

Monitor and Manage Devices in Customer Organizations

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

This article describes how to monitor the Versa Operating System™ (VOS™) devices in a customer (tenant) organizations that a Versa Director node is managing. It also describes and how to perform device- and configuration-related operations on the device from the Director node.

Display All VOS Devices

To display a list of all the VOS devices that a Director node is managing:

1. Select the Administration tab in the top menu bar.
2. Select Appliances in the left menu bar. The following screenshot shows that the Director node is managing seven VOS devices.

Monitor

Configuration

Workflows

Administration

Analytics

Commit Template

Organizations

Appliances

Connectors

System

Notification Config...

Entitlement Manager

Director User Mana...

Inventory

SDWAN

Support

Total Appliances : 7

Search

Display a Tenant's VOS Devices

1. Select the Monitor tab in the top menu bar.
2. Select a provider and a tenant (organization) in the left menu bar.
3. Select the Devices tab. The main pane displays the Controller and VOS devices in the customer organization. The Total Appliances field displays the number of VOS devices for the selected tenant. The screenshot below shows that the tenant Customer 1 has six VOS devices.

Name	Mgmt. Address	Type	Time Created	Service Start ...	Software Version	Site ID	Organizations	Sna...	Status			
									Config Synchr...	Reachability	Service	Locked
<input type="checkbox"/> SDWAN-Branch1	10.20.64.106	Branch	Tue, Jul 23 20...	Sun, Mar 28 2...	20.2.3-GA	106	Tenant1,Tenant2,Te...				Up	
<input type="checkbox"/> SDWAN-Branch2	10.20.64.104	Branch	Tue, Jul 23 20...	Sun, Mar 28 2...	20.2.3-GA	104	Tenant1,Tenant2,Te...				Up	
<input type="checkbox"/> SDWAN-Branch4	10.20.64.108	Branch	Tue, Jul 23 20...	Sun, Mar 28 2...	20.2.3-GA	108	Tenant1,Tenant2,Te...				Up	
<input type="checkbox"/> SDWAN-Branch5	10.20.64.101	Branch	Tue, Jul 23 20...	Mon, Mar 29 ...	20.2.3-GA	101	Tenant1,Tenant2,Te...				Up	
<input type="checkbox"/> SDWAN-Controller1	10.48.80.11	Controller	Tue, Jul 23 20...	Sun, Mar 28 2...	20.2.3-GA	1	Tenant1,Tenant2,Te...				Up	
<input type="checkbox"/> SDWAN-Controller2	10.48.80.12	Controller	Tue, Jul 23 20...	Sun, Mar 28 2...	20.2.3-GA	2	Tenant1,Tenant2,Te...				Up	

- To perform an action for a device, select the device by clicking the checkbox to the left of the device name.
- In the Total Appliances horizontal bar, select an action to perform for a device. The action icons shown in the red box become active. The remaining sections in this article describe each of the actions.

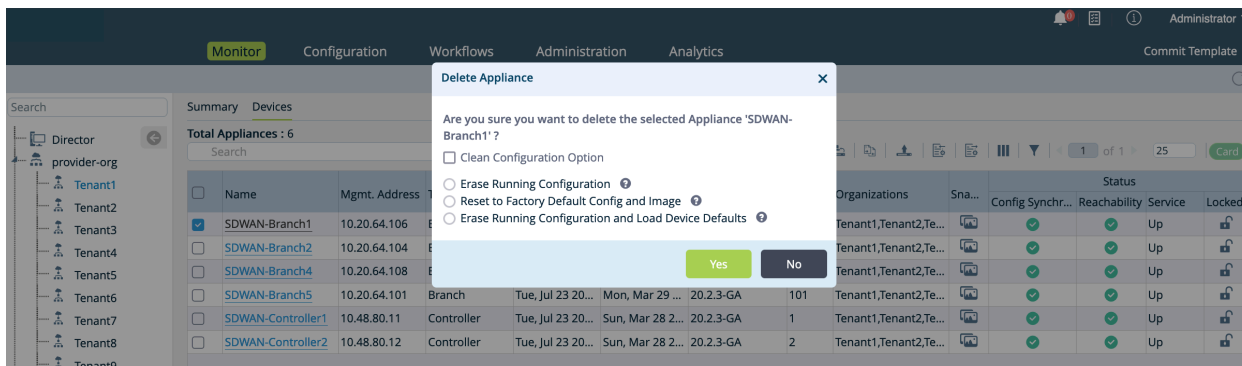
Name	Mgmt. Address	Type	Time Created	Service Start ...	Software Version	Site ID	Organizations	Sna...	Status			
									Config Synchr...	Reachability	Service	Locked
<input checked="" type="checkbox"/> SDWAN-Branch1	10.20.64.106	Branch	Tue, Jul 23 20...	Sun, Mar 28 2...	20.2.3-GA	106	Tenant1,Tenant2,Te...				Up	
<input type="checkbox"/> SDWAN-Branch2	10.20.64.104	Branch	Tue, Jul 23 20...	Sun, Mar 28 2...	20.2.3-GA	104	Tenant1,Tenant2,Te...				Up	
<input type="checkbox"/> SDWAN-Branch4	10.20.64.108	Branch	Tue, Jul 23 20...	Sun, Mar 28 2...	20.2.3-GA	108	Tenant1,Tenant2,Te...				Up	

Add a Device

To add a VOS device, click the Add icon. It is recommended that you use this action only to create the ServiceVNF device. You should create all other devices using the Workflows menu. For more information, see [Create Devices and Device Groups](#).

Delete a Device

To delete a VOS device from the Versa Director or to modify a device's configuration, select the VOS device and then click the Delete icon.




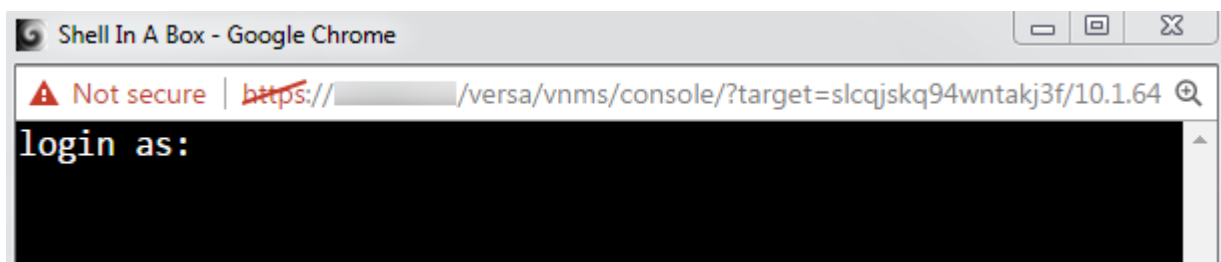
To delete the VOS device from the Versa Director, do not click any options and then click Yes.

To modify the VOS device's configuration, click one or more of the following options and then click Yes:


- Clean Configuration—Clean up the VOS device's configuration.
- Erase Running Configuration—Delete the configuration currently running on the VOS device.
- Reset to Factory Default Configuration and Image—Reset set the configuration and software image currently running on the VOS device to the factory-default configuration and image.
- Erase Running Configuration and Load Device Defaults—Delete the configuration currently running on the VOS device and load a configuration that contains the VOS device default values.

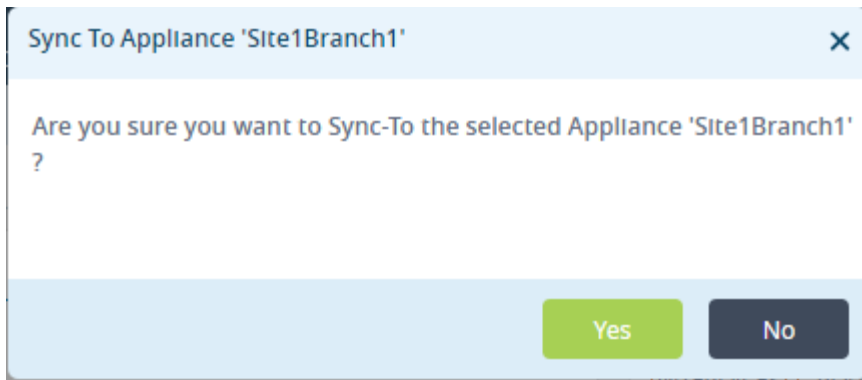
Open a Shell To Access the CLI

To open a remote console connection through the SD-WAN network, select the VOS device and click the  Appliance Shell icon. The console provides access to the CLI, which you can use to view the device's configuration and perform low-level debugging.




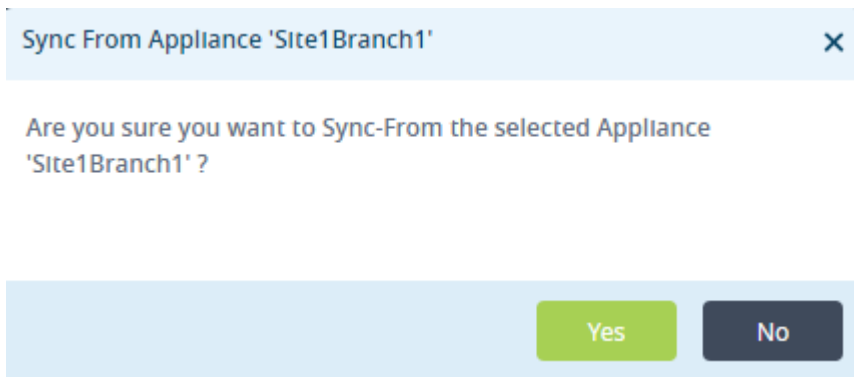
Synchronize the Configuration to the Device

To synchronize the configuration from the Versa Director database to the selected VOS device, select the device and click the  Sync to Appliance and then click Yes.




Synchronize the Configuration from a Device

To synchronize the configuration from a VOS device to the Versa Director database, select the device and click the  Sync from Appliance icon and then click Yes.




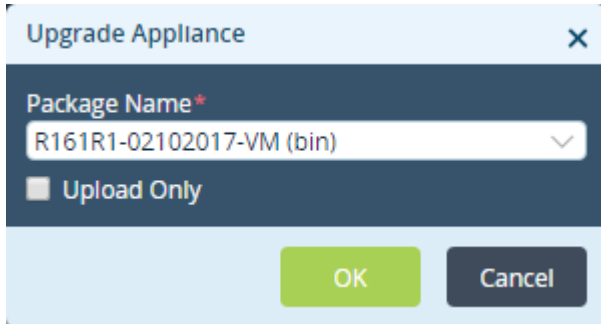
Compare Configuration with the Device

To compare a VOS device's configuration in the Versa Director database with the configuration present on the VOS device, select the device and click the  Compare Configuration with Appliance icon. The Compare Configuration Details popup window displays. The following example shows that the configuration in the Versa Director database and on the VOS device are identical.




Upgrade the Device

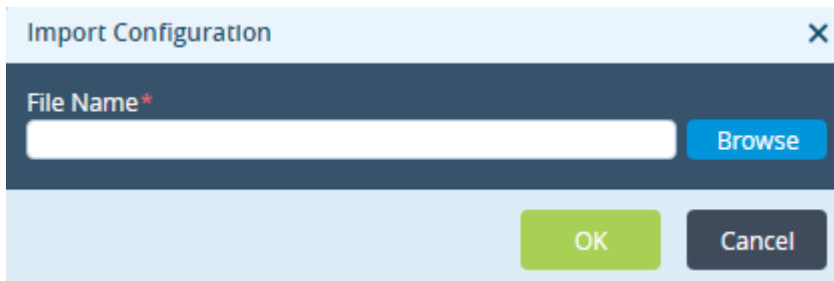
To upgrade the software package running on the VOS device, select the device and click the  Upgrade Selected Appliances icon. In the Upgrade Appliance popup window, select the software package name and then click OK to upload the software package and upgrade the device. To upload the software package but not upgrade the device, and then click OK, click Upload Only.



The screenshot shows a dialog box titled "Upgrade Appliance" with a close button (X) in the top right corner. Inside the dialog, there is a "Package Name*" label followed by a dropdown menu showing "R161R1-02102017-VM (bin)". Below this, there is a checkbox labeled "Upload Only" which is currently unchecked. At the bottom of the dialog, there are two buttons: "OK" (green) and "Cancel" (dark blue).


Import the Device Configuration from a File

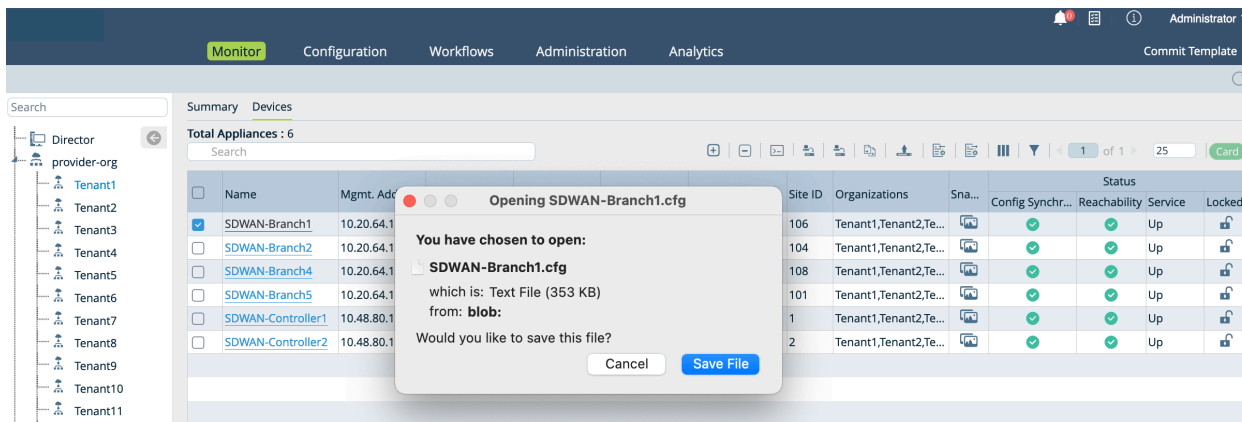
To import a VOS device's configuration from a configuration file, select the device and click the  Import icon. Click Browse, select the configuration file, and then click OK.




The screenshot shows a dialog box titled "Import Configuration" with a close button (X) in the top right corner. Inside the dialog, there is a "File Name*" label followed by a text input field. To the right of the input field is a blue button labeled "Browse". At the bottom of the dialog, there are two buttons: "OK" (green) and "Cancel" (dark blue).

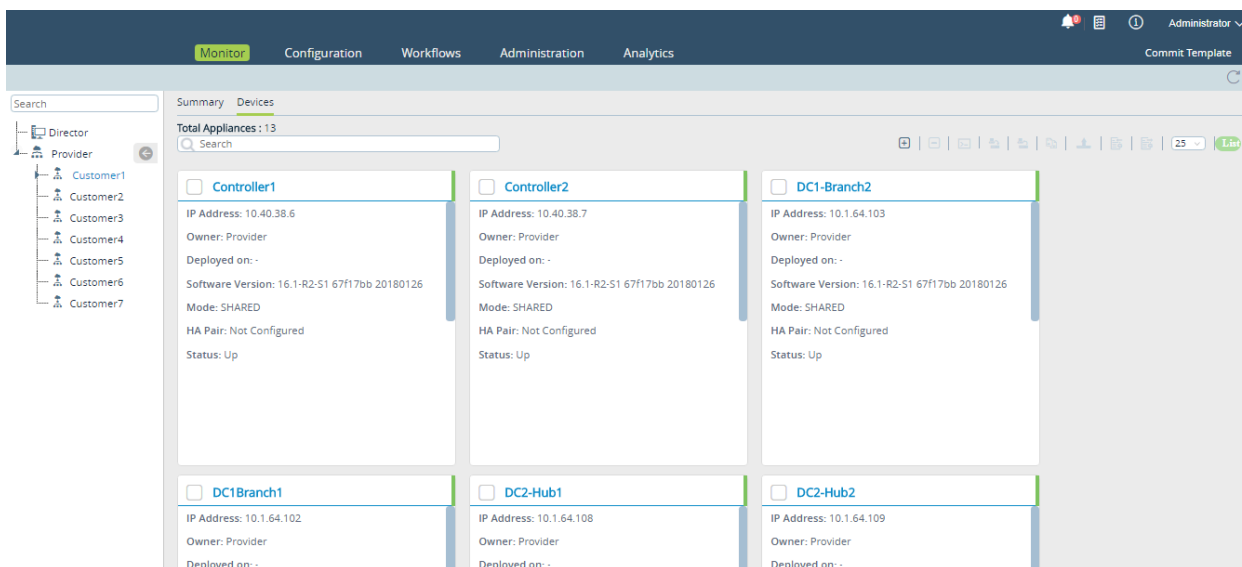
Export the Device Configuration to a File


To export a VOS device's configuration to a file, select the VOS device and click the  Export icon. The file is downloaded to the local system.



Display Devices in Card View

To display the VOS devices in the card view, click the  Card icon.



Click the  List button to go back to the list view.

View Details about Devices Connected to WiFi and LTE

1. Select the Monitor tab in the top menu bar.
2. Select a provider and a customer (organization) in the left menu bar.
3. Select the Devices tab. The main pane displays the Controller and VOS devices in the customer organization.

Search

Director

Provider

Customer-1

Customer-2

Summary

Devices

Total Appliances : 9

Search

Home

BMHOME

Build

Search

Summary Services System Tools

Shell

Config Status

Upgrade

Subscription

BMH

BMHOME : 172.16.0.24

Location USA

Reachable

CPE Interfaces

☐ LTE and Wifi

Interface	Network Name	Service Provider	Status		Live Data	Configured	Bandwidth (Mbps)				Measure
			Operational	Admin			Measured				
vni-0/0.0	Internet	COMCAST-7922	↑	↑	<input type="checkbox"/>		↑ 0.00	↓ 0.00			Measure
vni-0/200.0	LAN	-	📶	↑	<input type="checkbox"/>		↑ 0.00	↓ 0.00			Measure

Summary

Services

System

Tools

Desk-Spoke-Silicom-Wifi

Location

42 Princeton Avenue,Phoenix,AZ, USA 85021

Mgmt. Address

10.8.64.142

CPE Interfaces

vni-0/100 - LTE

vni-0/200 - WiFi

vni-0/201 - WiFi

vni-0/202 - WiFi

vni-0/203 - WiFi

vni-0/204 - WiFi

vni-0/205 - WiFi

vni-0/206 - WiFi

vni-0/207 - WiFi

Wi-Fi

Network Name(SSID): Milky Way-1

Security Mode: wpa2-psk

Channel: 6 (2437 MHz), 20 MHz

Clients Connected: 1

Details

Max Client Limit: -

LAN Info

IP/Mask: 192.168.1.1/24

Mac Addr: 04:fo:21:36:da:e0

Tx Bytes: 2,130

Rx Bytes: 269,662

Total Bytes: 271,792

Device

IP Addr

Mac Addr

Tx(Bytes)

Rx(Bytes)

SNR

Up Time

Signal Strength

My-Phone

192.168.1.3

6c:72:e7:b9:6c:d7

12,938

54,663





63 db

00:00:29

Summary Services System Tools

Desk-Spoke-Silicom-Wifi Location 42 Princeton Avenue,Phoenix,AZ, USA 85021 Mgmt. Address 10.8.64.142

CPE Interfaces ☒ LTE and Wifi

vni-0/100 - LTE	 <p>Status: Connected APN: we01.vzwstatic Current Tech: lte Signal Strength(RSRP): -102.00 dBm Signal Strength(Rq): 52 Operator ID: 311480 Operator Name: Verizon Wireless Signal Strength(RSRQ): -12.00 dB Signal Strength(RSSQ): -81.00 dBm Signal To Noise Ratio: 14.20 dB</p>	 <p>IP/Mask: 166.164.135.188/29 Gateway: 166.164.135.189 ISP DNS: 198.224.173.135 Mac Addr: 02:aa:bb:cc:dd:01</p>
vni-0/200 - WIFI		
vni-0/201 - WIFI		
vni-0/202 - WIFI		
vni-0/203 - WIFI		
vni-0/204 - WIFI		
vni-0/205 - WIFI		
vni-0/206 - WIFI		
vni-0/207 - WIFI	 <p>HW Vender Name: Sierra Wireless, Inc. HW Model Name: Sierra_Wireless_MC7455_Qualco IMEI: 359072061727117 IMSI: 6692511115 Vendor ID: 1199 Product ID: 9071 USB Modem: undefined</p>	 <p>Tx Bytes: 902,996,456 Rx Bytes: 287,756,517 Total Bytes: 1,190,752,973 Uptime: 18:05:59</p>

6. Select the interface to view the details of the WiFi and LTE users and parameters.

Supported Software Information

Releases 20.2 and later support all content described in this article.

Additional Information

[Access the CLI on a VOS Device](#)

[Configure Basic Features](#)

[Configure WiFi](#)

[Monitor VOS Devices and Organizations](#)

[Monitor VOS Devices in Real Time](#)

[Upgrade Software on Headend and Branch](#)