



APPENDIX

C

## Cisco ME 3400E Ethernet Access Switch Show Platform Commands

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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.

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 show platform acl

# 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}
```

Syntax Description	<b>interface</b> <i>interface-id</i>	Display per-interface ACL manager information for the specified interface. The interface can be a physical interface or a VLAN.
<b>label</b> <i>label-number</i> <b>[detail]</b>		Display per-label ACL manager information. The <i>label-number</i> range is 0 to 255. The keyword has this meaning: <ul style="list-style-type: none"> <li>• <b>detail</b>—(Optional) Display detailed ACL manager label information.</li> </ul>
<b>statistics</b> <i>asic-number</i>		Display per-ASIC ACL statistics. The <i>asic-number</i> is the port ASIC number, always 0.
<b>usage</b> <i>asic-number</i> <b>[summary]</b>		Display per-ASIC ACL usage. The <i>asic-number</i> is the port ASIC number, always 0. The keyword has this meaning: <ul style="list-style-type: none"> <li>• <b>summary</b>—(Optional) Display brief usage information.</li> </ul>
<b>vlan</b> <i>vlan-id</i>		Display per-VLAN ACL manager information. The <i>vlan-id</i> range is from 1 to 4094.

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<b>Command Modes</b>	Privileged EXEC
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Command History	Release	Modification
	12.2(44)EY	This command was introduced.

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<b>Usage Guidelines</b>	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.
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# 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]**

<b>Syntax Description</b>	<i>interface-id</i> (Optional) Display backup information for all interfaces or the specified interface. The interface can be a physical interface or a port channel. <b>dummyQ</b> (Optional) Display dummy queue information.
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<b>Command Modes</b>	Privileged EXEC
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<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	12.2(44)EY	This command was introduced.

<b>Usage Guidelines</b>	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.
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**■ show platform cfm**

## 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**

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**Syntax Description** There are no arguments or keywords.

---

**Command Modes** Privileged EXEC

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

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**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.

# 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}**

Syntax Description	
<b>config-output</b>	Display the output of the last auto-configuration application.
<b>default</b>	Display whether or not the system is running the default configuration.
<b>running</b>	Display a snapshot of the backed-up running configuration on the local switch.
<b>startup</b>	Display a snapshot of the backed-up startup configuration on the local switch.

Command Modes	Privileged EXEC
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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.
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■ **show platform dl**

## show platform dl

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

**show platform dl [detail]**

<b>Syntax Description</b>	<b>detail</b>	(Optional) Display detailed dynamically loaded module information.	
<b>Command Modes</b>	Privileged EXEC		
<b>Command History</b>	<b>Release</b>	<b>Modification</b>	
	12.2(44)EY	This command was introduced.	
<b>Usage Guidelines</b>	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.		

# show platform etherchannel

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

**show platform etherchannel {flags | time-stamps}**

<b>Syntax Description</b>	<b>flags</b> Display EtherChannel port flags. <b>time-stamps</b> Display EtherChannel time stamps.
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<b>Command Modes</b>	Privileged EXEC
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<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	12.2(44)EY	This command was introduced.

<b>Usage Guidelines</b>	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.
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**show platform forward**

# 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}
```

Syntax Description	
<i>interface-id</i>	The input physical interface, the port on which the packet comes in to the switch (including type and port number).
<b>vlan</b> <i>vlan-id</i>	(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.
<b>src-mac</b>	48-bit source MAC address.
<b>dst-mac</b>	48-bit destination MAC address.
<i>l3protocol-id</i>	(Optional) The Layer 3 protocol used in the packet. The number is a value 0 to 65535.
<b>sap</b>	(Optional) Service access point (SAP) encapsulation type.
<b>snap</b>	(Optional) Subnetwork Access Protocol (SNAP) encapsulation type.
<b>cos</b> <i>cos</i>	(Optional) Class of service (CoS) value of the frame. The range is 0 to 7.
<b>ip</b> <i>src-ip dst-ip</i>	(Optional, but required for IP packets) Source and destination IP addresses in dotted decimal notation.
<b>frag</b> <i>field</i>	(Optional) The IP fragment field for a fragmented IP packet. The range is 0 to 65535.
<b>dscp</b> <i>dscp</i>	(Optional) Differentiated Services Code Point (DSCP) field in the IP header. The range is 0 to 63.
<i>l4protocol-id</i>	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.
<b>icmp</b> <i>icmp-type</i> <b>icmp-code</b>	Internet Control Message Protocol (ICMP) parameters. The <i>icmp-type</i> and <i>icmp-code</i> ranges are 0 to 255.
<b>igmp</b> <i>igmp-version</i> <i>igmp-type</i>	Internet Group Management Protocol (IGMP) parameters. The <i>igmp-version</i> range is 1 to 15; the <i>igmp-type</i> range is 0 to 15.
<b>tcp</b> <i>src-port dst-port</i> <i>flags</i>	TCP parameters: TCP source port, destination port, and the numeric value of the TCP flags byte in the header. The <i>src-port</i> and <i>dst-port</i> ranges are 0 to 65535. The flag range is from 0 to 1024.
<b>udp</b> <i>src-port dst-port</i>	User Datagram Protocol (UDP) parameters. The <i>src-port</i> and <i>dst-port</i> ranges are 0 to 65535.

**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.

**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.

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 show platform frontend-controller

## 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}
```

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 <i>number</i>	Display the counters for the manager and the subordinate specified by <i>number</i> . See the “Usage Guidelines” section for the <i>number</i> range.
	subordinate <i>number</i>	Display the subordinate status and the counters for the subordinate specified by <i>number</i> . See the “Usage Guidelines” section for the <i>number</i> range.
	version <i>number</i>	Display the hardware and software version information for the subordinate status specified by <i>number</i> . The range is from 0 to 1.

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

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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.
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# 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]]}
```

Syntax Description	
<b>all</b>	Display all IGMP snooping platform IP multicast information.
<b>control [di]</b>	Display IGMP snooping control entries. The keyword has this meaning: <ul style="list-style-type: none"> <li><b>di</b>—(Optional) Display IGMP snooping control destination index entries.</li> </ul>
<b>counters</b>	Display IGMP snooping counters.
<b>flood [vlan <i>vlan-id</i>]</b>	Display IGMP snooping flood information. The keyword has this meaning: <ul style="list-style-type: none"> <li><b>vlan <i>vlan-id</i></b>—(Optional) Display flood information for the specified VLAN. The range is 1 to 4094.</li> </ul>
<b>group <i>ip-address</i></b>	Display the IGMP snooping multicast group information, where <i>ip-address</i> is the IP address of the group.
<b>hardware</b>	Display IGMP snooping information loaded into hardware.
<b>retry [count   local [count]]</b>	Display IGMP snooping retry information. The keywords have these meanings: <ul style="list-style-type: none"> <li><b>count</b>—(Optional) Display only the retry count.</li> <li><b>local</b>—(Optional) Display local retry entries.</li> </ul>
<b>remote [count]</b>	Display remote entries. The keyword has this meaning: <ul style="list-style-type: none"> <li><b>count</b>—(Optional) Display only the remote count.</li> </ul>

<b>Command Modes</b>	Privileged EXEC
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Command History	Release	Modification
	12.2(44)EY	This command was introduced.

<b>Usage Guidelines</b>	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.
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 show platform ip multicast

## 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}
```

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 <b>detail</b> 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.

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.
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# 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}
```

Syntax Description	
<b>adjacency</b>	Display the platform adjacency database.
<b>cef-idb</b>	Display platform information corresponding to Cisco Express Forwarding (CEF) interface descriptor block.
<b>counts</b>	Display the current counts for the Layer 3 unicast databases.
<b>dhcp</b>	Display the DHCP system dynamic addresses.
<b>failed {adjacency   arp [A.B.C.D]   route}</b>	Display the hardware resource failures. The keywords have these meanings: <ul style="list-style-type: none"> <li>• <b>adjacency</b>—Display the adjacency entries that failed to be programmed in hardware.</li> <li>• <b>arp</b>—Display the Address Resolution Protocol (ARP) deletions because of failure and because of retries.</li> <li>• <b>A.B.C.D</b>—(Optional) Prefix of the ARP entries to display.</li> <li>• <b>route</b>—Display the route entries that failed to be programmed in hardware.</li> </ul>
<b>loadbalance</b>	Display the platform load balancing database.
<b>mpaths</b>	Display the Layer 3 unicast routing multipath adjacency database.
<b>route</b>	Display the platform route database.
<b>standby</b>	Display the platform standby information.
<b>statistics</b>	Display the Layer 3 unicast routing accumulated statistics.
<b>trace</b>	Display the platform event trace logs.



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

<b>Command Modes</b>	Privileged EXEC
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Command History	Release	Modification
	12.2(44)EY	This command was introduced.

<b>Usage Guidelines</b>	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.
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**show platform ipc trace**

## 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**

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**Syntax Description** There are no arguments or keywords.

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**Command Modes** Privileged EXEC

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

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**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.

# 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}
```


**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	
<b>adjacency</b>	Display IPv6 adjacency information for the switch or for the specified IPv6 network.
<i>ipv6-prefix</i>	(Optional) The IPv6 network to be displayed. The address must be specified in hexadecimal using 16-bit values between colons.
<b>backwalk {adjacency   loadbalance}</b>	Display IPv6 backwalk information. <ul style="list-style-type: none"> <li>• <b>adjacency</b>—Display adjacency backwalk information.</li> <li>• <b>loadbalance</b>—Display backwalk load-balance information.</li> </ul>
<b>compress</b>	Display IPv6 prefix compression information.
<i>ipv6-prefix/prefix length</i>	<ul style="list-style-type: none"> <li>• <i>ipv6-prefix</i>—The IPv6 network.</li> <li>• <i>/prefix length</i>—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.</li> </ul>
<b>interface</b>	Display IPv6 interface information.
<b>loadbalance</b>	Display IPv6 load-balance information
<b>mpath</b>	Display IPv6 multipath information
<b>retry {adjacency   route}</b>	Display IPv6 retry information. <ul style="list-style-type: none"> <li>• <b>adjacency</b>—Display IPv6 adjacency retry information.</li> <li>• <b>route</b>—Display IPv6 route retry information.</li> </ul>
<b>route</b>	Display IPv6 route information.
<b>tcam</b>	(Optional) Display the IPv6 hardware route table information.
<b>detail</b>	(Optional) Display detailed IPv6 route information.
<b>statistics</b>	Display IPv6 accumulated statistics.
<b>table</b>	Display IPv6 unicast table information.
<b>trace</b>	Display IPv6 unicast traces.

**Command Modes**

Privileged EXEC

**■ show platform ipv6 unicast**

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.

## 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

**Syntax Description** There are no arguments or keywords.

**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.

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 show platform layer4op

# 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}**

Syntax Description	<b>acl</b> Display access control list (ACL) Layer 4 operators information. <b>qos [port-asic]</b> Display quality of service (QoS) Layer 4 operators information. The keyword has this meaning: <ul style="list-style-type: none"> <li>• <i>port-asic</i>—(Optional) QoS port ASIC number. The value can be 0 or 1.</li> </ul>
<b>and-or</b>	Display AND-OR registers information.
<b>map</b>	Display select map information.
<b>or-and</b>	Display OR-AND registers information.
<b>vcu</b>	Display value compare unit (VCU) register information.

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<b>Command Modes</b>	Privileged EXEC
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Command History	Release	Modification
	12.2(44)EY	This command was introduced.

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<b>Usage Guidelines</b>	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.
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# 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]]
```

Syntax Description	
<b>aging-array</b>	(Optional) Display the MAC address table aging array.
<b>hash-table</b>	(Optional) Display the MAC address table hash table.
<b>mac-address</b> <i>mac-address</i>	(Optional) Display the MAC address table MAC address information, where <i>mac-address</i> is the 48-bit hardware address.
<b>vlan</b> <i>vlan-id</i>	(Optional) Display information for the specified VLAN. The range is 1 to 4094.

<b>Command Modes</b>	Privileged EXEC
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Command History	Release	Modification
	12.2(44)EY	This command was introduced.

<b>Usage Guidelines</b>	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.
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 show platform messaging

# 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]}
```

---

**Syntax Description**

<b>application [incoming   outgoing   summary]</b>	Display application message information. The keywords have these meanings:
	<ul style="list-style-type: none"> <li>• <b>incoming</b>—(Optional) Display only information about incoming application messaging requests.</li> <li>• <b>outgoing</b>—(Optional) Display only information about incoming application messaging requests.</li> <li>• <b>summary</b>—(Optional) Display summary information about all application messaging requests.</li> </ul>
<b>hiperf [class-number]</b>	Display outgoing high-performance message information. Specify the <i>class-number</i> option to display information about high-performance messages for this class number. The range is 0 to 36.

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**Command Modes**

Privileged EXEC

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**Command History**

<b>Release</b>	<b>Modification</b>
12.2(44)EY	This command was introduced.

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**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.

# 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*]**

Syntax Description	session <i>session-number</i>	(Optional) Display SPAN information for the specified SPAN session. The range is 1 to 66.
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Command Modes	Privileged EXEC
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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.
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**■ show platform mvr table**

## 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

**Syntax Description** There are no arguments or keywords.

**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.

# 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}}
```

Syntax Description	
<b>counters</b>	Display module counters information.
<b>group-masks</b>	Display EtherChannel group masks information.
<b>idbs {active-idbs   deleted-idbs}</b>	Display interface data block (IDB) information. The keywords have these meanings: <ul style="list-style-type: none"> <li>• <b>active-idbs</b>—Display active IDB information.</li> <li>• <b>deleted-idbs</b>—Display deleted and leaked IDB information.</li> </ul>
<b>if-numbers</b>	Display interface numbers information.
<b>link-status</b>	Display local port link status information.
<b>platform-block</b>	Display platform port block information.
<b>port-info interface-id</b>	Display port administrative and operation fields for the specified interface.
<b>vlan {info   line-state}</b>	Display platform VLAN information. The keywords have these meanings: <ul style="list-style-type: none"> <li>• <b>info</b>—Display information for active VLANs.</li> <li>• <b>line-state</b>—Display line-state information.</li> </ul>



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

<b>Command Modes</b>	Privileged EXEC
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Command History	Release	Modification
	12.2(44)EY	This command was introduced.

<b>Usage Guidelines</b>	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.
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 show platform policer cpu

# 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*}**

<b>Syntax Description</b>	<b>classification</b> Displays policer statistics per feature. <b>interface</b> Display the policer indexes for a specific interface. <i>interface-id</i>
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<b>Command Modes</b>	Privileged EXEC
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<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	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 3400EG-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.

**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 polices 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 Index	Physical Policer	Asic Num
<hr/>			
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 Index	Physical Policer	Asic Num
<hr/>			
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

**■ show platform policer cpu**

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 Index	Physical Policer	Asic Num
<hr/>			
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 Index	Physical Policer	Asic Num
<hr/>			
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 Commands**

Command	Description
<a href="#">show policer cpu uni-eni</a>	Displays control-plane policer information for the switch.

## ■ show platform port-asic

# 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]]}
```

Syntax Description	
<b>cpu-queue-map-table [asic number   port number [asic number]]</b>	Display the CPU queue-map table entries. The keywords have these meanings: <ul style="list-style-type: none"> <li>• <b>asic number</b>—(Optional) Display information for the specified ASIC. The range is 0 to 1.</li> <li>• <b>port number</b>—(Optional) Display information for the specified port and ASIC number. The range is 0 to 27.</li> </ul>
<b>dest-map index number</b>	Display destination-map information for the specified index. The range is 0 to 65535.
<b>etherchannel-info [asic number   port number [asic number]]</b>	Display the contents of the EtherChannel information register. The keywords have these meanings: <ul style="list-style-type: none"> <li>• <b>asic number</b>—(Optional) Display information for the specified ASIC. The number is always 0.</li> <li>• <b>port number</b>—(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.</li> </ul>
<b>exception [asic number   port number [asic number]]</b>	Display the exception-index register information. The keywords have these meanings: <ul style="list-style-type: none"> <li>• <b>asic number</b>—(Optional) Display information for the specified ASIC. The number is always 0.</li> <li>• <b>port number</b>—(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.</li> </ul>

<b>global-status [asic number   port number [asic number]]</b>	Display global and interrupt status. The keywords have these meanings: <ul style="list-style-type: none"> <li>• <b>asic number</b>—(Optional) Display information for the specified ASIC. The number is always 0.</li> <li>• <b>port number</b>—(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.</li> </ul>
<b>learning [asic number   port number [asic number]]</b>	Display entries in the learning cache. The keywords have these meanings: <ul style="list-style-type: none"> <li>• <b>asic number</b>—(Optional) Display information for the specified ASIC. The number is always 0.</li> <li>• <b>port number</b>—(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.</li> </ul>
<b>mac-info [asic number   port number [asic number]]</b>	Display the contents of the MAC information register. The keywords have these meanings: <ul style="list-style-type: none"> <li>• <b>asic number</b>—(Optional) Display information for the specified ASIC. The number is always 0.</li> <li>• <b>port number</b>—(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.</li> </ul>
<b>mvid [asic number]</b>	Display the mapped VLAN ID table. The keyword has this meaning: <ul style="list-style-type: none"> <li>• <b>asic number</b>—(Optional) Display information for the specified ASIC. The number is always 0.</li> </ul>
<b>packet-info-ram [asic number   index number [asic number]]</b>	Display the packet information RAM. The keywords have these meanings: <ul style="list-style-type: none"> <li>• <b>asic number</b>—(Optional) Display information for the specified ASIC. The number is always 0.</li> <li>• <b>index number</b>—(Optional) Display information for the specified packet RAM index number and ASIC number. The range is 0 to 63.</li> </ul>
<b>port-info [asic number   port number [asic number]]</b>	Display port information register values. The keywords have these meanings: <ul style="list-style-type: none"> <li>• <b>asic number</b>—(Optional) Display information for the specified ASIC. The number is always 0.</li> <li>• <b>port number</b>—(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.</li> </ul>

**show platform port-asic**

<b>prog-parser [asic number   port number [asic number]]</b>	Display the programmable parser tables. The keywords have these meanings: <ul style="list-style-type: none"><li>• <b>asic number</b>—(Optional) Display information for the specified ASIC. The number is always 0.</li><li>• <b>port number</b>—(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.</li></ul>
<b>receive {buffer-queue   port-fifo   supervisor-sram} [asic number   port number [asic number]]</b>	Display receive information. The keywords have these meanings: <ul style="list-style-type: none"><li>• <b>buffer-queue</b>—Display the buffer queue information.</li><li>• <b>port-fifo</b>—Display the port-FIFO information.</li><li>• <b>supervisor-sram</b>—Display the supervisor static RAM (SRAM) information.</li><li>• <b>asic number</b>—(Optional) Display information for the specified ASIC. The number is always 0.</li><li>• <b>port number</b>—(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.</li></ul>
<b>span [vlan-id   asic number]</b>	Display the Switched Port Analyzer (SPAN)-related information. The keywords have these meanings: <ul style="list-style-type: none"><li>• <b>vlan-id</b>—(Optional) Display information for the specified VLAN. The range is 0 to 1023.</li><li>• <b>asic number</b>—(Optional) Display information for the specified ASIC. The number is always 0.</li></ul>
<b>stats {drop   enqueue   miscellaneous   supervisor} [asic number   port number [asic number]]</b>	Display raw statistics for the port ASIC. The keywords have these meanings: <ul style="list-style-type: none"><li>• <b>drop</b>—Display drop statistics.</li><li>• <b>enqueue</b>—Display enqueue statistics.</li><li>• <b>miscellaneous</b>—Display miscellaneous statistics.</li><li>• <b>supervisor</b>—Display supervisor statistics.</li><li>• <b>asic number</b>—(Optional) Display information for the specified ASIC. The number is always 0.</li><li>• <b>port number</b>—(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.</li></ul>

---

<b>transmit {port-fifo   queue   supervisor-sram} [asic number   port number [asic number]]</b>	Display transmit information. The keywords have these meanings:
	<ul style="list-style-type: none"> <li>• <b>port-fifo</b>—Display the contents of the port-FIFO information register.</li> <li>• <b>queue</b>—Display the contents of the queue information register.</li> <li>• <b>supervisor-sram</b>—Display supervisor SRAM information.</li> <li>• <b>asic number</b>—(Optional) Display information for the specified ASIC. The range is 0 to 1.</li> <li>• <b>port number</b>—(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.</li> </ul>
<b>vct [asic number   port number [asic number]]</b>	Display the VLAN compression table entries for the specified ASIC or for the specified port and ASIC. The keywords have these meanings:
	<ul style="list-style-type: none"> <li>• <b>asic number</b>—(Optional) Display information for the specified ASIC. The range is 0 to 1.</li> <li>• <b>port number</b>—(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.</li> </ul>

---



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.

---

<b>Command Modes</b>	Privileged EXEC
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<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	12.2(44)EY	This command was introduced.

---

<b>Usage Guidelines</b>	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.
-------------------------	--

**■ show platform port-security**

# show platform port-security

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

**show platform port-security**

---

**Syntax Description** There are no arguments or keywords.

---

**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.

# 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]
```

```
show platform qos statistics [interface [interface-id]]
```

Syntax Description		
<b>debug</b>		Display QoS debug messages for the switch or for the specified keyword.
<b>aggregate-policer</b> <i>aggregate-policer-name</i>		(Optional) Display QoS aggregate policer information for the specified aggregate policer.
<b>global-config</b>		(Optional) Display QoS global configuration information.
<b>input-queue</b>		(Optional) Display QoS input queue information.
<b>interface [interface-id] [buffers   policers   queuing]</b>		(Optional) Display QoS information for all interfaces or the specified interface. The keywords have these meanings: <ul style="list-style-type: none"> <li>• <b>buffers</b>—(Optional) Display information about QoS buffers.</li> <li>• <b>policers</b>—(Optional) Display information about QoS policers.</li> <li>• <b>queuing</b>—(Optional) Display information about QoS output queues.</li> </ul>
<b>label-table [dynamic-label {dscp value cos value   label-number value   policy-map policy-map-name class-map class-map-name} [asic number]</b>		(Optional) Display QoS label table information. The keywords have these meanings: <ul style="list-style-type: none"> <li>• <b>dynamic-label</b>—(Optional) Display dynamic label information.</li> <li>• <b>dscp value cos value</b>—Display information based on Differentiated Services Code Point (DSCP) value (0 to 63) and class of service (CoS) value (0 to 7).</li> <li>• <b>label-number value</b>—Display information based on the dynamic label number. The range is from 158 to 255.</li> <li>• <b>policy-map policy-map-name class-map class-map-name</b>—Display information for the specified policy map and class map.</li> <li>• <b>asic number</b>—(Optional) Display information based on the port ASIC number. The number is always 0.</li> </ul>

**■ show platform qos**

<b>policer {parameter-table   qos-table   selection-table} [asic number]</b>	(Optional) Display QoS policer information. The keywords have these meanings: <ul style="list-style-type: none"> <li>• <b>parameter-table</b>—Display the policer parameter table.</li> <li>• <b>qos-table</b>—Display the policer QoS table.</li> <li>• <b>selection-table</b>—Display the port allocation table.</li> <li>• <b>asic number</b>—(Optional) Display information based on the port ASIC number. The number is always 0.</li> </ul>
<b>policy-map policy-map-name [asic number]</b>	(Optional) Display QoS information for the specified policy map. <ul style="list-style-type: none"> <li>• <b>asic number</b>—(Optional) Display information based on the port ASIC number. The number is always 0.</li> </ul>
<b>port-class [asic number]</b>	(Optional) Display QoS port class tables. <ul style="list-style-type: none"> <li>• <b>asic number</b>—(Optional) Display information based on the port ASIC number. The number is always 0.</li> </ul>
<b>port-config port-number [asic number]</b>	(Optional) Display QoS port configuration information. The keywords have these meanings: <ul style="list-style-type: none"> <li>• <b>port-number</b>—Display QoS configuration for the specified port number. The range is 0 to 25.</li> <li>• <b>asic number</b>—(Optional) Display information based on the port ASIC number. The number is always 0.</li> </ul>
<b>port-info port-number [asic number]</b>	(Optional) Display QoS port information. The keywords have these meanings: <ul style="list-style-type: none"> <li>• <b>port-number</b>—Display QoS configuration for the specified port number. The range is 0 to 25.</li> <li>• <b>asic number</b>—(Optional) Display information based on the port ASIC number. The number is always 0.</li> </ul>
<b>table-map table-map-name [asic number]</b>	(Optional) Display QoS information for the specified table map. <ul style="list-style-type: none"> <li>• <b>asic number</b>—(Optional) Display information based on the port ASIC number. The number is always 0.</li> </ul>
<b>vlan vlan-id</b>	(Optional) Display QoS information for the specified VLAN. The range is 1 to 4094.
<b>statistics</b>	Display QoS interface statistics.

<b>Command Modes</b>	Privileged EXEC
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<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	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.

---

 show platform resource-manager

# 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]}
```

Syntax Description		
	<b>dm [index number]</b>	Display the destination map. The keyword has this meaning: <ul style="list-style-type: none"> <li>• <b>index number</b>—(Optional) Display the specified index. The range is 0 to 65535.</li> </ul>
	<b>erd [index number]</b>	Display the equal-cost-route descriptor table for the specified index. The keyword has this meaning: <ul style="list-style-type: none"> <li>• <b>index number</b>—(Optional) Display the specified index. The range is 0 to 65535.</li> </ul>
	<b>mad [index number]</b>	Display the MAC-address descriptor table for the specified index. The keyword has this meaning: <ul style="list-style-type: none"> <li>• <b>index number</b>—(Optional) Display the specified index. The range is 0 to 65535.</li> </ul>
	<b>med [index number]</b>	Display the multi-expansion descriptor table for the specified index. The keyword has this meaning: <ul style="list-style-type: none"> <li>• <b>index number</b>—(Optional) Display the specified index. The range is 0 to 65535.</li> </ul>
	<b>mod</b>	Display the resource-manager module information.
	<b>msm {hash-table [vlan vlan-id]   mac-address mac-address [vlan vlan-id]}</b>	Display the MAC-address station descriptor table. The keywords have these meanings: <ul style="list-style-type: none"> <li>• <b>hash-table</b>—Display the msm hash table.</li> <li>• <b>mac-address mac-address [vlan vlan-id]</b>—Display the table for the specified MAC address.</li> <li>• <b>vlan vlan-id</b>—(Optional) Display the table for the specified VLAN. The range is 1 to 4094.</li> </ul>
	<b>sd [index number]</b>	Display the station descriptor table for the specified index. The keyword has this meaning: <ul style="list-style-type: none"> <li>• <b>index number</b>—(Optional) Display the specified index. The range is 0 to 65535.</li> </ul>
	<b>vld [index number]</b>	Display the VLAN-list descriptor table for the specified index. The keyword has this meaning: <ul style="list-style-type: none"> <li>• <b>index number</b>—(Optional) Display the specified index. The range is 0 to 65535.</li> </ul>

---

 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.

**■ show platform snmp counters**

# 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**

---

**Syntax Description** There are no arguments or keywords.

---

**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.

# 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*]**

<b>Syntax Description</b>	<b>detail</b> (Optional) Display detailed spanning-tree synchronization information. <b>vlan <i>vlan-id</i></b> (Optional) Display spanning-tree synchronization information for the specified VLAN. The range is 1 to 4094.
---------------------------	---

<b>Command Modes</b>	Privileged EXEC
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<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	12.2(44)EY	This command was introduced.

<b>Usage Guidelines</b>	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.
-------------------------	--

**■ show platform status**

# show platform status

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

## **show platform status**

---

**Syntax Description** There are no arguments or keywords.

---

**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.

# 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***

<b>Syntax Description</b>	<i>vlan-id</i>	Display spanning-tree instance information for the specified VLAN. The range is 1 to 4094.
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<b>Command Modes</b>	Privileged EXEC
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<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	12.2(44)EY	This command was introduced.

<b>Usage Guidelines</b>	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.
-------------------------	--

---

 show platform tcam

## 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]]]

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]]]

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]]]

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]]]

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]]]

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]]]

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]]]

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]]]

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]]]

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]]]
```

---

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

---

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<b>table {acl   all   equal-cost-route   ipv6 {acl   qos   secondary}   local   mac-address   qos   secondary   station   vlan-list}</b>	Display lookup and forwarding table information. The keywords have these meanings: <ul style="list-style-type: none"><li>• <b>acl</b>—Display the access-control list (ACL) table.</li><li>• <b>all</b>—Display all the TCAM tables.</li><li>• <b>equal-cost-route</b>—Display the equal-cost-route table.</li><li>• <b>local</b>—Display the local table.</li><li>• <b>mac-address</b>—Display the MAC-address table.</li><li>• <b>qos</b>—Display the QoS table.</li><li>• <b>secondary</b>—Display the secondary table.</li><li>• <b>station</b>—Display the station table.</li><li>• <b>vlan-list</b>—Display the VLAN list table.</li></ul>
<b>usage</b>	Display the CAM and forwarding table usage.
<b>[[asic number [detail [invalid]]   index number [detail [invalid]]   invalid   num number [detail [invalid]]   invalid]   [invalid]   [num number [detail [invalid]]   invalid]]</b>	Display information. The keywords have these meanings: <ul style="list-style-type: none"><li>• <b>asic number</b>—Display information for the specified ASIC device ID. The range is 0 to 15.</li><li>• <b>detail [invalid]</b>—(Optional) Display valid or invalid details.</li><li>• <b>index number</b>—(Optional) Display information for the specified TCAM table index. The range is 0 to 32768.</li><li>• <b>num number</b>—(Optional) Display information for the specified TCAM table number. The range is 0 to 32768.</li></ul>

---



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

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<b>Command Modes</b>	Privileged EXEC
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<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	12.2(44)EY	This command was introduced.

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<b>Usage Guidelines</b>	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.
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■ show platform vlan

# 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}}**

Syntax Description	
<b>mapping</b>	See the <b>show platform vlan mapping</b> command.
<b>misc</b>	Display miscellaneous VLAN module information.
<b>mvid</b>	Display the mapped VLAN ID (MVID) allocation information.
<b>refcount</b>	Display the VLAN lock module-wise reference counts.
<b>rpc {receive   transmit}</b>	Display remote procedure call (RPC) messages. The keywords have these meanings: <ul style="list-style-type: none"> <li>• <b>receive</b>—Display received information.</li> <li>• <b>transmit</b>—Display sent information.</li> </ul>



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

<b>Command Modes</b>	Privileged EXEC
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Command History	Release	Modification
	12.2(44)EY	This command was introduced.

<b>Usage Guidelines</b>	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.
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# 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]**

<b>Syntax Description</b>	<i>interface-id</i> (Optional) Enter the physical interface ID or port channel number. Port channel range is from 1 to 48. <i>vlan-id</i> (Optional) Display information for the original VLAN on the wire, the customer VLAN ID (C-VLAN). VLAN ID range is from 1 to 4094. <b>handle handle-id</b> (Optional) Display the VLAN mapping handle details. The handle-ID range is from 0 to 65535. <b>usage</b> (Optional) Display the VLAN mapping hardware resource usage.
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**Command Modes**      Privileged EXEC

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	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.

**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)
    spinervlan:  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
```

### ■ show platform vlan mapping

```

First entry: 977 Number of entries: 1
Index   TCAM ENTRY          TCAM MASK           DESCRIPTOR
=====
977    7C006400 00000000     FEOFFF00 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%

```