

Configure Organization Limits

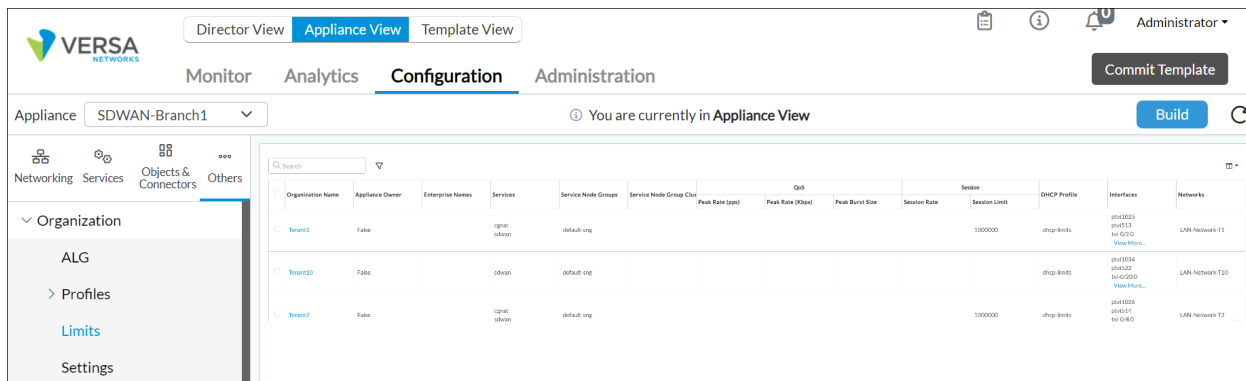
 For supported software information, click [here](#).

You can set organization-specific (tenant-specific) quality of service (QoS) limits, and you can limit the interfaces, networks, routing instances, and provider organizations for data traffic for a specific organization. For Releases 22.1.3 and later, you can configure policers on ingress interfaces. You configure organization settings for each organization in a single tenant or for a multitenant setup.

This article describes how to configure organization limits and how to monitor policers on ingress interfaces.

Configure Organization Limits

1. In Director view:
 - a. Select the Administration tab in the top menu bar.
 - b. Select Appliances in the left menu bar.
 - c. Select a device name in the main panel. The view changes to Appliance view.
 - d. Select an organization.
2. Select the Configuration tab in the top menu bar.
3. Select Others > Organization > Limits in the left menu bar. The main pane displays the organizations associated with the Controller node.



The screenshot shows the Versa Networks Director interface. The top navigation bar includes 'Director View', 'Appliance View', and 'Template View'. The left sidebar shows the 'Configuration' tab selected, with 'Others' expanded to show 'Organization' > 'Limits'. The main pane displays a table of organizations associated with the Controller node.

Organization Name	Appliance Owner	Enterprise Names	Services	Service Node Groups	Service Node Group Chid	QoS	Session	DHCP Profile	Interfaces	Networks
Tenant1	False	cdm	cdm	default-ong		Peak Rate (gbit)	Peak Rate (Mbit)	Peak Burst Size	Session Rate	Session Limit
Tenant20	False	cdm	cdm	default-ong						
Tenant2	False	cdm	cdm	default-ong						

4. Click an organization name in the main pane. The Edit Organization Limit popup window displays.

Edit Organization Limit - Tenant1

General

Traffic Identification

Resources

Services

QoS

Organization Name

Tenant1

Description

DHCP

Profile

dhcp-limits

Session

Rate

Limit

1000000

Fragment Reassembly

Enterprise Names

Enterprise Names Not Configured

Domain Names

Domain Names Not Configured

Gateway FQDN

Gateway FQDN Not Configured



Group FQDN

Group FQDN Not Configured

OK

Cancel

5. Select the General tab, and then enter information for the following fields.

Field	Description
Organization Name	Displays the name of the organization.
Description	Enter a text description for the organization.
DHCP	Select a DHCP profile. For more information, see Configure DHCP .
Session (Group of Fields)	Enter organization limits related to sessions.
<ul style="list-style-type: none"> Rate 	Enter the maximum data exchange rate. <i>Range:</i> 16 through 4294967295 <i>Default:</i> 1000000
<ul style="list-style-type: none"> Limit 	Enter the maximum number of sessions allowed. For more information, see Configure Service and Session Options . <i>Range:</i> 1 through 5000000 (5 million) <i>Default:</i> 1000000 (1 million)
Fragment Reassembly	(For Releases 22.1.1 and later.) Click to disable the reassembly of fragmented packets received by the organization. By default, fragment reassembly is enabled.
Enterprise Names	Click the  Add icon and select the name of an enterprise that is in the organization.
Domain Names	Click the  Add icon and select the name of a domain that is in the organization.
Gateway FQDN	Enter the gateway fully qualified domain name (FQDN) of the organization. Each organization can have up to eight gateway FQDNs. Each gateway FQDN must be unique.
Group FQDN	Enter the gateway group FQDN of the organization. Each organization can have up to eight gateway group FQDNs.

6. Select the Traffic Identification tab, and enter information for the following fields.

Edit Organization Limit - Tenant1

General

Traffic Identification

Resources

Services

QoS

☐ Interfaces

+

🗑

🔗

☐ ptvi1025

☐ ptvi513

☐ Networks

+

🗑

🔗

☐ LAN-Network-T1

OK

Cancel

Field	Description
Interfaces	Click the + Add icon and select the name of an interface that is part of the organization.
Networks	Click the + Add icon and select the name of a network that is part of the organization.

7. Select the Resources tab, and enter information for the following fields.

Edit Organization Limit - Tenant1

General

Traffic Identification

Resources

Services

QoS

☐ Available Routing Instances

+

🗑

🔗

☐ Tenant1-Control-VR

☐ Tenant1-LAN-VR

☐ Owned Routing Instances

+

🗑

🔗

☐ Tenant1-Control-VR

☐ Tenant1-LAN-VR

!

Please select newly added Routing Instance from Available Routing Instance before selecting in Owned Routing Instance

☐ Available Provider Organizations

+

🗑

🔗

☐ provider-org

☐ Available Networks

+

🗑





🔗

☐ LAN-Network-T1

☐ WAN1

OK

Cancel

Field	Description
Available Routing Instances	Click the  Add icon and select the name of a routing instance that is part of the organization.
Owned Routing Instances	Click the  Add icon and select the name of a routing instance that is owned by the organization.
Available Provider Organizations	Click the  Add icon and select the name of a provider organization that is available for the organization to use.
Available Networks	Click the  Add icon and select the name of a network that is available for the organization to use.

8. Select the Services tab, and enter information for the following fields.

Edit Organization Limit - Tenant1

General




Traffic Identification

Resources

Services




QoS

Available Service Node Groups




default-sng

Available Service Node Group Cluster

Available Service Node Group Cluster Not Configured

Services

cgnat

sdwan

OK

Cancel

Field	Description
Available Service Node Groups	Click the + Add icon and select the name of a service node group (SNG) that is part of the organization.
Services	Click the + Add icon and select the name of a service that is available for the organization to use.
Available Service Node Group Cluster	Click the + Add icon and select the name of an SNG cluster service that is part of the organization.

9. Select the QoS tab, and enter information for the following fields.

Edit Organization Limit - Tenant1

General
Traffic Identification
Resources
Services
QoS

Peak Rate (pps)

Peak Rate (Kbps)

Peak Burst Size

Shared Interfaces



Interface *	Shaping Rate *	Burst Size (Bytes)	
--Select--	<input type="text"/>	<input type="text"/>	+
No Records to Display			



Ingress Interface Policer

Interface *	Peak Rate (Kbps) *	Peak Burst Size	
--Select--	<input type="text"/>	<input type="text"/>	+
vni-0/0.0	25000	50000	
vni-0/2.0	4000	15000	

OK

Cancel

Field	Description
Peak Rate	<p>Enter the ingress peak rate in packets per second (pps) for the organization.</p> <p><i>Range:</i> 1 through 4294967295 pps</p> <p><i>Default:</i> None</p>
Peak Rate	<p>Enter the peak ingress rate in kilobits per second (kbps) for the organization.</p> <p><i>Range:</i> 64 through 4294967295 kbps</p> <p><i>Default:</i> None</p>
Peak Burst Size	<p>Enter the maximum burst size, in bytes per second.</p> <p><i>Range:</i> 128 through 524288 bytes per second.</p> <p><i>Default:</i> None</p>
Shared Interfaces (Group of Fields)	
◦ Interface (Required)	Select an interface in the organization on which to enable tenant-based shaper.
◦ Shaping Rate (Required)	<p>Enter the shaping rate, in kilobytes per second (Kbps).</p> <p><i>Range:</i> 8 through 10000000 Kbps</p> <p><i>Default:</i> None</p>
◦ Burst Size	<p>Enter the burst size, in bytes.</p> <p><i>Range:</i> 1000 through 4294967295 bytes</p>
 Add icon	Click the  Add icon to add the QoS shared interface configuration for the organization.
Ingress Interface Policer (Group of Fields)	(For Releases 22.1.3 and later.) Configure a policer on an ingress interface. Note that when you configure

	an ingress interface policer, all branches must be running Releases 22.1.3 or later.
◦ Interface (Required)	Select an interface in the organization on which to configure the ingress policer.
◦ Peak Rate (Required)	Enter the peak ingress rate, in kilobits per second (kbps), for the tenant and interface. <i>Range:</i> 64 through 4294967295 kbps <i>Default:</i> None
◦ Peak Burst Size	Enter the maximum burst size, in bytes per second. <i>Range:</i> 128 through 524288 bytes per second. <i>Default:</i> None
 Add icon	Click the  Add icon to add the QoS ingress interface policer configuration for the organization.

10. Click OK.

To mitigate packet drops caused by microbursts of traffic, you can issue the **request system isolate-cpu enable** CLI command on all branches, including the remote branch that sends traffic to the branch on which the ingress interface policer is configured. This command isolates the CPU, which optimizes the platform's performance. After you issue this command, you must reboot the device.

Monitor the Ingress Interface Policer

For Releases 22.1.3 and later.

1. In Director view, select the Monitor tab in the top menu bar.
2. Select the Devices tab in the horizontal menu bar.
3. In the table in the main pane, click the name of an organization. The view changes to Appliance view.

The screenshot shows the Versa Networks Director View interface. The top navigation bar includes tabs for Director View, Appliance View, and Template View. Below this, there are tabs for Monitor, Configuration, Workflows, Administration, and Analytics. The Organization is set to 'provider-org'. The main content area shows a list of appliances with columns for Name, Mgmt. Address, Tags, Type, Service Start Time, Software Version, Organizations, Config Sync, and Reachability. The table lists several SDWAN appliances and a controller.

	Name	Mgmt. Address	Tags	Type	Service Start Time	Software Version	Organizations	Config Sync	Reachability
<input type="checkbox"/>	Ashish-DUT	10.0.0.18	tag1	Branch	Wed, Nov 01 2023, 18:15	22.1.3-GA	provider-org	Unknown	
<input type="checkbox"/>	SDWAN-Branch1	10.0.0.14		Branch	Mon, Oct 16 2023, 14:55	22.1.3-GA	Tenant2,Tenant4,Tena...	✓	
<input type="checkbox"/>	SDWAN-Branch2	10.0.0.12		Branch	Mon, Oct 16 2023, 14:43	22.1.3-GA	Tenant2,Tenant4,Tena...	✓	
<input type="checkbox"/>	SDWAN-Branch4	10.0.0.16		Branch	Mon, Oct 16 2023, 14:19	22.1.3-GA	Tenant2,Tenant4,Tena...	✓	
<input type="checkbox"/>	SDWAN-Branch5	10.0.0.8		Branch	Mon, Oct 16 2023, 15:11	22.1.3-GA	Tenant2,Tenant4,Tena...	✓	
<input type="checkbox"/>	SDWAN-Controller1	10.40.226.86		Controller	Mon, Oct 23 2023, 18:36	22.1.3-GA	Tenant1,Tenant2,Tena...	✓	

4. Select Networking > CoS > Ingress Interface Policer in the horizontal menu bar to monitor the ingress interface policer statistics.

The screenshot shows the Versa Networks Appliance View interface for 'SDWAN-Branch1'. The top navigation bar includes tabs for Director View, Appliance View, and Template View. Below this, there are tabs for Monitor, Analytics, Configuration, and Administration. The Organization is set to 'provider-org'. The main content area shows details for 'SDWAN-Branch1', including its location, management address, and system bridge address. The 'Networking' tab is selected, and the 'COS' sub-tab is highlighted. The 'Ingress Interface Policer' is visible in the sub-menu.

SDWAN-Branch1 | 1 Hacker Way, Menlo Park, CA, USA 94025
Mgmt. Address: 10.0.0.14
System Bridge Address: 0A:28:E2:4F:01:00

Summary Services **Networking** System Tools

Configuration Shell Config Status Upgrade Subscription

Interfaces Routes BGP OSPF OSPFv3 BFD DHCP DNS Proxy **COS** VRRP LEF ARP IP-SLA PIM IGMP 80 < >

App QoS Policies **Ingress Interface Policer** Interfaces Per User Policer QoS Policies

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Supported Software Information

Releases 20.2 and later support all content described in this article, except:

- Releases 22.1.1 adds support for fragment reassembly.
- Releases 22.1.3 adds support for ingress interface policers.

https://docs.versa-networks.com/Secure_SD-WAN/01_Configuration_from_Director/Common_Configuration/Configure_Organ...

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Additional Information

[Configure Basic Features](#)

[Configure CoS](#)

[Configure Service and Session Options](#)