

show multicast router

To display which ports have Cisco Group Management Protocol (CGMP) capable routers assigned to them, use the **show multicast router** command.

```
show multicast router [cgmp | rgmp] [mod/port] [vlan_id]
```

Syntax Description	
cgmp	(Optional) Displays only the configuration information learned through CGMP.
rgmp	(Optional) Displays only the configuration information learned through RGMP.
<i>mod/port</i>	(Optional) Number of the module and the port on the module.
<i>vlan_id</i>	(Optional) Number of the VLAN.

Defaults This command has no default settings.

Command Types Switch command

Command Modes Normal

Examples This example show how to display the multicast router configuration:

```
Console> show multicast router
Port      Vlan
-----
Total Number of Entries = 0
'*' - Configured
'+ ' - RGMP-capable
Console> (enable)
```

This example show how to display the multicast router configuration for VLAN 99:

```
Console> show multicast router 99
Port      Vlan
-----
Total Number of Entries = 0
'*' - Configured
Console>
```

This example shows how to display only the configuration information learned through CGMP:

```
Console> show multicast router cgmp
CMGP Feature is enabled.
Console>
```

■ show multicast router

Table 2-28 describes the fields in the **show multicast router** command output.

Table 2-28 *show multicast router Command Output Fields*

Field	Description
Port	Port through which a multicast router can be reached
Vlan	VLAN associated with the port
*	Status of whether the port was manually configured as a multicast router port
+	States whether the port is RGMP capable
CGMP enabled	Status of whether CGMP is enabled or disabled
Total Number of Entries	Total number of entries in the table that match the criteria specified by the command

Related Commands

[clear multicast router](#)
[set cgmp](#)
[set multicast router](#)
[show multicast group count](#)

show netstat

To display the currently active network connections and to list statistics for the various protocols, use the **show netstat** command.

```
show netstat [tcp | udp | ip | icmp | routes | stats | interfaces]
```

Syntax Description		
tcp	(Optional)	Displays TCP statistics.
udp	(Optional)	Displays UDP statistics.
ip	(Optional)	Displays IP statistics.
icmp	(Optional)	Displays ICMP statistics.
routes	(Optional)	Displays the IP routing table.
stats	(Optional)	Displays all statistics for TCP, UDP, IP, and ICMP.
interfaces	(Optional)	Displays interface statistics.

Defaults This command has no default settings.

Command Types Switch command

Command Modes Normal

Usage Guidelines Counter information for me1 is viewed by entering the **show netstat interfaces** command.

Examples This example shows how to display the current active network connections:

```
Console> show netstat
Active Internet connections (including servers)
Proto Recv-Q Send-Q Local Address          Foreign Address        (state)
tcp      0      128 172.20.25.142.23      171.68.10.75.44720    ESTABLISHED
tcp      0      0 *.7161                *.*                    LISTEN
tcp      0      0 *.23                   *.*                    LISTEN
udp      0      0 *.*                    *.*                    *
udp      0      0 *.161                  *.*                    *
udp      0      0 *.123                  *.*                    *
```

This example shows how to display TCP statistics:

```

Console> show netstat tcp
tcp:
    5122 packets sent
        4642 data packets (102292 bytes)
        28 data packets (6148 bytes) retransmitted
        434 ack-only packets (412 delayed)
        0 URG only packets
        0 window probe packets
        1 window update packet
        17 control packets
    7621 packets received
        4639 acks (for 103883 bytes)
        69 duplicate acks
        0 acks for unsent data
        3468 packets (15367 bytes) received in-sequence
        12 completely duplicate packets (20 bytes)
        0 packets with some dup. data (0 bytes duped)
        4 out-of-order packets (0 bytes)
        0 packets (0 bytes) of data after window
        0 window probes
        0 window update packets
        0 packets received after close
        0 discarded for bad checksums
        0 discarded for bad header offset fields
        0 discarded because packet too short
    6 connection requests
    6 connection accepts
    10 connections established (including accepts)
    11 connections closed (including 1 drop)
    2 embryonic connections dropped
    4581 segments updated rtt (of 4600 attempts)
    28 retransmit timeouts
        0 connections dropped by rexmit timeout
    0 persist timeouts
    66 keepalive timeouts
        63 keepalive probes sent
        3 connections dropped by keepalive
Console>

```

Table 2-29 describes the fields in the **show netstat tcp** command output.

Table 2-29 show netstat tcp Command Output Fields

Field	Description
packets sent	Total number of TCP packets sent
data packets (bytes)	Number of TCP data packets sent and the size of those packets in bytes
data packets (bytes) retransmitted	Number of TCP data packets retransmitted and the size of those packets in bytes
ack-only packets (delayed)	Number of TCP acknowledgment-only packets sent and the number of those packets delayed
packets received	Total number of TCP packets received
acks (for x bytes)	Number of TCP acknowledgments received and the total bytes acknowledged
duplicate acks	Number of duplicate TCP acknowledgments received

Table 2-29 show netstat tcp Command Output Fields (continued)

Field	Description
acks for unsent data	Number of TCP acknowledgments received for data that was not sent
packets (bytes) received in-sequence	Number of TCP packets (and the size in bytes) received in sequence
completely duplicate packets (bytes)	Number of duplicate TCP packets (and the size in bytes) received
packets with some dup. data (bytes duped)	Number of TCP packets received with duplicate data (and the number of bytes of duplicated data)
out-of-order packets (bytes)	Number of out-of-order TCP packets (and the size in bytes) received
packets (bytes) of data after window	Number of TCP packets (and the size in bytes) received outside of the specified data window
discarded for bad checksums	Number of TCP packets received and discarded that failed the checksum
discarded because packet too short	Number of TCP packets received and discarded that were truncated
connection requests	Total number of TCP connection requests sent
connection accepts	Total number of TCP connection accepts sent
connections established (including accepts)	Total number of TCP connections established, including those for which a connection accept was sent
connections closed (including x drops)	Total number of TCP connections closed, including dropped connections
retransmit timeouts	Number of timeouts that occurred when a retransmission was attempted
connections dropped by retransmit timeout	Number of connections dropped due to retransmission timeouts
keepalive timeouts	Number of keepalive timeouts that occurred
keepalive probes sent	Number of TCP keepalive probes sent
connections dropped by keepalive	Number of connections dropped

This example shows how to display UDP statistics:

```

Console> show netstat udp
udp:
    0 incomplete headers
    0 bad data length fields
    0 bad checksums
    0 socket overflows
    1116 no such ports
Console>

```

Table 2-30 describes the fields in the **show netstat udp** command output.

Table 2-30 show netstat udp Command Output Fields

Field	Description
incomplete headers	Number of UDP packets received with incomplete packet headers
bad data length fields	Number of UDP packets received with a data length field that did not match the actual length of the packet payload
bad checksums	Number of UDP packets received that failed the checksum
socket overflows	Number of socket overflows
no such ports	Number of UDP packets received destined for nonexistent ports

This example shows how to display IP statistics:

```

Console> show netstat ip
ip:
    76894 total packets received
    0 bad header checksums
    0 with size smaller than minimum
    0 with data size < data length
    0 with header length < data size
    0 with data length < header length
    0 fragments received
    0 fragments dropped (dup or out of space)
    0 fragments dropped after timeout
    0 packets forwarded
    0 packets not forwardable
    0 redirects sent
Console>

```

Table 2-31 describes the fields in the **show netstat ip** command output.

Table 2-31 show netstat ip Command Output Fields

Field	Description
total packets received	Total number of IP packets received
bad header checksums	Number of received IP packets that failed the checksum
with size smaller than minimum	Number of received IP packets that were smaller than the minimum IP packet size
fragments received	Number of IP packet fragments received
fragments dropped (dup or out of space)	Number of received IP packet fragments that were dropped because of duplicate data or buffer overflow
fragments dropped after timeout	Number of received IP packet fragments that were dropped
packets forwarded	Number of forwarded IP packets
packets not forwardable	Number of IP packets that the switch did not forward

This example shows how to display ICMP statistics:

```

Console> show netstat icmp
icmp:
  Redirect enabled
  0 calls to icmp_error
  0 errors not generated 'cuz old message was icmp
  Output histogram:
    echo reply: 1001
  1 message with bad code fields
  0 messages < minimum length
  0 bad checksums
  0 messages with bad length
  Input histogram:
    echo reply: 12
    destination unreachable: 3961
    echo: 1001
  1001 message responses generated
Console>

```

Table 2-32 describes the fields in the **show netstat icmp** command output.

Table 2-32 show netstat icmp Command Output Fields

Field	Description
Redirect enabled	Status of whether ICMP redirection is enabled or disabled
Output histogram	Frequency distribution statistics for output ICMP packets
echo reply	Number of output echo reply ICMP packets
messages with bad code fields	Number of ICMP packets with an invalid code field
messages < minimum length	Number of ICMP packets with less than the minimum packet length
bad checksums	Number of ICMP packets that failed the checksum
messages with bad length	Number of ICMP packets with an invalid length
Input histogram	Frequency distribution statistics for input ICMP packets
echo reply	Number of input echo reply ICMP packets
destination unreachable	Number of input destination unreachable ICMP packets
echo	Number of input echo ICMP packets
message responses generated	Number of ICMP message responses the system generated

This example shows how to display the IP routing table:

```

Console> show netstat routes
DESTINATION    GATEWAY    FLAGS    USE    INTERFACE
default        172.16.1.201  UG      6186   sc0
172.16.0.0     172.16.25.142  U       6383   sc0
default        default    UH      0      s10
Console>

```

Table 2-33 describes the fields in the **show netstat routes** command output.

Table 2-33 show netstat routes Command Output Fields

Field	Description
DESTINATION	Destination IP address or network
GATEWAY	Next hop to the destination
INTERFACE	Interface out of which packets to the destination should be forwarded

This example shows how to display interface statistics:

```

Console> show netstat interface
Interface          InPackets  InErrors  OutPackets  OutErrors
s10                 0           0           0           0
sc0                 33          0        117192       0
me1                 2           0         57075        0
Interface Rcv-Octet          Xmit-Octet
-----
sc0         2389              0
me1         1172              0
s10          0              0
Interface Rcv-Unicast    Xmit-Unicast
-----
sc0         28              0
me1         28              0
s10          0              0
Console>

```

Table 2-34 describes the fields in the **show netstat interface** command output.

Table 2-34 show netstat interface Command Output Fields

Field	Description
Interface	Interface number (s10 is the SLIP interface; sc0 is the in-band interface; me1 is the out-of-band interface)
InPackets	Number of input packets on the interface
InErrors	Number of input errors on the interface
OutPackets	Number of output packets on the interface
OutErrors	Number of output errors on the interface
Rcv-Octet	Number of octet frames received on the port
Xmit-Octet	Number of octet frames transmitted on the port
Rcv-Unicast	Number of unicast frames received on the port
Xmit-Unicast	Number of unicast frames transmitted on the port

Related Commands

[set interface](#)
[set ip route—switch](#)

show ntp

To display the current Network Time Protocol (NTP) status, use the **show ntp** command.

show ntp

Syntax Description This command has no arguments or keywords.

Defaults This command has no default settings.

Command Types Switch command

Command Modes Normal

Examples This example shows how to display the current NTP status:

```

Console> show ntp
Current time: Thu Jan 15 1999, 11:19:03 pst
Timezone: 'pst', offset from UTC is -8 hours
Summertime: 'pst', enabled
Last NTP update:
Broadcast client mode: enabled
Broadcast delay: 3000 microseconds
Client mode: disabled
Authentication: enabled

NTP-Server                               Server Key
-----
172.20.33.140                             1722033140
172.20.33.114                             1722033114

Console>

```

The following output appears in the **show ntp** command output when entered from privileged mode:

```

Key Number   Mode           Key String
-----
1234         trusted       32423423423
1722033140   untrusted     termserv-am
Console>

```

Table 2-35 describes the fields in the **show ntp** command output.

Table 2-35 show ntp Command Output Fields

Field	Description
Current time	Current system time
Timezone	Time zone and offset in hours from UTC
Summertime	Time zone for daylight saving time and whether the daylight saving time adjustment is enabled or disabled
Last NTP update	Time of the last NTP update
Broadcast client mode	Status of whether NTP broadcast-client mode is enabled or disabled
Broadcast delay	Configured NTP broadcast delay
Client mode	Status of whether NTP client mode is enabled or disabled
NTP-Server	List of configured NTP servers

Related Commands

[clear ntp key](#)
[clear ntp server](#)
[set ntp broadcastclient](#)
[set ntp broadcastdelay](#)
[set ntp client](#)
[set ntp key](#)
[set ntp server](#)

show port

To display port status and counters, use the **show port** command.

```
show port [mod[/port]]
```

Syntax Description

mod/port (Optional) Number of the module and the port on the module.

Defaults

This command has no default settings.

Command Types

Switch command

Command Modes

Normal

Usage Guidelines

If you do not specify a *mod*, the ports on all modules are shown.

If you do not specify a *port*, all the ports on the module are shown.

In the Status field for the switch ports, the following applies:

- *connected* indicates the port is operational.



Note *connected* is also displayed for the status of a port that is receiving remote fault indications. Remote fault indications are not sent until the link comes up and both ends can hear each other. This means that the link is up and working correctly. According to the 802.3z Gigabit Ethernet Specification, a link partner is not allowed to send remote fault indications until after the link comes up successfully.

- *notconnect* indicates the port is off or there is no GBIC in port.
- *faulty* indicates the port failed diagnostics tests.
- *remfault* indicates the far end station cannot synchronize with its receive signal.
- *disable* indicates the port has been manually disabled.
- *remdisable* indicates the far end port has been manually disabled.
- *configerr* indicates that this port is not satisfied with the output of flow control and or duplex negotiation.
- *remcfgerr* indicates that the far end port is not satisfied with the output of flow control and or duplex negotiation.
- *disagree* indicates that the two ports have failed to agree on a duplex condition or that autonegotiation has failed.

In the **show port** command display, the combination of the 32-port module (WS-X4502) and 4-port 100FX card results in an entry that lists 36 ports. If the uplink card is not installed, only ports 1 through 32 are listed.

Although me1 resides on the supervisor engine module for the Catalyst 4000 family switches, me1 port information is not displayed by the **show module** or **show port** CLI commands.

Examples

This example shows how to display the status and counters for ports on module 2:

```
Console> show port 3/1
```

```

Port  Name                Status      Vlan      Duplex Speed Type
-----
3/1                connected  99        a-half  a-10  10/100BaseTX

Port  AuxiliaryVlan  AuxVlan-Status      InlinePowered      PowerAllocated
      Admin Oper    Detected mWatt mA @42V
-----
3/1  none          none                -    -    -        -    -

Port  Security Violation Shutdown-Time Age-Time Max-Addr Trap      IfIndex
-----
3/1  disabled  shutdown          0      0      1 disabled  1043

Port  Num-Addr  Secure-Src-Addr  Age-Left Last-Src-Addr      Shutdown/Time-Left
-----
3/1      0          -                -        -                -

Port  Broadcast-Limit Multicast Unicast Total-Drop      errdisable
-----
3/1          75.00 %      -    -                0 disabled

Port  Send FlowControl  Receive FlowControl  RxPause  TxPause
      admin  oper    admin  oper
-----
3/1  off    off    off    off        0      0

Port  Status      Channel      Admin Ch
      Mode
-----
3/1  connected  auto silent          163  0

Port  Status      ErrDisableReason  Port ErrDisableTimeout  Action on Timeout
-----
3/1  connected          - Enable                No Change

Port  Align-Err  FCS-Err  Xmit-Err  Rcv-Err  UnderSize
-----
3/1      0      0      0      0      0

Port  Single-Col  Multi-Coll  Late-Coll  Excess-Col  Carri-Sen  Runts      Giants
-----
3/1      0      0      0      0      0      0      0

Port  Last-Time-Cleared
-----
3/3  Fri Oct 19 2001, 12:31:28
> >>Console>

```

Table 2-36 describes the possible fields (depending on the port type queried) in the **show port** command output.

Table 2-36 show port Command Output Fields

Field	Description
Port	Module and port number.
Name	Name (if configured) of the port.
Status	Status of the port. For the Catalyst 4000 family and Catalyst 2948G switches, possible displays are connected, notconnect, faulty, remfault, disable, remdisable, configerr, remcfgerr, reflector, and disagree.
Vlan	VLANs to which the port belongs.
Duplex	Duplex setting for the port (auto, full, fdx, half, hdx, a-half, a-hdx, a-full, or a-fdx).
Speed	Speed setting for the port Valid values are auto, 10, 100, 155, a-10, a-100, 4, 16, a-14, or a-16 .
Type ¹	Port type, for example, 100BASE-FX MM, 100BASE-FX SM, 10/100BASE-TX.
Security	Status of whether port security is enabled or disabled.
Secure-Src-Addr	Secure MAC address for the security enabled port.
Last-Src-Addr	Source MAC address of the last packet received by the port.
Shutdown	Status of whether the port was shut down because of security.
Trap	Status of whether port trap is enabled or disabled.
IfIndex	Number of the ifIndex.
Broadcast-Limit	Broadcast threshold configured for the port.
Broadcast-Drop	Number of broadcast/multicast packets dropped because the broadcast limit for the port was exceeded.
Send admin	Flow-control administration. Possible settings: on indicates the local port sends flow control to the far end; off indicates the local port does not send flow control to the far end; desired indicates the local end sends flow control to the far end if the far end supports it.
FlowControl oper	Flow-control operation. Possible setting: disagree indicates the two ports could not agree on a link protocol.
Receive admin	Flow-control administration. Possible settings: on indicates the local port requires the far end to send flow control; off indicates the local port does not allow the far end to send flow control; desired indicates the local end allows the far end to send flow control.
FlowControl oper	Flow-control operation. Possible setting: disagree indicates the two ports could not agree on a link protocol.
RxPause	Number of Pause frames received.
TxPause	Number of Pause frames transmitted.
Unsupported Opcodes	Number of unsupported operating codes.

Table 2-36 show port Command Output Fields (continued)

Field	Description
Align-Err	Number of frames with alignment errors (frames that do not end with an even number of octets and have a bad CRC) received on the port.
FCS-Err	The number of valid size frames with FCS errors but no framing errors.
Xmit-Err	Number of transmit errors that occurred on the port (indicating that the internal transmit buffer is full).
Rcv-Err	Number of receive errors that occurred on the port (indicating that the internal receive buffer is full).
UnderSize	Number of received frames less than 64 octets long (but are otherwise well-formed).
Single-Coll	Number of times one collision occurred before the port transmitted a frame to the media successfully.
Multi-Coll	Number of times multiple collisions occurred before the port transmitted a frame to the media successfully.
Late-Coll	Number of late collisions (collisions outside the collision domain).
Excess-Col	Number of excessive collisions that occurred on the port (indicating that a frame encountered 16 collisions and was discarded).
Carri-Sen	Number of times the port sensed a carrier (to determine whether the cable is currently being used).
Runts	Number of received runt frames (frames that are smaller than the minimum IEEE 802.3 frame size) on the port.
Giants	Number of received giant frames (frames that exceed the maximum IEEE 802.3 frame size) on the port.
Last-Time-Cleared	Last time the port counters were cleared.
Auto-Part	The number of times the port entered the auto-partition state due to excessive consecutive collisions.
Data-rate mismatch	The number of valid size frames experienced overrun or underrun.
Src-addr change	The number of times the last source address changed.
Good-bytes	The total number of octets in frames with no error.
Short-event	The number of times activity with a duration less than the ShortEventMax Time (74 to 82 bit times) is detected.
ErrDisableReason	Reason for the port to in errdisabled state
Action on Timeout	Action that will be taken on errdisable timer timeout

1. These fields will change according to the system configuration.

show port auxiliaryvlan

To display the port auxiliary VLAN status for a specific port, use the **show port auxiliaryvlan** command.

show port auxiliaryvlan [*vlan* | **untagged** | **none**]

Syntax Description	
<i>vlan</i>	(Optional) Number of the VLAN; valid values are from 1 to 1000.
untagged	(Optional) Displays the port that sends untagged packets.
none	(Optional) Displays the port that does not send any auxiliary VLAN information in the CDP packets from that port.

Defaults This command has no default settings.

Command Types Switch command

Command Modes Privileged

Usage Guidelines This command is not supported by the NAM.

Examples This example shows how to display the port information for all auxiliary VLANs:

```
Console> (enable) show port auxiliaryvlan
AuxiliaryVlan AuxVlanStatus Mod/Ports
```

```
-----
222          active    2/4-7
333          active    2/13-18
dot1p        dot1p     2/23,8/31-34
untagged     untagged  3/12
none         none     2/1-3,2/8-12,2/19-22,2/24-30,2/35-48,3/1-11,3/13-48
```

This example shows how to display the port information for a specific auxiliary VLAN:

```
Console> (enable) show port auxiliaryvlan 123
```

```
AuxiliaryVlan AuxVlanStatus Mod/Ports
```

```
-----
123          active    1/2,2/1-3
```

```
Console> (enable)
```

This example shows how to display the status of the switch that does not send any auxiliary VLAN information in the CDP packets:

```
Console> (enable) show port auxiliaryvlan none
AuxiliaryVlan AuxVlanStatus Mod/Ports
```

```
-----
none         none     2/1-3,2/8-12,2/19-22,2/24-30,2/35-48,3/1-11,3/13-48
```

```
Console> (enable)
```

show port auxiliaryvlan

This example shows how to display the status of the switch that sends untagged packets:

```
Console> (enable) show port auxiliaryvlan untagged
AuxiliaryVlan AuxVlanStatus Mod/Ports
-----
untagged      untagged 3/12
Console> (enable)
```

[Table 2-37](#) describes the possible fields (depending on the port type queried) in the **show port auxiliaryvlan** command output.

Table 2-37 show port auxiliaryvlan Command Output Fields

Field	Description
AuxiliaryVlan	Number of the auxiliary VLAN
AuxVlanStatus	Status of the auxiliary VLAN
Mod/Ports	Number of the module and ports assigned to the auxiliary VLAN

Related Commands [set port auxiliaryvlan](#)

show port capabilities

To display the port, type, duplex, trunking capabilities, and speed of the modules and ports in a switch, use the **show port capabilities** command.

show port capabilities [*mod*[/*port*]]

Syntax Description

mod/port (Optional) Number of the module and the port on the module.

Defaults

This command has no default settings.

Command Types

Switch command

Command Modes

Normal

Usage Guidelines

If you do not specify a *mod_num*, the ports on all modules are shown.

If you do not specify a */port_num*, all the ports on the module are shown.

Examples

This example shows how to show the port capabilities for module 1, port 1:

```
Console> (enable) show port capabilities 1/1
Model                WS-X5530
Port                 1/1
Type                 10/100BaseTX
Speed                auto,10,100
Duplex               half,full
Trunk encap type     802.1Q,ISL
Trunk mode           on,off,desirable,auto,nonegotiate
Channel              1/1-2,1/1-4
Broadcast suppression percentage(0-100)
Flow control         receive-(off,on),send-(off,on)
Security             yes
Membership           static,dynamic
Fast start           yes
QOS scheduling       rx-(none),tx-(none)
CoS rewrite          yes
ToS rewrite          IP-Precedence
Rewrite              yes
UDLD                 Capable
Voice vlan           no
Console> (enable)
```

Table 2-38 describes the possible fields (depending on the type of port queried) and the values in the **show port capabilities** command output.

Table 2-38 show port capabilities Command Output Fields

Field	Description
Model	Module model number.
Port	Module number and port number.
Type ¹	Port type (for example, 100BASE-FX MM, 100BASE-FX SM, or 10/100BASE-TX).
Speed ¹	Port speed setting (for example, auto, 100, or 1000).
Duplex	Duplex mode (half, full, auto, fdx, hdx, or no).
Trunk encap type	Trunk encapsulation type (ISL, 802.1Q, 802.10, or no).
Trunk mode	Trunk administrative status of the port (on, off, auto, desirable, nonegotiate, or no).
Channel	Status of which ports can form a channel group. The ports are shown in <i>mod_num/port_num</i> format. For example, 3/1-2 indicates module 3, ports 1 and 2. In addition, any ports in range [<i>mod/1-mod/high_port</i>] or no ports may be indicated.
Broadcast suppression	Number of packets-per-second (pps) of broadcast/multicast traffic allowed on the port (0 to 150000) or the percentage of total available bandwidth that can be used by broadcast/multicast traffic (0 to 100).
Flow control	Flow-control options that can be set (receive-[off, on, desired], send-[off, on, desired], or no).
Security	Status of whether port security is enabled (yes or no).
Membership	Method of membership assignment of a port or range of ports to a VLAN (static or dynamic).
Fast Start	Status of whether the spanning tree port fast-start feature on the port is enabled (yes or no).
QoS Scheduling	(rx-(none),tx-(none)).
CoS Rewrite	Status of whether the port supports COS rewrite (yes or no).
ToS Rewrite	Status of whether the port supports TOS rewrite (IP-Precedence).
Rewrite	Status of whether the port supports inline rewrite (yes or no).
UDLD	Status of whether the port supports UDLD (Capable, Not capable).
Voice Vlan	Status of whether the port supports voice or VLAN (yes or no).

1. These fields will change depending on the system configuration.

Related Commands

[set port channel](#)
[set port security](#)
[set port speed](#)
[set spantree portfast](#)
[set trunk](#)

show port cdp

To display port Cisco Discovery Protocol (CDP) enable state and message interval on the port, use the **show port cdp** command.

```
show port cdp [mod[/port]]
```

Syntax Description	<i>mod/port</i> (Optional) Number of the module and the port on the module.
Defaults	This command has no default settings.
Command Types	Switch command
Command Modes	Normal
Usage Guidelines	If you do not specify a <i>mod_num</i> , the ports on all modules are shown. If you do not specify a <i>/port_num</i> , all the ports on the module are shown.

Examples This example shows how to display CDP information for all ports:

```
Console> show port cdp
CDP                :enabled
Message Interval   :60
Hold Time          :180

Port      CDP Status
-----
 2/1      enabled
 2/2      enabled
 5/1      enabled
 5/2      enabled
 5/3      enabled
 5/4      enabled
 5/5      enabled
 5/6      enabled
Console>
```

Table 2-39 describes the fields in the **show port cdp** command output.

Table 2-39 *show port cdp Command Output Fields*

Field	Description
Port	Module and port number
CDP Status	CDP status of the port (enabled, disabled)
Message-Interval	Interval between CDP message exchange with neighbor

Related Commands

[set cdp](#)

[set cdp interval](#)

show port channel

To display EtherChannel information for a specific module or port, use the **show port channel** command.

```
show port channel [mod[/port]] [statistics | info [spantree | trunk | protocol | gmrp | gvrp | qos]]
```

Syntax Description

mod/port	(Optional) Number of the module and the port on the module.
statistics	(Optional) Displays EtherChannel PAGP statistics.
info	(Optional) Displays EtherChannel configuration information.
spantree	(Optional) Displays only spanning-tree-related configuration information.
trunk	(Optional) Displays only VLAN-trunk-related configuration information.
protocol	(Optional) Displays only protocol-filtering-related configuration information.
gmrp	(Optional) Displays only GMRP-related configuration information.
gvrp	(Optional) Displays only GVRP-related configuration information.
qos	(Optional) Displays only QoS-related configuration information.

Defaults

This command has no default settings.

Command Types

Switch command

Command Modes

Normal

Usage Guidelines

If the module and port are not specified, EtherChannel information is shown for all channeling ports on all modules.

Examples

This example shows how to display Fast EtherChannel information for port 1/4:

```
Console> show port channel 1/4
Port Status      Channel          Admin Ch
      Mode                Group Id
-----
 1/1 connected auto silent          22  769
 1/2 connected auto silent          22  769
 1/4 connected auto silent          22  769
-----

Port  Device-ID                Port-ID                Platform
-----
 1/1  069003103(4000)           3/13                   WS-C4000
 1/2  069003103(4000)           3/14                   WS-C4000
 1/4  069003103(4000)           3/16                   WS-C4000
-----
Console>
```

Table 2-40 describes the fields in the **show port channel** output.

Table 2-40 show port channel Command Output Fields

Field	Description
Port	Module and port number
Status	Port connection status
Channel mode	EtherChannel mode
Admin Group	EtherChannel administrative group
Ch Id	EtherChannel ID
Device-ID	Serial number and hostname of neighboring device
Port-ID	Connected port number on neighboring device
Platform	Neighboring device platform

This example shows how to display PAgP packet statistics:

```

Console> show port channel statistics
Port  Admin  PAgP Pkts  PAgP Pkts  PAgP Pkts  PAgP Pkts  PAgP Pkts  PAgP Pkts
      Group  Transmitted Received   InFlush   RetnFlush OutFlush  InError
-----
 1/1    22      5063      5073         0         0         0         0
 1/2    22      5062      5075         0         0         0         0
 1/3    22      5068      5077         0         0         0         0
 1/4    22      5076      5066         0         0         0         0
-----
Console>

```

Table 2-41 describes the fields in the **show port channel statistics** output.

Table 2-41 show port channel statistics Command Output Fields

Field	Description
Port	Port number
Admin Group	EtherChannel administrative group
PAgP Pkts Transmitted	Number of PAgP packets transmitted on the port
PAgP Pkts Received	Number of PAgP packets received on the port
PAgP Pkts InFlush	Number of PAgP flush packets received
PAgP Pkts RetnFlush	Number of PAgP flush packets returned
PAgP Pkts OutFlush	Number of PAgP flush packets transmitted
PAgP Pkts InError	Number of PAgP error packets received

This example shows how to display EtherChannel configuration information:

```
Console> show port channel info
```

```
Switch Frame Distribution Method: mac both
```

Port	Status	Channel mode	Admin group	Channel id	Speed	Duplex	Vlan
1/1	connected	auto silent	22	769	a-100	a-full	1
1/2	connected	auto silent	22	769	a-100	a-full	1
1/3	connected	auto silent	22	769	a-100	a-full	1
1/4	connected	auto silent	22	769	a-100	a-full	1

Port	ifIndex	Oper-group	Neighbor Oper-group	Oper-Distribution Method	PortSecurity/Dynamic port
1/1	626	1		mac both	
1/2	626	1		mac both	
1/3	626	1		mac both	
1/4	626	1		mac both	

Port	Device-ID	Port-ID	Platform
1/1	069003103(5500)	3/13	WS-C5500
1/2	069003103(5500)	3/14	WS-C5500
1/3	069003103(5500)	3/15	WS-C5500
1/4	069003103(5500)	3/16	WS-C5500

Port	Trunk-status	Trunk-type	Trunk-vlans
1/1	trunking	n-isl	1-1005
1/2	trunking	n-isl	1-1005
1/3	trunking	n-isl	1-1005
1/4	trunking	n-isl	1-1005

Port	Portvlancost-vlans
1/1	
1/2	
1/3	
1/4	

Port	Port priority	Portfast	Port vlanpri	Port vlanpri-vlans
1/1	32	disabled	0	
1/2	32	disabled	0	
1/3	32	disabled	0	
1/4	32	disabled	0	

Port	IP	IPX	Group
1/1	on	auto-on	auto-on
1/2	on	auto-on	auto-on
1/3	on	auto-on	auto-on
1/4	on	auto-on	auto-on

■ show port channel

```

Port  GMRP      GMRP      GMRP
     status  registration forwardAll
-----
1/1  enabled  Normal    disabled
1/2  enabled  Normal    disabled
1/3  enabled  Normal    disabled
1/4  enabled  Normal    disabled
-----

Port  GVRP      GVRP      GVRP
     status  registration applicant
-----
1/1  disabled Normal    Normal
1/2  disabled Normal    Normal
1/3  disabled Normal    Normal
1/4  disabled Normal    Normal
-----

Port  Qos-Tx    Qos-Rx    Qos-Trust  Qos-DefCos
     PortType PortType  Type
-----
1/1  -         -         untrusted   0
1/2  -         -         untrusted   0
1/3  -         -         untrusted   0
1/4  -         -         untrusted   0
-----

```

Console>

Table 2-42 describes the fields in the **show port channel info** output.

Table 2-42 show port channel info Command Output Fields

Field	Description
Switch Frame Distribution Method	Frame distribution method for all EtherChannels on the switch
Port	Port number
Status	Port connection status
Channel mode	EtherChannel mode
Admin group	EtherChannel administrative group
Channel id	EtherChannel ID
Speed	Port speed
Duplex	Port duplex
Vlan	Port VLAN membership
if-index	Interface index number
Oper-group	Capability of the group
Neighbor Oper-group	Device ID of the neighboring device with which the port is channeling
Chan cost	EtherChannel spanning tree port cost
Oper-Distribution Method	EtherChannel frame distribution method

Table 2-42 show port channel info Command Output Fields (continued)

Field	Description
PortSecurity/Dynamic Port	Status of whether the port is secure or dynamic
Device-ID	Serial number and hostname of neighboring device
Port-ID	Connected port number on neighboring device
Platform	Neighboring device platform
Trunk-status	VLAN trunking mode
Trunk-type	VLAN trunk encapsulation type
Trunk-vlans	Allowed VLAN list for the trunk
Portvlancost-vlans	Spanning tree port-VLAN cost and associated VLAN IDs
Port priority	Spanning tree port priority
Portfast	Spanning tree PortFast enable state
Port vlanpri-vlans	Spanning tree port-VLAN priority and associated VLAN IDs
IP	IP protocol filtering mode
IPX	IPX protocol filtering mode
Group	Group protocol filtering mode
GMRP status	GMRP enable state
GMRP registration	GMRP registration mode
GMRP forwardAll	GMRP forward-all enable status
GVRP status	GVRP enable state
GVRP registration	GVRP registration mode
GVRP applicant	GVRP applicant mode
Qos-Tx	Transmit queue and threshold port type
Qos-Rx	Receive queue and threshold port type
Qos-Trust	QoS port trust
QoS-DefCos	QoS default CoS

Related Commands

[set channel cost](#)
[set channel vlancost](#)
[set port channel](#)
[show channel](#)
[show channel group](#)

show port counters

To show all the counters for a port, use the **show port counters** command.

show port counters [*mod/port*]

Syntax Description	<i>mod/port</i> (Optional) Number of the module and the port on the module.
---------------------------	---

Defaults	This command has no default settings.
-----------------	---------------------------------------

Command Types	Switch command
----------------------	----------------

Command Modes	Normal
----------------------	--------

Usage Guidelines	<p>If you do not specify a <i>mod_num</i>, the ports on all modules are shown.</p> <p>If you do not specify a <i>/port_num</i>, all the ports on the module are shown.</p>
-------------------------	--

Examples	This example shows the output of the show port counters command:
-----------------	---

```

Console> (enable) show port counters
Port Align-Err  FCS-Err    Xmit-Err    Rcv-Err    Broad-Limit  Broad-Drop
-----
1/1    0           0           0           0           -            0
1/2    0           0           0           0           -            0
4/1    0           0           0           0           10000p/s     0
4/2    0           0           0           0           100p/s       53728
4/3    0           0           0           0           -            0
4/4    0           0           0           0           11.50p/s     52
Port Single-Col Multi-Coll  Late-Coll  Excess-Col  Carri-Sens  Runts  Giants
-----
1/1    0           0           0           0           0           0       -
1/2    0           0           0           0           0           0       -
4/1    0           0           0           0           0           0       -
4/2    0           0           0           0           0           0       -
4/3    0           0           0           0           0           0       -
4/4    0           0           0           0           0           0       -

Port CE-State Conn-State Type Neig Con Est Alm Cut Lem-Ct  Lem-Rej-Ct Tl-Min
-----
3/1  isolated connecting A  U  no  9  9  7  0  0 102
3/2  isolated connecting B  U  no  9  8  7  0  0  40

Last-Time-Cleared
-----
Wed Apr 10 1996, 14:59:51
Console> (enable)

```

Table 2-43 describes the possible fields (depending on the port type queried) in the **show port counters** command output.

Table 2-43 show port counters Command Output Fields

Field	Description
Port	Module and port number.
Align-Err	Number of frames with alignment errors (frames that do not end with an even number of octets and have a bad CRC) received on the port.
FCS-Err	Number of frame check sequence errors that occurred on the port.
Xmit-Err	Number of transmit errors that occurred on the port (indicating that the internal transmit buffer is full).
Rcv-Err	Number of receive errors that occurred on the port (indicating that the internal receive buffer is full).
UnderSize	Number of received frames less than 64 octets long (but are otherwise well formed).
Broad-Limit	Broadcast threshold configured for the port in percent or packets per second.
Broad-Drop	Number of broadcast/multicast packets dropped because the broadcast limit for the port was exceeded.
Single-Col	Number of times one collision occurred before the port successfully transmitted a frame to the media.
Multi-Coll	Number of times multiple collisions occurred before the port successfully transmitted a frame to the media.
Late-Coll	Number of late collisions (collisions outside the collision domain).
Excess-Col	Number of excessive collisions that occurred on the port (indicating that a frame encountered 16 collisions and was discarded).
Carri-Sens	Number of times the port sensed a carrier (to determine whether the cable is currently being used).
Runts	Number of received runt frames (frames that are smaller than the minimum IEEE 802.3 frame size) on the port.
Giants	Number of received giant frames (frames that exceed the maximum IEEE 802.3 frame size) on the port.
CE-State	Connection entity status.
Conn-State	Connection state of the port, as follows: <ul style="list-style-type: none"> • Disabled—The port has no line module or was disabled by the user. • Connecting—The port attempted to connect or was disabled. • Standby—The connection was withheld or was the inactive port of a dual-homing concentrator. • Active—The port made a connection. • Other—The concentrator was unable to determine the Conn-State.
Type	Type of port, such as A—A port and B—B port.

Table 2-43 *show port counters Command Output Fields (continued)*

Field	Description
Neig	Type of port attached to this port. The neighbor can be one of these types: <ul style="list-style-type: none"> • A—A port. • B—B port. • M—M port. • S—Slave port. • U—The concentrator cannot determine the type of the neighbor port.
Ler Con	Status of whether the port is currently in a LER condition.
Est	Estimated LER.
Alm	LER at which a link connection exceeds the LER alarm threshold.
Cut	LER cutoff value (the LER at which a link connection is flagged as faulty).
Lem-Ct	Number of LEM errors received on the port.
Lem-Rej-Ct	Number of times a connection was rejected because of excessive LEM errors.
Tl-Min	TL-min value (the minimum time to transmit a FDDI PHY line state) before advancing to the next PCM state.
Last-Time-Cleared	Last time the port counters were cleared.

Related Commands [show port](#)

show port debounce

To display the current state of the port debounce timers (enabled or disabled), use the **show port debounce** command.

```
show port debounce [mod | mod/port]
```

Syntax Description	<i>mod</i>	(Optional) Number of the module.
	<i>mod/port</i>	(Optional) Number of the module and the port on the module.

Defaults This command has no default settings.

Command Types Switch command

Command Modes Normal

Usage Guidelines If you do not specify a port, all ports are displayed.

Examples This example shows how to display the debounce link timer for a specific port on a specific module:

```
Console> show port debounce 2/1
Port Debounce link timer
-----
 2/1  disable
Console>
```

Related Commands [set port debounce](#)

show port dot1x

To display all the configurable and current state values associated with the authenticator PAE, backend authenticator, and statistics for the different types of EAP packets on a specific port, use the **show port dot1x** command set.

```
show port dot1x [mod[/port]]
```

```
show port dot1x statistics [mod[/port]]
```

Syntax Description	<i>mod/port</i>	(Optional) Number of the module and the port on the module.
	statistics	Displays statistics for different EAP packets transmitted and received by the authenticator on a specific port.

This command has no default settings.

Command Types	Switch command
---------------	----------------

Command Modes	Normal
---------------	--------

Examples This example shows how to display all the configurable and current state values associated with the authenticator PAE and backend authenticator on a specific port:

```
Console> show port dot1x 3/3
Port  Auth-State          BEnd-State  Port-Control          Port-Status
-----
 3/3  force-authorized      idle        force-authorized      authorized
Port  Multiple-Host Re-authentication
-----
 3/3  disabled              disabled
Console>
```

This example displays the statistics of different types of EAP packets that are transmitted and received by the authenticator on a specific port:

```
Console> show port dot1x statistics 4/1,4/2
Port  Tx_Req/Id  Tx_Req  Tx_Total  Rx_Start  Rx_Logff  Rx_Resp/Id  Rx_Resp
4/1   1          2       4         2         0         1           0
4/2   3          4       6         0         1         1           0

Port  Rx_Invalid  Rx_Len_Err  Rx_Total  Last_Rx_Frm_Ver  Last_Rx_Frm_Src_Mac
4/1   0           0           3         1                 00-f0-3b-2b-d1-a9
4/2   0           0           3         1                 00-d0-62-95-7b-ff
Console>
```

Related Commands	clear dot1x config set port dot1x show dot1x show port dot1x
------------------	---

show port errdisable-timeout

To display the configuration and status of the errdisable timeout for a particular port, use the **show port errdisable-timeout** command.

```
show port errdisable-timeout [mod/port]
```

Syntax Description

<i>mod/port</i>	Number of the module and the port on the module.
-----------------	--

Defaults

This command has no default settings.

Command Types

Switch command

Command Modes

Privileged

Examples

This example shows how to display the errdisable timeout configuration and status for a particular port:

```
Console> (enable) show port errdisable-timeout 3/3
Port  Status      ErrDisableReason  Port ErrDisableTimeout  Action on Timeout
----  -
3/3  errdisable  udld              Disable                 Remain Disabled
Console>
```

Some of the cases and the corresponding output of the command “show port errdisable-timeout 3/3” are shown below. If the port is disabled and the reason is disabled globally, then the Action on Timeout field will have the value No Change irrespective of the Port ErrDisableTimeout field value. If the port is not in errdisabled state, then the Action on Timeout field will always have the value No Change.

CASE 1: Port is in errdisabled state, timeout flag is enabled and reason is disabled.

```
Console>(enable) show port errdisable-timeout 3/3
Port  Status      ErrDisableReason  Port ErrDisableTimeout  Action on Timeout
----  -
3/3  errdisable  udld              Enable                 No Change
```

CASE 2: Port is in errdisabled state, timeout flag is enabled and reason is enabled.

```
Console>(enable) show port errdisable-timeout 3/3
Port  Status      ErrDisableReason  Port ErrDisableTimeout  Action on Timeout
----  -
3/3  errdisable  udld              Enable                 Enabled
```

CASE 3: Port is in errdisabled state, timeout flag is disabled and reason is disabled.

```
Console>(enable) show port errdisable-timeout 3/3
Port  Status      ErrDisableReason  Port ErrDisableTimeout  Action on Timeout
----  -
```

■ show port errdisable-timeout

```
3/3 errdisable udld          Disable          No Change
```

CASE 4: Port is in errdisabled state, timeout flag is disabled and reason is enabled.

```
Console>(enable) show port errdisable-timeout 3/3
```

Port	Status	ErrDisableReason	Port	ErrDisableTimeout	Action on Timeout
3/3	errdisable	udld		Disable	Remain Disabled

CASE 5: Port is not in errdisabled state, timeout flag is enabled and reason is disabled.

```
Console>(enable) show port errdisable-timeout 3/3
```

Port	Status	ErrDisableReason	Port	ErrDisableTimeout	Action on Timeout
3/3	connected	-		Enable	No Change

```
Console>
```

Related Commands [set port errdisable-timeout](#)

show port flowcontrol

To display per-port status information and statistics related to flow control, use the **show port flowcontrol** command.

```
show port flowcontrol [mod[/port]]
```

Syntax Description	<i>mod/port</i> (Optional) Number of the module and the port on the module.
---------------------------	---

Defaults	This command has no default settings.
-----------------	---------------------------------------

Command Types	Switch command
----------------------	----------------

Command Modes	Normal
----------------------	--------

Usage Guidelines	If you do not specify a number, filters configured on all the ports on the module are shown.
-------------------------	--

Examples	This example shows how to display the flow-control port status and statistics:
-----------------	--

```
Console> show port flowcontrol
Port   Send-Flowcontrol  Receive-Flowcntl  RxPause  TxPause
      Admin  Oper      Admin  Oper
-----
 3/1   on    disagree  on    disagree  0        0
 3/2   off   off       off   off       0        0
 3/3   desired on    desired off     10       10
Console>
```

Table 2-44 describes the fields in the **show port flowcontrol** command output.

Table 2-44 show port flowcontrol Command Output Fields

Field	Description
Port	Module and port number.
Send-Flowcontrol-Admin	Flow-control administration. Possible settings: on indicates the local port sends flow control to the far end; off indicates the local port does not send flow control to the far end; desired indicates the local end sends flow control to the far end if the far end supports it.
Send-Flowcontrol-Oper	Flow-control operation. Possible setting: disagree indicates the two ports could not agree on a link protocol.

■ `show port flowcontrol`

Table 2-44 *show port flowcontrol Command Output Fields (continued)*

Field	Description
Receive-Flowcntl-Admin	Flow-control administration. Possible settings: on indicates the local port requires the far end to send flow control; off indicates the local port does not allow the far end to send flow control; desired indicates the local end allows the far end to send flow control.
Receive-Flowcntl-Oper	Flow-control operation. Possible setting: disagree indicates the two ports could not agree on a link protocol.
RxPause	Number of Pause frames received.
TxPause	Number of Pause frames transmitted.

Related Commands [set port flowcontrol](#)

show port ifindex

To view ifIndex information on a per-port or per-module basis, use the **show port ifindex** command.

```
show port ifindex [mod]
```

```
show port ifindex mod/port
```

Syntax Description	<i>mod</i>	(Optional) Number of the module.
	<i>mod/port</i>	Number of the module and the port on the module.

Defaults This command has no default settings.

Command Types Switch command

Command Modes Normal

Examples This example shows how to display ifIndex information for all the ports:

```
Console> show port ifindex
Port    ifIndex
-----  -
1/1     3
1/2     4
3/1     383
3/2     384
4/1     385
4/2     386
4/3     387
4/4     388
4/5     389
4/6     390
4/7     391
4/8     392
4/9     393
4/10    394
4/11    395
4/12    396
4/13    397
Console>
```

show port inlinepower

To display port power administration and operational status, use the **show port inlinepower** command.

```
show port inlinepower [mod[/port]]
```

Syntax Description	<i>mod/port</i> Number of the module and the port on the module.
---------------------------	--

Defaults	This command has no default settings.
-----------------	---------------------------------------

Command Types	Switch command
----------------------	----------------

Command Modes	Normal
----------------------	--------

Usage Guidelines	An inline power-capable device can still be detected even if the inline power mode is set to off.
-------------------------	---

The Operational (Oper) status field descriptions are:

- on—Power is being supplied by the port.
- off—Power is not being supplied by the port.
- denied—System does not have enough available power for the port, and power is not supplied by the port.
- faulty—The port is unable to provide power to the connected device.

Examples	This example shows how to display the inline power status for multiple ports on module 3, ports 2 to 6:
-----------------	---

```
Console> show port inlinepower 3/2-6
Default Inline Power allocation per port: 9.500 Watts (0.22 Amps @42V)
Total inline power drawn by module 3: 0 Watt
Port      InlinePowered      PowerAllocated
      Admin Oper   Detected mWatt mA @42V
-----
3/2  auto  on    yes      10.00 0.250
3/3  auto  on    yes       9.8  0.198
3/4  auto  denied yes       0    0
3/5  off   off   no       0    0
3/6  off   off   yes       0    0
Console>
```

Related Commands	set inlinepower defaultallocation set port inlinepower show environment
-------------------------	---

show port lacp-channel

To display information about LACP channels by port or module number, use the **show port lacp-channel** command.

```
show port lacp-channel [mod/port] [statistics]
```

```
show port lacp-channel [mod/port] info [type]
```

Syntax Description	
<i>mod/port</i>	(Optional) Number of the module and the port on the module.
statistics	(Optional) Displays the LACP channel statistics.
info	Displays detailed LACP channel information.
<i>type</i>	(Optional) Displays feature-related parameters; valid values are spantree , trunk , protocol , gmrp , gvrp , qos , rsvp , cops , dot1qtunnel , auxiliaryvlan , and jumbo .

Defaults This command has no default settings.

Command Types Switch command

Command Modes Normal

Usage Guidelines If you do not enter a module or a port number, information about all modules is displayed.
If you enter the module number only, information about all ports on the module is displayed.

Examples This example shows how to display LACP channel information for all system modules:

```
Console> show port lacp-channel
Port Channel Admin Ch Partner Oper Partner
      Mode      Key   Id   Sys ID      Port
-----
  2/1 active   143   768  1276,45-12-24-AC-78-90  5/1
  2/2 active   143   768  1276,45-12-24-AC-78-90  5/2
-----
  4/3 passive  151   769  13459,89-BC-24-56-78-90  1/1
  4/4 passive  151   769  13459,89-BC-24-56-78-90  1/2
-----
  4/7 passive  152   770  8000,AC-12-24-56-78-90  4/3
  4/8 passive  152   770  8000,AC-12-24-56-78-90  4/4
-----
Console>
```

■ show port lacp-channel

This example shows how to display LACP channel information for all ports on module 4:

```

Console> show port lacp-channel 4
Port Channel Admin Ch Partner Oper Partner
      Mode Key Id Sys ID Port
-----
4/1 active 69 0 0,00-00-00-00-00-00 3/1
4/2 active 69 0 0,00-00-00-00-00-00 4/5
4/3 passive 151 769 13459,89-BC-24-56-78-90 1/1
4/4 passive 151 769 13459,89-BC-24-56-78-90 1/2
4/5 active 70 0 0,00-00-00-00-00-00 7/3
4/6 active 70 0 0,00-00-00-00-00-00 7/4
4/7 passive 152 770 8000,AC-12-24-56-78-90 4/3
4/8 passive 152 770 8000,AC-12-24-56-78-90 4/4
Console>

```

This example shows how to display LACP channel information for port 7 on module 4:

```

Console> show port lacp-channel 4/7
Port Channel Admin Ch Partner Oper Partner
      Mode Key Id Sys ID Port
-----
4/7 passive 152 770 8000,AC-12-24-56-78-90 4/3
4/8 passive 152 770 8000,AC-12-24-56-78-90 4/4
Console>

```

This example shows how to display detailed LACP channel information for port 7 on module 4:

```

Console> show port lacp-channel 4/7 info
I = Isolated Port. C = Channeling Port. N = Not Connected.
H = Hot Stand-by Port. S = Suspended Port.

Port LACP Port Port Speed Duplex Vlan Trunk status Port STP Port PortSecurity/
      Priority Status      1000 full 1 not-trunking 4 32
      Priority Status      1000 full 1 not-trunking 4 32
-----

Port Admin Channel_id ifIndex Partner Oper Partner Partner Partner
      Key          770      31 8000,AC-12-24-56-78-90 248 4/3 15678
      Key          770      31 8000,AC-12-24-56-78-90 249 4/4 15768
-----
Console>

```

This example shows how to display LACP channel statistics for all ports on module 4:

```

Console> show port lacp-channel 4 statistics
Port Admin LACP Pkts LACP Pkts Marker Pkts LACP Pkts
      Key Transmitted Received Transmitted Received Errors
-----
4/1 69 20 0 0 0 0
4/2 69 105 60 0 0 0
4/3 151 0 0 0 10 0
4/4 151 0 5 0 0 0
4/5 70 0 0 0 0 0
4/6 70 42 0 0 2 0
4/7 152 0 92 0 0 0
4/8 152 0 0 0 0 0
Console>

```

This example shows how to display LACP channel statistics for port 7 on module 4:

```
Console> show port lacp-channel 4/7 statistics
Port  Admin    LACP Pkts  LACP Pkts  Marker Pkts  Marker Pkts  LACP Pkts
      Key      Transmitted Received    Transmitted    Received    Errors
-----
 4/7   152          0         92          0          0          0
 4/8   152          0          0          0          0          0
Console>
```

Examples

```
clear lacp-channel statistics
set channelprotocol
set lacp-channel system-priority
set port lacp-channel
set spantree channelcost
set spantree channelvlancost
show lacp-channel
```

show port mac

To display information about the port MAC counter, use the **show port mac** command.

```
show port mac [mod[/port]]
```

Syntax Description	
<i>mod</i>	(Optional) Number of the module.
<i>/port</i>	(Optional) Number of the port on the module.

Defaults This command has no default settings.

Command Types Switch command

Command Modes Normal

Usage Guidelines If you do not specify a port number, the port mac counter information is displayed for all the ports on the module.

Examples This example shows how to display port MAC counter information for all ports on module 1:

```
Console> show port mac 1
```

```

Port      Rcv-Unicast      Rcv-Multicast      Rcv-Broadcast
-----
1/1              0                  0                  0
1/2              0                  0                  0
1/3              0                  0                  0
1/4              0                  0                  0

Port      Xmit-Unicast      Xmit-Multicast      Xmit-Broadcast
-----
1/1              0                  0                  0
1/2              0                  0                  0
1/3              0                  0                  0
1/4              0                  0                  0

Port      Rcv-Octet      Xmit-Octet
-----
1/1              0              0
1/2              0              0
1/3              0              0
1/4              0              0

```

```

MAC          Dely-Exced  MTU-Exced  In-Discard  Lrn-Discrd  In-Lost    Out-Lost
-----
 1/1          0           0           0           0           0           0
 1/2          0           0           0           0           0           0
 1/3          0           0           0           0           0           0
 1/4          0           0           0           0           0           0

```

```
Last-Time-Cleared
```

```
-----
Fri Sep 1 2000, 20:03:06
Console>
```

Table 2-45 describes the fields in the **show port mac** command output.

Table 2-45 *show port mac Command Output Fields*

Field	Description
Rcv-Unicast	Number of unicast frames received on the port
Rcv-Multicast	Number of multicast frames received on the port
Rcv-Broadcast	Number of broadcast frames received on the port
Xmit-Unicast	Number of unicast frames transmitted by the port
Xmit-Multicast	Number of multicast frames transmitted by the port
Xmit-Broadcast	Number of broadcast frames transmitted by the port
Rcv-Octet	Number of octet frames received on the port
Xmit-Octet	Number of octet frames transmitted by the port
Dely-Exced	Number of transmit frames aborted due to excessive deferral
MTU-Exced	Number of frames for which the MTU size was exceeded
In-Discard	Number of incoming frames that were discarded because the frame did not need to be switched
Lrn-Discard	Number of outbound packets chosen to be discarded even though no errors had been detected to prevent transmission
In-Lost	Number of incoming frames
Out-Lost	Number of outbound packets

Related Commands

[clear counters](#)

show port negotiation

To display the link negotiation protocol setting for a specific port, use the **show port negotiation** command.

```
show port negotiation [mod[/port]]
```

Syntax Description	
<i>mod</i>	(Optional) Number of the module.
<i>port</i>	(Optional) Number of the port on the module.

Defaults This command has no default settings.

Command Types Switch command

Command Modes Normal

Usage Guidelines This command is supported on Gigabit Ethernet and some Fast Ethernet ports. If the port does not support the command, the following message is displayed (where N/N is the module and port number):

```
Feature not supported on Port N/N.
```

Examples This example shows how to display the link negotiation protocol settings on module 3, port 1:

```
Console> show port negotiation 3/1
Port      Link Negotiation
-----
3/1              enabled
Console>
```

Related Commands [set port negotiation](#)
[show port flowcontrol](#)

show port protocol

To view protocol filters configured on a specific port, use the **show port protocol** command.

```
show port protocol [mod[/port]]
```

Syntax Description	<i>mod/port</i> (Optional) Number of the module and the port on the module.
Defaults	This command has no default settings.
Command Types	Switch command
Command Modes	Normal
Usage Guidelines	If you do not specify a port number, filters configured on all the ports on the module are shown.

Examples

This example shows how to view protocol filters on configured ports:

```
Console> show port protocol
Port      Vlan      IP      IP Hosts  IPX      IPX Hosts  Group      Group Hosts
-----
1/1       1         on      0         on       0         on        0
1/2       1         on      0         on       0         on        0
2/1       1         on      3         auto-on  0         auto-on   0
2/2       1         on      0         on       0         on        0
2/3       1         on      0         on       0         on        0
2/4       1         on      0         on       0         on        0
2/5       1         on      0         on       0         on        0
2/6       1         on      0         on       0         on        0
2/7       1         on      0         on       0         on        0
2/8       1         on      0         on       0         on        0
2/9       1         on      0         on       0         on        0
2/10     1         on      0         on       0         on        0
Console>
```

This example shows how to view protocol filters on port 15 of module 3:

```
Console> (enable) show port protocol 3/15
Port      Vlan      IP      IP Hosts  IPX      IPX Hosts  Group      Group Hosts
-----
3/15     1000     auto-on  2         auto-off  0         auto-off   0
To:
```

■ show port protocol

```

Port      Vlan      AuxVlan IP      IP      IPX      IPX      Group      Group
          Status   Hosts   Status   Hosts   Status   Hosts
-----
3/15     1000     234    auto-on  2      auto-off 0      auto-off  0
Console> (enable)

```

Related Commands [set port protocol](#)

show port security

To view port security configuration information and statistics, use the **show port security** command.

show port security [*mod[/port...]*] [*statistics*]

Syntax Description	
<i>mod/port</i>	(Optional) Number of the module and the port on the module.
<i>statistics</i>	Displays security statistics.

Defaults Configuration information is displayed

Command Types Switch command

Command Modes Privileged

Usage Guidelines If you enter this command on a Token Ring port, the following message is generated:
Feature not supported for Module x.

Examples This example shows how to display port security configuration information on a secured port:

```
Console> (enable) show port security 4/1
Port Security Violation Shutdown-Time Age-Time Maximum-Addrs Trap IfIndex
-----
4/1 enabled shutdown 120 1440 25 disabled 3

Port Secure-Src-Addrs Age-Left Last-Src-Addr Shutdown Shutdown-Time-Left
-----
4/1 00-11-22-33-44-55 4 00-11-22-33-44-55 No -
    00-10-14-da-77-f1 100
```

This example shows the output on a port that has experienced a security violation:

```
Console> (enable) show port security 4/1
Port Security Violation Shutdown-Time Age-Time Maximum-Addrs Trap IfIndex
-----
4/1 enabled shutdown 120 600 25 disabled 3

Port Secure-Src-Addrs Age-Left Last-Src-Addr Shutdown Shutdown-Time-Left
-----
4/1 00-11-22-33-44-55 60 00-11-22-33-44-77 Yes -
    00-10-14-da-77-f1 200
    00-11-22-33-44-66 200
```

show port security

This example shows that port 4/1 has been shut down and that the timeout left is 60 minutes before the port will be reenabled:

```

Console> (enable) show port security 4/1
Port  Security Violation Shutdown-Time Age-Time Maximum-Addrs Trap      IfIndex
-----
 4/1  enabled  restrict  120          600      25          disabled 3

Port Secure-Src-Addrs  Age-Left Last-Src-Addr      Shutdown Shutdown-Time-Left
-----
 4/1 00-11-22-33-44-55 60      00-11-22-33-44-77 Yes      -
      00-10-14-da-77-ff
Console> (enable)

```

Related Commands

[clear qos config](#)
[set port security](#)

show port security statistics

To view port security configuration statistics, use the **show port security** command.

```
show port security statistics [mod [mod/port]] [system]
```

Syntax Description	
<i>mod</i>	Number of the module.
<i>mod/port</i>	Number of the module and port.
system	(Optional) Displays systemwide configuration statistics.

Command Types Switch command

Command Modes Privileged

Usage Guidelines If you enter this command on a Token Ring port, the following message is generated:
Feature not supported for Module x.

Examples This example shows how to display port security configuration information on a secured port and the output:

```
Console> (enable) show port security statistics system
Module 1:
  Total ports: 4
  Total MAC address(es): 4
  Total global address space used (out of 1024): 0
  Status: installed

Module 3:
  Total ports: 24
  Total MAC address(es): 24
  Total global address space used (out of 1024): 0
  Status: installed

Module 8:
  Module does not support port security feature
Module 10:
  Module does not support port security feature
Console> (enable)
```

Related Commands [clear qos config](#)
[set port security](#)

show port spantree

To display port spanning tree information, use the **show port spantree** command.

```
show port spantree [mod[/port]]
```

Syntax Description	<i>mod/port</i> (Optional) Number of the module and the port on the module.
---------------------------	---

Defaults	This command has no default settings.
-----------------	---------------------------------------

Command Types	Switch command
----------------------	----------------

Command Modes	Normal
----------------------	--------

Usage Guidelines	If you do not specify <i>mod</i> , the ports on all modules are shown. If you do not specify a <i>port</i> , all the ports on the module are shown.
-------------------------	---

Examples	This example shows how to display spanning tree information on all ports on module 5:
-----------------	---

```
Console> (enable) show port spantree 5
Port(s)                Vlan Port-State      Cost      Prio Portfast Channel_id
-----
5/1                    1    not-connected    2684354   32 disabled 0
5/2                    1    not-connected    2684354   32 disabled 0
5/3                    1    not-connected    2684354   32 disabled 0
5/4                    1    not-connected    2684354   32 disabled 0
5/5                    1    not-connected    2684354   32 disabled 0
5/6                    1    not-connected    2684354   32 disabled 0
5/7                    1    not-connected    2684354   32 disabled 0
5/8                    1    not-connected    2684354   32 disabled 0
5/9                    1    forwarding       268435    32 disabled 0
Console> (enable)
```

Related Commands	show spantree
-------------------------	-------------------------------

show port status

To display port status information, use the **show port status** command.

```
show port status [mod[/port]]
```

Syntax Description	<i>mod/port</i> (Optional) Number of the module and the port on the module.
---------------------------	---

Defaults	This command has no default settings.
-----------------	---------------------------------------

Command Types	Switch command
----------------------	----------------

Command Modes	Normal
----------------------	--------

Usage Guidelines	<p>If you do not specify a module number, the ports on all modules are shown.</p> <p>If you do not specify a port number, all the ports on a specified module are shown.</p>
-------------------------	--

Examples	This example shows how to display port status information for all ports on all modules:
-----------------	---

```

Console> show port status
Port Name          Status      Vlan      Level Duplex Speed Type
-----
1/1                connected  523       Normal half   100 100BaseTX
1/2                notconnect 1         Normal half   100 100BaseTX
2/1                connected  trunk     Normal half   400 Route Switch
3/1                notconnect trunk     Normal full   155 OC3 MMF ATM
5/1                notconnect 1         Normal half   100 FDDI
5/2                notconnect 1         Normal half   100 FDDI
Console>

```

[Table 2-46](#) describes the fields in the **show port status** command output.

Table 2-46 show port status Command Output Fields

Field	Description
Port	Module and port number
Name	Name (if configured) of the port
Status	Status of the port (connected, notconnect, connecting, standby, faulty, inactive, shutdown, disabled, or monitor)
Vlan	VLAN to which the port belongs
Level	Level setting for the port (Normal or high)
Duplex	Duplex setting for the port (auto, full, fdx, half, hdx, a-half, a-hdx, a-full, or a-fdx)

Table 2-46 *show port status Command Output Fields (continued)*

Field	Description
Speed	Speed setting for the port (auto, 10, 100, 155, 400, a-10, a-100, 4, 16, a-14, or a-16)
Type ¹	Port type (for example, 10BASE-T, 10BaseFL MM, 100BASE-TX, 100BASE-T4, 100BASE-FX MM, 100BASE-FX SM, 10/100BASE-TX, TokenRing, FDDI, CDDI, OC3, MMF, ATM, or RSM)

1. The types will change according to the system configuration.

show port trap

To display port trap status, use the **show port trap** command.

```
show port trap [mod[/port]]
```

Syntax Description	<i>mod/port</i> (Optional) Number of the module and the port on the module.
Defaults	This command has no default settings.
Command Types	Switch command
Command Modes	Normal
Usage Guidelines	If you do not specify <i>mod</i> , the ports on all modules are shown. If you do not specify <i>port</i> , all the ports on a specified module are shown.
Examples	<p>This example shows how to display port trap status for all ports on module 1:</p> <pre>Console> show port trap 1</pre> <pre>Port Trap ----- - 1/1 disabled 1/2 enabled 1/3 disabled 1/4 disabled Console></pre>
Related Commands	set port trap

show port trunk

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

show port trunk [*mod/port*]

Syntax Description	<i>mod/port</i> (Optional) Number of the module and the port on the module.
Defaults	This command has no default settings.
Command Types	Switch command
Command Modes	Normal
Usage Guidelines	If you do not specify <i>mod</i> , the ports on all modules are shown. If you do not specify <i>port</i> , all the ports on a specified module are shown.

Examples

This example shows how to display trunking information for module 4, port 5:

```
Console> (enable) show port trunk 4/5
* - indicates vtp domain mismatch
```

```
Port      Mode           Encapsulation  Status      Native vlan
-----  -
4/5      nonegotiate   dot1q          trunking    1
```

```
Port      Vlans allowed on trunk
-----  -
4/5      1-1005
```

```
Port      Vlans allowed and active in management domain
-----  -
4/5      1-3,1003,1005
```

```
Port      Vlans in spanning tree forwarding state and not pruned
-----  -
4/5      1005
```

```
Console> (enable)
```

Table 2-47 describes the fields in the **show port trunk** command output.

Table 2-47 *show port trunk Command Output Fields*

Field	Description
Port	Module and port numbers
Mode	Trunk administrative status of the port (on, off, auto, nonnegotiate, or desirable)
Encapsulation	Trunking type configured by administration
Status	Status of whether the port is trunking or nontrunking
Native VLAN	Number of the native VLAN for the trunk link (for 802.1Q trunks, the VLAN for which untagged traffic can be transmitted and received over the trunk; for ISL trunks, packets are tagged on all VLANs, including the native VLAN)
Vlans allowed on trunk	Range of VLANs allowed to go on the trunk (valid values are from 1 to 1000)
Vlans allowed and active in management domain	Range of active VLANs within the allowed range
Vlans in spanning tree forwarding state and not pruned	Range of VLANs that actually go on the trunk with Spanning Tree Protocol forwarding state

Related Commands [show trunk](#)

show port unicast-flood

To display the run-time configuration of the port using unicast flood blocking, use the **show port unicast-flood** command.

```
show port unicast-flood [mod | mod/port]
```

Syntax Description	<i>mod/port</i> Number of the module and the port on the module.
Defaults	This command has no default settings.
Command Types	Switch command
Command Modes	Normal
Usage Guidelines	The show port unicast-flood command displays the run-time status of unicast flood. The switch may show as enabled or disabled depending upon if the address limitation has been reached.
Examples	<p>This example shows how to display unicast flood blocking information for module 4, port 1 of a switch:</p> <pre>Console> (enable) show port unicast-flood 4/1 Port Unicast Flooding ---- - 4/1 Disabled Console> (enable)</pre>
Related Commands	set port unicast-flood

show proc

To display CPU memory allocation and process utilization information, use the **show proc** command.

```
show proc [cpu | mem] {mod}
```

Syntax Description	
cpu	(Optional) CPU information.
mem	(Optional) Memory information.
<i>mod</i>	Number of the module.

Defaults This command has no default settings.

Command Types Switch command

Command Modes Privileged

Usage Guidelines This command can only be entered in privileged mode. If you do not specify **cpu** or **mem**, process information is displayed.

The **mem** keyword allows you to display memory information, such as how much each process has allocated and how much memory is free.

Examples This example shows how to display CPU information:

```
Console> (enable) show proc cpu
```

```
CPU utilization for five seconds:  1.44%
                                one minute:  1.96%
                                five minutes:  1.02%
```

PID	Runtime(ms)	Invoked	uSecs	5Sec	1Min	5Min	TTY	Process
1	0	0	0	98.56%	98.04%	98.98%	0	Kernel and Idle
2	4	38	1000	0.00%	0.00%	0.00%	0	Flash MIB Updat
3	1421	5547	466000	0.00%	0.00%	0.00%	0	SynDiags
4	166212	519822	19000	0.22%	0.00%	0.00%	0	SynConfig
5	185	94681	1000	0.00%	0.00%	0.00%	0	Statuspoll
6	472	297	0	0.00%	0.00%	0.00%	0	SWPoll164bCnt
7	90	3548211	1000	0.00%	0.00%	0.00%	0	SL_TASK
8	113	141960	106000	0.00%	0.00%	0.00%	0	RedundantTask

```
Console> (enable)
```

This example shows how to display process information:

```
Console> (enable) show proc mem
```

```
Memory Used: 1281040
Freed: 9597104
Total: 10878144
```

PID	TTY	Allocated	Freed	Holding	Process
1	0	711008	2832	708176	Kernel and Idle
2	0	240	0	240	Flash MIB Updat
3	0	284128	283712	416	SynDiags
4	0	211856	1920	209936	SynConfig
5	0	96	0	96	Statuspoll
6	0	4944	4352	592	SWPoll164bCnt
7	0	80	0	80	SL_TASK
8	0	2272	1952	320	RedundantTask

```
Console> (enable)
```

This example shows how to display process utilization information:

```
Console> (enable) show proc
```

```
CPU utilization for five seconds: 0.44%
one minute: 1.00%
five minutes: 1.00%
```

PID	Q	T	PC	Runtime(ms)	Invoked	uSecs	Stacks	TTY	Process
1	1	rd	0x8041ab80	0	0	0	1580/6144	0	Kernel and Idle
2	1	st	0x8041adfc	4	38	1000	1604/6144	0	Flash MIB Updat
3	2	st	0x8041adfc	1421	5547	466000	3364/6144	0	SynDiags
4	1	si	0x8041adfc	166438	520543	19000	1764/6144	0	SynConfig
5	2	si	0x8041adfc	186	94812	1000	1576/6144	0	Statuspoll
6	4	si	0x8041adfc	472	297	0	244/6144	0	SWPoll164bCnt
7	2	si	0x8041adfc	92	3553068	1000	904/6144	0	SL_TASK
8	2	si	0x8041adfc	113	142157	106000	1172/6144	0	RedundantTask

```
Console> (enable)
```

Table 2-48 describes the possible fields in the **show proc** command outputs.

Table 2-48 show proc Command Output Fields

Field	Definition
CPU Utilization	Sum of all the loads from all the processes running on the CPU in the last 5 seconds, 1 minute, and 5 minutes.
PID	Process ID.
Runtime	Time the process has run since being created (in milliseconds).
Invoked	Number of times the process has been invoked since being created.
uSecs	Maximum time a process ran in a single invocation.
5sec	Percentage of time this process ran on the CPU in the last 5 second interval.
1Min	Percentage of time this process ran on the CPU in the last 1 minute interval.
5Min	Percentage of time this process ran on the CPU in the last 5 minute interval.
TTY	TTY associated with the process.
Process	Name of the process.

Table 2-48 *show proc Command Output Fields (continued)*

Field	Definition
Allocated	Sum of all the memory malloced by the process since it was created, and includes the memory previously freed.
Freed	Sum of memory the process has freed until now.
Holding	Amount of memory the process is currently holding.
PC	Calling PC for “show_process” function.
Q	Process priority in terms of numbers. A low number means high priority.
T	State of the process (Running, we=waiting for event, st=sleeping, si=sleeping on an interval, rd=ready to run, id=idle, xx=dead/zombie).
Stacks	Size of the stack used by the process, or the total stack size allocated to the process (in bytes).

show protocolfilter

To determine whether protocol filtering is enabled or disabled, use the **show protocolfilter** command.

show protocolfilter

Syntax Description This command has no keywords or arguments.

Defaults This command has no default settings.

Command Types Switch command

Command Modes Normal

Examples This example shows how to display whether protocol filtering is enabled or disabled:

```
Console> show protocolfilter
Protocol filtering is enabled on this switch.
Console>
```

Related Commands [set port protocol](#)

show pvlan

To show the configuration for a specific private VLAN (PVLAN), use the **show pvlan** command.

show pvlan [*vlan* | **primary** | **isolated** | **community** | **twoway-community**]

Syntax Description	
<i>vlan</i>	(Optional) Number of the private VLAN.
primary	(Optional) Displays the primary private VLANs.
isolated	(Optional) Displays the isolated private VLANs.
community	(Optional) Displays the community private VLANs.
twoway-community	(Optional) Displays the bidirectional community private VLANs.

Defaults This command has no default settings.

Command Types Switch command

Command Modes Normal

Usage Guidelines A **twoway-community** PVLAN is a bidirectional community PVLAN that carries traffic among community ports and to and from community ports to and from the supervisor engine.

Examples This example shows how to display the status for VLAN 10:

```
Console> show pvlan 10
Primary Secondary Secondary-Type Ports
-----
10      20      isolated      6/1
Console>
```

This example shows how to display the status for all VLANs set as primary:

```
Console> show pvlan primary
Primary Secondary Secondary-Type Ports
-----
10      20      isolated      6/1
11      21      isolated      6/2
30      -       -              -
Console>
```

■ show pvlan

This example shows how to display the status for all VLANs set as isolated:

```

Console> show pvlan isolated
Primary Secondary Secondary-Type Ports
-----
10      20      isolated      6/1
11      21      isolated      6/2
-       31      isolated
Console>

```

This example shows how to display the status for all VLANs set as community:

```

Console> show pvlan community
Primary Secondary Secondary-Type Ports
-----
7       902     community     2/4-6
Console>

```

Related Commands

[clear config pvlan](#)
[clear pvlan mapping](#)
[clear vlan](#)
[set pvlan](#)
[set pvlan mapping](#)
[set vlan](#)
[show pvlan capability](#)
[show pvlan mapping](#)
[show vlan](#)

show pvlan capability

To determine if a port can be made a private port, use the **show pvlan capability** command.

show pvlan capability *mod/port*

Syntax Description	<i>mod/port</i>	Number of the module and the port on the module.
--------------------	-----------------	--

Defaults	This command has no default settings.
----------	---------------------------------------

Command Types	Switch command
---------------	----------------

Command Modes	Normal
---------------	--------

Examples	This example shows how to determine if port 20 on module 5 can be made into a PVLAN:
----------	--

```
Console> (enable) show pvlan capability 5/20
Ports 5/13 - 5/24 are in the same ASIC range as port 5/20.
```

```
Port 5/20 can be made a private vlan port.
Console> (enable)
```

These examples show the output if a port cannot be made into a PVLAN:

```
Console> (enable) show pvlan capability 3/1
Port 3/1 cannot be made a private vlan port due to:
```

```
-----
Promiscuous ports cannot be made private vlan ports.
Console> (enable)
```

```
Console> (enable) show pvlan capability 5/1
Ports 5/1 - 5/12 are in the same ASIC range as port 5/1.
```

```
Port 5/1 cannot be made a private vlan port due to:
```

```
-----
Trunking ports are not Private Vlan capable.
Conflict with Promiscuous port(s) : 5/2
Console> (enable)
```

```
Console> (enable) show pvlan capability 5/2
Ports 5/1 - 5/12 are in the same ASIC range as port 5/2.
```

```
Port 5/2 cannot be made a private vlan port due to:
```

```
-----
Promiscuous ports cannot be made private vlan ports.
Conflict with Trunking port(s) : 5/1
Console> (enable)
```

show pvlan capability

```
Console> (enable) show pvlan capability 5/3
Ports 5/1 - 5/12 are in the same ASIC range as port 5/3.

Port 5/3 cannot be made a private vlan port due to:
-----
Conflict with Promiscuous port(s) : 5/2
Conflict with Trunking port(s) : 5/1
Console> (enable)

Console> (enable) show pvlan capability 15/1
Port 15/1 cannot be made a private vlan port due to:
-----
Only ethernet ports can be added to private vlans.
Console> (enable)
```

Related Commands

- clear config pvlan**
- clear pvlan mapping**
- clear vlan**
- set pvlan**
- set pvlan mapping**
- set vlan**
- show pvlan**
- show pvlan mapping**
- show vlan**

show pvlan mapping

To show the PVLAN mappings configured on promiscuous ports, use the **show pvlan mapping** command.

```
show pvlan mapping [private_vlan | mod/port]
```

Syntax Description

<i>private_vlan</i>	(Optional) Number of the private VLAN.
<i>mod/port</i>	(Optional) Number of the module and the port on the module.

Defaults

This command has no default settings.

Command Types

Switch command

Command Modes

Normal

Examples

This example shows how to display the private VLAN mapping by port:

```
Console> show pvlan mapping
Port Primary Secondary
-----
 6/3 10      20
Console>
```

This example shows how to display a private VLAN mapping for VLAN 10:

```
Console> show pvlan mapping 10
Primary Secondary Ports
-----
10      20      6/3
Console>
```

This example shows how to display the private VLAN mapping for port 3 on module 6:

```
Console> show pvlan mapping 6/3
Port Primary Secondary
-----
 6/3 10      20
Console>
```

This example shows the results when no VLANs are mapped:

```
Console> show pvlan mapping
Port Primary Secondary
-----
No Private Vlan Mappings configured.
Console>
```

■ show pvlan mapping

Related Commands

[clear config pvlan](#)
[clear pvlan mapping](#)
[clear vlan](#)
[set pvlan](#)
[set pvlan mapping](#)
[set vlan](#)
[show pvlan](#)
[show pvlan capability](#)
[show vlan](#)