



## Show Commands

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# show interface switchport

To display interface switchport information, use the **show interface switchport** command.

**show interface** [ *if-identifier* ] **switchport**

## Syntax Description

<i>if-identifier</i>	(Optional) Identifier of an interface. Examples are ethernet 3/22 or port channel 120.
----------------------	--

## Command Default

None

## Command Modes

Any command mode  
Supported User Roles  
network-admin  
vdc-admin

## Command History

Release	Modification
5.1(1)	This command was introduced.

## Usage Guidelines

This command does not require a license.

## Examples

This example shows how to display VTP interface switchport information on the device:

```
switch# show interface switchport
Name: Ethernet8/11
  Switchport: Enabled
  Switchport Monitor: Not enabled
  Operational Mode: trunk
  Access Mode VLAN: 1 (default)
  Trunking Native Mode VLAN: 1 (default)
  Trunking VLANs Enabled: 1,10,20-30
  Pruning VLANs Enabled: 2-1001
  Administrative private-vlan primary host-association: none
  Administrative private-vlan secondary host-association: none
  Administrative private-vlan primary mapping: none
  Administrative private-vlan secondary mapping: none
  Administrative private-vlan trunk native VLAN: none
  Administrative private-vlan trunk encapsulation: dot1q
  Administrative private-vlan trunk normal VLANs: none
  Administrative private-vlan trunk private VLANs: none
  Operational private-vlan: none
switch#
```

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>feature vtp</b>	Enables VTP on the device.
<b>vtp domain</b>	Configures the VTP domain name.
<b>vtp version</b>	Configures the VTP version.

# show interface trunk

To display interface trunk information, use the **show interface trunk** command.

**show interface** [ *if-identifier* ] **trunk**

## Syntax Description

<i>if-identifier</i>	(Optional) Identifier of an interface. Examples are ethernet 3/22 or port channel 120.
----------------------	--

## Command Default

None

## Command Modes

Any command mode  
Supported User Roles  
network-admin  
vdc-admin

## Command History

Release	Modification
5.1(1)	This command was introduced.

## Usage Guidelines

This command does not require a license.

## Examples

This example shows how to display VTP interface trunk information on the device:

```
switch# show interface trunk
```

```
-----
Port          Native  Status      Port
              Vlan               Channel
-----
Eth1/33       1       trunking    --
Eth1/34       1       trunking    --
-----
Port          Vlans Allowed on Trunk
-----
Eth1/33       1,10
Eth1/34       1,10
-----
Port          Vlans Err-disabled on Trunk
-----
Eth1/33       none
Eth1/34       none
```

```

-----
Port          STP Forwarding
-----
Eth1/33      1,10
Eth1/34      1,10
-----
Port          VTP in spanning tree forwarding state and not pruned
-----
Eth1/33      1
Eth1/34      1
switch#

```

**Related Commands**

Command	Description
<b>feature vtp</b>	Enables VTP on the device.
<b>vtp domain</b>	Configures the VTP domain name.
<b>vtp version</b>	Configures the VTP version.

## show interface vlan

To display information about specified VLANs, use the **show interface vlan** command.

**show interface vlan** *vlan-id* [**brief**] **description**| **private-vlan mapping**| **status**]

### Syntax Description

<i>vlan-id</i>	Number of the VLAN. The range of values is from 1 to 4096.
<b>brief</b>	(Optional) Displays a brief description about a specified VLAN.
<b>description</b>	(Optional) Displays a detailed description about a specified VLAN.
<b>private-vlan mapping</b>	(Optional) Displays information about the private VLAN mapping, if any, for a specified VLAN.
<b>status</b>	(Optional) Displays information about the status for a specified VLAN.

### Command Default

None

### Command Modes

Any command mode  
Supported User Roles  
network-admin  
vdc-admin

### Command History

Release	Modification
4.0	This command was introduced.
4.2(1)	Display of configured static MAC addresses for Layer 3 port channels added.

### Usage Guidelines

You can use this command to display information about a specified VLAN, including the private VLANs.

The information is gathered at 1-minute intervals.

When you specify a primary VLAN, the device displays all secondary VLANs mapped to the specified primary VLAN.

The device displays the output for the **private-vlan mapping** keyword only when you specify a primary private VLAN. If you specify a secondary private VLAN and enter the **private-vlan mapping** keyword, the output is blank.



**Note** To display more statistics for the specified VLAN, use the **show interface vlan counters** and **show vlan counters** commands. To display more information about private VLANs, see the **show interface private-vlan** commands.

You can configure a VLAN network interface with a static MAC address, and this command will display that configured MAC address. See the **mac-address** command for information on configuring a VLAN network interface with a static MAC address.

This command does not require a license.

## Examples

This example shows how to display information about the specified VLAN. This command displays statistical information gathered on the VLAN at 1-minute intervals:

```
switch# show interface vlan 5
Vlan5 is administratively down, line protocol is down
Hardware is EtherSVI, address is 0000.0000.0000
MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,
  reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive not supported
ARP type: ARPA
Last clearing of "show interface" counters 01:21:55
1 minute input rate 0 bytes/sec, 0 packets/sec
1 minute output rate 0 bytes/sec, 0 packets/sec
L3 Switched:
  input: 0 pkts, 0 bytes - output: 0 pkts, 0 bytes
L3 in Switched:
  ucast: 0 pkts, 0 bytes - mcast: 0 pkts, 0 bytes
L3 out Switched:
  ucast: 0 pkts, 0 bytes - mcast: 0 pkts, 0 bytes
```

This example shows how to display a brief description for a specified VLAN. This displays shows the secondary VLAN and type, if configured, and the status:

```
switch# show interface vlan 5 brief
-----
Interface      Secondary VLAN(Type)      Status      Reason
-----
Vlan5          --                          down        none
This example shows how to display the description for a specified VLAN:
```

```
switch# show interface vlan 100 description
-----
Interface      Description
-----
Vlan100
```

This example shows how to display information about the private VLAN mapping, if any, for a specified VLAN:

```
switch# show interface vlan 200 private-vlan mapping
Interface Secondary VLAN
-----
vlan200   201  202
```

This example shows how to display the status for a specified VLAN:

```
switch# show interface vlan 5 status
-----
Interface      Status      Protocol
```



```
-----  
vlan5          admin down          shut
```

**Related Commands**

Command	Description
<b>show interface switchport</b>	Displays information about the switch ports, including those configured for private VLANs,
<b>show interface vlan counters</b>	Displays the statistics for VLANs.

# show interface vlan counters

To display the statistics for a specified VLAN, use the **show interface vlan counters** command.

**show interface vlan *vlan-id* counters [detailed [all]] snmp]**

## Syntax Description

<i>vlan-id</i>	VLAN or range of VLANs for which you want to display statistics . The range is from 1 to 4096.
<b>detailed</b>	(Optional) Displays nonzero counters for the specified interface.
<b>all</b>	(Optional) Displays all the detailed information for the particular VLAN, including statistics per byte .
<b>snmp</b>	(Optional) Displays the MIB values .

## Command Default

None

## Command Modes

Any command mode  
Supported User Roles  
network-admin  
vdc-admin

## Command History

Release	Modification
4.0	This command was introduced.

## Usage Guidelines

You can use this command to display information about the received octets, unicast packets, multicast packets, and broadcast packets as well as the transmitted octets, unicast packets, multicast packets, and broadcast packets for all VLANs, including private VLANs.

This command does not require a license.

## Examples

This example shows how to display the statistics for a specified VLAN:

```
switch# show interface vlan 9 counters
-----
Port           InOctets   InUcastPkts  InMcastPkts  InBcastPkts
-----
Vlan9          0           0             0             --
```

```
-----
Port                OutOctets  OutUcastPkts  OutMcastPkts  OutBcastPkts
-----
Vlan9                0           0             0             --
-----
```

This example shows how to display only the nonzero counters for a specified VLAN:

```
switch# show interface vlan 2 counters detailed
Vlan2
counters:
 13_average_input_bits           9947168160
 13_average_input_packets       20723267
 13_routed_bytes_in             39054410460
 13_routed_pkts_in              650906841
 13_ucast_bytes_in              39054410460
 13_ucast_pkts_in                650906841
```

This example shows how to display all detailed statistics for a specified VLAN:

```
switch(config)# show interface vlan 9 counters detailed all
Vlan9
counters:
 0.      13_ipv4_ucast_bytes_in = 0
 1.      13_ipv4_ucast_pkts_in = 0
 2.      13_ipv4_mcast_bytes_in = 0
 3.      13_ipv4_mcast_pkts_in = 0
 4.      13_ipv6_ucast_bytes_in = 0
 5.      13_ipv6_ucast_pkts_in = 0
 6.      13_ipv6_mcast_bytes_in = 0
 7.      13_ipv6_mcast_pkts_in = 0
 8.      13_ipv4_ucast_bytes_out = 0
 9.      13_ipv4_ucast_pkts_out = 0
10.     13_ipv4_mcast_bytes_out = 0
11.     13_ipv4_mcast_pkts_out = 0
12.     13_ipv6_ucast_bytes_out = 0
13.     13_ipv6_ucast_pkts_out = 0
14.     13_ipv6_mcast_bytes_out = 0
15.     13_ipv6_mcast_pkts_out = 0
16.     13_average_input_bytes = 0
17.     13_average_input_packets = 0
18.     13_average_output_bytes = 0
19.     13_average_output_packets = 0
20.     13_routed_bytes_in = 0
21.     13_routed_pkts_in = 0
22.     13_ucast_bytes_in = 0
23.     13_ucast_pkts_in = 0
24.     13_mcast_bytes_in = 0
25.     13_mcast_pkts_in = 0
26.     13_routed_bytes_out = 0
27.     13_routed_pkts_out = 0
28.     13_ucast_bytes_out = 0
29.     13_ucast_pkts_out = 0
30.     13_mcast_bytes_out = 0
31.     13_mcast_pkts_out = 0
```

This example shows how to display the MIB values for a specified VLAN:

```
switch(config)# show interface vlan 9 counters snmp
-----
Port                InOctets  InUcastPkts  InMcastPkts  InBcastPkts
-----
Vlan9                0           0             0             --
-----
Port                OutOctets  OutUcastPkts  OutMcastPkts  OutBcastPkts
-----
Vlan9                0           0             0             --
Ethernet2/28         0000.0000.0000  0019.076c.4dc7
Ethernet2/29         0000.0000.0000  0019.076c.4dc8
Ethernet2/30         0000.0000.0000  0019.076c.4dc9
```

**Related Commands**

Command	Description
clear counters	Clears counters on the interfaces.

## show mac address-table

To display the information about the MAC address table, use the **show mac address-table** command.

```
show mac address-table [ num ] [ dynamic | static ] [ address mac-address ] count | interface { type slot/port | port-channel number } | vlan vlan-id ]
```

### Syntax Description

<i>num</i>	(Optional) MAC address table for a specified module.  <b>Note</b> When you use this argument, the system displays all the entries on that module as specified by any of the following optional arguments. When you do not use this argument, the system displays only the primary entries on all modules.
<b>dynamic</b>	(Optional) Displays information about the dynamic MAC address table entries only.
<b>static</b>	(Optional) Displays information about the static MAC address table entries only.
<b>address</b> <i>mac-address</i>	(Optional) Displays information about the MAC address table for a specific MAC address.
<b>count</b>	(Optional) Displays the number of MAC address entries for dynamic and static.
<b>interface</b> <i>type slot/port</i>	(Optional) Specifies the interface. Use either the type of interface, the slot number, or the port number.
<b>port-channel</b> <i>number</i>	(Optional) Specifies the port-channel number. The range is from 1 to 4096.
<b>vlan</b> <i>vlan-id</i>	(Optional) Displays information for a specific VLAN only; the range of valid values is from 1 to 4094.

**Command Default** None

**Command Modes** Any command mode  
Supported User Roles  
network-admin  
vdc-admin

**Command History**

Release	Modification
4.0	This command was introduced.
4.1.2	This command was enhanced to display vPC information.

**Usage Guidelines**

A primary entry is a MAC address learned on that interface.

**Note**

Use the **show mac address-table** command without the *num* argument to display only the primary entries on all modules. When you use the *num* argument, the device displays all the entries on that module as specified by additional optional arguments.

The device maintains static MAC address entries saved in the startup-config file across reboots and flushes the dynamic entries.

The MAC address table for each virtual device context (VDC) is separate and distinct.

**Note**

To display the MAC address for the VDC, use the **show vdc** command.

The show mac address-table command is enhanced to display information about MAC addresses on virtual port channels (vPCs). See the *Cisco NX-OS Interfaces Configuration Guide* for information on vPCs.

This command does not require a license.

**Examples****Note**

In the following examples, NTFY means notify.

This example shows how to display the information about the entries for the Layer 2 MAC address table:

```
switch# show mac address-table
Legend:
  * - primary entry, G - Gateway MAC, (R) - Routed MAC
  age - seconds since last seen
  VLAN  MAC Address      Type      age      Secure  NTFY  Ports
-----+-----+-----+-----+-----+-----+-----
G      -      0018.bad8.3fbd      static    -      False  False  sup-eth1(R)
* 3    1234.dd56.ee89      static    -      False  False  Eth2/1
```

This example shows how to display the information about the entries for the Layer 2 MAC address table when you have enabled and configured the vPC feature:

```
switch# show mac address-table
Legend:
  * - primary entry, G - Gateway MAC, (R) - Routed MAC
  age - seconds since last seen
  VLAN  MAC Address      Type      age      Secure  NTFY  Ports
-----+-----+-----+-----+-----+-----+-----
G      -      0018.bad8.447d      static    -      False  False  sup-eth1(R)
* 1    0000.0300.0300      dynamic    0      False  False  Eth1/2
* 1    0000.0300.0301      dynamic    0      False  False  Eth1/2
* 1    0000.0300.0302      dynamic    0      False  False  Eth1/2
```

```
* 1      0000.0300.0303    dynamic  0      False  False Eth1/2
* 1      0000.0300.0304    dynamic  0      False  False Eth1/2
2        ac00.0000.0021    dynamic  0      False  False VPC Peer-Link
2        ac00.0000.0022    dynamic  0      False  False VPC Peer-Link
2        ac00.0000.0023    dynamic  0      False  False VPC Peer-Link
```

This example shows how to display the information about the entries for the Layer 2 MAC address table for a specific module:

```
switch# show mac address-table 2
Legend:
* - primary entry, G - Gateway MAC, (R) - Routed MAC
age - seconds since last seen
VLAN   MAC Address      Type      age      Secure  NTFY     Ports
-----+-----+-----+-----+-----+-----+-----
G      -      0018.bad8.3fbd    static    -        False   False   sup-eth1(R)
* 3    -      1234.dd56.ee89    static    -        False   False   Eth2/1
3      -      0000.23bd.4fda    dynamic   70       False   False   Eth1/1
```

This example shows how to display the information about the entries for the Layer 2 MAC address table for a specific MAC address:

```
switch# show mac address-table address 0018.bad8.3fbd
Legend:
* - primary entry, G - Gateway MAC, (R) - Routed MAC
age - seconds since last seen
VLAN   MAC Address      Type      age      Secure  NTFY     Ports
-----+-----+-----+-----+-----+-----+-----
G      -      0018.bad8.3fbd    static    -        False   False   sup-eth1(R)
```

This example shows how to display the information about the dynamic entries for the Layer 2 MAC address table:

```
switch# show mac address-table dynamic
Legend:
* - primary entry, G - Gateway MAC, (R) - Routed MAC
age - seconds since last seen
VLAN   MAC Address      Type      age      Secure  NTFY     Ports
-----+-----+-----+-----+-----+-----+-----
* 3    -      0010.fcbc.3fbd    dynamic   1265    False   False   Eth2/12
* 3    -      1234.dd56.ee89    dynamic   850     False   False   Eth2/1
```

This example shows how to display the information about the Layer 2 MAC address table for a specific interface:

```
switch# show mac address-table interface ethernet 2/13
Legend:
* - primary entry, G - Gateway MAC, (R) - Routed MAC
age - seconds since last seen
VLAN   MAC Address      Type      age      Secure  NTFY     Ports
-----+-----+-----+-----+-----+-----+-----
* 1    -      1234.dd56.ee89    dynamic   0        False   False   Eth2/13
```

This example shows how to display the static entries in the Layer 2 MAC address table:

```
switch# show mac address-table static
Legend:
* - primary entry, G - Gateway MAC, (R) - Routed MAC
age - seconds since last seen
VLAN   MAC Address      Type      age      Secure  NTFY     Ports
-----+-----+-----+-----+-----+-----+-----
G      -      0018.bad8.3fbd    static    -        False   False   sup-eth1(R)
* 3    -      1234.dd56.ee89    static    -        False   False   Eth2/1
```

This example shows how to display the entries in the Layer 2 MAC address table for a specific VLAN:

```
switch# show mac address-table vlan 3
Legend:
* - primary entry, G - Gateway MAC, (R) - Routed MAC
age - seconds since last seen
```

## show mac address-table

```

      VLAN      MAC Address      Type      age      Secure  NTFY      Ports
-----+-----+-----+-----+-----+-----+-----
* 3          1234.dd56.ee89      static      -        False   False     Eth2/1

```

## Related Commands

Command	Description
<code>mac address-table static</code>	Adds static entries to the MAC address table or configures a static MAC address with IGMP snooping disabled for that address.



# show mac address-table aging-time

To display information about the timeout values for the MAC address table, use the **show mac-address-table aging-time** command.

**show mac address-table aging-time** [*vlan vlan-id*]

## Syntax Description

<b>vlan</b> <i>vlan-id</i>	(Optional) Displays information for a specific VLAN only; the range of valid values is from 1 to 4094.
----------------------------	--

## Command Default

None

## Command Modes

Any command mode  
Supported User Roles  
network-admin  
vdc-admin

## Command History

Release	Modification
4.0	This command was introduced.

## Usage Guidelines

You can configure the MAC address aging time per VLAN or for the entire device. The valid range is from 120 to 918000. Entering 0 disables the MAC aging time.

This command does not require a license.

## Examples

This example shows how to display MAC address aging times:

```
switch# show mac address-table aging-time
Vlan    Aging Time
----    -
1       1800
50      1200
100     1800
```

## Related Commands

Command	Description
<b>mac address-table aging-time</b>	Configures the aging time for entries in the Layer 2 table.

**show mac address-table aging-time**

# show running-config spanning-tree

To display the running configuration for the Spanning Tree Protocol (STP), use the **show running-config spanning-tree** command.

**show running-config spanning-tree [all]**

## Syntax Description

<b>all</b>	(Optional) Displays current STP operating information including the default settings.
------------	---

## Command Default

None

## Command Modes

Any command mode

Supported User Roles

network-admin

vdc-admin

## Command History

Release	Modification
4.0	This command was introduced.

## Usage Guidelines

This command provides information about the Spanning Tree Protocol.



### Note

The display output differs slightly depending on whether you are running Rapid Per VLAN Spanning Tree (Rapid PVST+) or Multiple Spanning Tree (MST).

This command does not require a license.

## Examples

This example shows how to display information about the running STP configuration when you are running MST:

```
switch# show running-config spanning-tree
spanning-tree mode mst
```

This example shows how to display detailed information about the running STP configuration when you are running MST:

```
switch# show running-config spanning-tree all
spanning-tree mode mst
no spanning-tree port type edge default
```

**show running-config spanning-tree**

```

no spanning-tree port type network default
spanning-tree bridge assurance
no spanning-tree loopguard default
spanning-tree mst simulate pvst global
no snmp-server enable traps bridge topologychange
no snmp-server enable traps bridge newroot
no snmp-server enable traps stpx inconsistency
no snmp-server enable traps stpx loop-inconsistency
no snmp-server enable traps stpx root-inconsistency
spanning-tree mst hello-time 2
spanning-tree mst forward-time 15
spanning-tree mst max-age 20
spanning-tree mst max-hops 20
spanning-tree mst 0 priority 32768
spanning-tree mst configuration
    name
    revision 0
    instance 0 vlan 1-4094
configure interface Ethernet8/1
    spanning-tree port-priority 128

```

**Related Commands**

Command	Description
<b>show spanning-tree</b>	Displays information about STP.

# show running-config vlan

To display the running configuration for a specified VLAN, use the **show running-config vlan** command.

**show running-config vlan** *vlan-id*

## Syntax Description

<i>vlan-id</i>	Number of the VLAN or range of VLANs. Valid numbers range from 1 to 4096.
----------------	---

## Command Default

None

## Command Modes

Any command mode  
Supported User Roles  
network-admin  
vdc-admin

## Command History

Release	Modification
4.0	This command was introduced.

## Usage Guidelines

This command provides information about the specified VLAN, including private VLANs.

The display varies with your configuration. If you configure the name, shutdown status, or suspended status, these settings.

This command does not require a license.

## Examples

This example shows how to display the running configuration for VLAN 50:

```
switch(config)# show running-config vlan 50
version 4.0(1)
vlan 50
```

## Related Commands

Command	Description
<b>show vlan</b>	Displays information about all the VLANs on the device.

# show running-config vtp

To display the running configuration for the VLAN Trunking Protocol (VTP), use the **show running-config vtp** command.

**show running-config vtp**

**Syntax Description** This command has no arguments or keywords.

**Command Default** None

**Command Modes** Any command mode  
Supported User Roles  
network-admin  
vdc-admin

Command History	Release	Modification
	4.1(2)	This command was introduced.

**Usage Guidelines** This command provides information about VTP.  
This command does not require a license.

**Examples** This example shows how to display the running configuration for VTP:

```
switch(config)# show running-config vtp
version 4.1(2)
feature vtp
vtp mode transparent
vtp domain accounting
```

## Related Commands

Command	Description
show vtp status	Displays information about VTP on the device.

# show spanning-tree

To display information about the Spanning Tree Protocol (STP), use the **show spanning-tree** command.

**show spanning-tree** [**blockedports**] [**inconsistentports**] [**pathcost method**]

## Syntax Description

<b>blockedports</b>	(Optional) Displays the alternate ports blocked by STP.
<b>inconsistentports</b>	(Optional) Displays the ports that are in an inconsistent STP state.
<b>pathcost method</b>	(Optional) Displays whether the short or long path-cost method is used.  <b>Note</b> The method type differs for Rapid Per VLAN Spanning Tree (Rapid PVST+) and Multiple Spanning Tree (MST):- With Rapid PVST+, this value is configurable and the default is short.- With MST, this value is nonconfigurable and the operational value is always long.

## Command Default

None

## Command Modes

Any command mode  
Supported User Roles  
network-admin  
vdc-admin

## Command History

Release	Modification
4.0	This command was introduced.
4.1(3)	This command was enhanced to display when a port is part of a virtual port channel (vPC).
4.1.2	This command was enhanced to display vPC information.

## Usage Guidelines

The STP port type displays only when you have configured the port as either an STP edge port or an STP network port. If you have not configured the STP port type, no port type displays.

**Note**

The display output differs slightly depending on whether you are running Rapid PVST+ or MST.

This command does not require a license.

**Examples**

This example shows how to display STP when you are running Rapid PVST+:

```
switch# show spanning-tree
VLAN0001
  Spanning tree enabled protocol rstp
  Root ID      Priority    32769
              Address    000d.eca3.9f01
              Cost      4
              Port      4105 (port-channel10)
              Hello Time 2 sec  Max Age 20 sec  Forward Delay 15 sec
  Bridge ID    Priority    32769 (priority 32768 sys-id-ext 1)
              Address    0022.5579.7641
              Hello Time 2 sec  Max Age 20 sec  Forward Delay 15 sec
Interface      Role Sts Cost          Prio.Nbr Type
-----
Po10           Root FWD 2            128.4105 (vPC peer-link) P2p
Po20           Desg FWD 1            128.4115 (vPC) P2p
Po30           Root FWD 1            128.4125 (vPC) P2p
VLAN0002
  Spanning tree enabled protocol rstp
  Root ID      Priority    32770
              Address    000d.eca3.9f01
              Cost      4
              Port      4105 (port-channel10)
              Hello Time 2 sec  Max Age 20 sec  Forward Delay 15 sec
  Bridge ID    Priority    32770 (priority 32768 sys-id-ext 2)
              Address    0022.5579.7641
              Hello Time 2 sec  Max Age 20 sec  Forward Delay 15 sec
Interface      Role Sts Cost          Prio.Nbr Type
-----
Po10           Root FWD 2            128.4105 (vPC peer-link) P2p
Po20           Desg FWD 1            128.4115 (vPC) P2p
Po30           Root FWD 1            128.4125 (vPC) P2p
VLAN0003
  Spanning tree enabled protocol rstp
  Root ID      Priority    32771
              Address    000d.eca3.9f01
              Cost      4
              Port      4105 (port-channel10)
              Hello Time 2 sec  Max Age 20 sec  Forward Delay 15 sec
  Bridge ID    Priority    32771 (priority 32768 sys-id-ext 3)
              Address    0022.5579.7641
              Hello Time 2 sec  Max Age 20 sec  Forward Delay 15 sec
Interface      Role Sts Cost          Prio.Nbr Type
-----
Po10           Root FWD 2            128.4105 (vPC peer-link) P2p
Po20           Desg FWD 1            128.4115 (vPC) P2p
Po30           Root FWD 1            128.4125 (vPC) P2p
VLAN0004
  Spanning tree enabled protocol rstp
  Root ID      Priority    32772
              Address    000d.eca3.9f01
              Cost      4
              Port      4105 (port-channel10)
              Hello Time 2 sec  Max Age 20 sec  Forward Delay 15 sec
  Bridge ID    Priority    32772 (priority 32768 sys-id-ext 4)
              Address    0022.5579.7641
              Hello Time 2 sec  Max Age 20 sec  Forward Delay 15 sec
Interface      Role Sts Cost          Prio.Nbr Type
-----
Po10           Root FWD 2            128.4105 (vPC peer-link) P2p
Po20           Desg FWD 1            128.4115 (vPC) P2p
Po30           Root FWD 1            128.4125 (vPC) P2p
```



This example shows how to display STP information when you are running MST:

```
switch# show spanning-tree
MST0000
  Spanning tree enabled protocol mstp
  Root ID      Priority      32768
              Address      0018.bad8.fc150
              Cost        0
              Port        258 (Ethernet 2/2)
              Hello Time   2 sec   Max Age 20 sec   Forward Delay 15 sec
  Bridge ID    Priority      32768 (priority 32768 sys-id-ext 0)
              Address      0018.bad8.239d
              Hello Time   2 sec   Max Age 20 sec   Forward Delay 15 sec
Interface      Role Sts Cost          Prio.Nbr   Type
-----
Eth2/1         Altn BKN 20000        128.257    Network, P2p  BA_Inc.
Eth2/2         Root FWD 20000        128.258    Edge, P2p
Eth3/48        Desg FWD 20000        128.43228  P2p
```

This example shows how to display the blocked ports in spanning tree:

```
switch(config)# show spanning-tree blockedports
Name          Blocked Interfaces List
-----
VLAN0001     Eth8/2
VLAN0002     Eth8/2
VLAN0003     Eth8/2
VLAN0004     Eth8/2
VLAN0005     Eth8/2
VLAN0006     Eth8/2
VLAN0007     Eth8/2
VLAN0008     Eth8/2
VLAN0009     Eth8/2
VLAN0010     Eth8/2
```

This example shows how to determine if any ports are in any STP-inconsistent state:

```
switch#
show spanning-tree inconsistentports
Name          Interface          Inconsistency
-----
MST0000       Eth8/1             Bridge Assurance Inconsistent
MST0000       Eth8/2             Bridge Assurance Inconsistent
```

This example shows how to display the path-cost method when you are running Rapid PVST+:

```
switch(config)# show spanning-tree pathcost method
Spanning tree default pathcost method used is short
```

This example shows how to display the path-cost method when you are running MST:

```
switch(config)# show spanning-tree pathcost method
Spanning tree default pathcost method used is short (Operational value is long)
show spanning-tree, on page 23 describes the fields that are shown in the examples.
```

**Table 1: show spanning-tree Command Output Options**

Field	Definition and Options
Role	<p>Current port STP role. Valid values are as follows:</p> <ul style="list-style-type: none"> <li>• Desg (designated)</li> <li>• Root</li> <li>• Altn (alternate)</li> <li>• Back (backup)</li> </ul>
State	<p>Current port STP state. Valid values are as follows:</p> <ul style="list-style-type: none"> <li>• BLK (blocking)</li> <li>• DIS (disabled)</li> <li>• LRN (learning)</li> <li>• FWD (forwarding)</li> </ul>
Type	<p>Status information; valid values are as follows:</p> <ul style="list-style-type: none"> <li>• P2p/Shr—The interface is considered as a point-to-point interface by the spanning tree.</li> <li>• vPC—The port-channel interface is part of a VPC domain.</li> <li>• vPC peer-link—The port-channel interface is part of a VPC peer link.</li> <li>• Edge—The port is configured as an STP edge port (either globally using the <b>default</b> command or directly on the interface) and no BPDU has been received.</li> <li>• Network—The port is configured as an STP network port (either globally using the <b>default</b> command or directly on the interface).</li> <li>• *ROOT_Inc, *LOOP_Inc, *PVID_Inc, *BA_Inc, and *TYPE_Inc—The port is in a broken state (BKN*) for an inconsistency. The port would be Root inconsistent, Loopguard inconsistent, PVID inconsistent, Bridge Assurance inconsistent, or Type inconsistent.</li> </ul>

**Related Commands**

Command	Description
<b>show spanning-tree mst</b>	Displays information about the MST STP.
<b>show spanning-tree active</b>	Displays information about the STP active interfaces only.

<b>Command</b>	<b>Description</b>
<b>show spanning-tree bridge</b>	Displays the bridge ID, timers, and protocol for the local bridge on the device.
<b>show spanning-tree brief</b>	Displays a brief summary of STP information.
<b>show spanning-tree detail</b>	Displays detailed information about STP.
<b>show spanning-tree interface</b>	Displays the STP interface status and configuration of specified interfaces.
<b>show spanning-tree root</b>	Displays the status and configuration of the root bridge for the STP instance to which this device belongs.
<b>show spanning-tree summary</b>	Displays summary information about STP.
<b>show spanning-tree vlan</b>	Displays STP information about specified VLANs.

# show spanning-tree active

To display Spanning Tree Protocol (STP) information on STP-active interfaces only, use the **show spanning-tree active** command.

**show spanning-tree active** [**brief**] **detail**

## Syntax Description

<b>brief</b>	(Optional) Displays a brief summary of STP interface information.
<b>detail</b>	(Optional) Displays a detailed summary of STP interface information.

## Command Default

None

## Command Modes

Any command mode  
Supported User Roles  
network-admin  
vdc-admin

## Command History

Release	Modification
4.0	This command was introduced.
4.1.2	This command was enhanced to display vPC information.

## Usage Guidelines

This command does not require a license.

## Examples

This example shows how to display STP information on the STP active interfaces:

```
switch# show spanning-tree active
VLAN0001
  Spanning tree enabled protocol rstp
  Root ID    Priority    32769
            Address    000d.eca3.9f01
            Cost      4
            Port      4105 (port-channel10)
            Hello Time 2 sec  Max Age 20 sec  Forward Delay 15 sec
  Bridge ID  Priority    32769 (priority 32768 sys-id-ext 1)
            Address    0022.5579.7641
            Hello Time 2 sec  Max Age 20 sec  Forward Delay 15 sec
Interface   Role Sts Cost      Prio.Nbr Type
-----
-----
```

```

Po10          Root FWD 2          128.4105 (vPC peer-link) P2p
Po20          Desg FWD 1          128.4115 (vPC) P2p
Po30          Root FWD 1          128.4125 (vPC) P2p
VLAN0002
  Spanning tree enabled protocol rstp
  Root ID     Priority 32770
             Address 000d.eca3.9f01
             Cost   4
             Port   4105 (port-channel10)
             Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
  Bridge ID   Priority 32770 (priority 32768 sys-id-ext 2)
             Address 0022.5579.7641
             Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Interface     Role Sts Cost      Prio.Nbr Type
-----
Po10          Root FWD 2          128.4105 (vPC peer-link) P2p
Po20          Desg FWD 1          128.4115 (vPC) P2p
Po30          Root FWD 1          128.4125 (vPC) P2p
VLAN0003
  Spanning tree enabled protocol rstp
  Root ID     Priority 32771
             Address 000d.eca3.9f01
             Cost   4
             Port   4105 (port-channel10)
             Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
  Bridge ID   Priority 32771 (priority 32768 sys-id-ext 3)
             Address 0022.5579.7641
             Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Interface     Role Sts Cost      Prio.Nbr Type
-----
Po10          Root FWD 2          128.4105 (vPC peer-link) P2p
Po20          Desg FWD 1          128.4115 (vPC) P2p
Po30          Root FWD 1          128.4125 (vPC) P2p
VLAN0004
  Spanning tree enabled protocol rstp
  Root ID     Priority 32772
             Address 000d.eca3.9f01
             Cost   4
             Port   4105 (port-channel10)
             Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
  Bridge ID   Priority 32772 (priority 32768 sys-id-ext 4)
             Address 0022.5579.7641
             Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Interface     Role Sts Cost      Prio.Nbr Type
-----
Po10          Root FWD 2          128.4105 (vPC peer-link) P2p
Po20          Desg FWD 1          128.4115 (vPC) P2p
Po30          Root FWD 1          128.4125 (vPC) P2p

```

**Related Commands**

Command	Description
<b>show spanning-tree mst</b>	Displays information about the MST STP.
<b>show spanning-tree</b>	Displays information about STP.
<b>show spanning-tree bridge</b>	Displays the bridge ID, timers, and protocol for the local bridge on the device.
<b>show spanning-tree brief</b>	Displays a brief summary of STP information.
<b>show spanning-tree detail</b>	Displays detailed information about STP.
<b>show spanning-tree interface</b>	Displays the STP interface status and configuration about specified interfaces.

Command	Description
<b>show spanning-tree root</b>	Displays the status and configuration of the root bridge for the STP instance to which this device belongs.
<b>show spanning-tree summary</b>	Displays summary information about STP.
<b>show spanning-tree vlan</b>	Displays STP information about specified VLANs.

# show spanning-tree bridge

To display the status and configuration of the Spanning-Tree Protocol (STP) local bridge, use the **show spanning-tree bridge** command.

```
show spanning-tree bridge [address| brief| detail| forward-time| hello-time| id| max-age| priority
[System-id]] protocol]
```

## Syntax Description

<b>address</b>	(Optional) Displays the MAC address for the STP local bridge.
<b>brief</b>	(Optional) Displays a brief summary of the status and configuration for the STP bridge.
<b>detail</b>	(Optional) Displays a detailed summary of the status and configuration for the STP bridge.
<b>forward-time</b>	(Optional) Displays the STP forward delay interval for the bridge.
<b>hello-time</b>	(Optional) Displays the STP hello time for the bridge.
<b>id</b>	(Optional) Displays the STP bridge identifier for the bridge.
<b>max-age</b>	(Optional) Displays the STP maximum-aging time for the bridge.
<b>priority</b>	(Optional) Displays the bridge priority for this bridge.
<b>system-id</b>	(Optional) Displays the bridge priority with the system ID extension for this bridge.
<b>protocol</b>	(Optional) Displays which STP protocol is active, Rapid Per VLAN Spanning Tree (Rapid PVST+) or Multiple Spanning Tree (MST) on the device.

**Command Default** None

**Command Modes** Any command mode  
Supported User Roles  
network-admin  
vdc-admin

**Command History**

Release	Modification
4.0	This command was introduced.

**Usage Guidelines**

This command does not require a license.

**Examples**

This example shows how to display STP information for the bridge:

```
switch(config)# show spanning-tree bridge
```

MST Instance	Bridge ID	Hello Time	Max Age	Fwd Dly	Protocol
MST0000	32768 (32768,0) 0018.bad7.fc15	2	20	15	mstp

**Related Commands**

Command	Description
<b>show spanning-tree mst</b>	Displays information about the MST STP.
<b>show spanning-tree</b>	Displays information about STP.
<b>show spanning-tree active</b>	Displays information about the STP active interfaces only.
<b>show spanning-tree brief</b>	Displays a brief summary of STP information.
<b>show spanning-tree detail</b>	Displays detailed information about STP.
<b>show spanning-tree interface</b>	Displays the STP interface status and configuration of specified interfaces.
<b>show spanning-tree root</b>	Displays the status and configuration of the root bridge for the STP instance to which this device belongs.
<b>show spanning-tree summary</b>	Displays summary information about STP.
<b>show spanning-tree vlan</b>	Displays STP information about specified VLANs.



# show spanning-tree brief

To display a brief summary of the Spanning Tree Protocol (STP) status and configuration on the device, use the **show spanning-tree brief** command.

**show spanning-tree brief [active]**

## Syntax Description

<b>active</b>	(Optional) Displays information about the STP active interfaces only .
---------------	--

## Command Default

None

## Command Modes

Any command mode

Supported User Roles

network-admin

vdc-admin

## Command History

Release	Modification
4.0	This command was introduced.
4.1(2)	This command was enhanced to display vPC information.

## Usage Guidelines

This command does not require a license.

## Examples

This example shows how to display a brief summary of STP information:

```
switch(config)# show spanning-tree brief
VLAN0001
  Spanning tree enabled protocol rstp
  Root ID    Priority    32769
            Address    000d.eca3.9f01
            Cost      4
            Port      4105 (port-channel10)
            Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
  Bridge ID  Priority    32769 (priority 32768 sys-id-ext 1)
            Address    0022.5579.7641
            Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Interface   Role Sts Cost      Prio.Nbr Type
-----
Po10        Root FWD 2         128.4105 (vPC peer-link) P2p
Po20        Desg FWD 1         128.4115 (vPC) P2p
Po30        Root FWD 1         128.4125 (vPC) P2p
VLAN0002
```

## show spanning-tree brief

```

Spanning tree enabled protocol rstp
Root ID    Priority    32770
           Address    000d.eca3.9f01
           Cost      4
           Port     4105 (port-channel10)
           Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Bridge ID  Priority    32770 (priority 32768 sys-id-ext 2)
           Address    0022.5579.7641
           Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Interface  Role Sts Cost      Prio.Nbr Type
-----
Po10      Root FWD 2         128.4105 (vPC peer-link) P2p
Po20      Desg FWD 1         128.4115 (vPC) P2p
Po30      Root FWD 1         128.4125 (vPC) P2p

```

## Related Commands

Command	Description
<b>show spanning-tree mst</b>	Displays information about the MST STP.
<b>show spanning-tree</b>	Displays information about STP.
<b>show spanning-tree active</b>	Displays information about the STP active interfaces only.
<b>show spanning-tree bridge</b>	Displays the bridge ID, timers, and protocol for the local bridge on the device.
<b>show spanning-tree detail</b>	Displays detailed information about STP.
<b>show spanning-tree interface</b>	Displays the STP interface status and configuration of specified interfaces.
<b>show spanning-tree root</b>	Displays the status and configuration of the root bridge for the STP instance to which this device belongs.
<b>show spanning-tree summary</b>	Displays summary information about STP.
<b>show spanning-tree vlan</b>	Displays STP information about specified VLANs.

# show spanning-tree detail

To display detailed information on the Spanning Tree Protocol (STP) status and configuration on the device, use the **show spanning-tree detail** command.

**show spanning-tree detail [active]**

## Syntax Description

<b>active</b>	(Optional) Displays information about the STP active interfaces only .
---------------	--

## Command Default

None

## Command Modes

Any command mode

Supported User Roles

network-admin

vdc-admin

## Command History

Release	Modification
4.0	This command was introduced.
4.1.2	This command was enhanced to display vPC information.

## Usage Guidelines

This command does not require a license.

## Examples

This example shows how to display detailed information about the STP configuration:

```
switch(config)# show spanning-tree detail
VLAN0001 is executing the rstp compatible Spanning Tree protocol
 Bridge Identifier has priority 32768, sysid 1, address 0022.5579.7641
 Configured hello time 2, max age 20, forward delay 15
 Current root has priority 32769, address 000d.eca3.9f01
 Root port is 4105 (port-channel10), cost of root path is 4
 Topology change flag not set, detected flag not set
 Number of topology changes 1 last change occurred 20:24:36 ago
   from port-channel10
 Times: hold 1, topology change 35, notification 2
       hello 2, max age 20, forward delay 15
 Timers: hello 0, topology change 0, notification 0
 Port 4105 (port-channel10, vPC Peer-link) of VLAN0001 is root forwarding
 Port path cost 2, Port priority 128, Port Identifier 128.4105
 Designated root has priority 32769, address 000d.eca3.9f01
 Designated bridge has priority 32769, address 0022.5579.7341
 Designated port id is 128.4105, designated path cost 2
```

## show spanning-tree detail

```

Timers: message age 16, forward delay 0, hold 0
Number of transitions to forwarding state: 1
Link type is point-to-point by default
BPDU: sent 36729, received 36739
Port 4115 (port-channel20, vPC) of VLAN0001 is designated forwarding
Port path cost 1, Port priority 128, Port Identifier 128.4115
Designated root has priority 32769, address 000d.eca3.9f01
Designated bridge has priority 32769, address 0022.5579.7341
Designated port id is 128.4115, designated path cost 2
Timers: message age 0, forward delay 0, hold 0
Number of transitions to forwarding state: 0
Link type is point-to-point by default
BPDU: sent 0, received 0
Port 4125 (port-channel30, vPC) of VLAN0001 is root forwarding
Port path cost 1, Port priority 128, Port Identifier 128.4125
Designated root has priority 32769, address 000d.eca3.9f01
Designated bridge has priority 32769, address 000d.eca3.9f01
Designated port id is 128.4125, designated path cost 0
Timers: message age 0, forward delay 0, hold 0
Number of transitions to forwarding state: 0
Link type is point-to-point by default
BPDU: sent 0, received 0

```

## Related Commands

Command	Description
<b>show spanning-tree mst</b>	Displays information about the MST STP.
<b>show spanning-tree</b>	Displays information about STP.
<b>show spanning-tree active</b>	Displays information about the STP active interfaces only.
<b>show spanning-tree bridge</b>	Displays the bridge ID, timers, and protocol for the local bridge on the device.
<b>show spanning-tree brief</b>	Displays brief summary information about STP.
<b>show spanning-tree interface</b>	Displays the STP interface status and configuration about specified interfaces.
<b>show spanning-tree root</b>	Displays the status and configuration of the root bridge for the STP instance to which this device belongs.
<b>show spanning-tree summary</b>	Displays summary information about STP.
<b>show spanning-tree vlan</b>	Displays STP information about specified VLANs.

# show spanning-tree interface

To display information about the Spanning Tree Protocol (STP) interface status and configuration of specified interfaces, use the **show spanning-tree interface** command.

**show spanning-tree interface** {**ethernet** *slot/port*| **port-channel** *channel-number*} [**active** [**brief**| **detail**]| **brief** [**active**]| **cost**| **detail** [**active**]| **edge**| **inconsistency**| **priority**| **rootcost**| *state*]

## Syntax Description

<b>ethernet</b> <i>slot/port</i>	Displays the Ethernet interface and slot or port number. The range is from 1 to 253.
<b>port-channel</b> <i>channel-number</i>	Port channel number. The range is from 1 to 4096.
<b>active</b>	(Optional) Displays information about the STP active interfaces only on the specified interfaces.
<b>brief</b>	(Optional) Displays a brief summary about the specified STP interfaces .
<b>detail</b>	(Optional) Displays detailed information about the specified STP interfaces .
<b>cost</b>	(Optional) Displays the STP path cost for the specified interfaces.
<b>edge</b>	(Optional) Displays the STP-type edge port information for the specified interfaces.
<b>inconsistency</b>	(Optional) Displays the port STP inconsistency state for the specified interfaces.
<b>priority</b>	(Optional) Displays the STP port priority for the specified interfaces.
<b>rootcost</b>	(Optional) Displays the path cost to the root for specified interfaces.
<i>state</i>	Current port STP state. Valid values are as follows: <ul style="list-style-type: none"> <li>• BLK (blocking)</li> <li>• DIS (disabled)</li> <li>• LRN (learning)</li> <li>• FWD (forwarding)</li> </ul>

**Command Default** None

**Command Modes** Any command mode  
Supported User Roles  
network-admin  
vdc-admin

Release	Modification
4.0	This command was introduced.
4.1.2	This command was enhanced to display vPC information.

**Usage Guidelines** The STP port type displays only when you have configured the port as either an STP edge port or an STP network port. If you have not configured the STP port type, no port type displays.  
If you specify an interface that is not running STP, the device returns an error message.  
When you are running MST, this command displays the PVST simulation setting.



**Note** If you are running MST, use the **show spanning-tree mst** command to show more detail on the specified interfaces.

This command does not require a license.

**Examples** This example shows how to display STP information about a specified interface when you are running Rapid PVST+:

```
switch(config)# show spanning-tree interface ethernet 8/2
```

```
Vlan          Role Sts Cost      Prio.Nbr Type
-----
VLAN0001      Altn BLK 20000    128.1025 P2p
VLAN0002      Desg FWD 20000    128.1025 P2p
```

This example shows how to display STP information about a specified interface when you are running MST:

```
switch(config)# show spanning-tree interface ethernet 2/50
```

```
Mst Instance  Role Sts Cost      Prio.Nbr Type
-----
MST0000      Desg FWD 20000    128.1281 P2p
```

This example shows how to display detailed STP information about a specified interface when you are running Rapid PVST+:

```
switch(config)# show spanning-tree interface ethernet 8/1 detail
Port 1025 (Ethernet8/1) of VLAN0001 is alternate blocking
  Port path cost 20000, Port priority 128, Port Identifier 128.1025
  Designated root has priority 28672, address 0018.bad8.239d
  Designated bridge has priority 28672, address 0018.bad8.239d
```

```

Designated port id is 128.1281, designated path cost 0
Timers: message age 15, forward delay 0, hold 0
Number of transitions to forwarding state: 1
Link type is point-to-point by default
The port type is network by default.
BPDU: sent 4657, received 188
Port 1025 (Ethernet8/1) of VLAN0002 is designated forwarding
Port path cost 20000, Port priority 128, Port Identifier 128.1025
Designated root has priority 32770, address 0018.bad7.fc15
Designated bridge has priority 32770, address 0018.bad7.fc15
Designated port id is 128.1025, designated path cost 0
Timers: message age 0, forward delay 0, hold 0
Number of transitions to forwarding state: 1
Link type is point-to-point by default   The port type is network by default.
BPDU: sent 4838, received 0

```

This example shows how to display detailed STP information about a specified interface when you are running MST:

```

switch(config)# show spanning-tree interface ethernet 10/1 detail
Port 1281 (Ethernet10/1) of MST0000 is designated forwarding
Port path cost 20000, Port priority 128, Port Identifier 128.1281
Designated root has priority 28672, address 0018.bad8.239d
Designated bridge has priority 28672, address 0018.bad8.239d
Designated port id is 128.1281, designated path cost 0
Timers: message age 0, forward delay 0, hold 0
Number of transitions to forwarding state: 1
Link type is point-to-point by default, Internal
PVST Simulation is enabled by default
BPDU: sent 290, received 0

```

This example shows how to display detailed STP information about a specified port-channel interface when you are running a virtual port channel (vPC):

```

switch(config)# show spanning-tree interface port-channel 10
-----
Vlan          Role Sts Cost      Prio.Nbr Type
-----
VLAN0001      Root FWD 2         128.4105 (vPC peer-link) P2p
VLAN0002      Root FWD 2         128.4105 (vPC peer-link) P2p
VLAN0003      Root FWD 2         128.4105 (vPC peer-link) P2p
VLAN0004      Root FWD 2         128.4105 (vPC peer-link) P2p

```

## Related Commands

Command	Description
<b>show spanning-tree mst</b>	Displays information about the MST STP.
<b>show spanning-tree</b>	Displays information about STP.
<b>show spanning-tree active</b>	Displays information about the STP active interfaces only.
<b>show spanning-tree bridge</b>	Displays the bridge ID, timers, and protocol for the local bridge on the device.
<b>show spanning-tree brief</b>	Displays brief summary information about STP.
<b>show spanning-tree detail</b>	Displays detailed information about STP.
<b>show spanning-tree root</b>	Displays the status and configuration of the root bridge for the STP instance to which this device belongs.

Command	Description
<b>show spanning-tree summary</b>	Displays summary information about STP.
<b>show spanning-tree vlan</b>	Displays STP information about specified VLANs.



## show spanning-tree mst

To display information about the Multiple Spanning Tree (MST ) status and configuration, use the **show spanning-tree mst** command.

```
show spanning-tree mst [instance-id [detail] interface {ethernet slot/port|port-channel channel-number}
[detail]]] [configuration [digest]] [detail] [interface ethernet slot/port|port-channel channel-number
[detail]]
```

### Syntax Description

<i>instance-id</i>	(Optional) MST instance that you want to display.
<b>detail</b>	(Optional) Displays detailed MST information.
<b>interface</b>	Displays the interface or range of interfaces that you want to display.
<b>ethernet</b> <i>slot/port</i>	Displays the Ethernet interface and slot or port number. The range is from 1 to 253.
<b>port-channel</b> <i>channel-number</i>	Displays the port-channel number. The range is from 1 to 4096.
<b>configuration</b>	(Optional) Displays current MST regional information. Displays VLAN-to-instance mapping of all VLANs.
<b>digest</b>	(Optional) Displays information about the MD5 digest.

### Command Default

None

### Command Modes

Any command mode  
Supported User Roles  
network-admin  
vdc-admin

### Command History

Release	Modification
4.0	This command was introduced.
4.1.2	This command was enhanced to display vPC information.

**Usage Guidelines**

If you are not running in Spanning Tree Protocol (STP) Multiple Spanning Tree (MST) mode but are running in STP Rapid Per VLAN Spanning Tree (Rapid PVST+) mode, when you enter this command, the device returns the following message:

```
ERROR: Switch is not in mst mode
```

See [Table 1-1](#) for information on valid values for fields.

This command does not require a license.

**Examples**

This example shows how to display STP information about MST instance information for the VLAN ports that are currently active:

```
switch# show spanning-tree mst
##### MST0      vlans mapped: 1-4094
Bridge          address 0018.bad7.fc15 priority      32768 (32768 sysid 0)
Root            this switch for the CIST
Regional Root   this switch
Operational     hello time 2 , forward delay 15, max age 20, txholdcount 6
Configured      hello time 2 , forward delay 15, max age 20, max hops 20
Interface       Role Sts Cost          Prio.Nbr Type
-----
Eth8/1          Desg FWD 20000      128.1025 P2p
Eth8/2          Desg FWD 20000      128.1026 P2p
```

This example shows how to display STP information about a specific MST instance:

```
switch)# show spanning-tree mst 0
##### MST0      vlans mapped: 1-4094
Bridge          address 0018.bad7.fc15 priority      32768 (32768 sysid 0)
Root            this switch for the CIST
Regional Root   this switch
Operational     hello time 2 , forward delay 15, max age 20, txholdcount 6
Configured      hello time 2 , forward delay 15, max age 20, max hops 20
Interface       Role Sts Cost          Prio.Nbr Type
-----
Eth8/1          Desg FWD 20000      128.1025 P2p
Eth8/2          Desg FWD 20000      128.1026 P2p
```

This example shows how to display detailed STP information about the MST protocol:

```
switch)# show spanning-tree mst detail
##### MST0      vlans mapped: 1-4094
Bridge          address 0018.bad7.fc15 priority      32768 (32768 sysid 0)
Root            this switch for the CIST
Regional Root   this switch
Operational     hello time 2 , forward delay 15, max age 20, txholdcount 6
Configured      hello time 2 , forward delay 15, max age 20, max hops 20
Eth8/1 of MST0 is designated forwarding
Port info       port id      128.1025 priority    128 cost     20000
Designated root address 0018.bad7.fc15 priority    32768 cost     0
Design. regional root address 0018.bad7.fc15 priority    32768 cost     0
Designated bridge address 0018.bad7.fc15 priority    32768 port id 128.1025
Timers: message expires in 0 sec, forward delay 0, forward transitions 1
Bpdus sent 1379, received 3
Eth8/2 of MST0 is designated forwarding
Port info       port id      128.1026 priority    128 cost     20000
Designated root address 0018.bad7.fc15 priority    32768 cost     0
Design. regional root address 0018.bad7.fc15 priority    32768 cost     0
Designated bridge address 0018.bad7.fc15 priority    32768 port id 128.1026
Timers: message expires in 0 sec, forward delay 0, forward transitions 1
Bpdus sent 1380, received 2
```

This example shows how to display STP information about specified MST interfaces:

```
switch)# show spanning-tree mst interface ethernet 8/2
Eth8/2 of MST0 is designated forwarding
Port Type: normal (default) port guard : none (default)
Link type: point-to-point (auto) bpdu filter: disable (default)
Boundary : internal bpdu guard : disable (default)
Bpdus sent 1423, received 2
-----
Instance Role Sts Cost Prio.Nbr Vlans mapped
-----
0 Desg FWD 20000 128.1026 1-4094
```

This example shows how to display information about the MST configuration:

```
switch)# show spanning-tree mst configuration
Name: [mst-bldg-sj6/3]
Revision: 1 Instances Configured: 3
Instance Vlans mapped
-----
0 1
2000 2-2000
4094 2001-4094
-----
```

This example shows how to display the MD5 digest included in the current MST configuration:

```
switch)# show spanning-tree mst configuration digest
Name [mst-config]
Revision 10 Instances configured 25
Digest 0x40D5ECA178C657835C83BBCB16723192
Pre-std Digest 0x27BF112A75E72781ED928D9EC5BB4251
```

## Related Commands

Command	Description
<b>show spanning-tree</b>	Displays information about STP.
<b>show spanning-tree active</b>	Displays information about the STP active interfaces only.
<b>show spanning-tree bridge</b>	Displays the bridge ID, timers, and protocol for the local bridge on the device.
<b>show spanning-tree brief</b>	Displays brief summary information about STP.
<b>show spanning-tree detail</b>	Displays detailed information about STP.
<b>show spanning-tree interface</b>	Displays the STP interface status and configuration of specified interfaces.
<b>show spanning-tree root</b>	Displays the status and configuration of the root bridge for the STP instance to which this device belongs.
<b>show spanning-tree summary</b>	Displays summary information about STP.
<b>show spanning-tree vlan</b>	Displays STP information about specified VLANs.

## show spanning-tree root

To display the status and configuration of the Spanning Tree Protocol (STP) root bridge, use the **show spanning-tree root** command.

**show spanning-tree root** [**address**] **brief** **cost** **detail** **forward-time** **hello-time** **id** **max-age** **port** **priority** [**system-id**]

### Syntax Description

<b>address</b>	(Optional) Displays the MAC address for the STP root bridge.
<b>brief</b>	(Optional) Displays a brief summary of the status and configuration for the the root bridge.
<b>cost</b>	(Optional) Displays the path cost from the root to this bridge.
<b>detail</b>	(Optional) Displays detailed information about the status and configuration for the root bridge.
<b>forward-time</b>	(Optional) Displays the STP forward delay interval for the root bridge.
<b>hello-time</b>	(Optional) Displays the STP hello time for the root bridge.
<b>id</b>	(Optional) Displays the STP bridge identifier for the root bridge.
<b>max-age</b>	(Optional) Displays the STP maximum-aging time for the root bridge.
<b>port</b>	(Optional) Displays which port is the root port.
<b>priority</b>	(Optional) Displays the bridge priority for the root bridge.
<b>system-id</b>	(Optional) Displays the bridge identifier with the system ID extension for the root bridge.

### Command Default

None

### Command Modes

Any command mode  
Supported User Roles

network-admin  
vdc-admin

**Command History**

Release	Modification
4.0	This command was introduced.

**Usage Guidelines**

This command does not require a license.

**Examples**

This example shows how to display information for the root bridge:

```
switch(config)# show spanning-tree root
MST Instance          Root ID          Cost   Time Age Dly   Root Port
-----
MST0000              32768 0018.bad7.fc15  0     2   20  15   This bridge is root
```

**Related Commands**

Command	Description
<b>show spanning-tree mst</b>	Displays information about the MST STP.
<b>show spanning-tree</b>	Displays information about STP.
<b>show spanning-tree active</b>	Displays information about the STP active interfaces only.
<b>show spanning-tree bridge</b>	Displays the bridge ID, timers, and protocol for the local bridge on the device.
<b>show spanning-tree brief</b>	Displays a brief summary about STP information.
<b>show spanning-tree detail</b>	Displays detailed information about STP.
<b>show spanning-tree interface</b>	Displays the STP interface status and configuration of specified interfaces.
<b>show spanning-tree summary</b>	Displays summary information about STP.
<b>show spanning-tree vlan</b>	Displays STP information about specified VLANs.

# show spanning-tree summary

To display summary Spanning Tree Protocol (STP) information on the device, use the **show spanning-tree summary** command.

**show spanning-tree summary [totals]**

## Syntax Description

<b>totals</b>	(Optional) Displays totals only of STP information.
---------------	---

## Command Default

None

## Command Modes

Any command mode

## Command History

Release	Modification
5.2(1)	Updated the example to display information for STP-lite. For more information about STP-lite, see the Cisco NX-OS FCoE Configuration Guide for Cisco Nexus 7000 and Cisco MDS 9500.
4.0	This command was introduced.

## Usage Guidelines

The display output for this command differs when you are running Rapid Per VLAN Spanning Tree (Rapid PVST+) or Multiple Spanning Tree (MST).

This command does not require a license.

## Examples

This example shows how to display a summary of STP information about the device when you are running Rapid PVST+:

```
switch(config)# show spanning-tree summary
Switch is in rapid-pvst mode
Root bridge for: VLAN0001
Port Type Default is disable
Edge Port [PortFast] BPDU Guard Default is disabled
Edge Port [PortFast] BPDU Filter Default is disabled
Bridge Assurance is enabled
Loopguard Default is disabled
Pathcost method used is short
Name Blocking Listening Learning Forwarding STP Active
-----
VLAN0001 1 0 0 1 2
VLAN0002 2 0 0 0 2
VLAN0003 2 0 0 0 2
-----
3 vlans 5 0 0 1 6
STP-lite running in the following VLAN instances
```

```
-----
VLAN0002
VLAN0003
```

This example shows how to display a summary of STP information about the device when you are running MST:

```
switch(config)# show spanning-tree summary
Switch is in mst mode (IEEE Standard)
Root bridge for: MST0000
Port Type Default          is disable
Edge Port [PortFast] BPDU Guard Default is disabled
Edge Port [PortFast] BPDU Filter Default is disabled
Bridge Assurance           is enabled
Loopguard Default         is disabled
Pathcost method used      is long
PVST Simulation           is enabled
Name           Blocking Listening Learning Forwarding STP Active
-----
MST0000           0           0           0           2           2
-----
1 mst             0           0           0           2           2
```

### Related Commands

Command	Description
<b>show spanning-tree mst</b>	Displays information about the MST STP.
<b>show spanning-tree</b>	Displays information about STP.
<b>show spanning-tree active</b>	Displays information about the STP active interfaces only.
<b>show spanning-tree bridge</b>	Displays the bridge ID, timers, and protocol for the local bridge on the device.
<b>show spanning-tree brief</b>	Displays a brief summary about STP information.
<b>show spanning-tree detail</b>	Displays detailed information about STP.
<b>show spanning-tree interface</b>	Displays the STP interface status and configuration of specified interfaces.
<b>show spanning-tree root</b>	Displays the status and configuration of the root bridge for the STP instance to which this device belongs.
<b>show spanning-tree vlan</b>	Displays STP information about specified VLANs.

## show spanning-tree vlan

To display Spanning Tree Protocol (STP) information for specified VLANs, use the **show spanning-tree vlan** command.

```
show spanning-tree vlan vlan-id [active [brief detail]] blockedports| bridge [address]| brief| detail|
forward-time| hello-time| id| max-age| priority [system-id]| protocol| brief [active]| detail| inconsistentports|
interface {ethernet slot/port| port-channel channel-number} [active [brief detail]]| brief [active]| cost|
detail [active]| edge| inconsistency| priority| rootcost| state| root [address| brief| cost| detail| forward-time|
hello-time| id| max-age| port| priority [system-id]]| summary
```

### Syntax Description

<i>vlan-id</i>	VLAN or range of VLANs that you want to display. The range is from 1 to 4096.
<b>active</b>	(Optional) Displays information on STP VLANs and active ports.
<b>brief</b>	(Optional) Displays a brief summary of STP information for the specified VLANs.
<b>detail</b>	(Optional) Displays detailed STP information for the specified VLANs.
<b>blockedports</b>	(Optional) Displays the STP alternate ports in the blocked state for the specified VLANs.
<b>bridge</b>	(Optional) Displays the status and configuration of the bridge for the specified VLANs.
<b>address</b>	(Optional) Displays the MAC address for the specified STP bridge for the specified VLANs.
<b>forward-time</b>	(Optional) Displays the STP forward delay interval for the bridge for the specified VLANs.
<b>hello-time</b>	(Optional) Displays the STP hello time for the bridge for the specified VLANs.
<b>id</b>	(Optional) Displays the STP bridge identifier for the specified VLANs.
<b>max-age</b>	(Optional) Displays the STP maximum-aging time for the specified VLANs.
<b>priority</b>	(Optional) Displays the STP priority for the specified VLANs.



<b>system-id</b>	(Optional) Displays the bridge identification with the system ID added for the specified VLANs.
<b>protocol</b>	(Optional) Displays which STP protocol is active on the device.
<b>inconsistentports</b>	(Optional) Displays the ports that are in an inconsistent STP state for specified VLANs.
<b>ethernet</b> <i>slot/port</i>	Displays the Ethernet interface and slot or port number. The range is from 1 to 253.
<b>port-channel</b> <i>channel-number</i>	Displays the port channel interface. The range is from 1 to 4096.
<b>cost</b>	(Optional) Displays the STP path cost for the specified VLANs.
<b>edge</b>	(Optional) Displays the STP-type edge port information for the specified interface for the specified VLANs.
<b>inconsistency</b>	(Optional) Displays the STP port inconsistency state for the specified interface for the specified VLANs.
<b>priority</b>	(Optional) Displays the STP priority for the specified VLANs.
<b>rootcost</b>	(Optional) Displays the path cost to the root for specified interfaces for the specified VLANs.
<b>state</b>	Current port STP state. Valid values are as follows: <ul style="list-style-type: none"> <li>• BLK (blocking)</li> <li>• DIS (disabled)</li> <li>• LRN (learning)</li> <li>• FWD (forwarding)</li> </ul>
<b>port</b>	(Optional) Displays information about the root port for the specified VLANs,
<b>summary</b>	(Optional) Displays summary STP information about the specified VLANs.

**Command Default**      None

**Command Modes**

Any command mode  
 Supported User Roles  
 network-admin  
 vdc-admin

**Command History**

Release	Modification
4.0	This command was introduced.
4.1.2	This command was enhanced to display vPC information.

**Usage Guidelines**

This command does not require a license.

**Examples**

This example shows how to display STP information about VLAN 4:

```
switch# show spanning-tree vlan 4
VLAN0004
  Spanning tree enabled protocol rstp
  Root ID    Priority    32772
            Address    000d.eca3.9f01
            Cost      4
            Port      4105 (port-channel10)
            Hello Time 2 sec  Max Age 20 sec  Forward Delay 15 sec
  Bridge ID  Priority    32772 (priority 32768 sys-id-ext 4)
            Address    0022.5579.7641
            Hello Time 2 sec  Max Age 20 sec  Forward Delay 15 sec
Interface   Role Sts Cost      Prio.Nbr Type
-----
Po10        Root FWD 2         128.4105 (vPC peer-link) P2p
Po20        Desg FWD 1         128.4115 (vPC) P2p
Po30        Root FWD 1         128.4125 (vPC) P2p
```

**Related Commands**

Command	Description
<b>show spanning-tree mst</b>	Displays information about the MST STP.
<b>show spanning-tree</b>	Displays information about STP.
<b>show spanning-tree active</b>	Displays information about the STP active interfaces only.
<b>show spanning-tree bridge</b>	Displays the bridge ID, timers, and protocol for the local bridge on the device.
<b>show spanning-tree brief</b>	Displays brief summary information about STP.
<b>show spanning-tree detail</b>	Displays detailed information about STP.

Command	Description
<b>show spanning-tree interface</b>	Displays the STP interface status and configuration of specified interfaces.
<b>show spanning-tree root</b>	Displays the status and configuration of the root bridge for the STP instance to which this device belongs.
<b>show spanning-tree summary</b>	Displays summary information about STP.

# show startup-config vlan

To display VLAN configuration information in the startup configuration, use the **show startup-config vlan** command.

**show startup-config vlan** *vlan-id*

## Syntax Description

<i>vlan-id</i>	Number of VLAN or range of VLANs. Valid numbers range from 1 to 4096.
----------------	---

## Command Default

None

## Command Modes

Any command mode  
Supported User Roles  
network-admin  
vdc-admin

## Command History

Release	Modification
4.1(2)	This command was introduced.

## Usage Guidelines

This command does not require a license.

## Examples

This example shows how to display the VLAN information in the startup configuration:

```
switch(config)# show startup-config vlan
version 4.1(2)
vlan 1
ip arp inspection vlan 1
```

## Related Commands

Command	Description
<b>show vlan</b>	Displays information about all the VLANs on the device.

# show startup-config vtp

To display VLAN Trunking Protocol (VTP) configuration information in the startup configuration, use the **show startup-config vtp** command.

**show startup-config vtp**

**Syntax Description** This command has no arguments or keywords.

**Command Default** None

**Command Modes** Any command mode

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.1(2)	This command was introduced.

**Usage Guidelines** This command does not require a license.

**Examples** This example shows how to display the VTP information in the startup configuration:

```
switch(config)# show startup-config vtp
version 4.1(2)
feature vtp
vtp mode transparent
vtp domain accounting
```

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>show vtp status</b>	Displays information about VTP on the device.

# show system vlan reserved

To display the system reserved VLAN range, use the **show system vlan reserved** command.

**show system vlan reserved**

**Syntax Description** This command has no arguments or keywords.

**Command Default** None

**Command Modes**

- Any command mode
- Supported User Roles
- network-admin
- network-operator
- vdc-admin
- vdc-operator

## Command History

Release	Modification
5.2(1)	This command was introduced.

## Usage Guidelines

This command does not require a license.

## Examples

This example shows how to display the system reserved VLAN range:

```
switch# show system vlan reserved
system current running vlan reservation: 3968-4095
switch#
```

## Related Commands

Command	Description
<b>system vlan reserve</b>	Configures the reserved VLAN range.
<b>write erase all</b>	Reverts to the default reserved VLAN range.

# show vlan

To display VLAN information, use the **show** vlan command.

**show vlan** [**all-ports**] [**brief**] [**name** *name*] [**summary**]

## Syntax Description

<b>all-ports</b>	(Optional) Displays all ports on VLANs.
<b>brief</b>	(Optional) Displays only a single line for each VLAN, naming the VLAN, status, and ports.
<b>name</b> <i>name</i>	(Optional) Displays information about a single VLAN that is identified by the VLAN name; valid values are an ASCII string from 1 to 32 characters.
<b>summary</b>	(Optional) Displays the number of existing VLANs on the device.

## Command Default

None

## Command Modes

Any command mode

Supported User Roles

network-admin

vdc-admin

## Command History

Release	Modification
5.1(1)	Changed the command output.
4.0	This command was introduced.

## Usage Guidelines

This command displays information for all VLANs, including private VLANs, on the device.

Each access port can belong to only one VLAN. Trunk ports can be on multiple VLANs.



### Note

Although a port can be associated with a VLAN as an access VLAN, a native VLAN, or one of the trunk allowed ports, the display under Ports for this command lists only access VLANs.

If you shut down a VLAN using the **state suspend** or the **state active** command, these values appear in the Status field:

- suspended—The VLAN is suspended.
- active—The VLAN is active.

If you shut down a VLAN using the **shutdown** command, these values appear in the Status field:

- act/lshut—The VLAN status is active but shut down locally.
- sus/lshut—The VLAN status is suspended but shut down locally.

If a VLAN is shut down internally, these values appear in the Status field:

- act/ishut—The VLAN status is active but shut down internally.
- sus/ishut—The VLAN status is suspended but shut down internally.

If a VLAN is shut down locally and internally, the value that is displayed in the Status field is act/ishut or sus/ishut. If a VLAN is shut down locally only, the value that is displayed in the Status field is act/lshut or sus/lshut.

## Examples

This example shows how to display information for all VLANs on the device:

```
switch# show vlan
VLAN Name                Status      Ports
-----
1    default                active      Eth5/1, Eth5/2, Eth5/3, Eth5/4
                                           Eth5/5, Eth5/6, Eth5/7, Eth5/8
                                           Eth5/9, Eth5/10, Eth5/11
                                           Eth5/12, Eth5/13, Eth5/14
                                           Eth5/15, Eth5/16, Eth5/17
                                           Eth5/18, Eth5/19, Eth5/20
                                           Eth5/21, Eth5/22, Eth5/23
                                           Eth5/24, Eth5/25, Eth5/26
                                           Eth5/27, Eth5/28, Eth5/29
                                           Eth5/30, Eth5/31, Eth5/32
                                           Eth7/1

10   VLAN0010                active
VLAN Type  Vlan-mode
-----
1    enet  CE
10   enet  FABRICPATH
Remote SPAN VLANs

Primary  Secondary  Type          Ports
-----
switch#
```

This example shows how to display the VLANs and all ports for each VLAN:

```
switch#
switch# show vlan all-ports
VLAN Name                Status      Ports
-----
1    default                active      Po5, Po37, Po50, Eth2/1, Eth2/2
                                           Eth2/3, Eth2/5, Eth2/7, Eth2/8
                                           Eth2/9, Eth2/10, Eth2/15
                                           Eth2/21, Eth2/22, Eth2/23
                                           Eth2/24, Eth2/25, Eth2/26
                                           Eth2/27, Eth2/28, Eth2/46
                                           Eth2/47, Eth2/48

5    VLAN0005                active
```



```

6    VLAN0006          active
7    VLAN0007          active
8    test              active
9    VLAN0009          active
10   VLAN0010          active
50   VLAN0050          active    Eth2/6
100  trunked           active
200  VLAN0200          active
201  VLAN0201          active
202  VLAN0202          active
    
```

This example shows how to display the VLAN name, status, and associated ports only:

```

switch#
show vlan brief
VLAN Name                Status      Ports
-----
1    default              active     Eth2/5, Eth2/7, Eth2/8, Eth2/9
                                   Eth2/10, Eth2/15, Eth2/47
                                   Eth2/48
5    VLAN0005             active
6    VLAN0006             active
7    VLAN0007             active
8    test                 active
9    VLAN0009             active
10   VLAN0010             active
50   VLAN0050             active     Eth2/6
100  trunked              active.
    
```

This example shows how to display the VLAN information for a specific VLAN by name:

```

switch#
show vlan name test
VLAN Name                Status      Ports
-----
8    test                 active
VLAN Type
-----
8    enet
Remote SPAN VLAN
-----
Disabled
Primary Secondary Type      Ports
-----
                                     100
    
```

This example shows how to display information about the number of VLANs configured on the device:

```

switch# show vlan summary
Number of existing VLANs      : 9
Number of existing user VLANs : 9
Number of existing extended VLANs : 0
    
```

**Related Commands**

Command	Description
<b>show interface switchport</b>	Displays information about the switch ports, including those switch ports in private VLANs,
<b>show vlan private-vlan</b>	Displays private VLAN information.

# show vlan counters

To display the statistics for a specified VLAN or for all VLANs, use the **show vlan counters** command.

**show vlan** [*id vlan-id*] **counters**

## Syntax Description

<b>id</b>	(Optional) Displays the VLAN ID that you want to clear .
<i>vlan-id</i>	Number of the VLAN that you want to clear . The range is from 1 to 4096.

## Command Default

None

## Command Modes

Any command mode  
Supported User Roles  
network-admin  
vdc-admin

## Command History

Release	Modification
4.0	This command was introduced.

## Usage Guidelines

This command displays the counters for all the VLANs, including the private VLANs, on the device.

If you omit the VLAN ID, the system displays statistics for all the VLANs on the device. This command displays:

- Transmitted and received unicast, multicast, and routed packets and octets
- Information about Layer 2, IPv4, and IPv6 unicast, multicast, and unknown packets and octets

Separate VLAN ranges with a hyphen, and separate VLANs with a comma and no spaces in between. For example, you can enter the following:

```
switch# show vlan id 1-4,3,7,5-20
```

This command does not require a license.

**Examples**

This example shows how to display statistics for VLAN 9:

```
switch(config)# show vlan id 9 counters
Vlan Id                :10
L2 IPv4 Unicast Octets :0
L2 IPv4 Unicast Packets :0
L2 IPv4 Multicast Octets :0
L2 IPv4 Multicast Packets :0
L2 IPv6 Unicast Octets :0
L2 IPv6 Unicast Packets :0
L2 IPv6 Multicast Octets :0
L2 IPv6 Multicast Packets :0
L2 Unicast Octets      :25600000
L2 Unicast Packets     :400000
L2 Multicast Octets    :0
L2 Multicast Packets   :0
L2 Broadcast Octets    :12800000
L2 Broadcast Packets   :200000
L2 Unknown Unicast Octets :19200000
L2 Unknown Unicast Packets :300000
L3 Routed Octets In    :0
L3 Routed Packets In   :0
L3 Routed Octets Out   :0
L3 Routed Packets Out  :0
L3 Multicast Octets In :0
L3 Multicast Packets In :0
L3 Multicast Octets Out :0
L3 Multicast Packets Out :0
L3 Unicast Octets In   :0
L3 Unicast Packets In  :0
L3 Unicast Octets Out  :0
L3 Unicast Packets Out :0
```

**Related Commands**

Command	Description
<b>clear vlan counters</b>	Clears the counters for all or specified VLANs on the device.

# show vlan dot1q tag native

To display the status of tagging on the native VLANs, use the **show vlan dot1q tag native** command.

**show vlan dot1q tag native**

**Syntax Description** This command has no arguments or keywords.

**Command Default** None

**Command Modes** Any command mode  
Supported User Roles  
network-admin  
vdc-admin

Command History	Release	Modification
	4.0	This command was introduced.

**Usage Guidelines** This command does not require a license.

**Examples** This example shows how to display the status of native VLAN tagging on the device:

```
switch# show vlan dot1q tag native
vlan dot1q native tag is disabled
```

Related Commands	Command	Description
	<b>vlan dot1q tag native</b>	Enables 802.1Q tagging for all the VLANs in a trunk on the device.

# show vlan id

To display information and statistics for an individual VLAN or a range of VLANs, use the **show vlan id** command.

**show vlan *id* [counters]**

## Syntax Description

<i>id</i>	Number of the VLAN or range of VLANs. The range is from 1 to 4096.
<b>counters</b>	Displays the statistics about specified VLANs.

## Command Default

None

## Command Modes

Any command mode

Supported User Roles

network-admin

vdc-admin

## Command History

Release	Modification
4.0	This command was introduced.

## Usage Guidelines

Use this command to display information and statistics about an individual VLAN or a range of VLANs, including private VLANs.

When you use the **counters** argument, this command displays the following statistics for the individual VLAN or range of VLANs:

- Transmitted and received unicast, multicast, and routed packets and octets
- Information on Layer 2, IPv4, and IPv6 unicast, multicast, and unknown packets and octets



### Note

You can also display information about individual VLANs by using the **show vlan name** command.

This command does not require a license.

**Examples**

This example shows how to display information for VLAN 50:

```
switch# show vlan id 50

VLAN Name                Status    Ports
-----
50    VLAN0050                active    Eth2/6
VLAN Type
-----
50    enet
Remote SPAN VLAN
-----
Disabled
Primary  Secondary  Type          Ports
-----
```

This example shows how to display statistics for VLAN 10:

```
switch(config)# show vlan id 10 counters
Vlan Id                :10
L2 IPv4 Unicast Octets :0
L2 IPv4 Unicast Packets :0
L2 IPv4 Multicast Octets :0
L2 IPv4 Multicast Packets :0
L2 IPv6 Unicast Octets :0
L2 IPv6 Unicast Packets :0
L2 IPv6 Multicast Octets :0
L2 IPv6 Multicast Packets :0
L2 Unicast Octets      :25600000
L2 Unicast Packets     :400000
L2 Multicast Octets    :0
L2 Multicast Packets   :0
L2 Broadcast Octets    :12800000
L2 Broadcast Packets   :200000
L2 Unknown Unicast Octets :19200000
L2 Unknown Unicast Packets :300000
L3 Routed Octets In    :0
L3 Routed Packets In   :0
L3 Routed Octets Out   :0
L3 Routed Packets Out  :0
L3 Multicast Octets In :0
L3 Multicast Packets In :0
L3 Multicast Octets Out :0
L3 Multicast Packets Out :0
L3 Unicast Octets In   :0
L3 Unicast Packets In  :0
L3 Unicast Octets Out  :0
L3 Unicast Packets Out :0
```

**Related Commands**

Command	Description
<b>clear vlan counters</b>	Clears the counters for all or specified VLANs on the device.

# show vlan private-vlan

To display private VLAN information, use the **show vlan private-vlan** command.

**show vlan** [*id vlan-id*] **private-vlan** [*type*]

## Syntax Description

<b>id</b>	(Optional) Displays the VLAN or range of VLANs. The range is from 1 to 4096.
<i>vlan-id</i>	(Optional) Private VLAN information for the specified VLAN. The range is from 1 to 4096.
<b>type</b>	(Optional) Displays the private VLAN type (primary, isolated, or community).

## Command Default

None

## Command Modes

Any command mode

Supported User Roles

network-admin

vdc-admin

## Command History

Release	Modification
4.0	This command was introduced.

## Usage Guidelines

This command does not require a license.

## Examples

This example shows how to display information about all private VLANs on the device:

```
switch(config)# show vlan private-vlan
Primary  Secondary  Type          Ports
-----  -
200      201        isolated     Eth2/26, Eth2/27
200      202        community    Eth2/26, Eth2/28
```

This example shows how to display information for a specific private VLAN:

```
switch(config)# show vlan id 202 private-vlan
Primary  Secondary  Type          Ports
-----  -
200      202        community    Eth2/26, Eth2/28
```

This example shows how to display information about the types of all private VLANs on the device:

```
switch(config)# show vlan private-vlan type
Vlan Type
-----
200 primary
201 isolated
202 community
```

This example shows how to display information on the type for the specified private VLAN:

```
switch(config)# show vlan id 202 private-vlan type
Vlan Type
-----
202 community
```

### Related Commands

Command	Description
<b>show interface switchport</b>	Displays information about the switch ports, including those switch ports in private VLANs.
<b>show interface private-vlan mapping</b>	Displays information about the private VLAN mapping between the primary and secondary VLANs so that both VLANs share the same primary VLAN interface.
<b>show vlan</b>	Displays information about all the VLANs on the device.



# show vtp counter

To display the Virtual Trunking Protocol (VTP) statistics information, use the **show vtp counter** command.

**show vtp counter**

**Syntax Description** This command has no arguments or keywords.

**Command Default** None

**Command Modes** Any command mode  
Supported User Roles  
network-admin  
vdc-admin

Command History	Release	Modification
	5.1(1)	This command was introduced.

**Usage Guidelines** This command does not require a license.

**Examples** This example shows how to display statistics information about VTP on the device:

```
switch# show vtp counter
VTP statistics:
Summary advertisements received      : 544
Subset advertisements received      : 270
Request advertisements received     : 0
Summary advertisements transmitted  : 260
Subset advertisements transmitted   : 5
Request advertisements transmitted   : 274
Number of config revision errors    : 0
Number of config digest errors      : 270
Number of V1 summary errors         : 0

VTP pruning statistics:

Trunk          Join Transmitted Join Received   Summary advts received from
-----          -----          -----          -----
Ethernet1/31   12977          12982          542
switch#
```

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>feature vtp</b>	Enables VTP on the device.
<b>vtp domain</b>	Configures the VTP domain name.
<b>vtp version</b>	Configures the VTP version.

# show vtp devices

To display information about all VLAN Trunking Protocol (VTP) version 3 devices in the domain, use the **show vtp devices** command.

**show vtp devices [conflicts]**

## Syntax Description

<b>conflicts</b>	(Optional) Displays information about conflicts.
------------------	--

## Command Default

None

## Command Modes

Any command mode

Supported User Roles

network-admin

vdc-admin

## Command History

Release	Modification
7.1(1)D1(0)	This command was introduced.

## Usage Guidelines

The **show vtp devices** displays information about all VTP version 3 devices in the domain. The optional **conflicts** keyword displays information about VTP version 3 devices with conflicting primary servers.

The **show vtp devices** command does not display information when the switch is in transparent or off mode.

This command does not require a license.

## Examples

This example shows how to display information about all VTP version 3 devices in the domain:

```
switch# show vtp devices
Gathering information from the domain, please wait.
VTP Database Conf switch ID      Primary Server Revision  System Name
-----
-----
VLAN          Yes  00b0.8e50.d000  000c.0412.6300 12354  main.cisco.com
MST           No   00b0.8e50.d000  0004.AB45.6000 24     main.cisco.com
VLAN          Yes  000c.0412.6300=000c.0412.6300 67     qwerty.cisco.com
```

## Related Commands

Command	Description
<b>feature vtp</b>	Enables VTP on the device.

Command	Description
vtp version	Configures the VTP version.

# show vtp interface

To display the Virtual Trunking Protocol (VTP) interface status and configuration, use the **show vtp interface** command.

**show vtp interface** [ *if-identifier* ]

## Syntax Description

<i>if-identifier</i>	(Optional) Identifier of an interface. Examples are ethernet 3/22 or port channel 120.
----------------------	--

## Command Default

None

## Command Modes

Any command mode  
Supported User Roles  
network-admin  
vdc-admin

## Command History

Release	Modification
5.1(1)	This command was introduced.

## Usage Guidelines

If a single interface is specified, the information for that interface alone is presented to the user; otherwise, the command applies to all currently active interfaces.

This command does not require a license.

## Examples

This example shows how to display the VTP interface status and configuration on the device:

```
switch# show vtp interface ethernet 3/22

Interface          VTP Status
-----
Ethernet3/22      Enabled
switch#

switch# show vtp interface

Interface          VTP Status
-----
Ethernet1/8        Enabled
Ethernet3/2        Disabled
Ethernet3/22       Enabled
switch#
```

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>show vtp counters</b>	Displays VTP statistics information.
<b>show interface pruning</b>	Displays interface trunk VTP pruning information.
<b>show interface counters</b>	Displays information about the statistics for the specified VLANs.

# show vtp password

To display a Virtual Trunking Protocol (VTP) password, use the **show vtp password** command.

```
show vtp password
```

**Syntax Description** This command has no arguments or keywords.

**Command Default** None

**Command Modes** Any command mode  
Supported User Roles  
network-admin  
vdc-admin

Command History	Release	Modification
	5.1(1)	This command was introduced.

**Usage Guidelines** This command does not require a license.

**Examples** This example shows how to display a VTP password on the device:

```
switch# show vtp password squirrel
VTP password:
switch#
```

Related Commands	Command	Description
	<b>feature vtp</b>	Enables VTP on the device.
	<b>vtp domain</b>	Configures the VTP domain name.
	<b>vtp version</b>	Configures the VTP version.

# show vtp status

To display the Virtual Trunking Protocol (VTP) information, use the **show vtp status** command.

**show vtp status**

**Syntax Description** This command has no arguments or keywords.

**Command Default** None

**Command Modes** Any command mode  
Supported User Roles  
network-admin  
vdc-admin

Command History	Release	Modification
	4.1(2)	This command was introduced.

**Usage Guidelines** This command is not available if VTP is not enabled.



**Note** You cannot enable or configure VTP pruning or V2 modes.

This command does not require a license.

**Examples** This example shows how to display information about VTP on the device:

```
switch# show vtp status
VTP Status Information
-----
VTP Version                : 2 (capable)
Configuration Revision     : 1
Maximum VLANs supported locally : 1005
Number of existing VLANs   : 17
VTP Operating Mode         : Server
VTP Domain Name            :
VTP Pruning Mode           : Disabled (Operationally Disabled)
VTP V2 Mode                 : Disabled
MD5 Digest                  : 0x8D 0x0D 0xB4 0xE8 0xC3 0x3C 0x7F 0x99
Configuration last modified by 0.0.0.0 at 6-30-10 18:05:13
VTP version running        : 1
switch#
```



**Related Commands**

<b>Command</b>	<b>Description</b>
<b>feature vtp</b>	Enables VTP on the device.
<b>vtp domain</b>	Configures the VTP domain name.
<b>vtp version</b>	Configures the VTP version.

# shutdown (VLAN configuration)

To shut down the local traffic on a VLAN, use the **shutdown** command. To return a VLAN to its default operational state, use the **no** form of this command.

**shutdown**

**no shutdown**

**Syntax Description** This command has no arguments or keywords.

**Command Default** no shutdown

**Command Modes** VLAN configuration submode  
Supported User Roles  
network-admin  
vdc-admin

Command History	Release	Modification
	4.0	This command was introduced.

**Usage Guidelines** You cannot shut down, or disable, VLAN 1 or VLANs 1006 to 4094.

Once you shut down a VLAN, the traffic ceases to flow on that VLAN. Access ports on that VLAN are also brought down; trunk ports continue to carry traffic for the other VLANs allowed on that port. However, the interface associations for the specified VLAN remain, and when you reenables, or recreates, that specified VLAN, the device automatically reinstates all the original ports to that VLAN.

To find out if a VLAN has been shut down internally, check the Status field in the **show vlan** command output. If a VLAN is shut down internally, one of these values appears in the Status field:

- act/lshut—VLAN status is active and shut down internally.
- sus/lshut—VLAN status is suspended and shut down internally.



**Note** If the VLAN is suspended and shut down, you use both the **no shutdown** and **state active** commands to return the VLAN to the active state.

This command does not require a license.

**Examples**

This example shows how to restore local traffic on VLAN 2 after you have shut down, or disabled, the VLAN:

```
switch(config)# vlan 2  
switch(config-vlan)# no shutdown  
switch(config-vlan)#
```

**Related Commands**

Command	Description
<b>show vlan</b>	Displays VLAN information.

# show forwarding consistency I2

To display information about discrepant, missing, or extra MAC addresses between the supervisor and the module, use the **show forwarding consistency I2** command.

**show forwarding consistency I2** *module*

## Syntax Description

<i>module</i>	Module number that you are comparing with the supervisor MAC address table.
---------------	---

## Command Default

None

## Command Modes

Any command mode  
Supported User Roles  
network-admin  
vdc-admin

## Command History

Release	Modification
4.1(2)	This command was introduced.

## Usage Guidelines

Optimally, all the MAC address tables on each module match the MAC address table on the supervisor. This command does not require a license.

## Examples

This example shows how to display hardware information about all the MAC addresses for VLAN 1 on module 2:

```
switch# show forwarding consistency I2 9
Legend: * - primary entry, G - Gateway MAC, (R) - Routed MAC      age - seconds
since last seen
Missing entries in the MAC Table  VLAN      MAC Address      Type      age      Secure
NTFY  Ports
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
G    -    0018.bad7.e115    static     -        False  False  sup-eth1(R)
* 1    0001.1234.5600    static     -        False  False  Eth9/25G
2    0018.bad7.e115    static     -        False  False  sup-eth1(R)G
3    0018.bad7.e115    static     -        False  False  sup-eth1(R)
Extra and Discrepant entries in the MAC Table
      VLAN      MAC Address      Type      age      Secure  NTFY  Ports
-----+-----+-----+-----+-----+-----+-----+-----+-----+
G    -    0018.bad7.dc15    static     -        False  False  sup-eth1(R)
* 1    0001.1234.5601    static     -        False  False  Eth9/25
```

**Related Commands**

Command	Description
show mac address-table	Displays information about the MAC address table.

## show hardware mac address-table

To display information about the hardware MAC addresses, use the **show hardware mac address-table** command.

**show hardware mac address table** *module*

**address** *mac-address* [**interface** {*ethernet slot-port*|*port-channel channel-number*}] [**vlan** *vlan-id*]

**dynamic** [**address** *mac-address*] [**interface** {*ethernet slot/port*|*port-channel channel-number*}] [**vlan** *vlan-id*]

**interface** {*ethernet slot/port*|*port-channel channel-number*} [**address** *mac-address*] [**vlan** *vlan-id*]

**static** [**address** *mac-address*] [**interface** {*ethernet slot/port*|*port-channel channel-number*}] [**vlan** *vlan-id*]

**vlan** *vlan-id* [**address** *mac-address*] [**interface** {*ethernet slot/port*|*port-channel channel-number*}]

### Syntax Description

<i>module</i>	Module number.
<b>address</b> <i>macaddress</i>	(Optional) Specifies the MAC address in the format of X.X.X, XX-XX-XX-XX-XX-XX, XX:XX:XX:XX:XX:XX, XXXX.XXXX.XXXX.
<b>interface</b>	(Optional) Specifies the interface.
<b>ethernet</b> <i>slot/port</i>	Displays the Ethernet interface. Use either the type of interface, the slot number, or the port number. The range is from 1 to 253.
<b>port-channel</b> <i>channel-number</i>	Displays the port channel interface and port-channel number. The range is from 1 to 4096.
<b>vlan</b> <i>vlan-id</i>	(Optional) Specifies the VLAN number .
<b>dynamic</b>	(Optional) Specifies dynamic entries only .
<b>static</b>	(Optional) Specifies static entries only .

### Command Default

None

### Command Modes

Any command mode  
Supported User Roles  
network-admin  
vdc-admin

**Command History**

Release	Modification
4.0	This command was introduced.

**Usage Guidelines**

The fields are as follows:

- Valid—Entry is valid in the hardware.
- PI—Primary entry.
- BD—Bridge domain.
- MAC—MAC address.
- Index—Destination index; identifies the port on which the MAC address was learned.
- Static—Statically configured entry. The hardware does not modify this entry. This entry is not be aged by the line card process.
- SW—3-bit software value associated with this entry.
- Modified—MAC address entry that was modified by the hardware since the last notification. This value is set when index value changes.
- Age byte—Age timer value when the last packet arrived with this entry's MAC address as the source MAC address.
- Tmr sel—Age timer used for updating the age for this entry. Based on the aging value configured for the VLAN, one of the four timers is used for updating the age.
- GM—Gateway MAC address.
- Secure—Secured MAC address.
- TRAP—When this bit is set, the system drops any packet received with this source MAC address as this entry's trap bit MAC address.
- NTFY—Notify bit. When the Secured and Notify bits are both set, the system redirects packets to the supervisor when the hardware updates the index value.
- RM—Router MAC address.
- RMA—Router MAC address that is active.

**Note**

The RM and RMA fields are not supported on the Cisco Nexus 7000. Series device.

- Capture bit—When this bit is set, any packet sent to this destination is copied by setting the CAP1 bit.
- Fld—Flood bit. When this bit is set, any packet sent to this destination MAC causes the flood bit to be set in the result.

- Always learn—Always learn. When this bit is set, the hardware modifies the index value irrespective of whether this bit entry is marked static or not.

This command does not require a license.

### Examples

This example shows how to display hardware information about all the MAC addresses for VLAN 1 on module 2:

```
switch# show hardware mac address-table 2 vlan 1
Valid| PI| BD |          MAC          | Index | Stat| SW| Modi| Age| Tmr| GM| Sec| TR | NT | RM |
RMA | Cap|Fld| Always          |      |   |  |   |   |   |   |   |   |   |   |   |
|TURE| | Learn          |      |   |  |   |   |   |   |   |   |   |   |   |
-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
 1    0    1  0100.0cff.ffff  0x00421    1    1    0   152    0    0    0    0    0    0    0
 0    1    0           0
```

### Related Commands

Command	Description
show mac address-table	Displays information about the MAC address table.



# show interface mac-address

To display information about the MAC address and the burned-in MAC address, use the **show interface mac-address** command.

**show interface** [*type slot/port*] **mac-address**

## Syntax Description

<i>type slot/port</i>	(Optional) T ype of interface, slot number, and port number.
-----------------------	--

## Command Default

None

## Command Modes

Any command mode

Supported User Roles

network-admin

vdc-admin

## Command History

Release	Modification
4.0	This command was introduced.

## Usage Guidelines

If you do not specify the interface, the system displays all the MAC addresses. This command displays both the burned-in MAC address and the configured MAC address.

This command does not require a license.

## Examples

This example shows how to display information about all the MAC addresses for the device:

```
switch# show interface mac-address
```

```
-----
Interface                Mac-Address           Burn-in Mac-Address
-----
mgmt0                    0019.076c.1a78       0019.076c.1a78
Ethernet2/1              0000.0000.0000       0019.076c.4dac
Ethernet2/2              0000.0000.0000       0019.076c.4dad
Ethernet2/3              0000.0000.0000       0019.076c.4dae
Ethernet2/4              0000.0000.0000       0019.076c.4daf
Ethernet2/5              0000.0000.0000       0019.076c.4db0
Ethernet2/6              0000.0000.0000       0019.076c.4db1
Ethernet2/7              0000.0000.0000       0019.076c.4db2
Ethernet2/8              0000.0000.0000       0019.076c.4db3
Ethernet2/9              0000.0000.0000       0019.076c.4db4
Ethernet2/10             0000.0000.0000       0019.076c.4db5
Ethernet2/11             0000.0000.0000       0019.076c.4db6
```

## show interface mac-address

```

Ethernet2/12          0000.0000.0000  0019.076c.4db7
Ethernet2/13          0000.0000.0000  0019.076c.4db8
Ethernet2/14          0000.0000.0000  0019.076c.4db9
Ethernet2/15          0000.0000.0000  0019.076c.4dba
Ethernet2/16          0000.0000.0000  0019.076c.4dbb
Ethernet2/17          0000.0000.0000  0019.076c.4dbc
Ethernet2/18          0000.0000.0000  0019.076c.4dbd
Ethernet2/19          0000.0000.0000  0019.076c.4dbe
Ethernet2/20          0000.0000.0000  0019.076c.4dbf
Ethernet2/21          0000.0000.0000  0019.076c.4dc0
Ethernet2/22          0000.0000.0000  0019.076c.4dc1
Ethernet2/23          0000.0000.0000  0019.076c.4dc2
Ethernet2/24          0000.0000.0000  0019.076c.4dc3
Ethernet2/25          0000.0000.0000  0019.076c.4dc4
Ethernet2/26          0000.0000.0000  0019.076c.4dc5
Ethernet2/27          0000.0000.0000  0019.076c.4dc6
Ethernet2/28          0000.0000.0000  0019.076c.4dc7
Ethernet2/29          0000.0000.0000  0019.076c.4dc8
Ethernet2/30          0000.0000.0000  0019.076c.4dc9
Ethernet2/31          0000.0000.0000  0019.076c.4dca
Ethernet2/32          0000.0000.0000  0019.076c.4dcb
Ethernet2/33          0000.0000.0000  0019.076c.4dcc
Ethernet2/34          0000.0000.0000  0019.076c.4dcd
Ethernet2/35          0000.0000.0000  0019.076c.4dce
Ethernet2/36          0000.0000.0000  0019.076c.4dcf
Ethernet2/37          0000.0000.0000  0019.076c.4dd0
Ethernet2/38          0000.0000.0000  0019.076c.4dd1
Ethernet2/39          0000.0000.0000  0019.076c.4dd2
Ethernet2/40          0000.0000.0000  0019.076c.4dd3
Ethernet2/41          0000.0000.0000  0019.076c.4dd4
Ethernet2/42          0000.0000.0000  0019.076c.4dd5
Ethernet2/43          0000.0000.0000  0019.076c.4dd6
Ethernet2/44          0000.0000.0000  0019.076c.4dd7
Ethernet2/45          0000.0000.0000  0019.076c.4dd8
Ethernet2/46          0000.0000.0000  0019.076c.4dd9
Ethernet2/47          0000.0000.0000  0019.076c.4dda
Ethernet2/48          0000.0000.0000  0019.076c.4ddb
port-channel5        0000.0000.0000  0000.0000.0000
port-channel120      0000.0000.0000  0000.0000.0000
port-channel130      0000.0000.0000  0000.0000.0000
port-channel150      0000.0000.0000  0000.0000.0000

```

## Related Commands

Command	Description
<b>show mac address-table</b>	Displays information about the MAC address table.
<b>mac address-table static</b>	Adds static entries to the MAC-address table or configures a static MAC address with IGMP snooping disabled for that address.

# show interface private-vlan mapping

To display information about the private VLAN mapping for the primary VLAN interfaces, use the **show interface private-vlan mapping** command.

**show interface private-vlan mapping**

**Syntax Description** This command has no arguments or keywords.

**Command Default** None

**Command Modes** Any command mode  
Supported User Roles  
network-admin  
vdc-admin

Command History	Release	Modification
	4.0	This command was introduced.

**Usage Guidelines** You can use this command to display the primary and secondary VLAN mapping that allows both VLANs to share the VLAN interface of the primary VLAN.

This command does not require a license.

**Examples** This example shows how to display information about the primary and secondary private VLAN mapping:

```
switch# show interface private-vlan mapping
switch(config)# show interface private-vlan mapping
Interface Secondary VLAN Type
-----
vlan200    201          isolated
vlan200    202          community
```

## Related Commands

Command	Description
<b>show interface switchport</b>	Displays information about the switchports, including those in private VLANs.
<b>show vlan private-vlan</b>	Displays information about all private VLANs on the device.

**show interface private-vlan mapping**

# show interface pruning

To display interface trunk Virtual Trunking Protocol (VTP) pruning information, use the **show interface pruning** command.

**show interface pruning**

**Syntax Description** This command has no arguments or keywords.

**Command Default** None

**Command Modes** Any command mode  
Supported User Roles  
network-admin  
vdc-admin

Command History	Release	Modification
	5.1(1)	This command was introduced.

**Usage Guidelines** This command does not require a license.

**Examples** This example shows how to display interface trunk VTP pruning information on the device:

```
switch# show interface pruning
Port                Vlans pruned for lack of request by neighbor
Ethernet1/33        10
Ethernet1/34        10

Port                Vlan traffic requested of neighbor
Ethernet1/33        1 <<<<<
Ethernet1/34        1 <<<<<
switch#
```

## Related Commands

Command	Description
<b>feature vtp</b>	Enables VTP on the device.
<b>vtp domain</b>	Configures the VTP domain name.
<b>vtp version</b>	Configures the VTP version.

