...	Select Local P...	Remote Addr...	Select Remot...	Local Address...	Local Address	State	Total Sent Pr...	Total Receive...	Established T...	Local Port	Rem
192.169.0.0	ipv4	192.169.0.8	0	ipv4	0	ipv4	192.169.0.8	Established	6	29	20:57:35	34035	179
192.169.0.12	ipv4	192.169.0.8	0	ipv4	0	ipv4	192.169.0.8	Established	6	26	20:57:31	39667	179

Select the System tab in the horizontal menu bar to display hardware and system-level information for the device. Scroll down to display additional information.

Screenshot of the Versa Director View - Appliance View interface showing the System tab for Demo-Branch1.

**Header:** Director View, Appliance View, Template View, Administrator, Commit Template, Build.

**Breadcrumbs:** Organization > Provider > Demo-Branch1

**Summary:** Total Appliances: 5, Controller1, Demo-Branch1 (highlighted with a red box).

**Device Details:**

- Demo-Branch1 | 2550 Great America Way Suite 350, Santa Clara, ca, United States 95054
- Mgmt. Address: 192.169.0.8
- System Bridge Address: 0A:30:F8:EF:00:00
- Redundant Pair: Demo-Branch2

**Status:** Reachable | SYNC: OUT\_OF\_SYNC  
Up since: Mon Apr 10 18:58:49 2023

**Horizontal Menu:** Summary, Services, Networking, **System**, Tools.

**System Tab:** Configuration, Shell, Config Status, Upgrade, Subscription.

**System Summary:**

Hardware Information		Software Information	
CPU Count / Cores	16	Package Name	versa-flexvnf-2023
Disk Size	113.62GB	Package ID	fc5091e
Manufacturer	Versa Networks, Inc.	Release	22.1.1
Memory	31.14GiB	Build Type	bionic
Model	CSG3300	Creator	jenkins
Serial#	AACA2233004	Date	Sun Apr 09 2023
SKU	CSG3300	Major	22
Hardware Serial #	AACA2233004	Minor	1

**CPE Resources:**

CPU	Disk	Memory
-----	------	--------

VERSA NETWORKS

Director View Appliance View Template View

Administrator

**Monitor** Analytics Configuration Administration

Organization Provider

You are currently in Appliance View

**Demo-Branch1 - Summary**

Location	2550 Great America Way Suite 350, Santa Clara, ca, United States 95054
Mgmt. Address	192.169.0.8
System Bridge Address	0A:30:FB:EF:00:00

**Associate Templates**

Device Group	Demo-Branch1
Post Staging Template	Demo-Branch1
Service Templates	Provider-DataStore Tenant1-DataStore Tenant2-DataStore Tenant3-DataStore Tenant4-DataStore Tenant5-DataStore
	Category: DataStore Category: DataStore Category: DataStore Category: DataStore Category: DataStore Category: DataStore

**System Overall Status**

Status	Good
Versa Services Manager	Running
Versa IP2User Daemon	Running
Versa Filter Manager	Running
Versa Interface Manager	Running

**NTP Client Statistics**

PACKETS RECEIVED	PACKETS SENT	SYNCHED SERVER	CURRENT TIME
291	292	216.239.35.0	Tue, Apr 11 2023, 16:02

**License**

Mode	Subjugated
State	Active

VERSA NETWORKS

Director View Appliance View Template View

Administrator

**Monitor** Analytics Configuration Administration

Organization Provider

You are currently in Appliance View

**versa-fexd** Running

**Usage**

Current Usage(Kbps) : 0

**Fetch**

**Interfaces SFP Info**

enet-0/10	Module Unknown or No Access: Operation Not Supported [:enet-0/10]
enet-0/11	Module Unknown or No Access: Operation Not Supported [:enet-0/11]
enet-0/12	Module Unknown or No Access: Operation Not Supported [:enet-0/12]
enet-0/13	Module Unknown or No Access: Operation Not Supported [:enet-0/13]
enet-0/14	Module Unknown or No Access: Operation Not Supported [:enet-0/14]
enet-0/15	Module Unknown or No Access: Operation Not Supported [:enet-0/15]
enet-0/16	Module Unknown or No Access: Operation Not Supported [:enet-0/16]
enet-0/17	Module Unknown or No Access: Operation Not Supported [:enet-0/17]
enet-0/18	Module Unknown or No Access: Operation Not Supported [:enet-0/18]

**Platform - CSG3300**

**EGRESS INTERFACE PROFILE**

Current Egress Interface Profile:

Profile Name

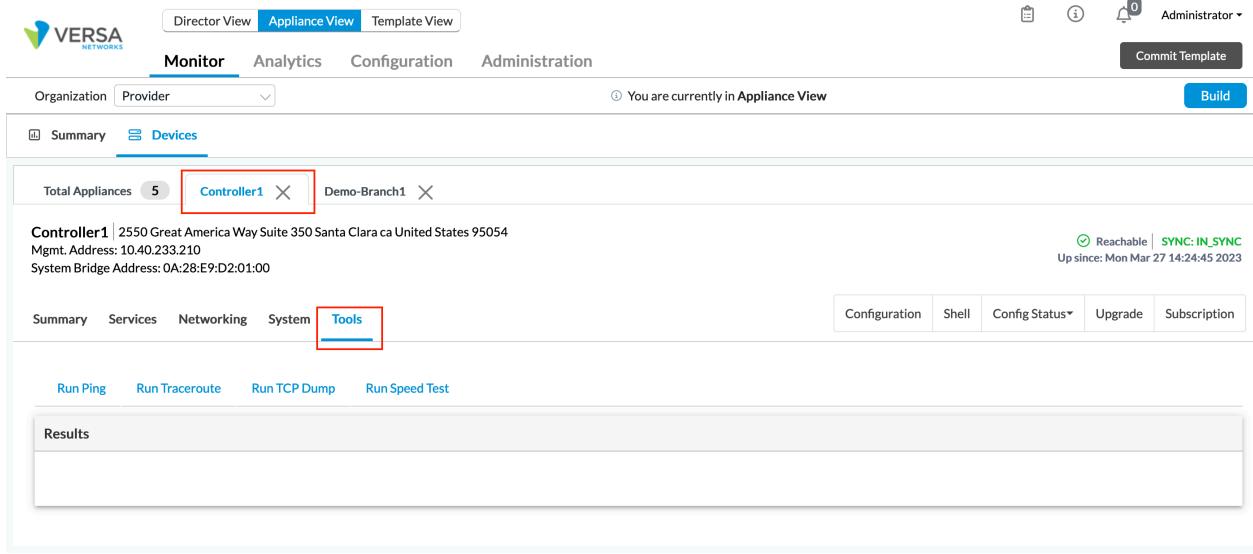
Balanced Egress Interface Profile

Select the Tools tab in the horizontal menu bar to issue ping or traceroute commands on the device, or perform a tcpdump or speed test on the device.

[https://docs.versa-networks.com/Management\\_and\\_Orchestration/Versa\\_Director/Configuration/01\\_Director\\_GUI\\_Overview](https://docs.versa-networks.com/Management_and_Orchestration/Versa_Director/Configuration/01_Director_GUI_Overview)

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## Monitor a Tenant

When you select a tenant in the left menu bar, you display real-time status information for the tenant's devices. In the horizontal menu bar, you select the display option, either Summary or Devices.

### Summary View

On the Monitor home screen, select the Summary tab in the horizontal menu bar to display a summary of real-time information about the organization. The information displays in a number of panes and is presented in table, graphical, and map formats. For example:

VERSA NETWORKS

Director View Appliance View Template View

Administrator

Monitor Configuration Workflows Administration Analytics

Organization Tenant1

You are currently in Director View

Commit Template

**Summary** Devices

**Asset Summary**

CATEGORY	UP	DOWNS	TOTAL
SDWAN Controllers	2	0	2
SDWAN Hubs	0	0	0
Hub Controllers	0	0	0
SDWAN Branches	3	0	3
Router Firewalls	0	0	0
uCPeS	0	0	0
Sub Organizations	-	-	0

**Map View**

**Tenant Health**

CATEGORY	UP	DOWNS	DISABLED
Config Sync Status	2	3	0
Reachability Status	5	0	0
Service Status	5	0	0
Interfaces	34	2	2
BGP Adjacencies	17	1	0
IKE Status	12	-	0
Paths	30	25	0

**Recent Events**

CRITICAL	MAJOR	MINOR
1	0	0
INDETERMINATE	WARNING	18

**System Summary**

Hardware Information	4
Software Version	4
Hardware Model	4
Security Packages	3
OS Security Packages	1
App ID Protocol Bundle Version	2
Screenshot	

**Services**

SDWAN	5
NGFW	1
CGNAT	3
Secure Access	2

The Asset Summary, Tenant Health, Recent Events, System Summary, and Services panes show the same type of information as for an organization, as described in [Monitor an Organization](#), above.

The Map View pane shows the location of the tenant's devices. Hover over a device for more information about it.

## Devices View

On the Monitor home screen, select the Devices tab in the horizontal menu bar to display a table in the main pane that lists all the tenant's devices. For example:

VERSA NETWORKS

Director View Appliance View Template View

Administrator

Monitor Configuration Workflows Administration Analytics

Organization Tenant1

You are currently in Director View

Commit Template

**Summary** Devices

**Total Appliances** 5

Name		Mgmt. Address	Tags	Type	Service Start Time	Software Versic	Organizations	Status			
								Config Sync	Reachability	Service	Locked
<input type="checkbox"/>	Controller1	10.40.233.210	0	Controller	Mon, Mar 27 2023, 14:24	22.1.1-GA	Tenant1,Tenant2,Tena...	<span>✓</span>	<span>✓</span>	Up	<span>🔗</span>
<input type="checkbox"/>	Controller2	10.40.233.211	0	Controller	Mon, Mar 27 2023, 14:24	22.1.1-GA	Tenant1,Tenant2,Tena...	<span>✓</span>	<span>✓</span>	Up	<span>🔗</span>
<input type="checkbox"/>	Demo-Branch1	192.169.0.8	0	Branch	Mon, Apr 10 2023, 18:58	22.1.1-GA - W...	Tenant1,Tenant2,Tena...	<span>✗</span>	<span>✓</span>	Up	<span>🔗</span>
<input type="checkbox"/>	Demo-Branch2	192.169.0.10	0	Branch	Mon, Apr 10 2023, 18:58	22.1.1-GA	Tenant1,Tenant2,Tena...	<span>✗</span>	<span>✓</span>	Up	<span>🔗</span>
<input type="checkbox"/>	Demo-DCBranch	192.169.0.18	0	Branch	Thu, Apr 06 2023, 11:58	22.1.1-GA - W...	Tenant1,Tenant2,Tena...	<span>✗</span>	<span>✓</span>	Up	<span>🔗</span>

The icons for actions you can perform in the horizontal menu bar are the same as for an organization, as described in

[https://docs.versa-networks.com/Management\\_and\\_Orchestration/Versa\\_Director/Configuration/01\\_Director\\_GUI\\_Overview](https://docs.versa-networks.com/Management_and_Orchestration/Versa_Director/Configuration/01_Director_GUI_Overview)

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[Monitor an Organization](#), above.

When you click on a device's name in the main pane, the detailed status information displayed about the device is the same as for an organization, as described in [Monitor an Organization](#), above.

## Monitor Tab in Appliance View

When you select the Monitor tab in Director view and then select a device, the view changes to Appliance view. The Monitor screen has the following items in the horizontal menu bar:

- Summary tab—Displays status information for a device.
- Services tab—Displays the status of services (such as SD-WAN, NGFW, and CGNAT) and networking items (such as interfaces, routes, and BGP) for the device.
- Networking tab
- System tab—Displays system status information for a system.
- Tools tab—Allows your to run network reachability and performance tests.
- Build button—Allows you to commit all the configuration changes in the current session to the associated appliance.
- Shell button—Click to open a shell to the device so that you can perform operations from the device's CLI. Note that only the organization's owner can open a shell to the device.
- Configuration Status—Click to perform configuration operations on the device:
  - Sync To
  - Sync From
  - Compare
- Upgrade button—Click to upgrade the software on the device.
- Subscription button—Click to view information about the device's Versa Networks software subscription.

The screenshot shows the Versa Director interface in Appliance View. At the top, there's a navigation bar with tabs for Director View, Appliance View (which is highlighted in blue), and Template View. Below that is a sub-navigation bar with tabs for Monitor, Analytics, Configuration, and Administration. The main content area displays a summary for a device named 'Controller1'. The summary includes the device's name, address (2550 Great America Way Suite 350 Santa Clara ca United States 95054), management address (10.40.233.210), and system bridge address. To the right of the summary, there's a status indicator showing 'Reachable' and 'SYNC: IN\_SYNC' with a note that it was up since Mon Mar 27 14:24:45 2023. At the bottom of the screen, there's a horizontal menu bar with tabs for Summary, Services, Networking, System, Tools, Configuration, Shell, Config Status, Upgrade, and Subscription. The 'Build' button in the top right corner is highlighted with a red box.

## Summary Tab

In Appliance view on the Monitor tab, the Summary tab in the horizontal menu bar displays network and health information about the selected device. Scroll down to see all the panes of information.

VERSA NETWORKS

Director View Appliance View Template View

Administrator ▾

**Monitor** Analytics Configuration Administration

Organization Tenant1 You are currently in Appliance View Build

**Summary** Devices

Total Appliances 6 Controller1 X

Controller1 | 2550 Great America Way Suite 350 Santa Clara ca United States 95054  
Mgmt. Address: 10.40.233.210  
System Bridge Address:

Reachable | SYNC: IN\_SYNC Up since: Mon Mar 27 14:24:45 2023

Summary Services Networking System Tools Configuration Shell Config Status Upgrade Subscription

### Interfaces

Interface	Network Name	Service Provider	Status		Live Data	Bandwidth (Mbps)		
			Operational	Admin		Configured	Measured	
> vni-0/0.0	WAN1	-	↑	↑	□	↑ 0.00	↓ 0.00	Measure
> vni-0/1.0	WAN2	-	↑	↑	□	↑ 0.00	↓ 0.00	Measure
> vni-0/2.0	WAN3	-	↑	↑	□	↑ 0.00	↓ 0.00	Measure

Rows per page 25 Showing 1 - 3

### SDWAN Application Traffic

Hide Chart

Remote Branch \* Application Rule

Select Option Select Option L2 SDWAN Latency Jitter Packet Loss MOS

VERSA NETWORKS

Director View Appliance View Template View

Administrator ▾

**Monitor** Analytics Configuration Administration

Organization Tenant1 You are currently in Appliance View Build

> vni-0/2.0 WAN3 - ↑ ↑ □ ↑ 0.00 ↓ 0.00 Measure

Rows per page 25 Showing 1 - 3

### SDWAN Application Traffic

Hide Chart

Remote Branch \* Application Rule

Select Option Select Option L2 SDWAN Latency Jitter Packet Loss MOS

### Recent Events

VIEW DETAILS

CRITICAL	MAJOR	MINOR
0	0	0
INDETERMINATE	WARNING	
0	0	

Refresh every 5 minutes

### Health Monitor

Config Sync Status	IN_SYNC
Reachability Status	REACHABLE
Service Status	GOOD
Interfaces	3 0
BGP Adjacencies	4 0
IKE Status	4 -
Paths	6 6

Refresh every 5 minutes

### Policy Violations

Packet drop no valid available link	0
Packet drop attributed to SLA action	0
Packet Forward attributed to SLA action	0

Refresh every 5 minutes

## Services Tab

In Appliance view on the Monitor tab, the Services tab in the horizontal menu bar lists the security services that are running on the selected device. A secondary horizontal menu bar lists detailed options for each service.

The screenshot shows the Director View interface with the following details:

- Header:** Director View, Appliance View, Template View; Administrator status (Administrator, Commit Template); Organization: Tenant1; You are currently in Appliance View; Build: OUT\_OF\_SYNC.
- Top Navigation:** Monitor (selected), Analytics, Configuration, Administration.
- Summary:** Total Appliances: 6, Controller1, Demo-Branch1.
- Detailed Information:** Demo-Branch1 details: 2550 Great America Way Suite 350, Santa Clara, ca, United States 95054; Mgmt. Address: 192.169.0.8; System Bridge Address:; Redundant Pair: Demo-Branch2. Status: Reachable | SYNC: OUT\_OF\_SYNC Up since: Mon Apr 17 19:08:10 2023.
- Service Tabs:** Summary, Services (selected), Networking, System, Tools; Configuration, Shell, Config Status, Upgrade, Subscription.
- SD-WAN Sub-Tab:** SDWAN, CGNAT, Secure Access, SDLAN, IPsec, Sessions, SCI, APM; Aggregate Traffic, Application Metrics, EIP cache, Forwarding Profiles, MOS, Policies, Sessions, Sites, SLA End To End Paths, SLA Metrics, SLA Paths, Traffic E.

To display more information about a service, click the name of the service and then select one of the options. The information is generally displayed in a table. The following screenshot shows information about sites for the SD-WAN service, and site information is displayed in a table.

The screenshot shows the Director View interface with the following details:

- Header:** Director View, Appliance View, Template View; Administrator status (Administrator, Commit Template); Organization: Tenant1; You are currently in Appliance View; Build: OUT\_OF\_SYNC.
- Top Navigation:** Monitor (selected), Analytics, Configuration, Administration.
- Summary:** Total Appliances: 6, Controller1, Demo-Branch1.
- Detailed Information:** Demo-Branch1 details: 2550 Great America Way Suite 350, Santa Clara, ca, United States 95054; Mgmt. Address: 192.169.0.8; System Bridge Address:; Redundant Pair: Demo-Branch2. Status: Reachable | SYNC: OUT\_OF\_SYNC Up since: Mon Apr 17 19:08:10 2023.
- Service Tabs:** Summary, Services (selected), Networking, System, Tools; Configuration, Shell, Config Status, Upgrade, Subscription.
- SD-WAN Sub-Tab:** SDWAN, CGNAT, Secure Access, SDLAN, IPsec, Sessions, SCI, APM; Aggregate Traffic, Application Metrics, EIP cache, Forwarding Profiles, MOS, Policies, Sessions, Sites, SLA End To End Paths, SLA Metrics, SLA Paths, Traffic E.
- Table:** Shows site information for Demo-Branch1. The table has columns: Site Name, Management IP, Type, Up Time, Connectivity Status, and Controller. Data rows include Branch1 (192.169.0.4, remote, 17h:15m:50s, Connected, no), Controller1 (192.169.0.2, remote, 17h:15m:50s, Connected, yes), Controller2 (192.169.0.14, remote, 17h:15m:44s, Connected, yes), Demo-Branch1 (192.169.0.8, local, 17h:20m:21s, -, no), Demo-Branch2 (192.169.0.10, remote, 17h:15m:50s, Connected, no), and Demo-DCBranch (192.169.0.18, remote, 17h:15m:50s, Connected, no).

The display for many of the service and networking components has its own set of tabs that you can use for viewing

[https://docs.versa-networks.com/Management\\_and\\_Orchestration/Versa\\_Director/Configuration/01\\_Director\\_GUI\\_Overview](https://docs.versa-networks.com/Management_and_Orchestration/Versa_Director/Configuration/01_Director_GUI_Overview)

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various types of information related to that service component. The following menu items are available:

- ADC
  - Load Balancer
  - Monitor
  - Server
  - SSL Proxy
  - Virtual Service
- APM
  - Application Statistics
  - MOS
  - Summary Statistics
  - TCP Statistics
- CGNAT
  - Pools
  - Rules
  - Sessions
- IPsec
  - Branch To Branch
  - IKE History
  - IKE Security Association
  - IPsec History
  - IPsec Security Association
  - Overview
  - Profile Statistics
- NGFW
  - Antivirus
  - Decryption
  - DNS Filtering
  - DoS Policies
  - File Filtering
  - IP Filtering
  - Persistent Action
  - Policies
  - Security Packages
  - Sessions
  - URL Filtering
  - User Packages

- Vulnerability
- Vulnerability Signature
- Web Proxy
- Zone Protection
- SCI—No individual tabs
- SD-LAN
  - Forwarding Profiles
  - MOS
  - Policies
  - Sessions
- SD-LAN
  - Forwarding Profiles
  - MOS
  - Policies
  - Sessions
- SD-WAN
  - Aggregate Traffic
  - Application Metrics
  - EIP Cache
  - Forwarding Profiles
  - MOS
  - Policies
  - Sessions
  - Sites
  - SLA End-to-End Paths
  - SLA Metrics
  - SLA Paths
  - Traffic Engineering
  - Transport Paths
  - Web Proxy
- Secure Access
  - History
  - IPsec Profiles
  - MDM Profiles
  - Policies
  - Services
  - SSL VPN
- Sessions—No individual tabs

## Networking Tab

In Appliance view on the Monitor tab, the Networking tab in the horizontal menu bar lists the networking services that are running on the selected device. A secondary horizontal menu bar lists detailed options for each service.

The screenshot shows the Versa Director GUI interface. At the top, there are three tabs: Director View, Appliance View (which is selected), and Template View. Below the tabs, there's a navigation bar with sections for Monitor, Analytics, Configuration, and Administration. On the left, there's an Organization dropdown set to Tenant1. A message indicates "You are currently in Appliance View". On the right, there are buttons for Commit Template and Build, along with an Administrator dropdown showing a notification count of 2. The main content area is titled "Controller1" and displays its details: 2550 Great America Way Suite 350 Santa Clara ca United States 95054, Mgmt. Address: 10.40.233.210, and System Bridge Address. Below this, there are tabs for Summary, Services, Networking (which is selected), System, and Tools. The Networking tab has sub-tabs for Interfaces, Routes, BGP, OSPF, OSPFv3, BFD, DHCP, DNS Proxy, COS, VRRP, LEF, ARP, IP-SLA, IGMP, 802.1X, RIP, and Switching. The Interfaces sub-tab is active and shows a table of network interfaces. The table has columns for Interface, Oper Status, VRF, Host INF, RX Packets, RX PPS, RX Bytes, RX Errors, RX BPS, TX Packets, TX PPS, TX Bytes, and TX Err. Three rows are listed:

	Interface	Oper Status	VRF	Host INF	RX Packets	RX PPS	RX Bytes	RX Errors	RX BPS	TX Packets	TX PPS	TX Bytes	TX Err
<input type="checkbox"/>	> vni-0/0.0	up	WAN1-Transp...	eth1	68.36 M	39	13.29 G	0	74016	58.13 M	28	10.44 G	0
<input type="checkbox"/>	> vni-0/1.0	up	WAN2-Transp...	eth2	1.04 K	0	71.03 K	0	0	7.31 M	4	1.22 G	0
<input type="checkbox"/>	> vni-0/2.0	up	WAN3-Transp...	eth3	1.04 K	0	70.82 K	0	0	191.3 K	0	35.89 M	0

The display for many of the service and networking components has its own set of tabs that you can use for viewing various types of information related to that service or networking component. The following menu items are available:

- 802.1X—No individual tabs
- ARP—No individual tabs
- BFD—No individual tabs
- BGP
  - Advertised Prefixes
  - Neighbors
  - Received Prefixes
- Certificate
  - Server
  - Signing Requests
- CoS
  - App QoS Policies
  - Interfaces
  - Per-User Policer
  - QoS Policies
- DHCP

- Active Leases
- Lease History
- Statistics
- DNS Proxy
  - Network Obfuscation Cache
  - Profile Monitor
  - Statistics
- IGMP—No individual tabs
- Interfaces—No individual tabs
- IP SLA—No individual tabs
- LACP
- LEF
  - Collector Groups
  - Collectors
- LLDP—No individual tabs
- NPU
  - IPv4 ACL Ingress Policies Double Wide
  - IPv4 ACL Ingress Policies Single Wide
  - IPv6 ACL Ingress Policies
  - Layer 2 ACL Ingress Policies
  - Traffic-Mirroring Policies
- OSPF—No individual tabs
- OSPFv3—No individual tabs
- PIM—No individual tabs
- RIP—No individual tabs
- Routes—No individual tabs
- SaaS Applications—No individual tabs
- Switching
  - ARP Suppression
  - Bridge Domain Interfaces
  - EVPN Multihoming
  - Ingress Table
  - MAC Address Table
  - Spanning Tree
- TWAMP
  - Control Client State
  - Control Server State
  - Session Reflector State

- Session Sender State
- VRRP—No individual tabs

## System Tab

In Appliance view on the Monitor tab, the System tab in the horizontal menu bar displays system-related information for the selected device. Scroll down to see all the panes of information.

The screenshot shows the Versa Director GUI interface. At the top, there's a navigation bar with tabs: Director View, Appliance View (which is selected), and Template View. To the right of the tabs are icons for file operations (copy, paste, delete, etc.) and a user status indicator (Administrator with 10 notifications). Below the navigation bar is a secondary header with tabs: Monitor (selected), Analytics, Configuration, and Administration. Further down are organization and tenant selection dropdowns, a message indicating the current view is 'Appliance View', and buttons for 'Commit Template' and 'Build'.

The main content area is titled 'Controller1' and shows its physical address: 2550 Great America Way Suite 350 Santa Clara ca United States 95054. It also lists management address (10.40.233.210) and system bridge address. A status bar at the bottom right shows 'Reachable | SYNC: IN\_SYNC Up since: Mon Mar 27 14:24:45 2023'.

The 'System' tab is selected in the navigation bar below the main content. This tab has sub-links for Summary, Services, Networking, System (selected), and Tools. On the far right of this bar are links for Configuration, Shell, Config Status, Upgrade, and Subscription.

The 'System' pane itself is divided into several sections:

- CPE Resources:** A donut chart showing resource usage: CPU (55%), Disk (19%), and Memory (2%). Below the chart are three buttons: CPU, Disk, and Memory.
- System Summary:** This section contains two tables: 'Hardware Information' and 'Software Information'.
 

Hardware Information		Software Information	
CPU Count / Cores	4	Package Name	versa-flexvnf-2023
Disk Size	75.44GiB	Package ID	4a51bf3
Manufacturer	QEMU	Release	22.1.1
Memory	7.58GiB	Build Type	bionic
Model	Standard PC (i440FX + PIIX, 1996)	Creator	jenkins
Serial#	Not Specified	Date	Wed Mar 22 2023
SKU	Not Specified	Major	22
Hardware Serial #	Not Specified	Minor	1
		Service	1

VERSA NETWORKS

Director View Appliance View Template View

Administrator 10

Monitor Analytics Configuration Administration

Organization Tenant1 You are currently in Appliance View Commit Template Build

Refresh every 10 seconds

**Controller1 - Summary**

**Configured Address** 2550 Great America Way Suite 350 Santa Clara ca United States 95054

**Mgmt. Address** 10.40.233.210

**Coordinates**

Source	config
Longitude	-121.973626
Latitude	37.414739
Altitude	

**System Bridge Address** 0A:28:E9:D2:01:00

**System Overall Status**

**NTP Client Statistics**

**License**

VERSA NETWORKS

Director View Appliance View Template View

Administrator 10

Monitor Analytics Configuration Administration

Organization Tenant1 You are currently in Appliance View Commit Template Build

**System Overall Status**

Status	Good
Versa Layer-2 Learning Service	Running
Versa DHCPv6 Client	Running
Versa Routing CLI Transformer	Running
Versa DHCP Daemon	Running
Versa Layer-2 Control Service	Running
Versa VRRP Daemon	Running
Versa SDWAN Traffic Engineering	Running
versa-fexd	Running
Versa IP2User Daemon	Running

**NTP Client Statistics**

PACKETS RECEIVED	PACKETS SENT	SYNCHED SERVER	CURRENT TIME
0	0	-	Tue, Apr 18 2023, 14:19

**License**

Mode	Subjugated
State	Active

**Usage**

Current Usage(Kbps) : 0 Fetch

**Interfaces SFP Info**

vni-0/0	port: net_virtio. SFP Access Operation Not Supported :vni-0/0
vni-0/1	port: net_virtio. SFP Access Operation Not Supported :vni-0/1
vni-0/2	port: net_virtio. SFP Access Operation Not Supported :vni-0/2
vni-0/3	port: net_virtio. SFP Access Operation Not Supported :vni-0/3

## Tools Tab

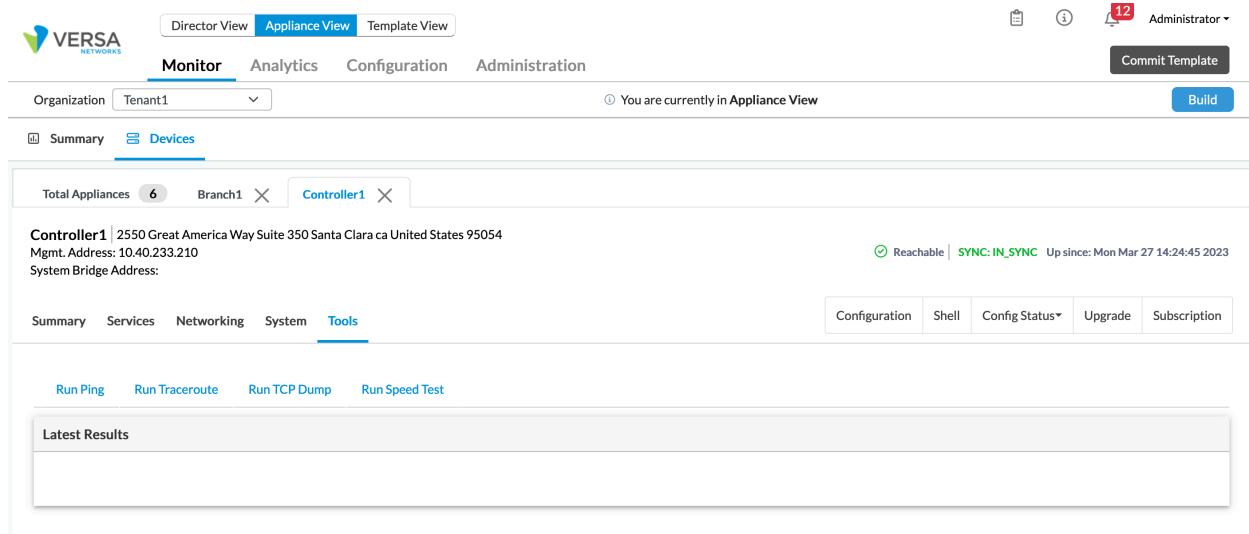
In Appliance view on the Monitor tab, the Tools tab in the horizontal menu bar allows you to perform status and

[https://docs.versa-networks.com/Management\\_and\\_Orchestration/Versa\\_Director/Configuration/01\\_Director\\_GUI\\_Overview](https://docs.versa-networks.com/Management_and_Orchestration/Versa_Director/Configuration/01_Director_GUI_Overview)

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reachability testing on the selected device.



You can use the following tools:

- Ping—Issue a ping command to check the reachability of other devices in the network. For more information, see [Access Monitoring Tools](#).
- Traceroute—Issue a traceroute command to check the path to another device in the network. For more information, see [Access Monitoring Tools](#).
- Tcpdump—Display a description of the contents of packets on a network interface. For more information, see [Access Monitoring Tools](#).
- Speedtest—Run internet speed tests from the device to an internet speed-test server. For more information, see [Run Internet Speed Tests](#).

## Configuration Tab in Director View

In Director view, the screens on the Configuration tab allow you to configure networking features and security services. There are three ways to perform configuration:

- Templates—You use configuration templates to deploy common network and security elements across multiple devices in an organization. The VOS software provides predefined configuration templates that automate the many time-consuming and repetitive tasks involved in device configuration. You can modify the predefined configuration templates or create custom templates. You perform configuration using templates when you already know what you need to configure and what needs to be applied to multiple devices. You would typically use templates when initially setting up an organization's devices.  
For portions of the configuration that differ from device to device, such as IP addresses, you configure these as variables in the templates and then you bind them to the device when you send the configuration parameters from the Director node to the VOS device. The variables are called *bind variables*, and you define them in templates by *parameterizing* the value of the option.
- Devices—You can configure individual devices in an organization with networking features and security services specific to the device. These configurations are temporary and are overwritten the next time you apply a template to

the device.

- **Objects**—Some configurations required you to create specific network elements, which are called *objects*.

Configure VOS features using templates or by configuring devices differ as follows:

- Permanent configuration—To make permanent configuration changes, you use templates, and you configure the settings by selecting Templates > Device Templates in the horizontal menu bar. Then, in the main pane, click the name of the template that you want to modify. The view changes to Appliance view, and the drop-down menu to the right of the Home button shows the name of the template. You perform configuration using templates when you already know what you need to configure and what needs to be applied to multiple devices. After you make the template modifications, you perform a commit operation to apply the template to the VOS device or devices. When you apply the template to the VOS devices, it overrides the existing configuration on the VOS device configuration with configuration from the template, and any temporary changes you may have made are overridden.
- Temporary configuration—To make temporary configuration changes to an individual device, select Devices > Device in the horizontal menu bar. Then, in the main pane, select the device name. The view changes to Appliance view, and the drop-down menu to the right of the Home button shows the name of the device. Any modifications you make to the VOS device are applied immediately. However, these modifications are overwritten the next time you apply a template to the device. Using this method to configure VOS devices is useful when you are testing a new configuration and you need to make changes and see the effects of the changes right away.

---

## Configuration Using Templates

Versa Director supports three types of templates:

- **Device templates**—Also known as post-staging templates, are a baseline configuration that can be deployed across branches, saving time and effort in configuring and deploying similar services across many branches in a network.
- **Service templates**—These are service-specific configurations that can be used to configure certain services. They can then be applied to device configurations to enable the services.
- **Common templates**—Also known as data store templates, are automatically created for an organization. There is only one common template for any tenant or organization. The common template is always applied by default to all devices in the tenant or organization.

For more information about templates, see [Overview of Configuration Templates](#).

To view existing device and service templates and the common template, select the Configuration tab in the top menu bar, click Templates in the horizontal menu bar, and then select an item in the drop-down menu.

Name	Organizations	Template Type	Metadata	Snapshots	View	Lock Scope	Locked By
Branch1	Tenant1 Provider	SDWAN Post Staging	<input type="button" value="Edit"/>	<input type="button" value="View"/>	<input type="button" value="Delete"/>		
Branch2	Tenant1 Provider	SDWAN Post Staging	<input type="button" value="Edit"/>	<input type="button" value="View"/>	<input type="button" value="Delete"/>		
Branch3	Tenant1 Provider	SDWAN Post Staging	<input type="button" value="Edit"/>	<input type="button" value="View"/>	<input type="button" value="Delete"/>		
Branch4	Tenant1 Provider	SDWAN Post Staging	<input type="button" value="Edit"/>	<input type="button" value="View"/>	<input type="button" value="Delete"/>		

The table in the main pane shows the following information:

- Name—Name of the template.
- Organizations—Organizations and tenants whose configurations are using the template.
- Template Type—Type of template:
  - Staging templates—Designed to redirect the device to the staging Controller device, and they are primarily used on the Versa Networks global ZTP server.
  - Post-staging templates—Main template that is associated with a device.

For more information, see [Overview of Configuration Templates](#).

- Metadata—Click the Pencil icon to view and edit the template's metadata.

**Template Metadata**

Name	Type	Provider Organization
Branch1	SDWAN Post Staging	Provider
<input type="checkbox"/> Sub Organizations <input type="checkbox"/> Tenant1 <input type="checkbox"/> Tenant2		
Resource Tags <input type="text"/>		
<b>Solution Tier</b> Solution Tier * Service Bandwidth License Period Prime-Secure-SDWAN 50 Gbps 1 Years		
<input type="checkbox"/> Solution Add on Tier Solution Add on Tier Not Configured		

- Snapshot—Click to view, create, or modify snapshots of the template. For more information, see [Manage Template](#)

[https://docs.versa-networks.com/Management\\_and\\_Orchestration/Versa\\_Director/Configuration/01\\_Director\\_GUI\\_Overview](https://docs.versa-networks.com/Management_and_Orchestration/Versa_Director/Configuration/01_Director_GUI_Overview)

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## Snapshots.

- Eye icon—Click to view the template configuration in CLI format.

```
{
  - snmp: {
    - agent: {
      enabled: "true",
      ip: "127.0.0.1",
      udp-port: "161"
    },
    - extra-listen: [
      - {
        ip: "1",
        udp-port: "161"
      }
    ],
    - version: {
      - @version: {
        - tags: [
          "replace"
        ]
      },
      - v1: [
        null
      ],
      - v2c: [
        ...
      ]
    }
  }
}
```

- Lock Scope and Locked By—Displays information if the template is locked. For more information, see [Manage Template Snapshots](#) and [Create and Manage Staging and Post-Staging Templates](#).

To perform operations on a template, click the box to the left of the template's name to enable operation icons in the horizontal menu bar.

Name	Organizations	Template Type	Metadata	Snapshots	View	Lock Scope	Locked By
<input checked="" type="checkbox"/> Branch1	Tenant1 Provider	SDWAN Post Staging	<input type="button"/>	<input type="button"/>	<input type="button"/>	<input type="button"/>	
<input type="checkbox"/> Branch2	Tenant1 Provider	SDWAN Post Staging	<input type="button"/>	<input type="button"/>	<input type="button"/>	<input type="button"/>	
<input type="checkbox"/> Branch3	Tenant1 Provider	SDWAN Post Staging	<input type="button"/>	<input type="button"/>	<input type="button"/>	<input type="button"/>	

You can perform the following operations:

- Filter Records—Click, and in the Filter Records popup window, select specific records to display.
- Add—While you can create a template on the screen, it is strongly recommended that you create templates on the Workflows tab.
- Delete—Click to delete the template. You are prompted to confirm the deletion request.

- Clone—Click to create a copy of the template. For more information, see [Create and Manage Staging and Post-Staging Templates](#).
- Import—Click to import a template. For more information, see [Create and Manage Staging and Post-Staging Templates](#).
- Lock and Unlock—Click to lock or unlock a template. For more information, see [Create and Manage Staging and Post-Staging Templates](#).
- Screen number box—Displays the screen number when information is displayed on multiple screens.
- Items per page box—Select the number of lines in the table to display on each screen.
- Column Sort—Click in each column head to change the column sort order.

## Configuration of Devices

To view existing devices, device groups, and device bind data, select the Configuration tab in the top menu bar, click Devices in the horizontal menu bar, and then select an item in the drop-down menu.

Name	Management Address	Tags	Type	Service Start Time	Software Version	Organizations	Status				
							Config Sync	Reachability	Service	Locked	
Branch1	192.169.0.4		Branch	Tue, Apr 18 2023, 13:40	22.1.1-GA	Tenant2,Tenant5,Tena...	<span style="color:red;">✗</span>	<span style="color:green;">✓</span>	<span style="color:green;">✓</span>	Up	<span style="color:blue;">🔗</span>
Controller1	10.40.233.210		Controller	Mon, Mar 27 2023, 14:24	22.1.1-GA	Tenant2,Tenant5,Tena...	<span style="color:green;">✓</span>	<span style="color:green;">✓</span>	<span style="color:green;">✓</span>	Up	<span style="color:blue;">🔗</span>
Controller2	10.40.233.211		Controller	Mon, Mar 27 2023, 14:24	22.1.1-GA	Tenant2,Tenant5,Tena...	<span style="color:green;">✓</span>	<span style="color:green;">✓</span>	<span style="color:green;">✓</span>	Up	<span style="color:blue;">🔗</span>
Demo-Branch1	192.169.0.8		Branch	Mon, Apr 17 2023, 19:08	22.1.1-GA - W...	Tenant2,Tenant5,Tena...	<span style="color:red;">✗</span>	<span style="color:green;">✓</span>	<span style="color:green;">✓</span>	Up	<span style="color:blue;">🔗</span>
Demo-Branch2	192.169.0.10		Branch	Mon, Apr 10 2023, 18:58	22.1.1-GA	Tenant2,Tenant5,Tena...	<span style="color:red;">✗</span>	<span style="color:green;">✓</span>	<span style="color:green;">✓</span>	Up	<span style="color:blue;">🔗</span>
Demo-DCBranch	192.169.0.18		Branch	Thu, Apr 06 2023, 11:58	22.1.1-GA - W...	Tenant2,Tenant5,Tena...	<span style="color:green;">✓</span>	<span style="color:green;">✓</span>	<span style="color:green;">✓</span>	Up	<span style="color:blue;">🔗</span>

For devices, the table in the main pane shows the following information:

- Name—Name of the device.
- Management Address—Management IP address of the device.
- Tags—Create, delete, or display tags to associate with the device.
- Type—Type of device, either Branch or Controller.
- Service Start Time—Time when the device started operating.
- Software Version—The software version running on the device.
- Organization—Organizations using the device.
- Status—Status information about the device:
  - Configuration Synchronized—Whether the configurations on the Director node and the device are synchronized (identical).
  - Reachability—Whether the device is reachable from the Director Note.

- Service—Whether Versa services are running on the device (Up or Down).
- Locked—Click to lock or unlock access to the device.

To perform operations on a device, click the box to the left of the device's name to enable operation icons in the horizontal menu bar.

The screenshot shows the Versa Director View Configuration page. At the top, there are tabs for Director View, Appliance View, and Template View. Below that is a navigation bar with Monitor, Configuration (which is selected), Workflows, Administration, and Analytics. On the far right, there are icons for a file, a help symbol, a user count (26), and Administrator. Below the navigation is a search bar and a dropdown for Organization (set to Tenant1). The main area displays a table of devices with columns for Name, Mgmt. Address, Tags, Type, Service Start Time, Software Versic, Organizations, and Status (Config Sync, Reachability, Service, Locked). The status column includes icons for each category. A red box highlights the first row of the table, specifically the icons in the Status column. The table shows six total appliances and one selected appliance.

Name	Mgmt. Address	Tags	Type	Service Start Time	Software Versic	Organizations	Status				
							Config Sync	Reachability	Service	Locked	
Branch1	192.169.0.4	0	Branch	Tue, Apr 18 2023, 13:40	22.1.1-GA	Tenant2,Tenant5,Tena...				Up	
Controller1	10.40.233.210	0	Controller	Mon, Mar 27 2023, 14:24	22.1.1-GA	Tenant2,Tenant5,Tena...				Up	
Controller2	10.40.233.211	0	Controller	Mon, Mar 27 2023, 14:24	22.1.1-GA	Tenant2,Tenant5,Tena...				Up	
Demo-Branch1	192.169.0.8	0	Branch	Mon, Apr 17 2023, 19:08	22.1.1-GA - W...	Tenant2,Tenant5,Tena...				Up	
Demo-Branch2	192.169.0.10	0	Branch	Mon, Apr 10 2023, 18:58	22.1.1-GA	Tenant2,Tenant5,Tena...				Up	
Demo-DCBranch	192.169.0.18	0	Branch	Thu, Apr 06 2023, 11:58	22.1.1-GA - W...	Tenant2,Tenant5,Tena...				Up	

You can perform the following operations:

- Add—Click to add a device.
- Delete—Click to delete the template. You are prompted to confirm the deletion request.
- CLI—Click to open the CLI on the device.
- Sync the Branch—Synchronize the configuration on the Director node with the VOS branch.
- Sync from Branch—Synchronize the configuration on the VOS branch with the Director node.
- Compare—Compare the configurations on the Director node and the VOS branch with each other, and copy the configuration differences.
- Clone—Click to create a copy of the configuration.
- Import and Export—Click to import or export a VOS branch configuration.
- Lock and Unlock—Click to lock or unlock a device configuration.
- Column Filter icon—Click to select the columns to display or hide.
- Filter Records icon—Click, and in the Filter Records popup window, select specific records to display.
- Screen number box—Displays the screen number when information is displayed on multiple screens.
- Items per page box—Select the number of lines in the table to display on each screen.

For device groups, the table in the main pane shows the following information:

- Name—Name of the device group.
- Organization—Organization to which the device group belongs.
- Contact Information—Email address and phone number of the person responsible for the organization.
- Members—Appliances and devices that are part of the device group.

On Devices > Device Bind Data, you can view and define variables for parameterized fields.

## Configuration of Objects

To view existing devices, device groups, and device bind data, select the Configuration tab in the top menu bar and hover over Devices in the horizontal menu bar. Then, click the Down arrow and select an item in the drop-down menu.

The screenshot shows the Versa Director View interface. The top navigation bar includes Director View, Appliance View, Template View, Monitor, Configuration (selected), Workflows, Administration, and Analytics. A notification badge with '31' is visible on the Configuration tab. The left sidebar has 'Templates' and 'Devices' sections, with 'Objects' selected, showing options like WAN Networks, DHCP Options Profiles, VPN Profiles, S2S Tunnels, Virtual Switches, Analytics Email Templates, and Analytics Notification Profiles. The main content area displays a table for 'DHCP Options Profile' with columns: Name, DNS Server, Next Server, Boot File, Netbios Name Server, Netbios Node Type, and Cust. One row is visible: 'works.com'. Navigation at the bottom indicates 'Showing 1 - 2 of 2'.

You can configure the following types of objects:

- WAN Networks—Associate WAN networks with transport domains. For more information, see [Configure Transport Domains and WAN Networks](#).
- DHCP Options Profiles—Configure and display DHCP options profiles. For more information, see [Configure DHCP](#).
- VPN Profiles (not shown in screenshot above)—Create and display VPN profiles, which are used with site-to-site tunnels. For more information, see [Create Device Templates](#) in the Configure Basic Features article.
- S2S Tunnels (not shown in screenshot above)—Create and display the site-to-site tunnels. For more information, see [Configure Site-to-Site Tunnels](#).
- Virtual Switches—Configure and display virtual switches, which are used with Layer 2 forwarding. For more information, see [Configure Layer 2 Forwarding](#).
- Analytics Email Templates—Define a template for emailing notifications from an Analytics node.
- Analytics Notification Profiles—Define a notification profile, which includes a list of email recipients, the name of an Analytics email template, and the frequency at which to send notifications from an Analytics node.
- Cloud Elastic Profile (not shown in screenshot above)—Configure and display the cloud elastic profiles that are associated with a cloud service provider. For more information, see [Configure Dynamic Versa Cloud Gateways](#).

## Configuration Tab in Appliance View

When you select the Configuration tab in Appliance view, the Select Appliance popup window displays, and then you select a device.

In Appliance view, the top menu bar shows the Monitor, Analytics, Configuration, and Administration tabs, and the horizontal menu bar shows an Appliance field that shows the device's name and allows you to select other devices.

The Appliance view screen has a left menu bar of configuration options that are organized into four groups of related

options. The options listed are generally the same on all Director nodes, but some options are available depending on the license subscription tier for the organization. In the left menu bar, click the down arrow to display more options in each list.

The following are the four option lists in the left menu bar:

- Networking—Configure networking properties, such as interfaces, VRRP, zones, routers and switches, class of service, and policy-based forwarding.



Director View Appliance View Template View

Monitor Analytics Configuration

Appliance Branch1 ▾ Organization Tenant1

Networking Services Objects & Connectors Others

Interfaces

WLAN

T1/E1 Auth

Networks

Virtual Wires

Global Routers

Virtual Routers

Virtual Switches

> IP-SLA

TWAMP

SaaS App Monitor

> VRRP

Zones

> DNS

LLDP

Zone Protection Profiles

> Class of Service

> DHCP

> PBF

> NPU

> Service Chains

- Services—Configure services, such as CGNAT, next-generation firewall (NGFW), IPsec, SD-WAN, web proxy, and captive portal.



Director View Appliance View Template View

Monitor Analytics Configuration

Appliance Controller1 ▾ Organization Tenant1

Networking Services Objects & Connectors Others

IPsec

- VPN Profiles
- Branch SDWAN Profile

SDWAN

- Application Detection
- SLA Profiles
- Forwarding Profiles
- Path Policies
- Traffic Engineering
- Policies

> System

- Site
- Controllers

Layer 2 SDWAN

- Application Detection
- SLA Profiles
- Forwarding Profiles
- Policies

Web Proxy

- Objects and Connectors—Configure objects, which are common network functions or service instances, such as address, address groups, schedules, and configure connectors, which are connections that allow traffic to flow from the selected device to another device.



Director View Appliance View Template View

Monitor Analytics Configuration

Appliance Branch1

Networking Services Objects & Connectors Others

Objects

- Address
- Address Groups
- MAC Addresses
- VLAN IDs
- Cloud File Export
- Persistent Actions
- Schedules
- Cloud Profiles
- > Predefined
- > Custom Objects
- SNAT Pool
- TCP Profile
- MDM Profile

Connectors

- > Reporting
- > SNMP
- > Users / Groups
- > Identity Proxy
- Certificate Manager

- Others—Configure miscellaneous properties, such as high availability, elasticity, alarms, and syslog servers.



Director View Appliance View Template View

Monitor Analytics Configuration Administration

Appliance Branch1

Networking Services Objects & Connectors ...

Organization

- ALG
- > Profiles
- Limits
- Settings
- Messaging Service
- Radius Servers
- Authentication Profile
- > dot1x
- Certificate Alarms Settings

System

- > Configuration
- Speed Test
- Domain Name Servers
- Security Package Updates
- > Time & Date
- Storage Configurations
- > Appliance User Manageme...

Elasticity

- Profile

Service Nodes

- Service Node Groups
- Service Node Group Clust...

Syslog Server

Alarms

Certificate Alarms Settings

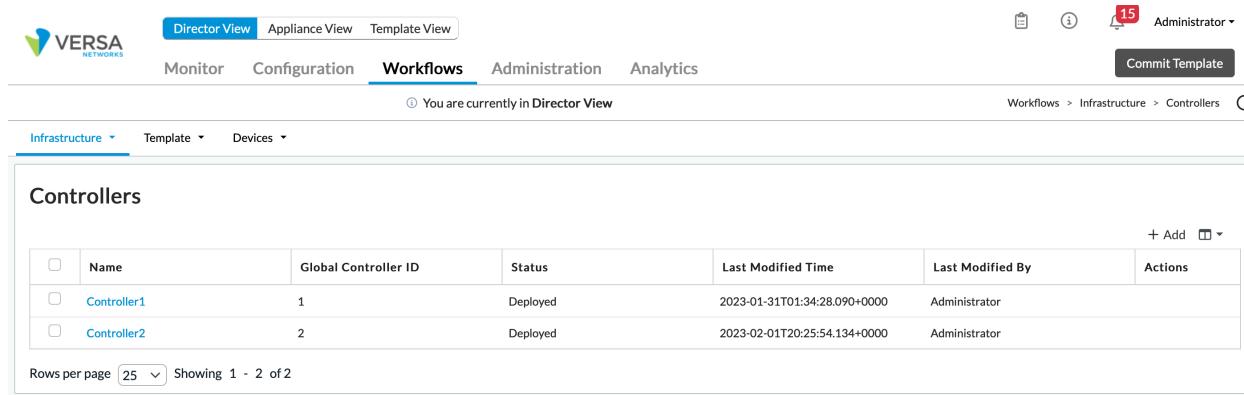
High Availability

Information Validation

> VNFs

## Workflows Tab

In Director view, you can select the Workflows tab. On the Workflows tab, you can view and configure network infrastructure components (Controller nodes and organizations), and you can view and create templates to use for configuring multiple VOS branch devices that have similar, identical, or nearly identical configurations.



The screenshot shows the Versa Director interface with the Workflows tab selected. The top navigation bar includes Director View, Appliance View, Template View, Monitor, Configuration, Workflows (selected), Administration, Analytics, and a user icon for Administrator (15 notifications). Below the navigation is a breadcrumb path: Workflows > Infrastructure > Controllers. A "Commit Template" button is visible. The main content area is titled "Controllers" and displays a table with two rows of data:

<input type="checkbox"/>	Name	Global Controller ID	Status	Last Modified Time	Last Modified By	Actions
<input type="checkbox"/>	Controller1	1	Deployed	2023-01-31T01:34:28.090+0000	Administrator	<a href="#">Edit</a>
<input type="checkbox"/>	Controller2	2	Deployed	2023-02-01T20:25:54.134+0000	Administrator	<a href="#">Edit</a>

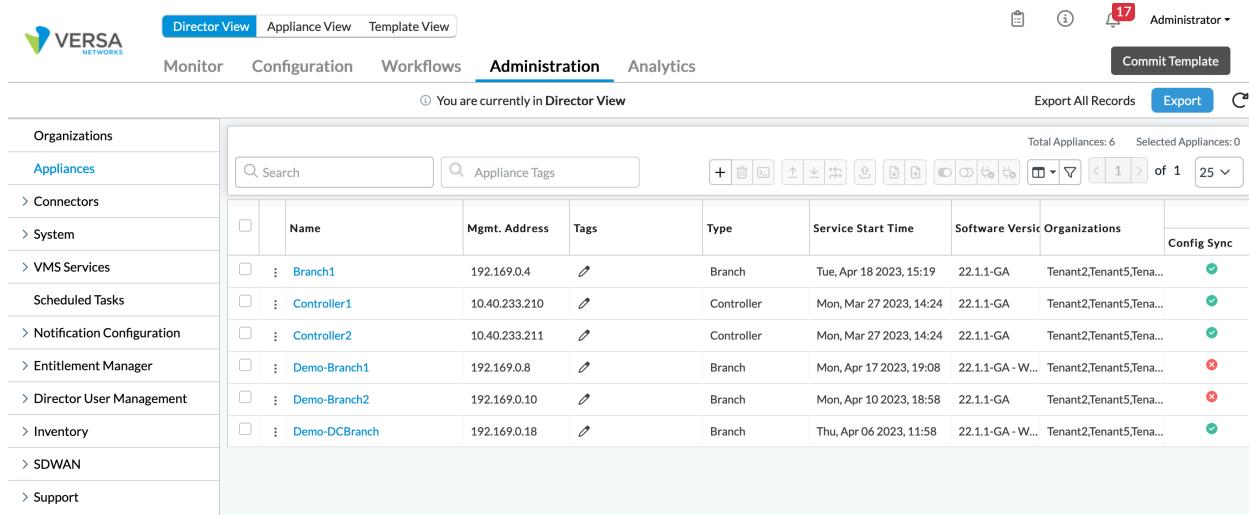
Below the table, there are buttons for "Rows per page" (set to 25) and "Showing 1 - 2 of 2".

The Workflows tab has the following options in the horizontal menu bar:

- Infrastructure
  - Controllers—Configure and deploy Controller nodes on the VOS device. For more information, see [Set Up an SD-WAN Controller](#) in the Perform Initial Software Configuration article.
  - Organizations—Configure customer organizations. For more information, see [Configure Basic Features](#).
- Template
  - Templates—Configure templates to use for staging VOS devices and for deploying VOS devices in production environments. For more information, see [Create and Manage Staging and Post-Staging Templates](#).
  - Application Steering—Configure application-steering templates, in which you create traffic categories, which are also called buckets, and define rules for handling the traffic that fall into those buckets. For more information, see [Create Application-Steering Templates](#).
  - Spoke Groups—Create spoke groups that help direct traffic between the Controller node and specific VOS branches or hubs. For more information, see [Create SD-WAN Spoke Groups](#).
  - Service Chains—Configure chains of service. For more information, see [Configure Service Chains](#).
- Devices
  - Devices—Associate device-specific service templates with a device. For more information, see [Overview of Configuration Templates](#).
  - Device Bind Data—For portions of the configuration that differ from device to device, such as IP addresses, you configure these as variables in the templates and then you bind them to the device when you send the configuration parameters from the Director node to the VOS device. The variables are called *bind variables*, and you define them in templates by *parameterizing* the value of the option.

# Administration Tab in Director View

In Director view, the screens on the Administration tab allow you to perform administrative tasks and some configuration tasks on the network and network devices.



The screenshot shows the Versa Director View interface with the 'Administration' tab selected. On the left, there is a navigation menu with items like 'Organizations', 'Appliances', 'Connectors', 'System', 'VMS Services', 'Scheduled Tasks', 'Notification Configuration', 'Entitlement Manager', 'Director User Management', 'Inventory', 'SDWAN', and 'Support'. The main pane displays a table of appliances. The columns include Name, Mgmt. Address, Tags, Type, Service Start Time, Software Version, Organizations, and Config Sync. There are 6 total appliances listed, with 0 selected. The table rows show various appliance types such as Branch, Controller, and Demo-Branch, along with their respective details and sync status.

The left menu bar in the main pane contains the following items:

- Organizations—View information about provider and customer (tenant) organizations. You can also modify some of the information. While you can add organizations from the Appliance tab, it is recommended that you create them from the Workflows tab. For more information, see [Configure Basic Features](#).
- Appliances—View information about appliances (VOS devices). You can also modify the information and create new VOS devices.
- Connectors—View and manage connectors for the local organization, CMS, authentication, syslog, Kafka, AQMP, and Analytics.
  - You associate CMS connectors with local provider and tenant organizations. For more information, see [Configure Basic Features](#).
  - You create CMS connectors to associate an AWS or Azure virtual machine (VM) with an organization, and when you create site-to-site tunnels. For more information, see [Install on AWS](#), [Install on Azure](#), and [Configure Site-to-Site Tunnels](#).
  - You configure connectors to link the Director node to authentication servers. For more information, see [Configure AAA](#).
  - You configure syslog connectors to export logging information. For more information, see [Configure Log Export Functionality](#).
  - You configure Versa Director to publish alarms and event notifications to an Apache Kafka server. For more information, see [Configure Kafka Connectors](#).
  - You use Advanced Message Queuing Protocol (AMQP) connectors when you enable event and object notifications and when you configure and connect to an AMQP server. For more information, see [Configure AMQP Notifications](#).
  - You configure connectors so that the Director and Analytics nodes can communicate with each other. For more information, see [Versa Analytics Configuration Concepts](#).

- System—Configure Director-wide properties for high availability (HA), authorization, NTP servers, static routes, DNS servers and domains, single sign-on (SSO), timezone, proxy settings, and secure upload settings. View systemwide information for device uptime, resource (disk) usage, license status, and southbound addresses. Upgrade the software on the Director node. For more information, see [Configure Systemwide Functions](#).
- Scheduled Tasks—View, edit, and delete scheduled tasks.
- Notification Configuration—Configure notifications for SMTP/SMS, webhook, and email. For more information, see [Enable SMS Text Messaging](#), [Configure Webhook Notifications for Alarms](#), and [Configure Notifications for Alarms](#).
- Entitlement Manager—Display license subscription information. For more information, see [Licenses and Entitlement](#) and [Configure Basic Features](#).
- Director User Management—Configure users, roles, and map roles to users on the Director node. For more information, see [Configure AAA](#).
- Inventory—Download software upgrade packages, configure hardware devices, and download security packages.
- SD-WAN—Configure global SD-WAN settings.
- Support—Access troubleshooting and support information.

## Administration Tab in Appliance View

In Appliance view, the screens on the Administration tab allow you to perform administrative tasks and some configuration tasks on individual devices.

	Organization Name	Services	Network	Subinterface
<input type="checkbox"/>	Provider	cgnat sdwan	WAN1	vni-0/0.0
<input type="checkbox"/>	Tenant2	default-sng		
<input type="checkbox"/>	Tenant5	default-sng		
<input type="checkbox"/>	Tenant4	default-sng		
<input type="checkbox"/>	Tenant3	default-sng		
<input type="checkbox"/>	Tenant1	default-sng		

## Analytics Tab

In Director view, when you select the Analytics tab in the top menu bar, you are redirected to an Analytics node (typically, one of the nodes in an Analytics cluster), where you can view real-time and historical device information and device system logging data (also called logs). For more information, see [Overview of Analytics Dashboards, Log Screens, and Reports](#).

In Appliance view, when you select the Analytics tab in the top menu bar, you are redirected to an Analytics node, and you can view dashboards and log screens that display information that applies only to the current appliance.

# Supported Software Information

Releases 22.1 and later support all content described in this article.

For information about the Director GUI for Releases 21.2 and earlier, see [Director GUI Overview \(for Releases 21.2 and Earlier\)](#).

## Additional Information

[Configure AAA](#)

[Configure AMQP Notifications](#)

[Create Application-Steering Templates](#)

[Configure Basic Features](#)

[Create and Manage Staging and Post-Staging Templates](#)

[Configure Email Notifications for Alarms](#)

[Configure Kafka Connectors](#)

[Configure Log Export Functionality](#)

[Configure Service Chains](#)

[Configure Site-to-Site Tunnels](#)

[Configure Systemwide Functions](#)

[Configure Webhook Notifications for Alarms](#)

[Create SD-WAN Spoke Groups](#)

[Director GUI Overview \(for Releases 21.2 and Earlier\)](#)

[Enable SMS Text Messaging](#)

[Install on AWS](#)

[Install on Azure](#)

[Licenses and Entitlement](#)

[Overview of Analytics Dashboards, Log Screens, and Reports](#)

[Overview of Configuration Templates](#)

[Perform Initial Software Configuration](#)

[Use Versa Chatbox](#)

[Versa Analytics Configuration Concepts](#)