Configure SD-WAN Sites

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

Typically, sites are locations or offices of a provider and its customers. You define the sites for a Controller node and WAN interfaces that are used for that organization. You configure sites for the following:

- System
- Provider tenant
- Customer tenants

Configure a Systemwide Site

1. In Director view:
    a. Select the Configuration tab in the top menu bar.
    b. Select Devices > Devices in the horizontal menu bar.
    c. Select an organization in left navigation bar.
    d. Select a Controller node in the main pane. The view changes to Appliance view.
2. Select the Configuration tab in the top menu bar.
3. Select Services > SD-WAN > System > Site Config in the left menu bar.

4. Click the Edit icon, and in the Edit Site Config popup window, enter information for the following fields.

Edit Site Config

Site Type *
Branch

Site ID *
101

Chassis ID *
abc1

Provider Org *
Provider-ORG

Paired Site Location ID

☐ Hot Standby

WAN Interfaces   + 🗑 ▦ ▽ ‹ 1 › 25 ∨

☐ Interfaces	Circuit Name		Service Provider	Type
	IPv4	IPv6		
☐ vni-0/0.0	BR-WAN			
☐ vni-0/1.0	BR-WAN-RAS			

OK   Cancel

Field	Description
Site Type (Required)	Select Controller or Hub Controller as the type of site.
Site ID (Required)	Enter the site identifier.
Chassis ID (Required)	Enter the chassis identifier.
Provider Organization (Required)	Select a provider organization.
Paired Site Location ID	(For Releases 20.2 and later.) Enter the location ID.
Location ID	(For releases prior to Release 20.2.) Enter the location identifier for a paired CPE device. For more information, see Configure Paired CPE Devices and Location IDs.

5. Select the WAN Interfaces tab, and click the + Add icon. In the Add WAN Interfaces popup window, enter information for the following fields.

Add WAN Interfaces   ✕

Interfaces *

| tvi-0/602.0 ▾ |

Description

| |

| ☐ **Transport Domain** | + 🗑 |

Transport Domain Not Configured

Type

| --Select-- ▾ |

Service Provider

| |

Path MTU Aging Time (seconds)

| |

Media

| --Select-- ▾ |

Inter Chassis Link

| --Select-- ▾ |

Circuit Tags

| |

IPv4 IPv6

Circuit Name

| |

Public IP Address

| |

NAT Traversal

Interval

| |

| **OK** | **Cancel** |

Field	Description
Interface	Select the WAN interface.
Description	Enter a text description for the WAN interface.
Transport Domain	Click the $+$ Add icon and select a transport domain.
Type	Select the WAN interface type: ◦ Broadband ◦ IP ◦ MPLS
Media	Select the WAN interface media type: ◦ Cable ◦ DSL ◦ Ethernet ◦ LTE ◦ T1 ◦ T3
Service Provider	Enter the name of the service provider.
Interchassis Link	Select the type of interchassis link: ◦ Active-active ◦ Active-standby ◦ None
Path MTU Aging Time	(For Releases 21.2.1 and later.) Enter the path MTU aging time, in seconds, after which the process expires. A new probe is initiated within this interval to keep the record fresh. *Range*: 300 through 4294967295 seconds *Default*: None
Circuit Tags	Enter circuit tags, if desired.

IPv4 (Tab)	
◦ Circuit Name	Enter the name of the circuit.
◦ Public IP Address	Enter the public IP address for the WAN interface.
NAT Traversal Interval	Enter the NAT traversal interval
IPv6 (Tab)	
◦ Circuit Name	Enter the name of the circuit.

6. Click OK.

Configure a Provider or Customer Tenant Site

1. In Director view:
    a. Select the Configuration tab in the top menu bar.
    b. Select Devices > Devices in the horizontal menu bar.
    c. Select a provider organization in left navigation bar to configure a provider tenant site, or select a tenant organization to configure a customer tenant site.
    d. Select a Controller node in the main pane. The view changes to Appliance view.
2. Select the Configuration tab in the top menu bar.
3. Select Services > SD-WAN > System > Site Configuration in the left menu bar.

4. Click the ✎ Edit icon, and in the Edit Site Configuration popup window, enter information for the following fields.

Edit Site

Site Name *

Test-Controller

Global Tenant ID *

1

Management Routing Instance

Provider-ORG-Control-VR

Provider Organization

--Select--

End To End SLAM Policy

--Select--

☐ Group Membership	+ 🗑
Group Membership Not Configured	

☐ VNF manager	+ 🗑
☐ 192.168.100.1/32	

WAN Interfaces

+ 🗑 ▦ ▽ ‹ 1 › 25 ⌄

☐	Interfaces	SLA Monitoring	Bandwidth Monitoring
☐	vni-0/1.0	SLAM_Policy_vni-0/1.0	

OK   Cancel

Field	Description
Site Name (Required)	Enter a name for the site. The name can be up to 32 characters.
Global Tenant ID (Required)	Enter the identifier of the global tenant that connects the Controller node to a tenant. *Range:* 1 through 511
Management Routing Instance	Select the Controller node's management routing instance.
Provider Organization	Select the provider organization to associate with the site.
End-to-End SLAM Policy	Select the end-to-end data-driven SLA monitoring path policy to apply to the site.
Group Membership	For a hub, click the + Add icon and enter the name of the group that the hub is a member of.
VNF Manager	Click the + Add icon and enter the IP address of a VNF manager.

5. In the WAN Interfaces field, click the + Add icon to add a WAN interface. In the Add WAN Interfaces popup window, enter information for the following fields.

Field	Description
Interfaces	Select the WAN interface.
Encryption	Select when to use encryption on the WAN interface: ◦ Always ◦ Never ◦ Optional
Shaping Rate (Group of Fields)	
◦ Rate (kbps)	Click to enter the shaping rate in kbps, and then enter information for the following fields: ◦ Input Rate—Enter the input rate, in kbps. ◦ Minimum Input—Enter the minimum rate, in kbps.
◦ Rate (%)	Click to enter the shaping rate as a percentage of the interface bandwidth, and then enter information for the following fields: ◦ Input Rate—Enter the input rate, as a percentage. ◦ Minimum Input—Enter the minimum rate, as a percentage.
Management Traffic	
◦ Priority	Enter a priority value for each of the WAN links used for management traffic. A lower value signifies a higher priority to use that link. *Range:* 0 through 15 *Default:* 0 (use all available links)
SLA Monitoring Policy	
◦ SLA Monitoring	Select the end-to-end data-driven SLA monitoring path policy to use for SLA monitoring.
Bandwidth Monitoring Policy	

◦ Bandwidth Monitoring	Select the end-to-end data-driven SLA monitoring path policy to use for bandwidth monitoring.

6. Click OK twice.

Supported Software Information

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

- For Releases 21.2.1 and later, you can configure a path MTU aging timer on WAN interfaces for a systemwide site.

Additional Information

[Configure Adaptive Shaping](#)
[Configure Basic Features](#)
[Configure Paired CPE Devices and Location IDs](#)