



APPENDIX **C**

Cisco ME 2400 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 2400 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.

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

Syntax Description

| | |
|-------------------------|---|
| <i>interface-id</i> | Display per-interface ACL manager information for the specified interface. The interface can be a physical interface or a VLAN. |
| - | Display per-label ACL manager information. The <i>label-number</i> range is 0 to 255. The keyword has this meaning: |
| [<i>label-number</i>] | <ul style="list-style-type: none"> —(Optional) Display detailed ACL manager label information. |
| | Display per-ASIC ACL statistics. The <i>asic-number</i> is the port ASIC number, always 0. |
| [<i>asic-number</i>] | Display per-ASIC ACL usage. The <i>asic-number</i> is the port ASIC number, always 0. The keyword has this meaning: |
| | —(Optional) Display brief usage information. |
| | Display per-VLAN ACL manager information. The <i>vlan-id</i> range is from 1 to 4094. |
| | (Optional) Display begins with the line that matches the <i>expression</i> . |
| | (Optional) Display excludes lines that match the <i>expression</i> . |
| | (Optional) Display includes lines that match the specified <i>expression</i> . |
| | Expression in the output to use as a reference point. |

Command Modes

Privileged EXEC

Command History

| Release | Modification |
|---------|--------------|
| | |
| | |

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 *Output*, the lines that contain *Output* do not appear, but the lines that contain *Output* appear.

show platform configuration

include

config-output default running startup | begin exclude

| Syntax Description | config-output |
|--------------------|---------------|
| | default |
| | running |
| | startup |
| | begin |
| | exclude |
| | include |
| | |

Command Modes

| Command History | Release | Modification |
|-----------------|---------|--------------|
| | | |
| | | |

Usage Guidelines

| exclude output



show platform dl

Syntax Description

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Command Modes

Command History

| Release | Modification |
|---------|--------------|
| | |
| | |

Usage Guidelines

show platform etherchannel

| | |
|--------------------|--|
| Syntax Description | |
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| Command Modes |
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|-----------------|---------|--------------|
| Command History | Release | Modification |
| | | |
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| Usage Guidelines |
|------------------|

```

cos      src-ip dst-ip      field      dscp l4protocol-id |      l3protocol-id
igmp-version igmp-type |      src-port dst-port flags |      icmp-type icmp-code |
expression

```

interface-id

vlan-id

| | |
|----------------------|--|
| <i>src-mac</i> | 48-bit source MAC address. |
| <i>dst-mac</i> | 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. |
| | (Optional) Service access point (SAP) encapsulation type. |
| | (Optional) Subnetwork Access Protocol (SNAP) encapsulation type. |
| | (Optional) Class of service (CoS) value of the frame. The range is 0 to 7. |
| | (Optional, but required for IP packets) Source and destination IP addresses in dotted decimal notation. |
| | (Optional) The IP fragment field for a fragmented IP packet. The range is 0 to 65535. |
| | (Optional) Differentiated Services Code Point (DSCP) field in the IP header. The range is 0 to 63. |
| | 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. |
| | Internet Control Message Protocol (ICMP) parameters. The and ranges are 0 to 255. |
| | Internet Group Management Protocol (IGMP) parameters. The range is 1 to 15; the range is 0 to 15. |
| | TCP parameters: TCP source port, destination port, and the numeric value of the TCP flags byte in the header. The and ranges are 0 to 65535. The flag range is from 0 to 1024. |
| | User Datagram Protocol (UDP) parameters. The and ranges are 0 to 65535. |
| | (Optional) Display begins with the line that matches the . |
| | (Optional) Display excludes lines that match the . |
| | (Optional) Display includes lines that match the specified . |
| | Expression in the output to use as a reference point. |



ipv6

Command Modes

Command History

| | |
|------------|------------------------------|
| 12.2(25)EX | This command was introduced. |
|------------|------------------------------|

Usage Guidelines

| exclude output

Examples

See the “Troubleshooting” chapter of the software configuration guide for this release for examples of the `show ipv6` command output displays and what they mean.

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

```
show ip igmp snooping [detail] [interface] [group] [vlan] [counters] [flood] [group] [ip] [retry] [remote] [begin] [exclude] [include] [expression]
```

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

Privileged EXEC

| | |
|------------|------------------------------|
| 12.2(25)EX | This command was introduced. |
|------------|------------------------------|

|

show platform layer4op

show platform layer4op

```
show platform layer4op acl qos          and-or map or-and vcu | begin exclude
include
```

| | | |
|------------|------------|---|
| | acl | |
| | qos | Display quality of service (QoS) Layer 4 operators information. The keyword has this meaning: —(Optional) QoS port ASIC number. The value can be 0 or 1. |
| | | Display AND-OR registers information. |
| | | Display select map information. |
| | | Display OR-AND registers information. |
| | | Display value compare unit (VCU) register information. |
| | | (Optional) Display begins with the line that matches the . |
| | | (Optional) Display excludes lines that match the . |
| | | (Optional) Display includes lines that match the specified . |
| | | Expression in the output to use as a reference point. |
| | | |
| | | |
| | | |
| 12.2(25)EX | | This command was introduced. |

| exclude output

show platform mac-address-table

Syntax Description

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Command Modes

Command History

| Release | Modification |
|---------|--------------|
| | |
| | |

Usage Guidelines

show platform messaging

Syntax Description

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-

Command Modes

Command History

| Release | Modification |
|---------|--------------|
| | |
| | |

Usage Guidelines

show platform monitor

Port Analyzer (SPAN) information.

[[{ | | }]]

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

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| Command Modes | Privileged EXEC |
|---------------|-----------------|

| | | |
|-----------------|------------|------------------------------|
| Command History | Release | Modification |
| | 12.2(25)EX | 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 , the lines that contain do not appear, but the lines that contain appear. |

show platform mvr table

Syntax Description

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Command Modes

Command History

| Release | Modification |
|---------|--------------|
| | |

Usage Guidelines

show platform pm

counters | group-masks | idbs active-idbs deleted-idbs | if-numbers |
link-status | platform-block | port-info vlan info line-state
| begin exclude include

Syntax Description

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



Note

stack-view

Command Modes

Command History

| | |
|------------|------------------------------|
| 12.2(25)EX | This command was introduced. |
|------------|------------------------------|

Usage Guidelines

| exclude output



expression

interface-id

interface-id

expression

expression

expression

expression



Output

output

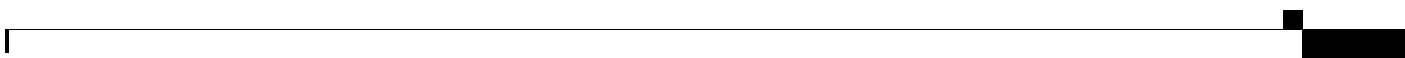
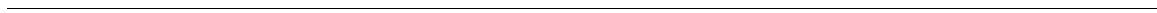
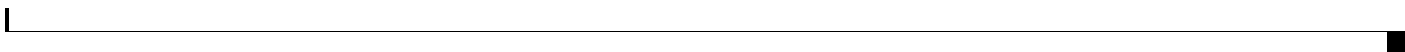


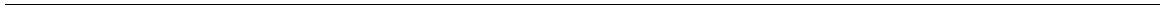
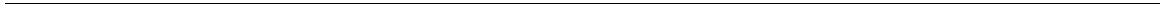
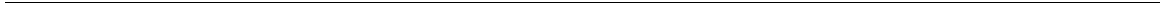
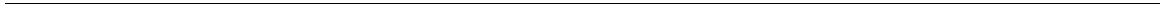
Switch# **show platform policer cpu interface fastethernet0/23**

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
=====
```

Switch #**show platform policer cpu interface gigabitethernet 0/1**











show platform qos

dynamic-label

class-map

selection-table

| port-config

dscp

asic

asic

port-number

cos

asic

policy-map

port-number

label-number

policer

parameter-table

asic

queuing]]

policy-map

parameter-table

asic

label-table

qos-table

port-class

r

asic

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| | |
|--|---|
| policer parameter-table qos-table selection-table asic | |
| | parameter-table qos-table selection-table asic (|
| policy-map | asic |
| | asic (|
| port-class asic | asic (|
| port-config <i>port-number [asic</i> <i>number</i> | <i>port-numbe</i> <i>number</i> |
| | <i>port-numbe</i> <i>number</i> |
| | <i>port-numbe</i> <i>number</i> |
| <i>table-map-name</i> <i>number</i> | <i>number</i> |
| <i>vlan-id</i> | |
| | |
| | <i>expression</i> |
| | <i>expression</i> |
| | <i>expression</i> |
| <i>expression</i> | |

Output

output



| include

| exclude output



show platform snmp counters

show platform snmp counters | begin exclude include

| begin

| exclude

| include

| exclude output

show platform status

show platform status | begin exclude include

| begin

| exclude

| include

| exclude output

show platform stp-instance

show platform stp-instance | begin exclude include

| begin

| exclude

| include

| exclude output

show platform tcam

```

{begin exclude include

show platform tcam table all [asic          detail invalid  index          detail invalid
invalid num          detail invalid  invalid  invalid  num          detail invalid
invalid  | {begin exclude include

show platform tcam table local [asic          detail invalid  index          detail invalid
invalid num          detail invalid  invalid  invalid  num          detail invalid
invalid  | begin exclude include

show platform tcam table mac-address [asic          detail invalid  index          detail
invalid  invalid num          detail invalid  invalid  invalid  num          detail
invalid  invalid  | begin exclude include

show platform tcam table qos [asic          detail invalid  index          detail invalid
invalid num          detail invalid  invalid  invalid  num          detail invalid
invalid  | begin exclude include

show platform tcam table station [asic          detail invalid  index          detail
invalid  invalid num          detail invalid  invalid  invalid  num          detail
invalid  invalid  | begin exclude include

show platform tcam table vlan-list [[asic          detail invalid  index          detail
invalid  invalid num          detail invalid  invalid  invalid  num          detail
invalid  invalid  | begin exclude include

```

Syntax Description

| | |
|-------------------------|---|
| handle | |
| log-results | |
| table acl all local | |
| mac-address qos station | |
| vlan-list | <ul style="list-style-type: none"> • acl • all • local • mac-address • qos • station • vlan-list |

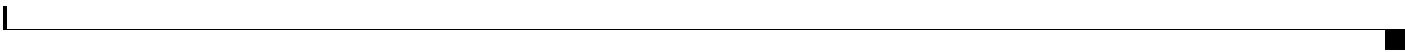
show platform tcam

| | | | | |
|---------|---------|---------|---------|----------------|
| usage | | | | |
| asic | | detail | invalid | |
| index | | detail | invalid | |
| invalid | num | | detail | asic |
| invalid | invalid | invalid | | |
| num | | detail | invalid | detail invalid |
| invalid | | | | index |
| | | | | num |

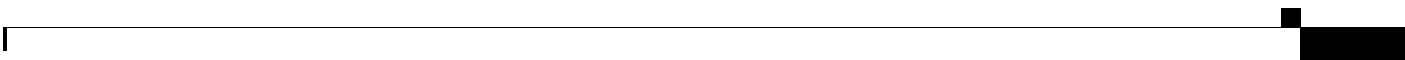
| |
|---------|
| begin |
| exclude |
| include |
| |
| |


Note

| | | |
|------------|-------|---|
| secondary, | usage | ipv6 equal-cost-route multicast-expansion |
|------------|-------|---|



| exclude output



show platform vlan

show platform vlan misc mvid refcount rpc receive transmit | begin exclude
include

| |
|-------------|
| misc |
| mvid |
| refcount |
| rpc receive |
| transmit |
| receive |
| transmit |
| begin |
| exclude |
| include |
| |



| |
|-------|
| prune |
| |

| exclude output