



show interfaces vlan mapping through show scp

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show l2protocol-tunnel

To display the protocols that are tunneled on an interface or on all interfaces, use the **show l2protocol-tunnel** command.

show l2protocol-tunnel [**interface** *interface mod/port*| **summary**| **vlan** *vlan*]

Syntax Description

interface <i>interface-id</i>	(Optional) Specifies the interface type; possible valid values are ethernet , FastEthernet , gigabitethernet , tengigabitethernet , pos , atm , and ge-wan
<i>mod/port</i>	Module and port number.
summary	(Optional) Displays a summary of a tunneled port.
vlan <i>vlan</i>	(Optional) Limits the display to interfaces on the specified VLAN. Valid values are from 1 to 4094.

Command Modes

EXEC (>)

Privileged EXEC (#)

Command History

Release	Modification
12.2(14)SX	Support for this command was introduced on the Supervisor Engine 720.
12.2(17a)SX	The show l2protocol-tunnel summary command output was changed to display the following information: <ul style="list-style-type: none"> • Global drop-threshold setting • Up status of a Layer 2-protocol interface tunnel
12.2(17d)SXB	Support for this command on the Supervisor Engine 2 was extended to the 12.2 SX release.
12.2(33)SRA	This command was integrated into Cisco IOS Release 12.2(33)SRA.
12.2(33)SXI	This command was changed to add the optional vlan <i>vlan</i> keyword and argument.
15.2(2)T	This command was integrated into Cisco IOS Release 15.2(2)T.

Usage Guidelines

After enabling Layer 2 protocol tunneling on an access or IEEE 802.1Q tunnel port by using the `l2protocol-tunnel` interface configuration command, you can configure some or all of these parameters:

- Protocol type to be tunneled
- Shutdown threshold
- Drop threshold

The `showl2protocol-tunnel` command displays only the ports that have protocol tunneling enabled.

The `showl2protocol-tunnelsummary` command displays the ports that have protocol tunneling enabled, regardless of whether the port is down or currently configured as a trunk.

Examples

The following example is an output from the `show l2protocol-tunnel` command:

```
Router# show l2protocol-tunnel
COS for Encapsulated Packets: 5
```

Drop Threshold for Encapsulated Packets: 0

Port	Protocol	Shutdown Threshold	Drop Threshold	Encapsulation Counter	Decapsulation Counter	Drop Counter
Fa0/3	---	----	----	----	----	----
	---	----	----	----	----	----
	---	----	----	----	----	----
	pagp	----	----	0	242500	
	lACP	----	----	24268	242640	
	udld	----	----	0	897960	
Fa0/4	---	----	----	----	----	----
	---	----	----	----	----	----
	---	----	----	----	----	----
	pagp	1000	----	24249	242700	
	lACP	----	----	24256	242660	
	udld	----	----	0	1344820	
Gi0/3	cdp	----	----	134482	1344820	
	---	----	----	----	----	----
	---	----	----	----	----	----
	pagp	1000	----	0	242500	
	lACP	500	----	0	485320	
	udld	300	----	44899	448980	
Gi0/3	cdp	----	----	134482	1344820	

	---	----	----	----	----	----
	---	----	----	----	----	----
	pagp	----	1000	0	242700	
	lacp	----	----	0	485220	
	udld	300	----	44899	448980	

This example shows how to display a summary of Layer 2-protocol tunnel ports:

```
Router# show l2protocol-tunnel summary
COS for Encapsulated Packets:5
Drop Threshold for Encapsulated Packets:0
Port      Protocol      Shutdown      Drop      Status
          (cdp/stp/vtp)  Threshold
-----
Fa9/1    --- stp --- ---/---/--- ---/---/--- down
Fa9/9    cdp stp vtp ---/---/--- ---/---/--- up
Fa9/47   --- --- --- ---/---/--- 1500/1500/1500 down (trunk)
Fa9/48   cdp stp vtp ---/---/--- ---/---/--- down (trunk)
```

This example shows how to display Layer 2-protocol tunnel information on interfaces for a specific VLAN:

```
Router# show l2protocol-tunnel vlan 1
COS for Encapsulated Packets: 5
Drop Threshold for Encapsulated Packets: 0
Protocol Drop Counter
-----
cdp          0
lldp         0
stp          0
vtp          0
Port         Protocol Thresholds      Counters
          Shutdown Drop      Encap  Decap  Drop
-----
-----
```

Related Commands

Command	Description
debug l2protocol-tunnel	Displays the debugging options for L2PT.
l2protocol-tunnel	Enables the protocol tunneling on an interface and specifies the type of protocol to be tunneled.
l2protocol-tunnel drop-threshold	Specifies the maximum number of packets that can be processed for the specified protocol on that interface before being dropped.
l2protocol-tunnel global drop-threshold	Enables rate limiting at the software level.

Command	Description
l2protocol-tunnel shutdown-threshold	Specifies the maximum number of packets that can be processed for the specified protocol on that interface in 1 second.

show lacp

To display Link Aggregation Control Protocol (LACP) and multi-chassis LACP (mLACP) information, use the **show lacp** command in either user EXEC or privileged EXEC mode.

```
show lacp {channel-group-number {counters| internal [detail]| neighbor [detail]}| multi-chassis
[load-balance] {group number| port-channel number}| sys-id}
```

Cisco ASR 901 Series Aggregation Services Router

```
show lacp {channel-group-number {counters| internal [detail]| neighbor [detail]| sys-id} }
```

Syntax Description

<i>channel-group-number</i>	(Optional) Number of the channel group. The following are valid values: <ul style="list-style-type: none"> • Cisco IOS 12.2 SB and Cisco IOS XE 2.4 Releases--from 1 to 64 • Cisco IOS 12.2 SR Releases--from 1 to 308 • Cisco IOS 12.2 SX Releases--from 1 to 496 • Cisco IOS 15.1S Releases—from 1 to 564 • Cisco ASR 901 Series Aggregation Services Router—from 1 to 8
counters	Displays information about the LACP traffic statistics.
internal	Displays LACP internal information.
neighbor	Displays information about the LACP neighbor.
detail	(Optional) Displays detailed internal information when used with the internal keyword and detailed LACP neighbor information when used with the neighbor keyword.
multi-chassis	Displays information about mLACP.
load-balance	Displays mLACP load balance information.
group	Displays mLACP redundancy group information,

<i>number</i>	Integer value used with the group and port-channel keywords. <ul style="list-style-type: none"> • Values from 1 to 4294967295 identify the redundancy group. • Values from 1 to 564 identify the port-channel interface.
port-channel	Displays mLACP port-channel information.
sys-id	Displays the LACP system identification. It is a combination of the port priority and the MAC address of the device

Command Modes

User EXEC (>) Privileged EXEC (#)

Command History

Release	Modification
12.2(14)SX	Support for this command was introduced on the Supervisor Engine 720.
12.2(17d)SXB	Support for this command on the Supervisor Engine 2 was extended to Cisco IOS Release 12.2(17d)SXB.
12.2(33)SRA	This command was integrated into Cisco IOS Release 12.2(33)SRA.
12.2(31)SB2	This command was integrated into Cisco IOS Release 12.2(31)SB2.
12.2(33)SRB	Support for this command on the Cisco 7600 router was integrated into Cisco IOS Release 12.2(33)SRB.
Cisco IOS XE Release 2.4	This command was integrated into Cisco IOS XE Release 2.4.
12.2(33)SRE	This command was modified. The multi-chassis , group , and port-channel keywords and <i>number</i> argument were added.
15.1(3)S	This command was modified. The load-balance keyword was added.
15.1(2)SNG	This command was implemented on the Cisco ASR 901 Series Aggregation Services Router.

Usage Guidelines

Use the **show lacp** command to troubleshoot problems related to LACP in a network.

If you do not specify a value for the argument *channel-group-number*, all channel groups are displayed. Values in the range of 257 to 282 are supported on the CSM and the FWSM only.

Examples

Examples

This example shows how to display the LACP system identification using the **show lacp sys-id** command:

```
Device> show lacp sys-id
```

```
8000,AC-12-34-56-78-90
```

The system identification is made up of the system priority and the system MAC address. The first two bytes are the system priority, and the last six bytes are the globally administered individual MAC address that is associated to the system.

Examples

This example shows how to display the LACP statistics for a specific channel group:

```
Device# show lacp 1 counters
```

Port	LACPDUs		Marker		LACPDUs	
	Sent	Recv	Sent	Recv	Pkts	Err

Channel group: 1						
Fa4/1	8	15	0	0	3	0
Fa4/2	14	18	0	0	3	0
Fa4/3	14	18	0	0	0	
Fa4/4	13	18	0	0	0	

The output displays the following information:

- The LACPDUs Sent and Recv columns display the LACPDUs that are sent and received on each specific interface.
- The LACPDUs Pkts and Err columns display the marker-protocol packets.

The following example shows output from a **show lacp channel-group-number counters** command:

```
Device1# show lacp 5 counters
```

Port	LACPDUs		Marker		Marker Response		LACPDUs	
	Sent	Recv	Sent	Recv	Sent	Recv	Pkts	Err

Channel group: 5								
Gi5/0/0	21	18	0	0	0	0	0	

The following table describes the significant fields shown in the display.

Table 1: show lacp channel-group-number counters Field Descriptions

Field	Description
LACPDUs Sent Recv	Number of LACP PDUs sent and received.
Marker Sent Recv	Attempts to avoid data loss when a member link is removed from an LACP bundle.
Marker Response Sent Recv	Cisco IOS response to the Marker protocol.
LACPDUs Pkts Err	Number of LACP PDU packets transmitted and the number of packet errors.

The following example shows output from a **show lacp internal** command:

```
Device1# show lacp 5 internal
```

```
Flags:  S - Device is requesting Slow LACPDUs
        F - Device is requesting Fast LACPDUs
        A - Device is in Active mode           P - Device is in Passive mode
Channel group 5
```

Port	Flags	State	LACP port Priority	Admin Key	Oper Key	Port Number	Port State
Gi5/0/0	SA	bndl	32768	0x5	0x5	0x42	0x3D

The following table describes the significant fields shown in the display.

Table 2: show lacp internal Field Descriptions

Field	Description
Flags	Meanings of each flag value, which indicates a device activity.
Port	Port on which link bundling is configured.
Flags	Indicators of device activity.
State	Activity state of the port. States can be any of the following: <ul style="list-style-type: none"> • Bndl--Port is attached to an aggregator and bundled with other ports. • Susp--Port is in suspended state, so it is not attached to any aggregator. • Indep--Port is in independent state (not bundled but able to switch data traffic). This condition differs from the previous state because in this case LACP is not running on the partner port. • Hot-sby--Port is in hot standby state. • Down--Port is down.
LACP port Priority	Priority assigned to the port.
Admin Key	Defines the ability of a port to aggregate with other ports.
Oper Key	Determines the aggregation capability of the link.
Port Number	Number of the port.

Field	Description
Port State	<p>State variables for the port that are encoded as individual bits within a single octet with the following meaning:</p> <ul style="list-style-type: none"> • bit0: LACP_Activity • bit1: LACP_Timeout • bit2: Aggregation • bit3: Synchronization • bit4: Collecting • bit5: Distributing • bit6: Defaulted • bit7: Expired

Examples

This example shows how to display internal information for the interfaces that belong to a specific channel:

```
Device# show lacp 1 internal
```

```
Flags:  S - Device sends PDUs at slow rate.  F - Device sends PDUs at fast rate.
        A - Device is in Active mode.         P - Device is in Passive mode.
```

```
Channel group 1
```

Port	Flags	State	LACPDUs Interval	LACP Port Priority	Admin Key	Oper Key	Port Number	Port State
Fa4/1	saC	bndl	30s	32768	100	100	0xc1	0x75
Fa4/2	saC	bndl	30s	32768	100	100	0xc2	0x75
Fa4/3	saC	bndl	30s	32768	100	100	0xc3	0x75
Fa4/4	saC	bndl	30s	32768	100	100	0xc4	0x75

```
Device#
```

The following table describes the significant fields shown in the display.

Table 3: show lacp internal Field Descriptions

Field	Description
State	<p>Current state of the port; allowed values are as follows:</p> <ul style="list-style-type: none"> • bndl--Port is attached to an aggregator and bundled with other ports. • susp--Port is in a suspended state; it is not attached to any aggregator. • indep--Port is in an independent state (not bundled but able to switch data traffic. In this case, LACP is not running on the partner port). • hot-sby--Port is in a hot-standby state. • down--Port is down.
LACPDU's Interval	Interval setting.
LACP Port Priority	Port-priority setting.
Admin Key	Defines the ability of a port to aggregate with other ports.
Oper Key	Determines the aggregation capability of the link.
Port Number	Port number.
Port State	<p>Activity state of the port.</p> <ul style="list-style-type: none"> • See the Port State description in the show lacp internal Field Descriptions table for state variables.

Examples

This example shows how to display the information about the LACP neighbors for a specific port channel:

Device# **show lacp 1 neighbors**

Flags: S - Device sends PDUs at slow rate. F - Device sends PDUs at fast rate.
 A - Device is in Active mode. P - Device is in Passive mode.

Channel group 1 neighbors

Port	Partner System ID	Partner Port Number	Age	Flags
Fa4/1	8000,00b0.c23e.d84e	0x81	29s	P
Fa4/2	8000,00b0.c23e.d84e	0x82	0s	P
Fa4/3	8000,00b0.c23e.d84e	0x83	0s	P
Fa4/4	8000,00b0.c23e.d84e	0x84	0s	P
Port	Admin Key	Oper Key	Port State	
Fa4/1	32768	200	200	0x81

```

Fa4/2      32768      200      200      0x81
Fa4/3      32768      200      200      0x81
Fa4/4      32768      200      200      0x81
Device#

```

The following table describes the significant fields shown in the display.

Table 4: show lacp neighbors Field Descriptions

Field	Description
Port	Port on which link bundling is configured.
Partner System ID	Peer's LACP system identification (sys-id). It is a combination of the system priority and the MAC address of the peer device.
Partner Port Number	Port number on the peer device
Age	Number of seconds since the last LACP PDU was received on the port.
Flags	Indicators of device activity.
Port Priority	Port priority setting.
Admin Key	Defines the ability of a port to aggregate with other ports.
Oper Key	Determines the aggregation capability of the link.
Port State	Activity state of the port. See the Port State description in the show lacp internal Field Descriptions table for state variables.

If no PDUs have been received, the default administrative information is displayed in braces.

Related Commands

Command	Description
clear lacp counters	Clears the statistics for all interfaces belonging to a specific channel group.
lacp port-priority	Sets the priority for the physical interfaces.
lacp system-priority	Sets the priority of the system.

show link state group

To display the link-state group information., use the **showlinkstategroup** command in user EXEC or privileged EXEC mode .

show link state group detail

Syntax Description

detail	Displays the detailed information about the group.
---------------	--

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
15.1(1)S	This command was introduced.

Usage Guidelines

Link State Tracking (LST), also known as trunk failover, is a feature that binds the link state of multiple interfaces. When you configure LST for the first time, add upstream interfaces to the link state group before adding the downstream interface, otherwise the downstream interfaces would move into error-disable mode. The maximum number of link state groups configurable is 10.

Examples

The following example displays the link-state group information:

```
Router# enable
Router# show link state group 1
Link State Group: 1 Status: Enabled, Down
Router> show link state group detail
(Up):Interface up (Dwn):Interface Down (Dis):Interface disabled
Link State Group: 1 Status: Enabled, Down
Upstream Interfaces : Gi3/5(Dwn) Gi3/6(Dwn)
Downstream Interfaces : Gi3/1(Dis) Gi3/2(Dis) Gi3/3(Dis) Gi3/4(Dis)
Link State Group: 2 Status: Enabled, Down
Upstream Interfaces : Gi3/15(Dwn) Gi3/16(Dwn) Gi3/17(Dwn)
Downstream Interfaces : Gi3/11(Dis) Gi3/12(Dis) Gi3/13(Dis) Gi3/14(Dis)
(Up):Interface up (Dwn):Interface Down (Dis):Interface disabled
```

Related Commands

Command	Description
link state track	Configures the link state tracking number.
link state group	Configures the link state group and interface, as either an upstream or downstream interface in the group.

show mac-address-table dynamic

To display dynamic MAC address table entries only, use the **showmac-address-tabledynamic** command in privileged EXEC mode.

Cisco 2600 Series, Cisco 3600 Series, and Cisco 3700 Series Routers

show mac-address-table dynamic [*address mac-addr*] **interface** *interface type slot/number* | **vlan** *vlan*]

Catalyst Switches

show mac-address-table dynamic [*address mac-addr*] **detail** | **interface** *interface number* **protocol** *protocol* | **module** *number* | **vlan** *vlan*][**begin** | **exclude** | **include** | *expression*]

Catalyst 6500 Series Switches

show mac-address-table dynamic [*address mac-addr*] **interface** *interface interface-number* [**all** | **module** *number*][**module** *num* | **vlan** *vlan-id* [**all** | **module** *number*]]

Syntax Description

address <i>mac -address</i>	(Optional) Specifies a 48-bit MAC address; valid format is H.H.H.
detail	(Optional) Specifies a detailed display of MAC address table information.
interface <i>type number</i>	(Optional) Specifies an interface to match; valid type values are FastEthernet and GigabitEthernet, valid number values are from 1 to 9.
interface <i>type</i>	(Optional) Specifies an interface to match; valid type values are FastEthernet and GigabitEthernet.
<i>slot</i>	(Optional) Adds dynamic addresses to module in slot 1 or 2.
<i>port</i>	(Optional) Port interface number ranges based on type of Ethernet switch network module used: <ul style="list-style-type: none"> • 0 to 15 for NM-16ESW • 0 to 35 for NM-36ESW • 0 to 1 for GigabitEthernet
protocol <i>protocol</i>	(Optional) Specifies a protocol. See the “Usage Guidelines” section for keyword definitions.
module <i>number</i>	(Optional) Displays information about the MAC address table for a specific Distributed Forwarding Card (DFC) module.

vlan <i>vlan</i>	(Optional) Displays entries for a specific VLAN; valid values are from 1 to 1005.
begin	(Optional) Specifies that the output display begin with the line that matches the expression.
exclude	(Optional) Specifies that the output display exclude lines that match the expression.
include	(Optional) Specifies that the output display include lines that match the specified expression.
<i>expression</i>	Expression in the output to use as a reference point.
all	(Optional) Specifies that the output display all dynamic MAC-address table entries.

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
12.0(7)XE	This command was introduced on Catalyst 6000 series switches.
12.2(2)XT	This command was implemented on Cisco 2600 series, Cisco 3600 series, and Cisco 3700 series routers.
12.2(8)T	This command was integrated into Cisco IOS Release 12.2(8)T on Cisco 2600 series, Cisco 3600 series, and Cisco 3700 series routers.
12.2(11)T	This command was integrated into Cisco IOS Release 12.2(11)T.
12.2(33)SRA	This command was integrated into Cisco IOS Release 12.2(33)SRA.
12.2(14)SX	Support for this command was introduced on the Catalyst 6500 series switch.
12.2(33)SXH	This command was changed to support the all keyword on the Catalyst 6500 series switch.

Usage Guidelines**Cisco 2600 Series, Cisco 3600 Series, and Cisco 3700 Series Routers**

The **showmac-address-tabledynamic** command output for an EtherChannel interface changes the port-number designation (for example, 5/7) to a port-group number.

Catalyst Switches

The keyword definitions for the protocol argument are:

- **ip** --Specifies IP protocol
- **ipx** --Specifies Internetwork Packet Exchange (IPX) protocols
- **assigned** --Specifies assigned protocol entries
- **other** --Specifies other protocol entries

The **show mac-address-table dynamic** command output for an EtherChannel interface changes the port-number designation (for example, 5/7) to a port-group number.

Catalyst 6500 Series Switches

The *mac-address* is a 48-bit MAC address and the valid format is H.H.H.

The optional **module num** keyword and argument are supported only on DFC modules. The **module num** keyword and argument designate the module number.

Examples

The following examples show how to display all dynamic MAC address entries. The fields shown in the various displays are self-explanatory.

Examples

Router# **show mac-address-table dynamic**

Non-static Address Table:

Destination Address	Address Type	VLAN	Destination Port
000a.000a.000a	Dynamic	1	FastEthernet4/0
002a.2021.4567	Dynamic	2	FastEthernet4/0

Examples

Router# **show mac-address-table dynamic**

vlan	mac address	type	protocol	qos	ports
200	0010.0d40.37ff	dynamic	ip	-- 5/8	
1	0060.704c.73ff	dynamic	ip	-- 5/9	
4095	0000.0000.0000	dynamic	ip	-- 15/1	
1	0060.704c.73fb	dynamic	other	-- 5/9	
1	0080.1c93.8040	dynamic	ip	-- 5/9	
4092	0050.f0ac.3058	dynamic	ip	-- 15/1	
1	00e0.4fac.b3ff	dynamic	other	-- 5/9	

The following example shows how to display dynamic MAC address entries with a specific protocol type (in this case, assigned).

Router# **show mac-address-table dynamic protocol assigned**

vlan	mac address	type	protocol	qos	ports
4092	0000.0000.0000	dynamic	assigned	--	Router
4092	0050.f0ac.3059	dynamic	assigned	--	Router
1	0010.7b3b.0978	dynamic	assigned	--	Fa5/9

Router#

The following example shows the detailed output for the previous example.

Router# **show mac-address-table dynamic protocol assigned detail**

MAC Table shown in details

Type	Always	Learn	Trap	Modified	Notify	Capture	Protocol	Flood	
QoS bit	L3	Spare	Mac Address	Age	Byte	Pvlan	Xtag	SWbits	Index
DYNAMIC	NO	NO	YES	NO	NO	assigned	NO		
Bit Not On	0	0000.0000.0000	255	4092	0	0	0x3		

show mac-address-table dynamic

```

DYNAMIC      NO      NO      YES      NO      NO      assigned  NO
  Bit Not On      0      0050.f0ac.3059 254      4092  0      0      0x3

DYNAMIC      NO      NO      YES      NO      NO      assigned  NO
  Bit Not On      0      0010.7b3b.0978 254      1      0      0      0x108

Router#

```

Examples

This example shows how to display all the dynamic MAC-address entries for a specific VLAN.

```

Router# show mac-address-table dynamic vlan 200 all
Legend: * - primary entry
        age - seconds since last seen
        n/a - not available
vlan    mac address      type    learn    age    ports
-----+-----+-----+-----+-----+-----
 200    0010.0d40.37ff    dynamic NO      23     Gi5/8
Router#

```

This example shows how to display all the dynamic MAC-address entries.

```

Router# show mac-address-table dynamic
Legend: * - primary entry
        age - seconds since last seen
        n/a - not applicable
vlan    mac address      type    learn    age    ports
-----+-----+-----+-----+-----+-----
* 10    0010.0000.0000    dynamic Yes    n/a     Gi4/1
* 3     0010.0000.0000    dynamic Yes    0       Gi4/2
* 1     0002.fcbc.ac64    dynamic Yes    265     Gi8/1
* 1     0009.12e9.adc0    static  No      -       Router
Router#

```

Related Commands

Command	Description
show mac -address-tableaddress	Displays MAC address table information for a specific MAC address.
show mac -address-tableaging-time	Displays the MAC address aging time.
show mac -address-tablecount	Displays the number of entries currently in the MAC address table.
show mac -address-tabledetail	Displays detailed MAC address table information.
show mac -address-tableinterface	Displays the MAC address table information for a specific interface.
show mac -address-tablemulticast	Displays multicast MAC address table information.
show mac -address-tableprotocol	Displays MAC address table information based on protocol.
show mac -address-tablestatic	Displays static MAC address table entries only.
show mac -address-tablevlan	Displays the MAC address table information for a specific VLAN.

show pagp

To display port-channel information, use the **show pagp** command in user EXEC or privileged EXEC mode.

show pagp [*group-number*] { **counters** | **internal** | **neighbor** | **pgroup** }

Syntax Description

<i>group-number</i>	(Optional) Channel-group number; valid values are a maximum of 64 values from 1 to 282.
counters	Displays the traffic information.
internal	Displays the internal information.
neighbor	Displays the neighbor information.
pgroup	Displays the active port channels.

Command Default

This command has no default settings.

Command Modes

User EXEC Privileged EXEC

Command History

Release	Modification
12.2(14)SX	Support for this command was introduced on the Supervisor Engine 720.
12.2(17d)SXB	Support for this command on the Supervisor Engine 2 was extended to Release 12.2(17d)SXB.
12.2(33)SRA	This command was integrated into Cisco IOS Release 12.2(33)SRA.

Usage Guidelines

You can enter any **show pagp** command to display the active port-channel information. To display the nonactive information, enter the **show pagp** command with a group.

The **port-channel number** values from 257 to 282 are supported on the CSM and the FWSM only.

Examples

This example shows how to display information about the PAgP counters:

```
Router#
show pagp
counters

Port          Information      Flush
             Sent    Recv      Sent    Recv
```

```

-----
Channel group: 1
  Fa5/4      2660    2452      0      0
  Fa5/5      2676    2453      0      0
Channel group: 2
  Fa5/6      289     261      0      0
  Fa5/7      290     261      0      0
Channel group: 1023
  Fa5/9      0       0       0      0
Channel group: 1024
  Fa5/8      0       0       0      0
Router#

```

This example shows how to display internal PAgP information:

```

Router# show pagp
1 internal
Flags: S - Device is sending Slow hello.  C - Device is in Consistent state.
      A - Device is in Auto mode.
Timers: H - Hello timer is running.      Q - Quit timer is running.
        S - Switching timer is running.  I - Interface timer is running.
Channel group 1

```

Port	Flags	State	Timers	Hello Interval	Partner Count	PAgP Priority	Learning Method
Fa5/4	SC	U6/S7		30s	1	128	Any
Fa5/5	SC	U6/S7		30s	1	128	Any

```

Router#

```

This example shows how to display PAgP-neighbor information for all neighbors:

```

Router# show pagp
neighbor
Flags: S - Device is sending Slow hello.  C - Device is in Consistent state.
      A - Device is in Auto mode.          P - Device learns on physical port.
Channel group 1 neighbors

```

Port	Partner Name	Partner Device ID	Partner Port	Age	Flags	Partner Group Cap.
Fa5/4	JAB031301	0050.0f10.230c	2/45	2s	SAC	2D
Fa5/5	JAB031301	0050.0f10.230c	2/46	27s	SAC	2D

```

Channel group 2 neighbors

```

Port	Partner Name	Partner Device ID	Partner Port	Age	Flags	Partner Group Cap.
Fa5/6	JAB031301	0050.0f10.230c	2/47	10s	SAC	2F
Fa5/7	JAB031301	0050.0f10.230c	2/48	11s	SAC	2F

```

Channel group 1023 neighbors

```

Port	Partner Name	Partner Device ID	Partner Port	Age	Flags	Partner Group Cap.
------	--------------	-------------------	--------------	-----	-------	--------------------

```

Channel group 1024 neighbors

```

Port	Partner Name	Partner Device ID	Partner Port	Age	Flags	Partner Group Cap.
------	--------------	-------------------	--------------	-----	-------	--------------------

```

Router#

```

Related Commands

Command	Description
pagp learn-method	Learns the input interface of the incoming packets.
pagp port-priority	Selects a port in hot standby mode.

show power inline

To display the power status for a specified port or for all ports, use the **showpowerinline** command in privileged EXEC mode.

show power inline [*interface-type slot/port*] [**actual**|**configured**]

Syntax Description

<i>interface -type</i>	(Optional) Type of interface.
<i>slot</i>	(Optional) Slot number.
<i>/ port</i>	(Optional) Port number.
actual	(Optional) Displays the present power status, which might not be the same as the configured power.
configured	(Optional) Displays the configured power status.

Command Modes

Privileged EXEC

Command History

Release	Modification
12.0(5)XU	This command was introduced.
12.2(2)XT	This command was introduced on the Cisco 2600 series, the Cisco 3600 series, and the Cisco 3700 series routers to support switchport creation.
12.2(8)T	This command was integrated into Cisco IOS Release 12.2(8)T to support switchport creation on Cisco 2600 series, the Cisco 3600 series, and Cisco 3700 series routers.
12.2SX	This command is supported in the Cisco IOS Release 12.2SX train. Support in a specific 12.2SX release of this train depends on your feature set, platform, and platform hardware.
XE 3.8	This command was integrated into Cisco IOS Release XE 3.8(to be changed) to support Cisco 4950 Series ISR-XE routers..

Usage Guidelines

The **showpowerinline** command displays the amount of power used to operate a Cisco IP phone. To view the amount of power requested, use the **showcdpneighbors** command.

Examples

The following is sample output from the **show power inline fa0/4 actual** command asking for the actual status of each interface rather than what is configured for each:

```
Router#  
show power inline fastethernet 0/4 actual  
Interface          Power  
-----  
FastEthernet0/4    no
```

Notice that the status shown for the FastEthernet interface 0/4, there is no power.

Related Commands

Command	Description
power inline	Determines how inline power is applied to devices on the specified Fast Ethernet port.
show cdp neighbors	Displays detailed information about neighboring devices discovered using CDP.

