Cisco ME 3400E Ethernet Access Switch Show Platform Commands

This appendix describes the **show platform** privileged EXEC commands that have been created or changed for use with the Cisco ME 3400E Ethernet Access switch. These commands display information helpful in diagnosing and resolving internetworking problems and should be used only under the guidance of Cisco technical support staff.

show platform acl

Use the **show platform acl** privileged EXEC command to display platform-dependent access control list (ACL) manager information.

show platform acl {**interface** *interface-id* | **label** *label-number* [**detail**] | **statistics** *asic-number* | **usage** *asic-number* [**summary**] | **vlan** *vlan-id*} [| {**begin** | **exclude** | **include**} *expression*]

Syntax Description

interface *interface-id*	Display per-interface ACL manager information for the specified interface. The interface can be a physical interface or a VLAN.
label *label-number* [**detail**]	Display per-label ACL manager information. The *label-number* range is 0 to 255. The keyword has this meaning: • **detail**—(Optional) Display detailed ACL manager label information.
statistics *asic-number*	Display per-ASIC ACL statistics. The *asic-numbe*r is the port ASIC number, always 0.
usage *asic-number* [**summary**]	Display per-ASIC ACL usage. The *asic-numbe*rs is the port ASIC number, always 0. The keyword has this meaning: • **summary**—(Optional) Display brief usage information.
vlan *vlan-id*	Display per-VLAN ACL manager information. The *vlan-id* range is from 1 to 4094.
| begin	(Optional) Display begins with the line that matches the *expression*.
| exclude	(Optional) Display excludes lines that match the *expression*.
| include	(Optional) Display includes lines that match the specified *expression*.
expression	Expression in the output to use as a reference point.

Command Modes   Privileged EXEC

Command History

Release	Modification
12.2(44)EY	This command was introduced.

Usage Guidelines   You should use this command only when you are working directly with a technical support representative while troubleshooting a problem. Do not use this command unless a technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform backup interface

Use the **show platform backup interface** privileged EXEC command to display platform-dependent backup information used in a Flex Links configuration.

> **show platform backup interface** [*interface-id* | **dummyQ**] [| {**begin** | **exclude** | **include**} *expression*]

Syntax Description

interface-id	(Optional) Display backup information for all interfaces or the specified interface. The interface can be a physical interface or a port channel.
dummyQ	(Optional) Display dummy queue information.
| begin	(Optional) Display begins with the line that matches the *expression*.
| exclude	(Optional) Display excludes lines that match the *expression*.
| include	(Optional) Display includes lines that match the specified *expression*.
expression	Expression in the output to use as a reference point.

Command Modes   Privileged EXEC

Command History

Release	Modification
12.2(44)EY	This command was introduced.

Usage Guidelines   You should use this command only when you are working directly with a technical support representative while troubleshooting a problem. Do not use this command unless a technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform cfm

Use the **show platform cfm** privileged EXEC command to display platform-dependent Ethernet Connectivity Fault Management (CFM) information. CFM is an end-to-end per-service-instance Ethernet layer operation, administration, and management (OAM) protocol that provides proactive connectivity monitoring, fault verification, and fault isolation for large Ethernet networks.

show platform cfm [**|** {**begin** | **exclude** | **include**} *expression*]

Syntax Description		
**	begin**	(Optional) Display begins with the line that matches the *expression*.
**	exclude**	(Optional) Display excludes lines that match the *expression*.
**	include**	(Optional) Display includes lines that match the specified *expression*.
expression	Expression in the output to use as a reference point.

Command Modes   Privileged EXEC

Command History	Release	Modification
	12.2(44)EY	This command was introduced.

Usage Guidelines   You should use this command only when you are working directly with a technical support representative while troubleshooting a problem. Do not use this command unless a technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* are not displayed, but the lines that contain *Output* are displayed.

show platform configuration

Use the **show platform configuration** privileged EXEC command to display platform-dependent configuration-manager related information.

show platform configuration {**config-output** | **default** | **running** | **startup**} [| {**begin** | **exclude** | **include**} *expression*]

Syntax Description

config-output	Display the output of the last auto-configuration application.
default	Display whether or not the system is running the default configuration.
running	Display a snapshot of the backed-up running configuration on the local switch.
startup	Display a snapshot of the backed-up startup configuration on the local switch.
| begin	(Optional) Display begins with the line that matches the *expression*.
| exclude	(Optional) Display excludes lines that match the *expression*.
| include	(Optional) Display includes lines that match the specified *expression*.
expression	Expression in the output to use as a reference point.

Command Modes   Privileged EXEC

Command History

Release	Modification
12.2(44)EY	This command was introduced.

Usage Guidelines   You should use this command only when you are working directly with a technical support representative while troubleshooting a problem. Do not use this command unless a technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform dl

Use the **show platform dl** privileged EXEC command to display dynamically loaded module information.

show platform dl [**detail**] [| {**begin** | **exclude** | **include**} *expression*]

Syntax Description

detail	(Optional) Display detailed dynamically loaded module information.
| begin	(Optional) Display begins with the line that matches the *expression*.
| exclude	(Optional) Display excludes lines that match the *expression*.
| include	(Optional) Display includes lines that match the specified *expression*.
expression	Expression in the output to use as a reference point.

Command Modes   Privileged EXEC

Command History

Release	Modification
12.2(44)EY	This command was introduced.

Usage Guidelines   You should use this command only when you are working directly with a technical support representative while troubleshooting a problem. Do not use this command unless a technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter | **exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform etherchannel

Use the **show platform etherchannel** privileged EXEC command to display platform-dependent EtherChannel information.

show platform etherchannel {**flags** | **time-stamps**} [**|** {**begin** | **exclude** | **include**} *expression*]

Syntax Description		
	flags	Display EtherChannel port flags.
	time-stamps	Display EtherChannel time stamps.
	| begin	(Optional) Display begins with the line that matches the *expression*.
	| exclude	(Optional) Display excludes lines that match the *expression*.
	| include	(Optional) Display includes lines that match the specified *expression*.
	expression	Expression in the output to use as a reference point.

Command Modes   Privileged EXEC

Command History	Release	Modification
	12.2(44)EY	This command was introduced.

Usage Guidelines   You should use this command only when you are working directly with a technical support representative while troubleshooting a problem. Do not use this command unless a technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform forward

Use the **show platform forward** privileged EXEC command for an interface to specify how the hardware would forward a frame that matches the specified parameters.

> **show platform forward** *interface-id* [**vlan** *vlan-id*] *src-mac dst-mac* [*l3protocol-id*] [**sap** | **snap**]
> [**cos** *cos*] [**ip** *src-ip dst-ip* [**frag** *field*] [**dscp** *dscp*] {*l4protocol-id* | **icmp** *icmp-type icmp-code* |
> **igmp** *igmp-version igmp-type* | **tcp** *src-port dst-port flags* | **udp** *src-port dst-port*} [**|** {**begin** |
> **exclude** | **include**} *expression*]

Syntax Description		
interface-id	The input physical interface, the port on which the packet comes in to the switch (including type and port number).
vlan *vlan-id*	(Optional) Input VLAN ID. The range is 1 to 4094. If not specified, and the input interface is not a routed port, the default is 1.
src-mac	48-bit source MAC address.
dst-mac	48-bit destination MAC address.
l3protocol-id	(Optional) The Layer 3 protocol used in the packet. The number is a value 0 to 65535.
sap	(Optional) Service access point (SAP) encapsulation type.
snap	(Optional) Subnetwork Access Protocol (SNAP) encapsulation type.
cos *cos*	(Optional) Class of service (CoS) value of the frame. The range is 0 to 7.
ip *src-ip dst-ip*	(Optional, but required for IP packets) Source and destination IP addresses in dotted decimal notation.
frag *field*	(Optional) The IP fragment field for a fragmented IP packet. The range is 0 to 65535.
dscp *dscp*	(Optional) Differentiated Services Code Point (DSCP) field in the IP header. The range is 0 to 63.
l4protocol-id	The numeric value of the Layer 4 protocol field in the IP header. The range is 0 to 255. For example, 47 is generic routing encapsulation (GRE), and 89 is Open Shortest Path First (OSPF). If the protocol is TCP, UDP, ICMP, or IGMP, you should use the appropriate keyword instead of a numeric value.
icmp *icmp-type icmp-code*	Internet Control Message Protocol (ICMP) parameters. The *icmp-type* and *icmp-code* ranges are 0 to 255.
igmp *igmp-version igmp-type*	Internet Group Management Protocol (IGMP) parameters. The *igmp-version* range is 1 to 15; the *igmp-type* range is 0 to 15.
tcp *src-port dst-port flags*	TCP parameters: TCP source port, destination port, and the numeric value of the TCP flags byte in the header. The *src-port* and *dst-port* ranges are 0 to 65535. The flag range is from 0 to 1024.
udp *src-port dst-port*	User Datagram Protocol (UDP) parameters. The *src-port* and *dst-port* ranges are 0 to 65535.
| begin	(Optional) Display begins with the line that matches the *expression*.
| exclude	(Optional) Display excludes lines that match the *expression*.
| include	(Optional) Display includes lines that match the specified *expression*.
expression	Expression in the output to use as a reference point.

Note   Though visible in the command-line help strings, the **ipv6** keyword is not supported.

Command Modes   Privileged EXEC

Command History

Release	Modification
12.2(44)EY	This command was introduced.

Usage Guidelines   You should use this command only when you are working directly with a technical support representative while troubleshooting a problem. Do not use this command unless a technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter | **exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

Examples   See the "Troubleshooting" chapter of the software configuration guide for this release for examples of the **show platform forward** command output displays and what they mean.

show platform frontend-controller

Use the **show platform frontend-controller** privileged EXEC command to display counter and status information for the front-end controller manager and subordinate applications and to display the hardware and software information for the front-end controller.

> **show platform frontend-controller** {**buffer** | **generic** | **manager** *number* | **subordinate** *number* | **version** *number*} [| {**begin** | **exclude** | **include**} *expression*]

Syntax Description

buffer	Display the last 1024 bytes sent from the manager to the subordinate and the reverse.
generic	Display the generic counters that do not specifically apply to the manager or subordinate.
manager *number*	Display the counters for the manager and the subordinate specified by *number*. See the "Usage Guidelines" section for the *number* range.
subordinate *number*	Display the subordinate status and the counters for the subordinate specified by *number*. See the "Usage Guidelines" section for the *number* range.
version *number*	Display the hardware and software version information for the subordinate status specified by *number*. The range is from 0 to 1.
	begin	(Optional) Display begins with the line that matches the *expression*.
	exclude	(Optional) Display excludes lines that match the *expression*.
	include	(Optional) Display includes lines that match the specified *expression*.
expression	Expression in the output to use as a reference point.

Command Modes   Privileged EXEC

Command History

Release	Modification
12.2(44)EY	This command was introduced.

Usage Guidelines   You should use this command only when you are working directly with a technical support representative while troubleshooting a problem. Do not use this command unless a technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter | **exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform ip igmp snooping

Use the **show platform ip igmp snooping** privileged EXEC command to display platform-dependent Internet Group Management Protocol (IGMP) snooping information.

> **show platform ip igmp snooping** {**all** | **control** [**di**] | **counters** | **flood** [**vlan** *vlan-id*] | **group** *ip-address* | **hardware** | **retry** [**count** | **local** [**count**] | **remote** [**count**]]} [| {**begin** | **exclude** | **include**} *expression*]

Syntax Description		
all	Display all IGMP snooping platform IP multicast information.	
control [**di**]	Display IGMP snooping control entries. The keyword has this meaning:	
	• **di**—(Optional) Display IGMP snooping control destination index entries.	
counters	Display IGMP snooping counters.	
flood [**vlan** *vlan-id*]	Display IGMP snooping flood information. The keyword has this meaning:	
	• **vlan** *vlan-id*—(Optional) Display flood information for the specified VLAN. The range is 1 to 4094.	
group *ip-address*	Display the IGMP snooping multicast group information, where *ip-address* is the IP address of the group.	
hardware	Display IGMP snooping information loaded into hardware.	
retry [**count**	**local** [**count**]	Display IGMP snooping retry information. The keywords have these meanings:	
	• **count**—(Optional) Display only the retry count.	
	• **local**—(Optional) Display local retry entries.	
remote [**count**]	Display remote entries. The keyword has this meaning:	
	• **count**—(Optional) Display only the remote count.	
| begin	(Optional) Display begins with the line that matches the *expression*.	
| exclude	(Optional) Display excludes lines that match the *expression*.	
| include	(Optional) Display includes lines that match the specified *expression*.	
expression	Expression in the output to use as a reference point.	

Command Modes   Privileged EXEC

Command History

Release	Modification
12.2(44)EY	This command was introduced.

Usage Guidelines   You should use this command only when you are working directly with a technical support representative while troubleshooting a problem. Do not use this command unless a technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter | **exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform ip multicast

Use the **show platform ip multicast** privileged EXEC command to display platform-dependent IP multicast tables and other information.

> **show platform ip multicast** {**acl-full-info** | **counters** | **groups** | **hardware** [**detail**] | **interfaces** | **locks** | **mdfs-routes** | **retry** | **trace**} [**|** {**begin** | **exclude** | **include**} *expression*]

Syntax Description

acl-full-info	Display IP multicast routing access-control list (ACL) information, in particular the number of outgoing VLANs for which router ACLs at the output cannot be applied in hardware.
counters	Display IP multicast counters and statistics.
groups	Display IP multicast routes per group.
hardware [**detail**]	Display IP multicast routes loaded into hardware. The optional **detail** keyword is used to show port members in the destination index and route index.
interfaces	Display IP multicast interfaces.
locks	Display IP multicast destination-index locks.
mdfs-routes	Display multicast distributed fast switching (MDFS) IP multicast routes.
retry	Display the IP multicast routes in the retry queue.
trace	Display the IP multicast trace buffer.
| **begin**	(Optional) Display begins with the line that matches the *expression*.
| **exclude**	(Optional) Display excludes lines that match the *expression*.
| **include**	(Optional) Display includes lines that match the specified *expression*.
expression	Expression in the output to use as a reference point.

Command Modes   Privileged EXEC

Command History

Release	Modification
12.2(44)EY	This command was introduced.

Usage Guidelines   You should use this command only when you are working directly with a technical support representative while troubleshooting a problem. Do not use this command unless a technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **|** **exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform ip unicast

Use the **show platform ip unicast** privileged EXEC command to display platform-dependent IP unicast routing information.

> **show platform ip unicast** {**adjacency** | **cef-idb** | **counts** | **dhcp** | **failed** {**adjacency** | **arp** [*A.B.C.D*]
> | **route**} | **loadbalance** | **mpaths** | **route** | **standby** | **statistics** | **trace**} [| {**begin** | **exclude** |
> **include**} *expression*]

Syntax Description

adjacency	Display the platform adjacency database.
cef-idb	Display platform information corresponding to Cisco Express Forwarding (CEF) interface descriptor block.
counts	Display the current counts for the Layer 3 unicast databases.
dhcp	Display the DHCP system dynamic addresses.
failed {**adjacency** | **arp** [*A.B.C.D*] | **route**}	Display the hardware resource failures. The keywords have these meanings: • **adjacency**—Display the adjacency entries that failed to be programmed in hardware. • **arp**—Display the Address Resolution Protocol (ARP) deletions because of failure and because of retries. • *A.B.C.D*—(Optional) Prefix of the ARP entries to display. • **route**—Display the route entries that failed to be programmed in hardware.
loadbalance	Display the platform load balancing database.
mpaths	Display the Layer 3 unicast routing multipath adjacency database.
route	Display the platform route database.
standby	Display the platform standby information.
statistics	Display the Layer 3 unicast routing accumulated statistics.
trace	Display the platform event trace logs.
| **begin**	(Optional) Display begins with the line that matches the *expression*.
| **exclude**	(Optional) Display excludes lines that match the *expression*.
| **include**	(Optional) Display includes lines that match the specified *expression*.
expression	Expression in the output to use as a reference point.

Note   Though visible in the command-line help strings, the **proxy** and **table** keywords are not supported.

Command Modes   Privileged EXEC

Command History

Release	Modification
12.2(44)EY	This command was introduced.

Usage Guidelines   You should use this command only when you are working directly with a technical support representative while troubleshooting a problem. Do not use this command unless a technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform ipc trace

Use the **show platform ipc trace** privileged EXEC command to display platform-dependent Interprocess Communication (IPC) Protocol trace log information.

show platform ipc trace [**|** {**begin** | **exclude** | **include**} *expression*]

Syntax Description

	begin	(Optional) Display begins with the line that matches the *expression*.
	exclude	(Optional) Display excludes lines that match the *expression*.
	include	(Optional) Display includes lines that match the specified *expression*.
expression	Expression in the output to use as a reference point.

Command Modes   Privileged EXEC

Command History

Release	Modification
12.2(44)EY	This command was introduced.

Usage Guidelines   You should use this command only when you are working directly with a technical support representative while troubleshooting a problem. Do not use this command unless a technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **|** **exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform ipv6 unicast

Use the **show platform ipv6 unicast** privileged EXEC command to display platform-dependent IPv6 unicast routing information.

> **show platform ipv6 unicast** {**adjacency** [*ipv6-prefix*] | **backwalk** {**adjacency** | **loadbalance**} | **compress** *ipv6-prefix/prefix length* | **interface** | **loadbalance** | **mpath** | **retry** {**adjacency** | **route**} | **route** [*ipv6-prefix/prefix length* | **tcam**] [**detail**] | **statistics** | **table** [**detail**] | **trace**} [**|** {**begin** | **exclude** | **include**} *expression*]

✎

Note   This command is available only if the switch is running the metro IP access image and you have configured a dual IPv4 and IPv6 Switch Database Management (SDM) template on the switch.

Syntax Description

adjacency	Display IPv6 adjacency information for the switch or for the specified IPv6 network.
ipv6-prefix	(Optional) The IPv6 network to be displayed. The address must be specified in hexadecimal using 16-bit values between colons.
backwalk {**adjacency** | **loadbalance**}	Display IPv6 backwalk information. • **adjacency**—Display adjacency backwalk information. • **loadbalance**—Display backwalk load-balance information.
compress *ipv6-prefix/prefix length*	Display IPv6 prefix compression information. • *ipv6-prefix*—The IPv6 network. • */prefix length*—The length of the IPv6 network prefix. A decimal value from 0 to 128 that shows how many of the high-order contiguous bits of the address comprise the prefix (the network portion of the address). A slash mark must precede the decimal value.
interface	Display IPv6 interface information.
loadbalance	Display IPv6 load-balance information
mpath	Display IPv6 multipath information
retry {**adjacency** | **route**}	Display IPv6 retry information. • **adjacency**—Display IPv6 adjacency retry information. • **route**—Display IPv6 route retry information.
route	Display IPv6 route information.
tcam	(Optional) Display the IPv6 hardware route table information.
detail	(Optional) Display detailed IPv6 route information.
statistics	Display IPv6 accumulated statistics.
table	Display IPv6 unicast table information.
trace	Display IPv6 unicast traces.
| begin	(Optional) Display begins with the line that matches the *expression*.
| exclude	(Optional) Display excludes lines that match the *expression*.
| include	(Optional) Display includes lines that match the specified *expression*.
expression	Expression in the output to use as a reference point.

Command Modes   Privileged EXEC

Command History

Release	Modification
12.2(50)SE	This command was introduced.

Usage Guidelines   You should use this command only when you are working directly with a technical support representative while troubleshooting a problem. Do not use this command unless a technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter | **exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform l2pt dm

Use the **show platform l2pt dm** privileged EXEC command to display Layer 2 protocol tunneling destination maps and associated ports.

show platform l2pt dm [**|** {**begin** | **exclude** | **include**} *expression*]

Syntax Description

| begin	(Optional) Display begins with the line that matches the *expression*.
| exclude	(Optional) Display excludes lines that match the *expression*.
| include	(Optional) Display includes lines that match the specified *expression*.
expression	Expression in the output to use as a reference point.

Command Modes   Privileged EXEC

Command History

Release	Modification
12.2(44)EY	This command was introduced.

Usage Guidelines   You should use this command only when you are working directly with a technical support representative while troubleshooting a problem. Do not use this command unless a technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform layer4op

Use the **show platform layer4op** privileged EXEC command to display platform-dependent Layer 4 operator information.

> **show platform layer4op** {**acl** | **qos** [*port-asic*]} {**and-or** | **map** | **or-and** | **vcu**} [| {**begin** | **exclude** | **include**} *expression*]

Syntax Description

acl	Display access control list (ACL) Layer 4 operators information.
qos [*port-asic*]	Display quality of service (QoS) Layer 4 operators information. The keyword has this meaning: • *port-asic*—(Optional) QoS port ASIC number. The value can be 0 or 1.
and-or	Display AND-OR registers information.
map	Display select map information.
or-and	Display OR-AND registers information.
vcu	Display value compare unit (VCU) register information.
| begin	(Optional) Display begins with the line that matches the *expression*.
| exclude	(Optional) Display excludes lines that match the *expression*.
| include	(Optional) Display includes lines that match the specified *expression*.
expression	Expression in the output to use as a reference point.

Command Modes   Privileged EXEC

Command History

Release	Modification
12.2(44)EY	This command was introduced.

Usage Guidelines   You should use this command only when you are working directly with a technical support representative while troubleshooting a problem. Do not use this command unless a technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter | **exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform mac-address-table

Use the **show platform mac-address-table** privileged EXEC command to display platform-dependent MAC address table information.

> **show platform mac-address-table** [**aging-array** | **hash-table** | **mac-address** *mac-address*] [**vlan** *vlan-id*]] [| {**begin** | **exclude** | **include**} *expression*]

Syntax Description

aging-array	(Optional) Display the MAC address table aging array.
hash-table	(Optional) Display the MAC address table hash table.
mac-address *mac-address*	(Optional) Display the MAC address table MAC address information, where *mac-address* is the 48-bit hardware address.
vlan *vlan-id*	(Optional) Display information for the specified VLAN. The range is 1 to 4094.
| begin	(Optional) Display begins with the line that matches the *expression*.
| exclude	(Optional) Display excludes lines that match the *expression*.
| include	(Optional) Display includes lines that match the specified *expression*.
expression	Expression in the output to use as a reference point.

Command Modes   Privileged EXEC

Command History

Release	Modification
12.2(44)EY	This command was introduced.

Usage Guidelines   You should use this command only when you are working directly with a technical support representative while troubleshooting a problem. Do not use this command unless a technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform messaging

Use the **show platform messaging** privileged EXEC command to display platform-dependent application and performance message information.

> **show platform messaging** {**application** [**incoming** | **outgoing** | **summary**] | **hiperf**
> [*class-number*]} [**|** {**begin** | **exclude** | **include**} *expression*]

Syntax Description	**application** [**incoming**	**outgoing**	**summary**]	Display application message information. The keywords have these meanings:
		• **incoming**—(Optional) Display only information about incoming application messaging requests.
		• **outgoing**—(Optional) Display only information about incoming application messaging requests.
		• **summary**—(Optional) Display summary information about all application messaging requests.
	hiperf [*class-number*]	Display outgoing high-performance message information. Specify the *class-number* option to display information about high-performance messages for this class number. The range is 0 to 36.
	| begin	(Optional) Display begins with the line that matches the *expression*.
	| exclude	(Optional) Display excludes lines that match the *expression*.
	| include	(Optional) Display includes lines that match the specified *expression*.
	expression	Expression in the output to use as a reference point.

Command Modes   Privileged EXEC

Command History

Release	Modification
12.2(44)EY	This command was introduced.

Usage Guidelines   You should use this command only when you are working directly with a technical support representative while troubleshooting a problem. Do not use this command unless a technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform monitor

Use the **show platform monitor** privileged EXEC command to display platform-dependent Switched Port Analyzer (SPAN) information.

show platform monitor [**session** *session-number*] [**|** {**begin** | **exclude** | **include**} *expression*]

Syntax Description	session *session-number*	(Optional) Display SPAN information for the specified SPAN session. The range is 1 to 66.
	| **begin**	(Optional) Display begins with the line that matches the *expression*.
	| **exclude**	(Optional) Display excludes lines that match the *expression*.
	| **include**	(Optional) Display includes lines that match the specified *expression*.
	expression	Expression in the output to use as a reference point.

Command Modes   Privileged EXEC

Command History	Release	Modification
	12.2(44)EY	This command was introduced.

Usage Guidelines   You should use this command only when you are working directly with a technical support representative while troubleshooting a problem. Do not use this command unless a technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **|** **exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform mvr table

Use the **show platform mvr table** privileged EXEC command to display the platform-dependent Multicast VLAN Registration (MVR) multi-expansion descriptor (MED) group mapping table.

show platform mvr table [**|** {**begin** | **exclude** | **include**} *expression*]

Syntax Description

| begin	(Optional) Display begins with the line that matches the *expression*.
| exclude	(Optional) Display excludes lines that match the *expression*.
| include	(Optional) Display includes lines that match the specified *expression*.
expression	Expression in the output to use as a reference point.

Command Modes   Privileged EXEC

Command History

Release	Modification
12.2(44)EY	This command was introduced.

Usage Guidelines   You should use this command only when you are working directly with a technical support representative while troubleshooting a problem. Do not use this command unless a technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform pm

Use the **show platform pm** privileged EXEC command to display platform-dependent port-manager information.

> **show platform pm** {**counters** | **group-masks** | **idbs** {**active-idbs** | **deleted-idbs**} | **if-numbers** | **link-status** | **platform-block** | **port-info** *interface-id* | **vlan** {**info** | **line-state**} [**|** {**begin** | **exclude** | **include**} *expression*]

Syntax Description

counters	Display module counters information.
group-masks	Display EtherChannel group masks information.
idbs {**active-idbs**	**deleted-idbs**}	Display interface data block (IDB) information. The keywords have these meanings: • **active-idbs**—Display active IDB information. • **deleted-idbs**—Display deleted and leaked IDB information.
if-numbers	Display interface numbers information.
link-status	Display local port link status information.
platform-block	Display platform port block information.
port-info *interface-id*	Display port administrative and operation fields for the specified interface.
vlan {**info**	**line-state**}	Display platform VLAN information. The keywords have these meanings: • **info**—Display information for active VLANs. • **line-state**—Display line-state information.
| begin	(Optional) Display begins with the line that matches the *expression*.
| exclude	(Optional) Display excludes lines that match the *expression*.
| include	(Optional) Display includes lines that match the specified *expression*.
expression	Expression in the output to use as a reference point.

> **Note**   Though visible in the command-line help strings, the **stack-view** keyword is not supported.

Command Modes

Privileged EXEC

Command History

Release	Modification
12.2(44)EY	This command was introduced.

Usage Guidelines

You should use this command only when you are working directly with your technical support representative while troubleshooting a problem. Do not use this command unless your technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform policer cpu

Use the **show platform policer cpu** privileged EXEC command to display CPU control-plane policer statistics per feature or the indexes and the corresponding feature for the specified port.

> **show platform policer cpu** {**classification** | **interface** *interface-id*} [| {**begin** | **exclude** | **include**} *expression*]

Syntax Description		
classification	Displays policer statistics per feature.
interface *interface-id*	Display the policer indexes for a specific interface.
| begin	(Optional) Display begins with the line that matches the *expression*.
| exclude	(Optional) Display excludes lines that match the *expression*.
| include	(Optional) Display includes lines that match the specified *expression*.
expression	Expression in the output to use as a reference point.

Command Modes   Privileged EXEC

Command History	Release	Modification
	12.2(44)EY	This command was introduced.

Usage Guidelines   For CPU protection of user network interfaces (UNIs) and enhanced network interfaces (ENIs), the switch pre-allocates the 27 CPU protection policers, numbered 0 to 26. On the ME 3400E-24TS switch, a policer of 26 means a drop policer; any traffic type shown as 26 on any port is dropped. A policer of a value of 0 to 25 means that a rate-limiting policer is assigned to the port for the control protocol. A policer value of 255 means that no policer is assigned to a control protocol. Network node interfaces (NNIs) have no policers assigned.

For the ME 3400EG-12CS and ME 34000EG-2CS switches, a policer of 4 means a drop policer. A traffic type shown as 4 on a port is dropped. A policer value of 0 to 3 means that a rate-limiting policer is assigned to the port for the protocol.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* are not displayed, but the lines that contain *Output* are displayed.

Examples

This is an example of output from the **show platform policer cpu classification** command:

Note   Unless otherwise indicated, the examples are for an ME 3400E-24TS switch.

```
Switch# show platform policer cpu classification
==================================================
SWITCH 1
==================================================
Feature                  Bytes        Frames
==================================================
STP                      3912792      61278
LACP                     0            0
8021X                    0            0
RSVD_STP                 0            0
PVST_PLUS                0            0
CDP                      1012542      2552
DTP                      131264       2051
UDLD                     0            0
PAGP                     0            0
VTP                      0            0
CISCO_L2                 0            0
KEEPALIVE                0            0
CFM                      0            0
SWITCH_MAC               0            0
SWITCH_ROUTER_MAC        896          14
SWITCH_IGMP              289408       4522
SWITCH_L2PT              0            0
```

This example of the output from the **show platform policer cpu interface** command shows the default policer configuration for a UNI. Because the port is Fast Ethernet 1, the identifier for rate-limited protocols is 0; a display for Fast Ethernet port 5 would display an identifier of 4. The *Policer Index* refers to the specific protocol. The ASIC number indicates when the policer is on a different ASIC.

Because UNIs do not support STP, CDP, LLDP, LACP, and PAgP, these packets are dropped (physical policer of 26). These protocols are disabled by default on ENIs as well, but you can enable them. When enabled on ENIs, the control packets are rate-limited and a rate-limiting policers is assigned to the port for these protocols (physical policer of 22).

```
Switch# show platform policer cpu interface fastethernet 0/3
Policers assigned for CPU protection
=======================================================================
 Feature                          Policer        Physical       Asic
                                  Index          Policer        Num
=======================================================================
Fa0/1
STP                                1              26             0
LACP                               2              26             0
8021X                              3              26             0
RSVD_STP                           4              26             0
PVST_PLUS                          5              26             0
CDP                                6              26             0
LLDP                               7              26             0
DTP                                8              26             0
UDLD                               9              26             0
PAGP                               10             26             0
VTP                                11             26             0
CISCO_L2                           12             26             0
KEEPALIVE                          13             0              0
CFM                                14             255            0
SWITCH_MAC                         15             26             0
SWITCH_ROUTER_MAC                  16             26             0
```

```
SWITCH_IGMP                                 17              0               0
SWITCH_L2PT                                 18             26               0
```

This example shows the policers assigned to a ENI when control protocols are enabled on the interface. A value of 22 indicates that protocol packets are rate-limited for that protocol. When the protocol is not enabled, the defaults are the same as for a UNI.

```
Switch# show platform policer cpu interface fastethernet0/23
Policers assigned for CPU protection
======================================================================
  Feature                          Policer       Physical      Asic
                                   Index         Policer       Num
======================================================================
Fa0/23
STP                                 1             26            0
LACP                                2             22            0
8021X                               3             26            0
RSVD_STP                            4             26            0
PVST_PLUS                           5             26            0
CDP                                 6             22            0
LLDP                                7             26            0
DTP                                 8             26            0
UDLD                                9             26            0
PAGP                                10            26            0
VTP                                 11            26            0
CISCO_L2                            12            22            0
KEEPALIVE                           13            22            0
CFM                                 14            255           0
SWITCH_MAC                          15            26            0
SWITCH_ROUTER_MAC                   16            26            0
SWITCH_IGMP                         17            22            0
SWITCH_L2PT                         18            22            0
```

This example shows rate limiting on a ME 3400EG-12CS or ME 34000EG-2CS switch. A value of 1 shows that protocol packets are rate limited for that protocol.

```
Switch #show platform policer cpu interface gigabitethernet 0/2
Policers assigned for CPU protection
======================================================================
  Feature                          Policer       Physical      Asic
                                   Index         Policer       Num
======================================================================
Gi0/2
STP                                 1             4             0
LACP                                2             4             0
8021X                               3             4             0
RSVD_STP                            4             1             0
PVST_PLUS                           5             4             0
CDP                                 6             4             0
LLDP                                7             4             0
DTP                                 8             4             0
UDLD                                9             4             0
PAGP                                10            4             0
VTP                                 11            4             0
CISCO_L2                            12            4             0
KEEPALIVE                           13            1             0
CFM                                 14            255           0
SWITCH_MAC                          15            4             0
SWITCH_ROUTER_MAC                   16            4             0
SWITCH_IGMP                         17            1             0
SWITCH_L2PT                         18            4             0
```

This example shows the default policers assigned to NNIs. Most protocols have no policers assigned to NNIs. A value of 255 means that no policer is assigned to the port for the protocol.

```
Switch #show platform policer cpu interface gigabitethernet 0/1
Policers assigned for CPU protection
=====================================================================
 Feature                          Policer          Physical       Asic
                                  Index            Policer        Num
=====================================================================
Gi0/1
STP                                1               255              0
LACP                               2               255              0
8021X                              3               255              0
RSVD_STP                           4               255              0
PVST_PLUS                          5               255              0
CDP                                6               255              0
LLDP                               7               255              0
DTP                                8               255              0
UDLD                               9               255              0
PAGP                              10               255              0
VTP                              11               255              0
CISCO_L2                         12               255              0
KEEPALIVE                        13               255              0
CFM                              14               255              0
SWITCH_MAC                       15               255              0
SWITCH_ROUTER_MAC                16               255              0
SWITCH_IGMP                      17               255              0
SWITCH_L2PT                      18               255              0
```

Related CommandsS	Command	Description
	show policer cpu uni-eni	Displays control-plane policer information for the switch.

show platform port-asic

Use the **show platform port-asic** privileged EXEC command to display platform-dependent port application-specific integrated circuit (ASIC) register information.

> **show platform port-asic** {**cpu-queue-map-table** [**asic** *number* | **port** *number* [**asic** *number*]] | **dest-map index** *number* | **etherchannel-info** [**asic** *number* | **port** *number* [**asic** *number*]] | **exception** [**asic** *number* | **port** *number* [**asic** *number*]] | **global-status** [**asic** *number* | **port** *number* [**asic** *number*]] | **learning** [**asic** *number* | **port** *number* [**asic** *number*]] | **mac-info** [**asic** *number* | **port** *number* [**asic** *number*]] | **mvid** [**asic** *number*] | **packet-info-ram** [**asic** *number* | **index** *number* [**asic** *number*]] | **port-info** [**asic** *number* | **port** *number* [**asic** *number*]] | **prog-parser** [**asic** *number* | **port** *number* [**asic** *number*]] | **receive** {**buffer-queue** | **port-fifo** | **supervisor-sram**} [**asic** *number* | **port** *number* [**asic** *number*]] | **span** [*vlan-id* [**asic** *number*] | [**asic** *number*] **stats** {**drop** | **enqueue** | **miscellaneous** | **supervisor**} [**asic** *number* | **port** *number* [**asic** *number*]] | **transmit** {**port-fifo** | **queue** | **supervisor-sram**} [**asic** *number* | **port** *number* [**asic** *number*]] **vct** [**asic** *number* | **port** *number* [**asic** *number*]]} [| {**begin** | **exclude** | **include**} *expression*]

Syntax Description

cpu-queue-map-table [**asic** *number* | **port** *number* [**asic** *number*]]	Display the CPU queue-map table entries. The keywords have these meanings: • **asic** *number*—(Optional) Display information for the specified ASIC. The range is 0 to 1. • **port** *number*—(Optional) Display information for the specified port and ASIC number. The range is 0 to 27.
dest-map index *number*	Display destination-map information for the specified index. The range is 0 to 65535.
etherchannel-info [**asic** *number* | **port** *number* [**asic** *number*]]	Display the contents of the EtherChannel information register. The keywords have these meanings: • **asic** *number*—(Optional) Display information for the specified ASIC. The number is always 0. • **port** *number*—(Optional) Display information for the specified port and ASIC number. The range is 0 to 27, where 0 is the supervisor and 1 to 25 are the ports.
exception [**asic** *number* | **port** *number* [**asic** *number*]]	Display the exception-index register information. The keywords have these meanings: • **asic** *number*—(Optional) Display information for the specified ASIC. The number is always 0. • **port** *number*—(Optional) Display information for the specified port and ASIC number. The range is 0 to 27, where 0 is the supervisor and 1 to 25 are the ports.

global-status [**asic** *number* | **port** *number* [**asic** *number*]]	Display global and interrupt status. The keywords have these meanings:
	• **asic** *number*—(Optional) Display information for the specified ASIC. The number is always 0.
	• **port** *number*—(Optional) Display information for the specified port and ASIC number. The range is 0 to 27, where 0 is the supervisor and 1 to 25 are the ports.
learning [**asic** *number* | **port** *number* [**asic** *number*]]	Display entries in the learning cache. The keywords have these meanings:
	• **asic** *number*—(Optional) Display information for the specified ASIC. The number is always 0.
	• **port** *number*—(Optional) Display information for the specified port and ASIC number. The range is 0 to 27, where 0 is the supervisor and 1 to 25 are the ports.
mac-info [**asic** *number* | **port** *number* [**asic** *number*]]	Display the contents of the MAC information register. The keywords have these meanings:
	• **asic** *number*—(Optional) Display information for the specified ASIC. The number is always 0.
	• **port** *number*—(Optional) Display information for the specified port and ASIC number. The range is 0 to 27, where 0 is the supervisor and 1 to 25 are the ports.
mvid [**asic** *number*]	Display the mapped VLAN ID table. The keyword has this meaning:
	• **asic** *number*—(Optional) Display information for the specified ASIC. The number is always 0.
packet-info-ram [**asic** *number* | **index** *number* [**asic** *number*]]	Display the packet information RAM. The keywords have these meanings:
	• **asic** *number*—(Optional) Display information for the specified ASIC. The number is always 0.
	• **index** *number*—(Optional) Display information for the specified packet RAM index number and ASIC number. The range is 0 to 63.
port-info [**asic** *number* | **port** *number* [**asic** *number*]]	Display port information register values. The keywords have these meanings:
	• **asic** *number*—(Optional) Display information for the specified ASIC. The number is always 0.
	• **port** *number*—(Optional) Display information for the specified port and ASIC number. The range is 0 to 27, where 0 is the supervisor and 1 to 25 are the ports.

prog-parser [**asic** *number* | **port** *number* [**asic** *number*]]	Display the programmable parser tables. The keywords have these meanings: • **asic** *number*—(Optional) Display information for the specified ASIC. The number is always 0. • **port** *number*—(Optional) Display information for the specified port and ASIC number. The range is 0 to 27, where 0 is the supervisor and 1 to 25 are the ports.
receive {**buffer-queue** | **port-fifo** | **supervisor-sram**} [**asic** *number* | **port** *number* [**asic** *number*]]	Display receive information. The keywords have these meanings: • **buffer-queue**—Display the buffer queue information. • **port-fifo**—Display the port-FIFO information. • **supervisor-sram**—Display the supervisor static RAM (SRAM) information. • **asic** *number*—(Optional) Display information for the specified ASIC. The number is always 0. • **port** *number*—(Optional) Display information for the specified port and ASIC number. The range is 0 to 27, where 0 is the supervisor and 1 to 25 are the ports.
span [*vlan-id* | **asic** *number*]	Display the Switched Port Analyzer (SPAN)-related information. The keywords have these meanings: • *vlan-id*—(Optional) Display information for the specified VLAN. The range is 0 to 1023. • **asic** *number*—(Optional) Display information for the specified ASIC. The number is always 0.
stats {**drop** | **enqueue** | **miscellaneous** | **supervisor**} [**asic** *number* | **port** *number* [**asic** *number*]]	Display raw statistics for the port ASIC. The keywords have these meanings: • **drop**—Display drop statistics. • **enqueue**—Display enqueue statistics. • **miscellaneous**—Display miscellaneous statistics. • **supervisor**—Display supervisor statistics. • **asic** *number*—(Optional) Display information for the specified ASIC. The number is always 0. • **port** *number*—(Optional) Display information for the specified port and ASIC number. The range is 0 to 27, where 0 is the supervisor and 1 to 25 are the ports.

	transmit {**port-fifo** | **queue** | **supervisor-sram**} [**asic** *number* | **port** *number* [**asic** *number*]]	Display transmit information. The keywords have these meanings: **port-fifo**—Display the contents of the port-FIFO information register. **queue**—Display the contents of the queue information register. **supervisor-sram**—Display supervisor SRAM information. **asic** *number*—(Optional) Display information for the specified ASIC. The range is 0 to 1. **port** *number*—(Optional) Display information for the specified port and ASIC number. The range is 0 to 27, where 0 is the supervisor and 1 to 25 are the ports.
	vct [**asic** *number* | **port** *number* [**asic** *number*]]	Display the VLAN compression table entries for the specified ASIC or for the specified port and ASIC. The keywords have these meanings: **asic** *number*—(Optional) Display information for the specified ASIC. The range is 0 to 1. **port** *number*—(Optional) Display information for the specified port and ASIC number. The range is 0 to 27, where 0 is the supervisor and 1 to 25 are the ports.
	| **begin**	(Optional) Display begins with the line that matches the *expression*.
	| **exclude**	(Optional) Display excludes lines that match the *expression*.
	| **include**	(Optional) Display includes lines that match the specified *expression*.
	expression	Expression in the output to use as a reference point.

✏️

Note   Though visible in the command-line help strings, the **stack** {**control** \| **dest-map** \| **learning** \| **messages** \| **mvid** \| **prog-parser** \| **span** \| **stats** [**asic** *number* \| **port** *number* [**asic** *number*]] keywords are not supported.

Command Modes   Privileged EXEC

Command History

Release	Modification
12.2(44)EY	This command was introduced.

Usage Guidelines   You should use this command only when you are working directly with your technical support representative while troubleshooting a problem. Do not use this command unless your technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform port-security

Use the **show platform port-security** privileged EXEC command to display platform-dependent port-security information.

show platform port-security [**|** {**begin** | **exclude** | **include**} *expression*]

Syntax Description

| begin	(Optional) Display begins with the line that matches the *expression*.
| exclude	(Optional) Display excludes lines that match the *expression*.
| include	(Optional) Display includes lines that match the specified *expression*.
expression	Expression in the output to use as a reference point.

Command Modes   Privileged EXEC

Command History

Release	Modification
12.2(44)EY	This command was introduced.

Usage Guidelines   You should use this command only when you are working directly with your technical support representative while troubleshooting a problem. Do not use this command unless your technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform qos

Use the **show platform qos** privileged EXEC command to display platform-dependent quality of service (QoS) information.

> **show platform qos debug** [**aggregate-policer** *aggregate-policer-name* | **global-config** |
> **input-queue** | [**interface** [*interface-id*] [**buffers** | **policers** | **queuing**]] | **label-table**
> [**dynamic-label** {**dscp** *value* **cos** *value* | **label-number** *value* | **policy-map** *policy-map-name*
> **class-map** *class-map-name*} [**asic** *number*] | **policer** {**parameter-table** | **qos-table**|
> **selection-table**} [**asic** *number*] | **policy-map** *policy-map-name* [**asic** *number*] | **port-class** [**asic**
> *number*] | **port-config** *port-number* [**asic** *number*] | **port-info** *port-number* [**asic** *number*] |
> **table-map** | **vlan** *vlan-id*] [| {**begin** | **exclude** | **include**} *expression*]

> **show platform qos statistics** [**interface** [*interface-id*]] [| {**begin** | **exclude** | **include**} *expression*]

Syntax Description		
	debug	Display QoS debug messages for the switch or for the specified keyword.
	aggregate-policer *aggregate-policer-name*	(Optional) Display QoS aggregate policer information for the specified aggregate policer.
	global-config	(Optional) Display QoS global configuration information.
	input-queue	(Optional) Display QoS input queue information.
	interface [*interface-id*] [**buffers** | **policers** | **queuing**]	(Optional) Display QoS information for all interfaces or the specified interface. The keywords have these meanings: • **buffers**—(Optional) Display information about QoS buffers. • **policers**—(Optional) Display information about QoS policers. • **queuing**—(Optional) Display information about QoS output queues.
	label-table [**dynamic-label** {**dscp** *value* **cos** *value* | **label-number** *value* | **policy-map** *policy-map-name* **class-map** *class-map-name*} [**asic** *number*]	(Optional) Display Qos label table information. The keywords have these meanings: • **dynamic-label**—(Optional) Display dynamic label information. • **dscp** *value* **cos** *value*—Display information based on Differentiated Services Code Point (DSCP) value (0 to 63) and class of service (CoS) value (0 to 7). • **label-number** *value*—Display information based on the dynamic label number. The range is from 158 to 255. • **policy-map** *policy-map-name* **class-map** *class-map-name*—Display information for the specified policy map and class map. • **asic** *number*—(Optional) Display information based on the port ASIC number. The number is always 0.

policer {**parameter-table** | **qos-table** | **selection-table**} [**asic** *number*]	(Optional) Display QoS policer information. The keywords have these meanings: • **parameter-table**—Display the policer parameter table. • **qos-table**—Display the policer QoS table. • **selection-table**—Display the port allocation table. • **asic** *number*—(Optional) Display information based on the port ASIC number. The number is always 0.
policy-map *policy-map-name* [**asic** *number*]	(Optional) Display QoS information for the specified policy map. • **asic** *number*—(Optional) Display information based on the port ASIC number. The number is always 0.
port-class [**asic** *number*]	(Optional) Display QoS port class tables. • **asic** *number*—(Optional) Display information based on the port ASIC number. The number is always 0.
port-config *port-number* [*asic number*]	(Optional) Display QoS port configuration information. The keywords have these meanings: • *port-numbe*r—Display QoS configuration for the specified port number. The range is 0 to 25. • **asic** *number*—(Optional) Display information based on the port ASIC number. The number is always 0.
port-info *port-numbe*r [**asic** *number*]	(Optional) Display QoS port information. The keywords have these meanings: • *port-numbe*r—Display QoS configuration for the specified port number. The range is 0 to 25. • **asic** *number*—(Optional) Display information based on the port ASIC number. The number is always 0.
table-map *table-map-name* [**asic** *number*]	(Optional) Display QoS information for the specified table map. • **asic** *number*—(Optional) Display information based on the port ASIC number. The number is always 0.
vlan *vlan-id*	(Optional) Display QoS information for the specified VLAN. The range is 1 to 4094.
statistics	Display QoS interface statistics.
| **begin**	(Optional) Display begins with the line that matches the *expression*.
| **exclude**	(Optional) Display excludes lines that match the *expression*.
| **include**	(Optional) Display includes lines that match the specified *expression*.
expression	Expression in the output to use as a reference point.

Command Modes   Privileged EXEC

Command History	Release	Modification
	12.2(44)EY	This command was introduced.

Usage Guidelines   You should use this command only when you are working directly with your technical support representative while troubleshooting a problem. Do not use this command unless your technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter | **exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform resource-manager

Use the **show platform resource-manager** privileged EXEC command to display platform-dependent resource-manager information.

> **show platform resource-manager** {**dm** [**index** *number*] | **erd** [**index** *number*] |
> **mad** [**index** *number*] | **med** [**index** *number*] | **mod** | **msm** {**hash-table** [**vlan** *vlan-id*] |
> **mac-address** *mac-address* [**vlan** *vlan-id*]} | **sd** [**index** *number*] | **vld** [**index** *number*]} [| {**begin**
> | **exclude** | **include**} *expression*]

Syntax Description		
	dm [**index** *number*]	Display the destination map. The keyword has this meaning: • **index** *number*—(Optional) Display the specified index. The range is 0 to 65535.
	erd [**index** *number*]	Display the equal-cost-route descriptor table for the specified index. The keyword has this meaning: • **index** *number*—(Optional) Display the specified index. The range is 0 to 65535.
	mad [**index** *number*]	Display the MAC-address descriptor table for the specified index. The keyword has this meaning: • **index** *number*—(Optional) Display the specified index. The range is 0 to 65535.
	med [**index** *number*]	Display the multi-expansion descriptor table for the specified index. The keyword has this meaning: • **index** *number*—(Optional) Display the specified index. The range is 0 to 65535.
	mod	Display the resource-manager module information.
	msm {hash-table [vlan *vlan-id*]	mac-address *mac-address* [vlan *vlan-id*]}	Display the MAC-address station descriptor table. The keywords have these meanings: • hash-table—Display the msm hash table. • mac-address *mac-address*—Display the table for the specified MAC address. • **vlan** *vlan-id*—(Optional) Display the table for the specified VLAN. The range is 1 to 4094.
	sd [**index** *number*]	Display the station descriptor table for the specified index. The keyword has this meaning: • **index** *number*—(Optional) Display the specified index. The range is 0 to 65535.
	vld [**index** *number*]	Display the VLAN-list descriptor table for the specified index. The keyword has this meaning: • **index** *number*—(Optional) Display the specified index. The range is 0 to 65535.
	| begin	(Optional) Display begins with the line that matches the *expression*.
	| exclude	(Optional) Display excludes lines that match the *expression*.

| include	(Optional) Display includes lines that match the specified *expression*.
expression	Expression in the output to use as a reference point.

Command Modes   Privileged EXEC

Command History

Release	Modification
12.2(44)EY	This command was introduced.

Usage Guidelines   You should use this command only when you are working directly with your technical support representative while troubleshooting a problem. Do not use this command unless your technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform snmp counters

Use the **show platform snmp counters** privileged EXEC command to display platform-dependent Simple Network Management Protocol (SNMP) counter information.

show platform snmp counters [**|** {**begin** | **exclude** | **include**} *expression*]

Syntax Description

| begin	(Optional) Display begins with the line that matches the *expression*.
| exclude	(Optional) Display excludes lines that match the *expression*.
| include	(Optional) Display includes lines that match the specified *expression*.
expression	Expression in the output to use as a reference point.

Command Modes   Privileged EXEC

Command History

Release	Modification
12.2(44)EY	This command was introduced.

Usage Guidelines   You should use this command only when you are working directly with your technical support representative while troubleshooting a problem. Do not use this command unless your technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform spanning-tree synchronization

Use the **show platform spanning-tree synchronization** privileged EXEC command to display platform-dependent spanning-tree state synchronization information.

> **show platform spanning-tree synchronization** [**detail** | **vlan** *vlan-id*] [| {**begin** | **exclude** | **include**} *expression*]

Syntax Description

detail	(Optional) Display detailed spanning-tree synchronization information.
vlan *vlan-id*	(Optional) Display spanning-tree synchronization information for the specified VLAN. The range is 1 to 4094.
| begin	(Optional) Display begins with the line that matches the *expression*.
| exclude	(Optional) Display excludes lines that match the *expression*.
| include	(Optional) Display includes lines that match the specified *expression*.
expression	Expression in the output to use as a reference point.

Command Modes   Privileged EXEC

Command History

Release	Modification
12.2(44)EY	This command was introduced.

Usage Guidelines   You should use this command only when you are working directly with your technical support representative while troubleshooting a problem. Do not use this command unless your technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform status

Use the **show platform status** privileged EXEC command to display platform-dependent status information.

show platform status [**|** {**begin** | **exclude** | **include**} *expression*]

Syntax Description

| begin	(Optional) Display begins with the line that matches the *expression*.
| exclude	(Optional) Display excludes lines that match the *expression*.
| include	(Optional) Display includes lines that match the specified *expression*.
expression	Expression in the output to use as a reference point.

Command Modes   Privileged EXEC

Command History

Release	**Modification**
12.2(44)EY	This command was introduced.

Usage Guidelines   You should use this command only when you are working directly with a technical support representative while troubleshooting a problem. Do not use this command unless a technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **|** **exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform stp-instance

Use the **show platform stp-instance** privileged EXEC command to display platform-dependent spanning-tree instance information.

show platform stp-instance *vlan-id* [**|** {**begin** | **exclude** | **include**} *expression*]

Syntax Description

vlan-id	Display spanning-tree instance information for the specified VLAN. The range is 1 to 4094.
| begin	(Optional) Display begins with the line that matches the *expression*.
| exclude	(Optional) Display excludes lines that match the *expression*.
| include	(Optional) Display includes lines that match the specified *expression*.
expression	Expression in the output to use as a reference point.

Command Modes   Privileged EXEC

Command History

Release	Modification
12.2(44)EY	This command was introduced.

Usage Guidelines   You should use this command only when you are working directly with your technical support representative while troubleshooting a problem. Do not use this command unless your technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform tcam

Use the **show platform tcam** privileged EXEC command to display platform-dependent ternary content addressable memory (TCAM) driver information.

show platform tcam {**handle** *number* | **log-results** | **table** {**acl** | **all** | **equal-cost-route** | **local** | **mac-address** | **multicast-expansion** | **qos** | **secondary** | **station** | **vlan-list**} | **usage**} [**asic** *number* [**detail** [**invalid**]] | [**index** *number* [**detail** [**invalid**]] | **invalid** | **num** *number* [**detail** [**invalid**]] | **invalid**] | [**invalid**] | [**num** *number* [**detail** [**invalid**]] | **invalid**]] [| {**begin** | **exclude** | **include**} *expression*]

show platform tcam table acl [**asic** *number* [**detail** [**invalid**]] | [**index** *number* [**detail** [**invalid**]] | **invalid** | **num** *number* [**detail** [**invalid**]] | **invalid**] | [**invalid**] | [**num** *number* [**detail** [**invalid**]] | **invalid**]] [| {**begin** | **exclude** | **include**} *expression*]

show platform tcam table all [**asic** *number* [**detail** [**invalid**]] | [**index** *number* [**detail** [**invalid**]] | **invalid** | **num** *number* [**detail** [**invalid**]] | **invalid**] | [**invalid**] | [**num** *number* [**detail** [**invalid**]] | **invalid**]] [| {**begin** | **exclude** | **include**} *expression*]

show platform tcam table equal-cost-route [**asic** *number* [**detail** [**invalid**]] | [**index** *number* [**detail** [**invalid**]] | **invalid** | **num** *number* [**detail** [**invalid**]] | **invalid**] | [**invalid**] | [**num** *number* [**detail** [**invalid**]] | **invalid**]] [| {**begin** | **exclude** | **include**} *expression*]

show platform tcam table local [**asic** *number* [**detail** [**invalid**]] | [**index** *number* [**detail** [**invalid**]] | **invalid** | **num** *number* [**detail** [**invalid**]] | **invalid**] | [**invalid**] | [**num** *number* [**detail** [**invalid**]] | **invalid**]] [| {**begin** | **exclude** | **include**} *expression*]

show platform tcam table mac-address [**asic** *number* [**detail** [**invalid**]] | [**index** *number* [**detail** [**invalid**]] | **invalid** | **num** *number* [**detail** [**invalid**]] | **invalid**] | [**invalid**] | [**num** *number* [**detail** [**invalid**]] | **invalid**]] [| {**begin** | **exclude** | **include**} *expression*]

show platform tcam table qos [**asic** *number* [**detail** [**invalid**]] | [**index** *number* [**detail** [**invalid**]] | **invalid** | **num** *number* [**detail** [**invalid**]] | **invalid**] | [**invalid**] | [**num** *number* [**detail** [**invalid**]] | **invalid**]] [| {**begin** | **exclude** | **include**} *expression*]

show platform tcam table secondary [**asic** *number* [**detail** [**invalid**]] | [**index** *number* [**detail** [**invalid**]] | **invalid** | **num** *number* [**detail** [**invalid**]] | **invalid**] | [**invalid**] | [**num** *number* [**detail** [**invalid**]] | **invalid**]] [| {**begin** | **exclude** | **include**} *expression*]

show platform tcam table station [**asic** *number* [**detail** [**invalid**]] | [**index** *number* [**detail** [**invalid**]] | **invalid** | **num** *number* [**detail** [**invalid**]] | **invalid**] | [**invalid**] | [**num** *number* [**detail** [**invalid**]] | **invalid**]] [| {**begin** | **exclude** | **include**} *expression*]

show platform tcam table vlan-list [[**asic** *number* [**detail** [**invalid**]] | [**index** *number* [**detail** [**invalid**]] | **invalid** | **num** *number* [**detail** [**invalid**]] | **invalid**] | [**invalid**] | [**num** *number* [**detail** [**invalid**]] | **invalid**]] [| {**begin** | **exclude** | **include**} *expression*]

Syntax Description

handle *number*	Display the TCAM handle. The range is 0 to 4294967295.
log-results	Display the TCAM log results.

table {acl | all | equal-cost-route | ipv6 {acl | qos | secondary} local | mac-address | qos | secondary | station | vlan-list}	Display lookup and forwarding table information. The keywords have these meanings: **acl**—Display the access-control list (ACL) table. **all**—Display all the TCAM tables. **equal-cost-route**—Display the equal-cost-route table. **local**—Display the local table. **mac-address**—Display the MAC-address table. **qos**—Display the QoS table. **secondary**—Display the secondary table. **station**—Display the station table. **vlan-list**—Display the VLAN list table.
usage	Display the CAM and forwarding table usage.
[[**asic** *number* [**detail** [**invalid**]] | [**index** *number* [**detail** [**invalid**]] | **invalid** | **num** *number* [**detail** [**invalid**]] | **invalid**] | [**invalid**] | [**num** *number* [**detail** [**invalid**]] | **invalid**]]	Display information. The keywords have these meanings: **asic** *number*—Display information for the specified ASIC device ID. The range is 0 to 15. **detail** [**invalid**]—(Optional) Display valid or invalid details. **index** *number*—(Optional) Display information for the specified TCAM table index. The range is 0 to 32768. **num** *number*—(Optional) Display information for the specified TCAM table number. The range is 0 to 32768.
| begin	(Optional) Display begins with the line that matches the *expression*.
| exclude	(Optional) Display excludes lines that match the *expression*.
| include	(Optional) Display includes lines that match the specified *expression*.
expression	Expression in the output to use as a reference point.

Note Though visible in the command-line help strings, the **ipv6**, **multicast-expansion** and **usage** keywords are not supported.

Command Modes   Privileged EXEC

Command History

Release	Modification
12.2(44)EY	This command was introduced.

Usage Guidelines   You should use this command only when you are working directly with your technical support representative while troubleshooting a problem. Do not use this command unless your technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform vlan

Use the **show platform vlan** privileged EXEC command to display platform-dependent VLAN information.

> **show platform vlan** {**mapping** | **misc** | **mvid** | **refcount** | **rpc** {**receive** | **transmit**}} [**|** {**begin** | **exclude** | **include**} *expression*]

Syntax Description

mapping	See the **show platform vlan mapping** command.
misc	Display miscellaneous VLAN module information.
mvid	Display the mapped VLAN ID (MVID) allocation information.
refcount	Display the VLAN lock module-wise reference counts.
rpc {**receive**	**transmit**}	Display remote procedure call (RPC) messages. The keywords have these meanings: • **receive**—Display received information. • **transmit**—Display sent information.
| begin	(Optional) Display begins with the line that matches the *expression*.
| exclude	(Optional) Display excludes lines that match the *expression*.
| include	(Optional) Display includes lines that match the specified *expression*.
expression	Expression in the output to use as a reference point.

> **Note** Though visible in the command-line help strings, the **prune** keyword is not supported.

Command Modes

Privileged EXEC

Command History

Release	Modification
12.2(44)EY	This command was introduced.

Usage Guidelines

You should use this command only when you are working directly with your technical support representative while troubleshooting a problem. Do not use this command unless your technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform vlan mapping

Use the **show platform vlan mapping** privileged EXEC command to display platform-dependent VLAN mapping information.

> **show platform vlan mapping** [*interface-id* [*vlan-id*] | **handle** *handle-id* | **usage**] [| {**begin** | **exclude** | **include**} *expression*]

Syntax Description

interface-id	(Optional) Enter the physical interface ID or port channel number. Port channel range is form 1 to 48.
vlan-id	(Optional) Display information for the original VLAN on the wire, the customer VLAN ID (C-VLAN). VLAN ID range is from 1 to 4094.
handle *handle-id*	(Optional) Display the VLAN mapping handle details. The handle-ID range is from 0 to 65535.
usage	(Optional) Display the VLAN mapping hardware resource usage.
| begin	(Optional) Display begins with the line that matches the *expression*.
| exclude	(Optional) Display excludes lines that match the *expression*.
| include	(Optional) Display includes lines that match the specified *expression*.
expression	Expression in the output to use as a reference point.

Command Modes   Privileged EXEC

Command History

Release	Modification
12.2(44)EY	This command was introduced.

Usage Guidelines   Use this command when you are working directly with your technical support representative while troubleshooting a problem. Do not use this command unless your technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

Examples   These are examples of output from the show platform vlan mapping command:

```
Switch# show platform vlan mapping fastethernet 0/1
Platform Vlan Mapping Information
--------------------------------
Interface Fa0/1:
  1-to-1
   option:      0
   cvlan:     10
   cvlanlist: 10
   cinnervlan:      0
   spvlan:    100 (0)
   spinnervlan:      0
   ingress block: 100
```

```
    egress block: 10
    hw state: on-hold
    ingress handle: 0, egress handle: 1
    ingress block handle: 2, egress block handle: 3


Switch# show platform vlan mapping handle 1
Platform Vlan Mapping Information
--------------------------------
Handle number: 1 Type: 1-to-1
Asic: 0 Region: Match 1 vlan
First entry: 977 Number of entries: 1
Index   TCAM ENTRY              TCAM MASK              DESCRIPTOR
===============================================================================
977     7C006400 00000000       FE0FFF00 00004000       8010100A 00000000
Stat handle: 1 Packets: 0, Bytes: 0


Switch# show platform vlan mapping usage
Platform Vlan Mapping Information
--------------------------------
Port ASIC 0
Region Name        | Min | Start | End | Used | Avail | Total | Percentage
===============================================================================
Loopback         *  0      0       6     0      6       6       0%
Drop                0      6       492   0      486     486     0%
Match 2 vlans       0      492     976   0      484     484     0%
Match 1 vlan        0      976     1460  2      482     484     0%
Default operations  104    1460    1564  0      104     104     0%
Vlan blocking       0      1564    2048  2      482     484     0%
-------------------------------------------------------------------------
* = region needs compacting
Section Total
Start | End  | Used | Avail | Total | Percentage
=============================================
0       2048   4      2044    2048    0%
```

■   **show platform vlan mapping**