



Catalyst 3750 Switch Show Platform Commands

This appendix describes the **show platform** privileged EXEC commands that have been created or changed for use with the Catalyst 3750 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 |
vlan vlan-id} [ | {begin | exclude | include} expression]
```

Syntax Description		
interface <i>interface-id</i>	Display per-interface ACL manager information for the specified interface. The interface can be a physical interface or a VLAN.	
label <i>label-number</i> [detail]	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"> detail—(Optional) Display detailed ACL manager label information.
statistics <i>asic-number</i>	Display per-ASIC ACL manager information. The <i>asic-number</i> is the port ASIC number, either 0 or 1.	
vlan <i>vlan-id</i>	Display per-VLAN ACL manager information. The <i>vlan-id</i> range is from 1 to 4094.	
begin	(Optional) Display begins with the line that matches the <i>expression</i> .	
exclude	(Optional) Display excludes lines that match the <i>expression</i> .	
include	(Optional) Display includes lines that match the specified <i>expression</i> .	
<i>expression</i>	Expression in the output to use as a reference point.	

Command Modes Privileged EXEC

Command History	Release	Modification
	12.1(11)AX	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 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 <i>expression</i> .
	exclude	(Optional) Display excludes lines that match the <i>expression</i> .
	include	(Optional) Display includes lines that match the specified <i>expression</i> .
	<i>expression</i>	Expression in the output to use as a reference point.

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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 <i>expression</i> .
	exclude	(Optional) Display excludes lines that match the <i>expression</i> .
	include	(Optional) Display includes lines that match the specified <i>expression</i> .
	<i>expression</i>	Expression in the output to use as a reference point.

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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

<i>interface-id</i>	The input physical interface, the port on which the packet comes in to the switch (including type, stack member, module, and port number).
vlan <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.
<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.
sap	(Optional) Service access point (SAP) encapsulation type.
snap	(Optional) Subnetwork Access Protocol (SNAP) encapsulation type.
cos <i>cos</i>	(Optional) Class of service (CoS) value of the frame. The range is 0 to 7.
ip <i>src-ip</i> <i>dst-ip</i>	(Optional, but required for IP packets) Source and destination IP addresses in dotted decimal notation.
frag <i>field</i>	(Optional) The IP fragment field for a fragmented IP packet. The range is 0 to 65535.
dscp <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.
icmp <i>icmp-type</i> <i>icmp-code</i>	Internet Control Message Protocol (ICMP) parameters. The <i>icmp-type</i> and <i>icmp-code</i> ranges are 0 to 255.
igmp <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.
tcp <i>src-port</i> <i>dst-port</i> <i>flags</i>	Transmission Control Protocol (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.
udp <i>src-port</i> <i>dst-port</i>	User Datagram Protocol (UDP) parameters. The <i>src-port</i> and <i>dst-port</i> ranges are 0 to 65535.
begin	(Optional) Display begins with the line that matches the <i>expression</i> .
exclude	(Optional) Display excludes lines that match the <i>expression</i> .
include	(Optional) Display includes lines that match the specified <i>expression</i> .
<i>expression</i>	Expression in the output to use as a reference point.

■ show platform forward

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Examples Refer to 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 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: <ul style="list-style-type: none"> di—(Optional) Display IGMP snooping control destination index entries.
counters		Display IGMP snooping counters.
flood [vlan <i>vlan-id</i>]		Display IGMP snooping flood information. The keyword has this meaning: <ul style="list-style-type: none"> vlan <i>vlan-id</i>—(Optional) Display flood information for the specified VLAN. The range is 1 to 4094.
group <i>ip-address</i>		Display the IGMP snooping multicast group information, where <i>ip-address</i> 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: <ul style="list-style-type: none"> count—(Optional) Display only the retry count. local—(Optional) Display local retry entries.
remote [count]		Display remote entries. The keyword has this meaning: <ul style="list-style-type: none"> count—(Optional) Display only the remote count.
begin		(Optional) Display begins with the line that matches the <i>expression</i> .
exclude		(Optional) Display excludes lines that match the <i>expression</i> .
include		(Optional) Display includes lines that match the specified <i>expression</i> .
<i>expression</i>		Expression in the output to use as a reference point.

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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 { counters | groups | hardware [detail] | interfaces | locks |
mdfs-routes | mroute-retry | retry | trace } [ | { begin | exclude | include } expression]
```

Syntax Description		
counters		Display IP multicast counters and statistics.
groups		Display IP multicast routes per group.
hardware [detail]		Display IP multicast routes loaded into hardware. The keyword has this meaning: <ul style="list-style-type: none"> detail—(Optional) Display port members in 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.
mroute-retry		Display the IP multicast route retry queue.
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 <i>expression</i> .
exclude		(Optional) Display excludes lines that match the <i>expression</i> .
include		(Optional) Display includes lines that match the specified <i>expression</i> .
<i>expression</i>		Expression in the output to use as a reference point.

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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 } | 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 Dynamic Host Configuration Protocol (DHCP) system dynamic addresses.
failed { adjacency arp [A.B.C.D] route }	Display the hardware resource failures. The keywords have these meanings: <ul style="list-style-type: none"> • 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. • <i>A.B.C.D</i>—(Optional) Prefix of the ARP entries to display. • route—Display the route entries that failed to be programmed in hardware.
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 <i>expression</i> .
 exclude	(Optional) Display excludes lines that match the <i>expression</i> .
 include	(Optional) Display includes lines that match the specified <i>expression</i> .
<i>expression</i>	Expression in the output to use as a reference point.

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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 <i>expression</i> .
	exclude	(Optional) Display excludes lines that match the <i>expression</i> .
	include	(Optional) Display includes lines that match the specified <i>expression</i> .
	<i>expression</i>	Expression in the output to use as a reference point.

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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: <ul style="list-style-type: none"> 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 <i>expression</i> .
exclude		(Optional) Display excludes lines that match the <i>expression</i> .
include		(Optional) Display includes lines that match the specified <i>expression</i> .
<i>expression</i>		Expression in the output to use as a reference point.

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

Command Modes Privileged EXEC

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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: <ul style="list-style-type: none"> • 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 [<i>class-number</i>]	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.
begin	(Optional) Display begins with the line that matches the <i>expression</i> .
exclude	(Optional) Display excludes lines that match the <i>expression</i> .
include	(Optional) Display includes lines that match the specified <i>expression</i> .
<i>expression</i>	Expression in the output to use as a reference point.

Command Modes Privileged EXEC

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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 <i>session-number</i>	(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 <i>expression</i> .
	exclude	(Optional) Display excludes lines that match the <i>expression</i> .
	include	(Optional) Display includes lines that match the specified <i>expression</i> .
	<i>expression</i>	Expression in the output to use as a reference point.

Command Modes	Privileged EXEC
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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 <i>expression</i> .
	exclude	(Optional) Display excludes lines that match the <i>expression</i> .
	include	(Optional) Display includes lines that match the specified <i>expression</i> .
	<i>expression</i>	Expression in the output to use as a reference point.

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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 | stack-view | 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: <ul style="list-style-type: none"> • 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.
stack-view	Display status information for the stack.
vlan {info line-state}	Display platform VLAN information. The keywords have these meanings: <ul style="list-style-type: none"> • info—Display information for active VLANs. • line-state—Display line-state information.
begin	(Optional) Display begins with the line that matches the <i>expression</i> .
exclude	(Optional) Display excludes lines that match the <i>expression</i> .
include	(Optional) Display includes lines that match the specified <i>expression</i> .
<i>expression</i>	Expression in the output to use as a reference point.

Command Modes

Privileged EXEC

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12.1(11)AX	This command was introduced.

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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]
  stack {control | dest-map | learning | messages | mvid | prog-parser | span | stats [asic
  number | port 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:	<ul style="list-style-type: none"> 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:	<ul style="list-style-type: none"> 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.

exception [<i>asic number</i> port number [<i>asic number</i>]]	<p>Display the exception-index register information. The keywords have these meanings:</p> <ul style="list-style-type: none"> • 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.
global-status [<i>asic number</i> port number [<i>asic number</i>]]	<p>Display global and interrupt status. The keywords have these meanings:</p> <ul style="list-style-type: none"> • 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.
learning [<i>asic number</i> port number [<i>asic number</i>]]	<p>Display entries in the learning cache. The keywords have these meanings:</p> <ul style="list-style-type: none"> • 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.
mac-info [<i>asic number</i> port number [<i>asic number</i>]]	<p>Display the contents of the MAC information register. The keywords have these meanings:</p> <ul style="list-style-type: none"> • 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.
mvid [<i>asic number</i>]	<p>Display the mapped VLAN ID table. The keyword has this meaning:</p> <ul style="list-style-type: none"> • asic number—(Optional) Display information for the specified ASIC. The range is 0 to 1.
packet-info-ram [<i>asic number</i> index number [<i>asic number</i>]]	<p>Display the packet information RAM. The keywords have these meanings:</p> <ul style="list-style-type: none"> • asic number—(Optional) Display information for the specified ASIC. The range is 0 to 1. • index number—(Optional) Display information for the specified packet RAM index number and ASIC number. The range is 0 to 63.

port-info [<i>asic number</i> port number [<i>asic number</i>]]	<p>Display port information register values. The keywords have these meanings:</p> <ul style="list-style-type: none"> • 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.
prog-parser [<i>asic number</i> port number [<i>asic number</i>]]	<p>Display the programmable parser tables. The keywords have these meanings:</p> <ul style="list-style-type: none"> • 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.
receive { buffer-queue port-fifo supervisor-sram } [<i>asic number</i> port number [<i>asic number</i>]]	<p>Display receive information. The keywords have these meanings:</p> <ul style="list-style-type: none"> • 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 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.
span [<i>vlan-id</i> asic number]	<p>Display the Switched Port Analyzer (SPAN)-related information. The keywords have these meanings:</p> <ul style="list-style-type: none"> • <i>vlan-id</i>—(Optional) Display information for the specified VLAN. The range is 0 to 1023. • asic number—(Optional) Display information for the specified ASIC. The range is 0 to 1.

stack { control dest-map learning messages mvid prog-parser span stats [asic number port number [asic number]]	<p>Display stack-related information. The keywords have these meanings:</p> <ul style="list-style-type: none"> • control—Display stack control-status register information. • dest-map—Display destination-map information. • learning—Display entries in the learning-cache. • messages—Display the stack-message register information. • mvid—Display entries in the mapped VLAN-ID table. • prog-parser—Display the programmable parser tables. • span—Display SPAN-related information. • stats—Display raw statistics for the port ASIC. • 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.
stats { drop enqueue miscellaneous supervisor } [asic number port number [asic number]]	<p>Display raw statistics for the port ASIC. The keywords have these meanings:</p> <ul style="list-style-type: none"> • 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 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.
transmit { port-fifo queue supervisor-sram } [asic number port number [asic number]]	<p>Display transmit information. The keywords have these meanings:</p> <ul style="list-style-type: none"> • 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 [<i>asic number</i> <i>port number</i> [<i>asic number</i>]]	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"> • 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 <i>expression</i> .
exclude	(Optional) Display excludes lines that match the <i>expression</i> .
include	(Optional) Display includes lines that match the specified <i>expression</i> .
<i>expression</i>	Expression in the output to use as a reference point.

Command Modes Privileged EXEC

Command History	Release	Modification
	12.1(11)AX	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 <i>expression</i> .
	exclude	(Optional) Display excludes lines that match the <i>expression</i> .
	include	(Optional) Display includes lines that match the specified <i>expression</i> .
	<i>expression</i>	Expression in the output to use as a reference point.

Command Modes	Privileged EXEC
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Command History	Release	Modification
	12.1(11)AX	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 {label asic number | policer {parameters asic number |
port alloc number asic number}} [ | {begin | exclude | include} expression]
```

Syntax Description		
label asic number		Display QoS label maps for the specified ASIC. (Optional) For asic number , the range is 0 to 1.
policer {parameters asic number port alloc number asic number}		Display policer information. The keywords have these meanings: <ul style="list-style-type: none"> parameters asic number—Display parameter information for the specified ASIC. The range is 0 to 1. port alloc number asic number—Display port allocation information for the specified port and ASIC. The port allocation range is 0 to 25. The ASIC range is 0 to 1.
 begin		(Optional) Display begins with the line that matches the <i>expression</i> .
 exclude		(Optional) Display excludes lines that match the <i>expression</i> .
 include		(Optional) Display includes lines that match the specified <i>expression</i> .
<i>expression</i>		Expression in the output to use as a reference point.

Command Modes Privileged EXEC

Command History	Release	Modification
	12.1(11)AX	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 | sd [index number] |
  vld [index number] } [ | { begin | exclude | include } expression]
```

Syntax Description	
dm [index number]	Display the destination map. The keyword has this meaning: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> index number—(Optional) Display the specified index. The range is 0 to 65535.
mod	Display the resource-manager module information.
sd [index number]	Display the station descriptor table for the specified index. The keyword has this meaning: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> index number—(Optional) Display the specified index. The range is 0 to 65535.
begin	(Optional) Display begins with the line that matches the <i>expression</i> .
exclude	(Optional) Display excludes lines that match the <i>expression</i> .
include	(Optional) Display includes lines that match the specified <i>expression</i> .
<i>expression</i>	Expression in the output to use as a reference point.

Command Modes Privileged EXEC

Command History	Release	Modification
	12.1(11)AX	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 <i>expression</i> .
	exclude	(Optional) Display excludes lines that match the <i>expression</i> .
	include	(Optional) Display includes lines that match the specified <i>expression</i> .
	<i>expression</i>	Expression in the output to use as a reference point.

Command Modes	Privileged EXEC
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Command History	Release	Modification
	12.1(11)AX	This command was introduced.

Usage Guidelines	<p>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.</p>
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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

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

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

Syntax Description	Keyword	Description
	synchronization	Display spanning-tree state synchronization information. The keywords have these meanings:
	[detail vlan <i>vlan-id</i>]	<ul style="list-style-type: none"> detail—(Optional) Display detailed spanning-tree information. vlan <i>vlan-id</i>—(Optional) Display VLAN switch spanning-tree information for the specified VLAN. The range is 1 to 4094.
	begin	(Optional) Display begins with the line that matches the <i>expression</i> .
	exclude	(Optional) Display excludes lines that match the <i>expression</i> .
	include	(Optional) Display includes lines that match the specified <i>expression</i> .
	<i>expression</i>	Expression in the output to use as a reference point.

Command Modes Privileged EXEC

Command History	Release	Modification
	12.1(11)AX	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 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	<i>vlan-id</i>	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 <i>expression</i> .
	exclude	(Optional) Display excludes lines that match the <i>expression</i> .
	include	(Optional) Display includes lines that match the specified <i>expression</i> .
	<i>expression</i>	Expression in the output to use as a reference point.

Command Modes	Privileged EXEC
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Command History	Release	Modification
	12.1(14)EA1	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 stack-manager

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

```
show platform stack-manager {all | counters | trace [sdp [reverse] | state [reverse]]}
[ | {begin | exclude | include} expression]
```

Syntax Description	
all	Display all information for the entire switch stack.
counters	Display the stack manager counters.
trace [sdp [reverse]]	Display trace information. The keywords have these meanings: <ul style="list-style-type: none"> • sdp—(Optional) Display Stack Discovery Protocol (SDP) information. • reverse—(Optional) Display trace information in reverse chronological order (from recent to older chronological sequence).
trace [state [reverse]]	Display trace information. The keywords have these meanings: <ul style="list-style-type: none"> • state—(Optional) Display stack state machine information. • reverse—(Optional) Display trace information in reverse chronological order (from recent to older chronological sequence).
begin	(Optional) Display begins with the line that matches the <i>expression</i> .
exclude	(Optional) Display excludes lines that match the <i>expression</i> .
include	(Optional) Display includes lines that match the specified <i>expression</i> .
<i>expression</i>	Expression in the output to use as a reference point.

Command Modes	
	Privileged EXEC

Command History	Release	Modification
	12.1(11)AX	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.

These are the states displayed in the summary information about the switch stack:

- **Waiting**—The stage when a switch is booting up and waiting for communication from other switches in the stack. The switch has not yet determined whether it is a stack master or not.

Stack members not participating in a stack master election remain in the waiting state until the stack master is elected and ready.

- **Initializing**—The stage when a switch has determined whether it is the stack master or not. If the switch is not the stack master, it is receiving its system- and interface-level configuration from the stack master and loading it.
- **Ready**—The stage when the stack member has completed loading the system- and interface-level configuration and is ready to forward traffic.
- **Master Re-Init**—The stage immediately after a stack master re-election and a different stack member is elected stack master. The new stack master is re-initializing its configuration. This state applies only to the new stack master.
- **Ver Mismatch**—The stage of a switch in version mismatch (VM) mode. VM mode is when a switch joining the switch stack has a different stack protocol minor version number from the stack master.

A typical state transition for a stack member (including a stack master) booting up is Waiting -> Initializing -> Ready.

A typical state transition for a stack member becoming a stack master after a stack master election is Ready -> Master Re-Init -> Ready.

A typical state transition for a stack member in version mismatch (VM) mode is Waiting -> Ver Mismatch.

show platform tb

Use the **show platform tb** privileged EXEC command to display platform-dependent trusted-boundary information during a stack master change to a new stack master.

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

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

Command Modes Privileged EXEC

Command History	Release	Modification
	12.1(14)EA1	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.

Examples This is an example of output from the **show platform tb** command:

```
Switch# show platform tb
Print TB sub-block information
(Fa1/0/2) device:(Cisco phone)
/* current interfaces with TB enabled, and the trust device type */

Current master switch:(Yes)
/* Is this switch the current master switch? */

New elected master      :(No)
/* Is the master switch-over occurred and this is the new master switch? */

Master ready           :(No)
/* Is the Master switch in ready state? */

HULC TB process on    :(No)
/* Is the TB platform process currently running? */

CDP stable timer ON   :(No) (360 secs)
/* Is the CDP stable timer running? After the CDP stable timer expired, CDP neighbors of
all the TB enabled interfaces will be verified to make sure the replacement of IP phone
and PC did not happen during the master switch-over. */
```

■ show platform tb

```
Print TB residue trust ports information
/* The interfaces with TB enabled right before master switch-over. */

Print port CDP neighbor information
/* Is the CDP message still received after switch-over? */

HULC TB is not detecting CDP events
/* Currently, this switch is not detecting any CDP event. */
```

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 | ipv6 {acl | qos | secondary} | 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 ipv6 {acl | qos | 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 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 multicast-expansion [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 <i>number</i>	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 multicast-expansion qos secondary station vlan-list }	Display lookup and forwarding table information. The keywords have these meanings: <ul style="list-style-type: none"> • acl—Display the access-control list (ACL) table. • all—Display all the TCAM tables. • equal-cost-route—Display the equal-cost-route table. • ipv6—Display IPv6 information. <ul style="list-style-type: none"> – acl—Display the IPv6 ACL-table information. – qos—Display the IPv6 QoS-table information. – secondary—Display the IPv6 secondary-table information. • local—Display the local table. • mac-address—Display the MAC-address table. • multicast-expansion—Display the IPv6 multicast-expansion 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 <i>number</i> [detail [invalid]]] [index <i>number</i> [detail [invalid]]] invalid num <i>number</i> [detail [invalid]] [invalid] [invalid] [invalid] [num <i>number</i> [detail [invalid]]] [invalid]]	Display information. The keywords have these meanings: <ul style="list-style-type: none"> • asic <i>number</i>—Display information for the specified ASIC device ID. The range is 0 to 15. • detail [invalid]—(Optional) Display valid or invalid details. • index <i>number</i>—(Optional) Display information for the specified TCAM table index. The range is 0 to 32768. • num <i>number</i>—(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 <i>expression</i> .
	exclude	(Optional) Display excludes lines that match the <i>expression</i> .
	include	(Optional) Display includes lines that match the specified <i>expression</i> .
	<i>expression</i>	Expression in the output to use as a reference point.

Command Modes Privileged EXEC

Command History

Release	Modification
12.1(11)AX	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 {misc | mvid | prune | refcount | rpc {receive | transmit}} [| {begin | exclude | include} expression]
```

Syntax Description		
misc		Display miscellaneous VLAN module information.
mvid		Display the mapped VLAN ID (MVID) allocation information.
prune		Display the stack pruning database.
refcount		Display the VLAN lock module-wise reference counts.
rpc {receive transmit}		Display remote procedure call (RPC) messages. The keywords have these meanings: <ul style="list-style-type: none"> • receive—Display received information. • transmit—Display sent information.
begin	(Optional)	Display begins with the line that matches the <i>expression</i> .
exclude	(Optional)	Display excludes lines that match the <i>expression</i> .
include	(Optional)	Display includes lines that match the specified <i>expression</i> .
<i>expression</i>		Expression in the output to use as a reference point.

Command Modes Privileged EXEC

Command History	Release	Modification
	12.1(11)AX	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.