L2VPN Commands

l2vpn sdwan instance

To configure an L2VPN instance on an Cisco IOS XE Catalyst SD-WAN device, use the **l2vpn sdwan instance** command in global configuration mode. To remove the configured L2VPN instance, use the **no** form of this command.

l2vpn sdwan instance *instance-id* { **multipoint** | **point-to-point** }

Syntax Description		
	instance-id	A unique number that identifies the VPN or VRF instance. It must be same on the edge devices participating in the Layer 2 domain. Range: 1 to 65531
	multipoint	(Optional) Specifies multipoint as the instance type for connecting multiple sites within the same instance.
	point-to-point	(Optional) Specifies point-to-point as the instance type for a direct connection between two edge devices.

Command Default None

Command Modes Global configuration (config)

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.14.1a	This command was introduced.

Usage Guidelines The instance ID must be a unique number. The ID must be the same on the Cisco IOS XE Catalyst SD-WAN devices participating in the Layer 2 domain. It must not overlap with your existing VRFs in the Cisco Catalyst SD-WAN fabric.

Examples

The following configures an L2VPN instance for point-to-point service:

```
Device(config)# l2vpn sdwan instance 10 point-to-point
```

The following configures an L2VPN instance for multipoint service:

```
Device(config)# l2vpn sdwan instance 20 multipoint
```

bridge-domain

To define a broadcast domain internal to a platform, use the **bridge-domain** command in global configuration mode. To remove the configured components from the bridge domain and to return the components to the bridge-domain default state, use the **no** form of this command.

bridge-domain *bridge-id*
member { *interface* **service-instance** *instance-id* | **sdwan-instance** *instance-id* [**remote-site-id** *site-id*] **vc-id** *vc-id* **single-homing** }

Syntax Description

bridge-domain *bridge-id*	Integer that identifies the bridge domain. Range: 1 to 16000 The upper limit may vary based on the platform.
member	The member interface specifies the LAN side interface or WAN side instance that participates in the bridge domain.
member *interface*	The LAN side interface that participates in the bridge domain.
member *interface* **service-instance**	Specifies the Ethernet service instance.
member *interface* **service-instance** *instance-id*	Specifies the ethernet service instance ID configured for the LAN interface. Range: 1 to 65531
member **sdwan-instance**	The sdwan-instance command is used to link the WAN side sdwan instance with the bridge-domain.
member **sdwan-instance** *instance-id*	Specifies the configured L2VPN SD-WAN instance ID. Range: 1 to 65531

instance-id	Specifies the ethernet service instance id configured under the LAN interface. It must be the same on the edge devices participating in the Layer 2 domain. Range: 1 to 65531
remote-site-id	The remote site id that participates in the P2P L2VPN sdwan instance.
site-id	Specifies the remote site ID. Range: 0 to 4294967295
vc-id	The Virtual Circuit (VC) ID that is used to identify a particular bridge domain.
vc-id	Specifies the Virtual Circuit (VC) ID. Range: 0 to 4294967295
single-homing	Specifies the homing type. Only single-homing is supported in Cisco IOS XE Catalyst SD-WAN Release 17.14.1a.
dual-homing	Specifies the homing type. Dual-homing is supported from Cisco IOS XE Catalyst SD-WAN Release 17.15.1a.

Command Default

Bridging is disabled.

Command Modes

Global configuration (config) and bridge-domain config

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.14.1a	The command was introduced.
Cisco IOS XE Catalyst SD-WAN Release 17.15.1a	Added **dual-homing** keyword.

Usage Guidelines

Use the command to link LAN side interface with bridge-domain. Enter the bridge-domain configuration mode, then enter the member commands.

Examples

The following example shows a bridge-domain 30 and service instance ID 20 configured for P2P connection and bridge-domain 31 with service instance ID 21 for P2MP connection for an edge device in a site using single-homing:

```
Device(config)# bridge-domain 30
Device(config-bdomain)# member GigabitEthernet7 service-instance 20
Device(config-bdomain-efp)# member sdwan-instance 10  remote-site 2 vc-id 1 single-homing
Device(config-bdomain)# exit
Device(config)# bridge-domain 31
Device(config-bdomain)# member GigabitEthernet7 service-instance 21
Device(config-bdomain-efp)# member sdwan-instance 11 vc-id 1 single-homing
```

The following example shows a bridge-domain 10 and service instance ID 20 configured for P2P connection and bridge-domain 20 with service instance ID 21 for P2MP connection for an edge device in a site using dual-homing:

```
Device(config)# bridge-domain 10
Device(config-bdomain)# member GigabitEthernet7 service-instance 20
Device(config-bdomain-efp)# member sdwan-instance 10  remote-site 2 vc-id 1 dual-homing
Device(config-bdomain)# exit
Device(config)# bridge-domain 20
Device(config-bdomain)# member GigabitEthernet7 service-instance 21
Device(config-bdomain-efp)# member sdwan-instance 11 vc-id 1 dual-homing
```