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CHAPTER 8

Cisco Nexus 5000 Series Fibre Channel Show Commands

This chapter describes the Cisco NX-OS Fibre Channel show commands available on Cisco Nexus 5000 Series switches.

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show cfs

To display Cisco Fabric Services (CFS) information, use the **show cfs** command., show cfs { application [name *app-name*] | lock [name *app-name* [vsan *vsan-id*]] | merge status [name *app-name* [vsan *vsan-id*]] | peers [name *app-name* [vsan *vsan-id*] | regions | status }

Syntax Description

application	Displays locally registered applications.
name <i>app-name</i>	(Optional) Specifies a local application information by name. Maximum length is 64 characters.
lock	Displays the state of application logical or physical locks.
vsan <i>vsan-id</i>	(Optional) Specifies the VSAN ID. The range is 1 to 4093.
merge status	Displays CFS merge information.
peers	Displays logical or physical CFS peers.
regions	Displays the CFS regions.
status	Displays if CFS distribution is enabled or disabled. Enabled is the default configuration.

Command Default

None.

Command Modes

EXEC mode.

Command History

Release	Modification
4.0	This command was introduced.

Usage Guidelines

None.

Examples

The following example shows how to display CFS physical peer information for all applications:

```
switch# show cfs peers
```

The following example shows how to display CFS information for all applications on the switch:

```
switch# show cfs application
```



Note

The **show cfs application** command displays only those applications that are registered with CFS. Conditional services that use CFS do not appear in the output unless those services are running.

The following example shows how to display CFS information for the device alias application:

```
switch# show cfs application name device-alias
```

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The following example shows how to display CFS merge operation information for the device alias application:

```
switch# show cfs merge status device-alias
```

The following example shows whether or not CFS distribution is enabled:

```
switch# show cfs status
```

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show debug npv

To display the N Port Virtualization (NPV) debug commands configured on the switch, use the **show debug npv** command. , show debug npv

Syntax Description This command has no other keywords or arguments.

Command Default None.

Command Modes EXEC mode.

Command History	Release	Modification
	4.0	This command was introduced.

Usage Guidelines The **show debug npv** command is available only when the switch is in NPV mode.

Examples The following example shows all the NPV debug commands available on the switch:

```
switch# show debug npv
```

Related Commands	Command	Description
	debug npv	Enables debugging NPV configurations.

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show device-alias

To display the device name information, use the **show device-alias** command., show device-alias {database | merge status | name *device-name* [pending] | pending | pending-diff | pwwn *pwwn-id* [pending] | session status | statistics | status

Syntax Description	database	Displays the entire device name database.
	merge status	
	name <i>device-name</i>	Displays device name database information for a specific device name.
	pending	Displays the pending device name database information.
	pending-diff	Displays pending differences in the device name database information.
	pwwn <i>pwwn-id</i>	Displays device name database information for a specific pWWN. The format is <i>hh:hh:hh:hh:hh:hh:hh:hh</i> , where <i>h</i> is a hexadecimal number.
	session status	Displays the device name session status.
	statistics	Displays device name database statistics.
	status	Displays the device name database status.

Command Default None.

Command Modes EXEC mode.

Command History	Release	Modification
	4.0	This command was introduced.

Usage Guidelines To make use of fcalias as device names instead of using the cryptic device name, add only one member per fcalias.

Examples The following example shows how to display the contents of the device alias database:

```
switch# show device-alias database
```

The following example shows how to display all global fcalias and all VSAN dependent fcalias:

```
switch# show device-alias name efg
```

The following example shows how to display all global fcalias and all VSAN dependent fcalias:

```
switch# show device-alias statistics
```

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Related Commands	Command	Description
	device-alias name	Configures device alias names.
	device-alias database	Configures device alias information.
	device-alias distribute	Enables device alias CFS distribution.

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show fabric-binding

To display configured fabric binding information, use the **show fabric-binding** command in EXEC mode., **show fabric-binding** { database [active] [vsan *vsan-id*] | efmd statistics [vsan *vsan-id*] | statistics [vsan *vsan-id*] | status [vsan *vsan-id*] | violations [last *number*] }

Syntax Description	database	Displays configured database information.
	active	(Optional) Displays the active database configuration information.
	vsan <i>vsan-id</i>	(Optional) Specifies the FICON-enabled VSAN ID. The range is 1 to 4093.
	efmd statistics	Displays Exchange Fabric Membership Data (EFMD) statistics.
	statistics	Displays fabric binding statistics.
	status	Displays fabric binding status.
	violations	Displays violations in the fabric binding configuration.
	last <i>number</i>	(Optional) Specifies recent violations. The range is 1 to 100.

Command Default None.

Command Modes EXEC mode.

Command History	Release	Modification
	4.0	This command was introduced.

Usage Guidelines None.

Examples The following example displays configured fabric binding database information:

```
switch# show fabric-binding database
```

The following example displays active fabric binding information:

```
switch# show fabric-binding database active
```

The following example displays active VSAN-specific fabric binding information:

```
switch# show fabric-binding database active vsan 61
```

The following example displays configured VSAN-specific fabric binding information:

```
switch# show fabric-binding database vsan 4
```

The following example displays fabric binding statistics:

```
switch# show fabric-binding statistics
```

The following example displays fabric binding status for each VSAN:

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```
switch# show fabric-binding status
```

The following example displays EFMD statistics:

```
switch# show fabric-binding efmd statistics
```

The following example displays EFMD statistics for a specified VSAN:

```
switch# show fabric-binding efmd statistics vsan 4
```

The following example displays fabric binding violations:

```
switch# show fabric-binding violations
```

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show fc2

To display FC2 information, use the **show fc2** command., show fc2 {bind | classf | exchange | exchresp | flogi | nport | plogi | plogi_pwwn | port [brief] | socket | sockexch | socknotify | socknport | vsan}

Syntax Description		
bind		Displays FC2 socket bindings.
classf		Displays FC2 classf sessions.
exchange		Displays FC2 active exchanges.
exchresp		Displays FC2 active responder exchanges.
flogi		Displays FC2 FLOGI table.
nport		Displays FC2 local N ports.
plogi		Displays FC2 PLOGI sessions.
plogi_pwwn		Displays FC2 PLOGI pWWN entries.
port		Displays FC2 physical port table.
brief		Displays FC2 physical port table in brief format.
socket		Displays FC2 active sockets.
sockexch		Displays FC2 active exchanges for each socket.
socknotify		Displays FC2 local N port PLOGI/LOGO notifications for each socket.
socknport		Displays FC2 local nports per each socket.
vsan		Displays FC2 VSAN table.

Command Default None.

Command Modes EXEC mode.

Command History	Release	Modification
	4.0	This command was introduced.

Usage Guidelines None.

Examples The following example displays FC2 active socket information:

```
switch# show fc2 socket
```

The following example displays FC2 socket binding information:

```
switch# show fc2 bind
```

The following example displays FC2 local N port information:

```
switch# show fc2 nport
```

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The following example displays FC2 PLOGI session information:

```
switch# show fc2 plogi
```

The following example displays FC2 physical port information:

```
switch# show fc2 port
```

The following example displays FC2 local N port PLOGI notifications for each socket:

```
switch# show fc2 socknotify
```

The following example displays FC2 local N ports for each socket:

```
switch# show fc2 socknport  
...
```

The following example displays FC2 VSAN table:

```
switch# show fc2 vsan  
....
```

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show fcalias

To display the member name information in a Fibre Channel alias (fcalias), use the **show fcalias** command., show fcalias [name *fcalias-name*] [pending] [vsan *vsan-id*]

Syntax Description	name <i>fcalias-name</i>	(Optional) Displays fcalias information for a specific name. The maximum length is 64.
	pending	(Optional) Displays pending fcalias information.
	vsan <i>vsan-id</i>	(Optional) Displays fcalias information for a VSAN. The range is 1 to 4093.

Command Default	Displays a list of all global fcaliases and all VSAN-dependent fcaliases.
------------------------	---

Command Modes	EXEC mode.
----------------------	------------

Command History	Release	Modification
	4.0	This command was introduced.

Usage Guidelines	To make use of fcaliases as device names instead of using the cryptic device name, add only one member per fcalias.
-------------------------	---

Examples	The following example displays fcalias configuration information: switch# show fcalias vsan 1
-----------------	---

Related Commands	Command	Description
	fcalias name	Configures fcalias names.

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show fcdomain

To display the Fibre Channel domain (fcdomain) information, use the **show fcdomain** command., show fcdomain [address-allocation [cache] | allowed | domain-list | fcid persistent [unused] | **pending** [vsan vsan-id] | **pending-diff** [vsan vsan-id] | **session-status** [vsan vsan-id] | statistics [interface {fc slot/port [vsan vsan-id] } | **san-port-channel** port [vsan vsan-id]] | **status** | vsan vsan-id]

Syntax Description

address-allocation	(Optional) Displays statistics for the FC ID allocation.
cache	(Optional) Reassigns the FC IDs for a device (disk or host) that exited and reentered the fabric for the principal switch. In the cache content, VSAN refers to the VSAN that contains the device, WWN refers to the device that owned the FC IDs, and mask refers to a single or entire area of FC IDs.
allowed	(Optional) Displays a list of allowed domain IDs.
domain-list	(Optional) Displays a list of domain IDs provided by the principal switch.
fcid persistent	(Optional) Displays persistent FC IDs (across reboot).
pending	(Optional) Displays the pending configuration.
pending-diff	(Optional) Displays the difference between the running configuration and the pending configuration.
session-status	(Optional) Displays the last action performed by FC domain.
vsan vsan-id	(Optional) Specifies a VSAN ID. The range is 1 to 4093.
statistics	(Optional) Displays the statistics of FC domain.
interface	(Optional) Specifies an interface.
<i>fc slot/port</i>	(Optional) Specifies a Fibre Channel interface.
san-port-channel port	(Optional) Specifies a SAN port channel interface. The range is 1 to 128.
status	(Optional) Displays all VSAN-independent information in FC domain.

Command Default

None.

Command Modes

EXEC mode.

Command History

Release	Modification
4.0	This command was introduced.

Usage Guidelines

When you enter the **show fcdomain** with no arguments, all VSANs are displayed. The VSANs should be active or you will get an error.

Examples

The following example displays the fcdomain information for VSAN 1:

```
switch# show fcdomain vsan 1
```

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The following example displays the fcdomain domain-list information for VSAN 76:

```
switch# show fcdomain domain-list vsan 76

Number of domains: 3
Domain ID                WWN
-----
0xc8(200)    20:01:00:05:30:00:47:df [Principal]
0x63(99)     20:01:00:0d:ec:08:60:c1 [Local]
0x61(97)     50:00:53:0f:ff:f0:10:06 [Virtual (IVR)]
```

Table 8-1 describes the significant fields shown in the **show fcdomain domain-list** command output.

Table 8-1 *show fcdomain Field Descriptions*

Field	Description
Domain ID	Lists the domain IDs corresponding to the WWN.
WWN	Indicates the WWN of the switch (physical or virtual) that requested the corresponding domain ID.
Principal	Indicates which row of the display lists the WWN and domain ID of the principal switch in the VSAN.
Local	Indicates which row of the display lists the WWN and domain ID of the local switch (the switch where you entered the show fcdomain domain-list command).
Virtual (IVR)	Indicates which row of the display lists the WWN of the virtual switch used by the Inter-VSAN Routing (IVR) manager to obtain the domain ID.

The following example displays the allowed domain ID lists:

```
switch# show fcdomain allowed vsan 1
```

The following example shows the status of CFS distribution for allowed domain ID lists:

```
switch# show fcdomain status
```

The following example displays pending configuration changes:

```
switch# show fcdomain pending vsan 10
```

The following example displays the differences between the pending configuration and the current configuration:

```
switch# show fcdomain pending-diff vsan 10
```

The following example displays the status of the distribution session:

```
switch# show fcdomain session-status vsan 1
```

Related Commands

Command	Description
fcdomain	Configures the Fibre Channel domain feature.

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show fcdroplateny

To display the configured Fibre Channel latency parameters, use the **show fcdroplateny** command.,
show fcdroplateny [network | switch]

Syntax Description

network	(Optional) Network latency in milliseconds.
switch	(Optional) Switch latency in milliseconds.

Command Default

None.

Command Modes

EXEC mode.

Command History

Release	Modification
4.0	This command was introduced.

Usage Guidelines

None.

Examples

The following example displays the configured Fibre Channel latency parameters:

```
switch# show fcdroplateny
```

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show fcflow stats

To display the configured Fibre Channel flow (fcflow) information, use the **show fcflow stats** command., show fcflow stats [aggregated | usage] [index *flow-index*]

Syntax Description	aggregated	(Optional) Displays aggregated fcflow statistics.
	usage	(Optional) Displays flow index usage
	index <i>flow-index</i>	(Optional) Specifies an fcflow index.

Command Default	None.
-----------------	-------

Command Modes	EXEC mode.
---------------	------------

Command History	Release	Modification
	4.0	This command was introduced.

Usage Guidelines	None.
------------------	-------

Examples	The following example displays aggregated fcflow details:
----------	---

```
switch# show fcflow stats aggregated
```

The following example displays fcflow details:
--

```
switch# show fcflow stats
```

The following example displays fcflow index usage:
--

```
switch# show fcflow stats usage
```

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show fcid-allocation

Use the **show fcid allocation** command to display the Fibre Channel area list of company IDs., show fcid-allocation area *l* company-id-from-wwn *wwn* [*company-id*]

Syntax Description

area	Selects the auto area list of company IDs.
company-id-from-wwn <i>wwn</i>	Selects company ID from the specified world wide name (WWN).
<i>company-id</i>	(Optional) Selects the individual company ID (also know as Organizational Unit Identifier, or OUI) to display.

Command Default

None.

Command Modes

EXEC mode.

Command History

Release	Modification
2.0	New command

Examples

The following example shows the Fibre Channel area company list of company IDs:

```
switch# show fcid-allocation area
Fcid area allocation company id info:
```

```
00:50:2E
00:50:8B
00:60:B0
00:A0:B8
00:E0:69
00:E0:8B
00:32:23 +
```

```
Total company ids: 7
+ - Additional user configured company ids.
* - Explicitly deleted company ids from default list.
switch#
```

[Table 8-2](#) describes the significant fields shown in the display.

Table 8-2 *show fcid-allocation area company Field Descriptions*

Field	Description
+	Indicates a company ID added to the default list.
-	Indicates a company ID deleted from the default list.

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show fcns database

To display the results of the discovery, or to display the name server database for a specified VSAN or for all VSANs, use the **show fcns database** command., show fcns database {detail [vsan *vsan-id*] | domain *domain-id* [detail] [vsan *vsan-range*] | fcid *fcid-id* [detail] vsan *vsan-range* | local [detail] [vsan *vsan-range*] | vsan *vsan-id*}

Syntax Description	detail	Displays all objects in each entry.
	vsan <i>vsan-id</i>	(Optional) Displays entries for a specified VSAN ID. The range is 1 to 4093.
	domain <i>domain-id</i>	Displays entries in a domain.
	detail	(Optional) Displays detailed entries for the domain.
	fcid <i>fcid-id</i>	Displays entry for the given port.
	local	Displays local entries.

Command Default None.

Command Modes EXEC mode.

Command History	Release	Modification
	1.2(2)	This command was introduced.

Usage Guidelines The discovery can take several minutes to complete, especially if the fabric is large or if several devices are slow to respond.

Virtual enclosure ports can be viewed using the **show fcns database** command.

Examples The following example displays the contents of the FCNS database:

```
switch# show fcns database
```

The following example displays the detailed contents of the FCNS database:

```
switch# show fcns database detail
```

The following example displays the management VSAN (VSAN 2):

```
switch# show fcns database vsan 2
```

The following example displays the database for all configured VSANs:

```
switch# show fcns database
```

 show fcns database

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Related Commands	Command	Description
	fcns	Configuration-mode command for name server configuration.

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show fcns statistics

To display the statistical information for a specified VSAN or for all VSANs, use the **show fcns statistics** command., show fcns statistics [detail] [vsan *vsan-id*]

Syntax Description	detail	(Optional) Displays detailed statistics.
	vsan <i>vsan-id</i>	(Optional) Displays statistics for the specified VSAN ID. The range is 1 to 4093.

Command Default	None.
------------------------	-------

Command Modes	EXEC mode.
----------------------	------------

Command History	Release	Modification
	4.0	This command was introduced.

Usage Guidelines	None.
-------------------------	-------

Examples	The following example displays statistical information for a specified VSAN: switch# show fcns statistics
-----------------	---

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show fcoe

To display the status of Fibre Channel over Ethernet (FCoE) on the switch, use the **show fcoe** command.,
show fcoe

Syntax Description

This command has no other keywords or arguments.

Command Default

None.

Command Modes

EXEC mode.

Command History

Release	Modification
4.0	This command was introduced.

Usage Guidelines

None.

Examples

The following example displays the FCoE status:

```
switch# show fcoe
```

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show fcroute

Use the **show fcroute** command to view specific information about existing Fibre Channel and FSPF configurations., show fcroute { distance | label [*label*] vsan *vsan-id* | multicast [*fc-id* vsan *vsan-id* | vsan *vsan-id*] | summary [vsan *vsan-id*] | unicast [[*host*] *fc-id* *fc-mask* vsan *vsan-id* | vsan *vsan-id*]}

Syntax Description		
distance		Displays FC route preference.
label		Displays label routes.
<i>label</i>		(Optional) Displays label routes for the specified label.
vsan <i>vsan-id</i>		(Optional) Specifies the ID of the VSAN (from 1 to 4093).
multicast		Displays FC multicast routes.
<i>fc-id</i>		(Optional) Specifies the Fibre Channel ID.
summary		Displays the FC routes summary.
unicast		Displays FC unicast routes.
host		Displays unicast routes for the specified host.
<i>fc-mask</i>		Displays unicast routes for hosts that match the range of FC IDs that is specified by the mask.

Command Default None.

Command Modes EXEC mode.

Command History	Release	Modification
	4.0	This command was introduced.

Usage Guidelines When the number of routes are displayed in the command output, both visible and hidden routes are included in the total number of routes.

Examples The following example displays administrative distance:

```
switch# show fcroute distance
...
```

The following example displays multicast routing information:

```
switch# show fcroute multicast
...
```

The following example displays FCID information for a specified VSAN:

```
switch# show fcroute multicast vsan 3
```

The following example displays FCID and interface information for a specified VSAN:

```
switch# show fcroute multicast 0xffffffff vsan 2
```

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The following example displays unicast routing information:

```
switch# show fcroute unicast
```

The following example displays unicast routing information for a specified VSAN:

```
switch# show fcroute unicast vsan 4
```

The following example displays unicast routing information for a specified FCID:

```
switch# show fcroute unicast 0x040101 0xffffffff vsan 4
```

The following example displays route database information:

```
switch# show fcroute summary
```

The following example displays route database information for a specified VSAN:

```
switch# show fcroute summary vsan 4
```

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show fcs

Use the **show fcs** commands to display the status of the fabric configuration., show fcs { database [vsan *vsan-id*] | ie [nwwn *wwn*] vsan *vsan-id* | platform [name *string*] vsan *vsan-id* | port [pwwn *wwn*] vsan *vsan-id*] | statistics vsan *vsan-id* | vsan }

Syntax Description	database	Displays local database of FCS.
	vsan <i>vsan-id</i>	(Optional) Specifies a VSAN ID. The range is 1 to 4093.
	ie	Displays interconnect element objects information.
	nwwn <i>wwn</i>	(Optional) Specifies a node WWN ID. The format is <i>hh:hh:hh:hh:hh:hh:hh:hh</i> .
	platform	Displays platform objects information.
	name <i>string</i>	(Optional) Specifies a platform name. Maximum length is 255 characters.
	port	Displays port objects information.
	pwwn <i>wwn</i>	(Optional) Specifies a port WWN ID. The format is <i>hh:hh:hh:hh:hh:hh:hh:hh</i> .
	statistics	Displays statistics for FCS packets.
	vsan	Displays list of all the VSANs.

Command Default None.

Command Modes EXEC mode.

Command History	Release	Modification
	4.0	This command was introduced.

Usage Guidelines None.

Examples The following example displays FCS database information:

```
switch# show fcs database
```

The following example displays interconnect element object information for a specific VSAN:

```
switch# show fcs ie vsan 1
```

This command displays interconnect element object information for a specific WWN:

```
switch# show fcs ie nwwn 20:01:00:05:30:00:16:df vsan 1
```

This command displays platform information:

```
switch# show fcs platform name SamplePlatform vsan 1
```

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This command displays platform information within a specified VSAN:

```
switch# show fcs platform vsan 1
```

This command displays FCS port information within a specified VSAN:

```
switch# show fcs port vsan 24
```

This command displays ports within a specified WWN:

```
switch# show fcs port pwwn 20:51:00:05:30:00:16:de vsan 24
```

This command displays FCS statistics:

```
switch# show fcs statistics
```

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show fcsp

To display the status of the Fibre Channel Security Protocol (FC-SP) configuration, use the **show fcsp** commands.

show fcsp [**asciiwnn** *ascii-wnn* | **dhchap** [**database**] | **interface** {**fc** *slot/port* | **vfc** *vig-num/vint-id*} [**statistics** | **wnn**]]

Syntax Description

asciiwnn <i>ascii-wnn</i>	(Optional) Displays the ASCII representation of the WWN used with AAA server.
dhchap	(Optional) Displays the DHCHAP hash algorithm status.
database	(Optional) Displays the contents of the local DHCHAP database.
interface	(Optional) Displays the FC-SP settings for a Fibre Channel or Fibre Channel interface.
fc <i>slot/port</i>	Specifies a Fibre Channel interface.
vfc <i>vig-num/vint-id</i>	(Optional) Specifies a virtual Fibre Channel interface (VIG number and virtual interface ID).
statistics	(Optional) Displays the statistics for the specified interface.
wnn	(Optional) Displays the FC-SP identity of the other device.

Command Default

None.

Command Modes

EXEC mode.

Command History

Release	Modification
4.0	This command was introduced.

Usage Guidelines

None.

Examples

The following example displays DHCHAP configurations in FC interfaces:

```
switch# show fcsp interface fc2/3
```

The following example displays DHCHAP statistics for a FC interfaces:

```
switch# show fcsp interface fc2/3 statistics
```

The following example displays the FC-SP WWN of the device connected through a specified interface:

```
switch# show fcsp interface fc 2/1 wnn
```

The following example displays hash algorithm and DHCHAP groups configured for the local switch:

```
switch# show fcsp dhchap
```

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The following example displays the DHCHAP local password database:

```
switch# show fcsp dhchap database
```

The following example displays the ASCII representation of the device WWN:

```
switch# show fcsp asciiwnn 30:11:bb:cc:dd:33:11:22
```

Related Commands

Command	Description
fcsp enable	Enables the FC-SP feature for this switch.

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show fctimer

To view the Fibre Channel timers (fctimer), use the **show fctimer** command., show fctimer [d_s_tov [vsan vsan-id] | e_d_tov [vsan vsan-id] | f_s_tov [vsan vsan-id] | r_a_tov [vsan vsan-id] | last action status | pending | pending-diff | session status | status | vsan vsan-id]

Syntax Description	d_s_tov	(Optional) Displays the distributed services time out value (D_S_TOV) in milliseconds.
	vsan vsan-id	(Optional) Displays information for a VSAN. The range is 1 to 4093.
	e_d_tov	(Optional) Displays the error detection time out value (E_D_TOV) in milliseconds.
	f_s_tov	(Optional) Displays the fabric stability time out value (F_S_TOV) in milliseconds.
	r_a_tov	(Optional) Displays the resource allocation time out value (R_A_TOV) in milliseconds.
	last action status	(Optional) Displays the status of the last CFS commit or discard operation.
	pending	(Optional) Displays the status of pending fctimer commands.
	pending-diff	(Optional) Displays the difference between pending database and running config.
	session status	(Optional) Displays the state of fctimer CFS session.
	status	(Optional) Displays the Fibre Channel timer status.

Command Default None.

Command Modes EXEC mode.

Command History	Release	Modification
	4.0	This command was introduced.

Usage Guidelines None.

Examples The following example displays configured global TOVs:

```
switch# show fctimer
```

The following example displays configured TOVs for a specified VSAN:

```
switch# show fctimer vsan 10
```

 show fctimer

Send comments to nx5000-docfeedback@cisco.com

Related Commands	Command	Description
	fctimer	Configures fctimer parameters.

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show fdmi

To display the Fabric-Device Management Interface (FDMI) database information, use the **show fdmi** command., **show fdmi database** [**detail** [**hba-id** [*hba-id* **vsan** *vsan-id* | **vsan** *vsan-id*] | **vsan** *vsan-id*] | **suppress-updates**

Syntax Description	database	Displays the FDMI database contents.
	detail	(Optional) Specifies detailed FDMI information.
	hba-id	(Optional) Displays detailed information for the specified HBA entry.
	<i>hba-id</i>	(Optional) Displays detailed information for the specified HBA entry.
	vsan <i>vsan-id</i>	(Optional) Specifies FDMI information for the specified VSAN. The range is 1 to 4093.
	suppress-updates	???

Command Default	None.
------------------------	-------

Command Modes	EXEC mode.
----------------------	------------

Command History	Release	Modification
	4.0	This command was introduced.

Usage Guidelines	None.
-------------------------	-------

Examples	The following example displays all HBA management servers:
-----------------	--

```
switch# show fdmi database
```

The following example displays VSAN1-specific FDMI information:

```
switch# show fdmi database detail vsan 1
```

The following example displays details for the specified HBA entry:

```
switch# show fdmi database detail Hba-id 21:01:00:e0:8b:2a:f6:54 vsan 1
```

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show flogi

To list all the fabric login (FLOGI) sessions through all interfaces across all VSANs, use the **show flogi** command., show flogi {auto-area-list} | database {fcid *fcid-id* | interface {fc *slot/port* | vfc *vig-num/vint-id*} | vsan *vsan-id*}

Syntax Description		
auto-area-list		Displays the list of Organizational Unit Identifiers (OUIs) that are allocated areas.
database		Displays information about FLOGI sessions.
fcid <i>fcid-id</i>		Displays FLOGI database entries based on the FCID allocated. The format is 0xhhhhhh.
interface		Displays FLOGI database entries based on the logged in interface.
fc <i>slot/port</i>		Specifies the Fibre Channel or virtual Fibre Channel interface by slot and port number.
vfc <i>vig-num/vint-id</i>		Specifies a virtual Fibre Channel interface (VIG number and virtual interface ID).
vsan <i>vsan-id</i>		Displays FLOGI database entries based on the VSAN ID. The range is 1 to 4093.

Command Default None.

Command Modes EXEC mode.

Command History	Release	Modification
	4.0	This command was introduced.

Usage Guidelines The output of this command is sorted by interface numbers and then by VSAN IDs.

In a Fibre Channel fabric, each host or disk requires an FCID. Use the **show flogi database** command to verify if a storage device is displayed in the fabric login (FLOGI) table as in the examples below. If the required device is displayed in the FLOGI table, the fabric login is successful. Examine the FLOGI database on a switch that is directly connected to the host HBA and connected ports.

Examples The following example displays details on the FLOGI database:

```
switch# show flogi database
```

The following example displays the FLOGI interface:

```
switch# show flogi database interface fc 2/3
```

The following example displays the FLOGI VSAN:

```
switch# show flogi database vsan 1
```

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The following example displays the FLOGI for a specific FCID:

```
switch# show flogi database fcid 0xef02e2
```

Related Commands

Command	Description
<code>show fcns database</code>	Displays all the local and remote name server entries

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show fspf

To display global Fibre Shortest Path First (FSPF) routing information, use the **show fspf** command.,
 show fspf [database [vsan *vsan-id*] [**detail** | domain *domain-id* detail] | interface | vsan *vsan-id* interface
 [fc *slot/port* | san-port-channel *port-channel*]]

Syntax Description	database	(Optional) Displays the FSPF link state database.
	vsan <i>vsan-id</i>	(Optional) Specifies the VSAN ID. The range is 1 to 4093.
	detail	(Optional) Displays detailed FSPF information.
	domain <i>domain-id</i>	(Optional) Specifies the domain of the database. The range is 0 to 255.
	interface	(Optional) Specifies the FSPF interface.
	fc <i>slot/port</i>	(Optional) Specifies the Fibre Channel interface to configure.
	san-port-channel <i>port-channel</i>	Specifies the port channel interface. The range is 1 to 256.

Command Default	None.
------------------------	-------

Command Modes	EXEC mode.
----------------------	------------

Command History	Release	Modification
	4.0	This command was introduced.

Usage Guidelines	If you enter the command without parameters, all the entries in the database are displayed.
-------------------------	---

Examples	The following example displays FSPF interface information:
-----------------	--

```
switch# show fspf interface vsan 1 fc2/1
```

The following example displays FSPF database information:

```
switch# show fspf database vsan 1
```

This command displays FSPF information for a specified VSAN:

```
switch# show fspf vsan 1
```

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show in-order-guarantee

To display the present configured state of the in-order delivery feature, use the **show in-order-guarantee** command., show in-order-guarantee

Syntax Description	This command has no arguments or keywords.
---------------------------	--

Command Default	None.
------------------------	-------

Command Modes	EXEC mode.
----------------------	------------

Command History	Release	Modification
	4.0	This command was introduced.

Usage Guidelines	None.
-------------------------	-------

Examples	The following example displays the present configuration status of the in-order delivery feature: switch# show in-order-guarantee
-----------------	---

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show interface

You can check the status of an interface at any time by using the **show interface** command., show interface [*interface-range*] [**bbcredit** | **brief** | **capabilities** | **counters** [**brief**] | **description** | **transceiver** [**calibrations** | **details**] | **trunk vsan** [*vsan-id*]]

Syntax Description	
<i>interface-range</i>	(Optional) Displays the type of interface.
bbcredit	(Optional) Displays buffer-to-buffer credit information.
brief	(Optional) Displays brief information.
capabilities	(Optional) Displays hardware port capabilities for a specified interface.
counters	(Optional) Displays the interface counter information.
description	(Optional) Displays the interface description.
transceiver	(Optional) Displays the transceiver information for a specified interface.
calibrations	(Optional) Displays transceiver calibration information for the specified interface.
details	(Optional) Displays detailed transceiver diagnostics information for the specified interface.
trunk vsan	(Optional) Displays the trunking status of all VSANs.
<i>vsan-id</i>	(Optional) Displays the trunking status of the specified VSANs. The range is 1 to 4093.

Command Default Displays information for all interfaces on the switch.

Command Modes EXEC mode.

Command History	Release	Modification
	4.0	This command was introduced.

Usage Guidelines You can specify a range of interfaces by entering a command with the following example format:

interface fc1/1 - 5 , fc2/5 - 7

The spaces are required before and after the dash (-) and before and after the comma (,).

[Table 8-3](#) lists the interface types supported by the **show interface** command.

Table 8-3 Interface Types for the show interface Command

Interface Type	Description
<i>fc slot/port</i>	Displays the Fibre Channel interface in the specified slot/port.
san-port-channel <i>port-channel-number</i>	Displays the SAN port channel interface specified by the SAN port channel number. The range is 1 to 128.

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Table 8-3 **Interface Types for the show interface Command (continued)**

Interface Type	Description
vfc <i>vig-num/vint-id</i>	Displays the virtual Fibre Channel interface in the specified virtual interface group (VIG) and with the specified virtual interface ID.
vsan <i>vsan-id</i>	Displays information for a VSAN. The range is 1 to 4093.

Examples

The following example shows how to display information about a Fibre Channel interface:

```
switch# show interface fc2/3
```

The following example shows how to display information about a VSAN interface:

```
switch# show interface vsan 2
```

The following example shows how to display description information for all interfaces:

```
switch# show interface description
```

The following example shows how to display brief information for a range of interfaces:

```
switch# show interface fc2/1 - 4 brief
```

The following example shows how to display information for SAN port channel 3:

```
switch# show interface san-port-channel 3
```

The following example shows how to display information for a virtual Fibre Channel interface:

```
switch# show interface vfc2/4
```

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show loadbalancing

To display load-balancing status for specific unicast flows, use the **show loadbalancing** command. ,
 show loadbalancing vsan *vsan-id* *source-fcid* *dest-fcid* [*exchange-id*]

Syntax Description		
vsan <i>vsan-id</i>		Displays FLOGI database entries based on the FCID allocated. The format is 0xhhhhhh.
<i>source-fcid</i>		Displays loadbalancing status for the specified source FCID. The format is 0xhhhhhh.
<i>dest-fcid</i>		Displays loadbalancing status for the specified destination FCID. The format is 0xhhhhhh.
<i>exchange-id</i>		(Optional) Displays loadbalancing status for the specified exchange. The format is 0xhhhhhh.

Command Default	None.
------------------------	-------

Command Modes	EXEC mode.
----------------------	------------

Command History	Release	Modification
	4.0	This command was introduced.

Usage Guidelines	None.
-------------------------	-------

Examples	The following example displays the load-balancing information for the specified source and destination in VSAN 3: <pre>switch# show loadbalancing vsan 3 0x3345 0x2546</pre>
-----------------	---

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show lldp

To display information about the Link Layer Discovery Protocol (LLDP) configuration on the switch, use the **show lldp** command.

```
show lldp {interface {ethernet slot/port | mgmt intf-no} | neighbors [detail | interface] | timers | traffic [interface {ethernet slot/port | mgmt intf-no}]}
```

Syntax Description		
interface		Displays LLDP interface information, or LLDP neighbor information on an interface.
ethernet <i>slot/port</i>		Displays the configuration information of the Ethernet IEEE 802.3z interface. The slot number is from 1 to 255, and the port number is from 1 to 128.
mgmt <i>intf-no</i>		Displays the configuration information of the management interface. The management interface number is 0.
neighbors		Displays information about LLDP neighbors.
detail		(Optional) Displays the detailed information about LLDP neighbors.
timers		Displays information about LLDP timers.
traffic		Displays the LLDP counters configured on the switch.

Command Default None

Command Modes EXEC mode

Command History	Release	Modification
	4.0(0)N1(1a)	This command was introduced.

Examples

This example shows how to display LLDP interface information:

```
switch# show lldp traffic interface ethernet 1/1
LLDP interface traffic statistics:

    Total frames transmitted: 7490
    Total entries aged: 0
    Total frames received: 7458
    Total frames received in error: 0
    Total frames discarded: 0
    Total unrecognized TLVs: 0
switch#
```

This example shows how to display LLDP management interface information:

```
switch# show lldp traffic interface mgmt 0
LLDP interface traffic statistics:

    Total frames transmitted: 0
    Total entries aged: 0
```

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```
Total frames received: 0
Total frames received in error: 0
Total frames discarded: 0
Total unrecognized TLVs: 0
switch#
```

This example shows how to display LLDP timers configured on the switch:

```
switch# show lldp timers
LLDP Timers:

    Holdtime in seconds: 120
    Reinit-time in seconds: 2
    Transmit interval in seconds: 30
switch#
```

This example shows how to display LLDP neighbor information:

```
switch# show lldp neighbors
Capability codes:
    (R) Router, (B) Bridge, (T) Telephone, (C) DOCSIS Cable Device
    (W) WLAN Access Point, (P) Repeater, (S) Station, (O) Other

Local Intf  Chassis ID          Port ID          Hold-time  Capability
-----
Eth1/1      000d.eca3.6080      Eth1/1          120        B
Eth1/2      000d.eca3.6080      Eth1/2          120        B
Eth1/3      000d.eca3.6080      Eth1/3          120        B
Eth1/4      000d.eca3.6080      Eth1/4          120        B
Eth1/7      000d.ecf2.0880      Eth1/7          120        B
Eth1/8      000d.ecf2.0880      Eth1/8          120        B
Eth1/9      000d.ecf2.0b40      Eth1/9          120        B
Eth1/10     000d.ecf2.0b40      Eth1/10         120        B
switch#
```

This example shows how to display LLDP information for a specified interface:

```
switch# show lldp interface ethernet 1/1
Interface Information:
    Enable (tx/rx/dcbx): Y/Y/Y      Port Mac address: 00:0d:ec:b2:30:c8

Peer's LLDP TLVs:
Type Length Value
----
001 007 04000dec a36080
002 007 05457468 312f31
003 002 0078
004 009 4e354b2d 506f7274 00
005 013 45756765 6e652d4e 354b2d32 00
006 010 4e354b2d 53776974 6368
007 004 00040004
008 012 05010ac1 8303021a 00000000
128 055 001b2102 020a0000 00000001 00000000 06060000 80000808 080a0000
      80008906 001b2108 04110000 80000001 00003232 00000000 000002
128 005 00014201 01
128 006 0080c201 0001
000 000
switch#
```

This example shows how to display LLDP traffic information:

```
switch# show lldp traffic
LLDP traffic statistics:

    Total frames transmitted: 89743
    Total entries aged: 0
    Total frames received: 59300
```

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```
Total frames received in error: 0
Total frames discarded: 0
Total unrecognized TLVs: 0
switch#
```

Related Commands

Command	Description
lldp	Configures the global LLDP options on the switch.
lldp (Interface)	Configures the LLDP feature on an interface.

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show npv flogi-table

To display the information about N port virtualization (NPV) FLOGI session, use the **show npv flogi-table** command. This command has no other arguments or keywords., show npv flogi-table

Syntax Description

This command has no other keywords or arguments.

Command Default

None.

Command Modes

EXEC mode.

Command History

Release	Modification
4.0	This command was introduced.

Usage Guidelines

The **show npv flogi-table** command is available only when the switch is in NPV mode.

Examples

The following example displays the information on NPV FLOGI session:

```
switch# show npv flogi-table
```

Related Commands

Command	Description
show npv status	Displays the NPV current status.

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show npv status

To display the N port virtualization (NPV) current status, use the **show npv status** command. , show npv status

Syntax Description	This command has no other keywords or arguments.
---------------------------	--

Command Default	None.
------------------------	-------

Command Modes	EXEC mode.
----------------------	------------

Command History	Release	Modification
	4.0	This command was introduced.

Usage Guidelines	The show npv flogi-table command is available only when the switch is in NPV mode.
-------------------------	---

Examples	The following example displays the current status of NPV: switch# show npv status
-----------------	---

Related Commands	Command	Description
	show npv flogi-table	Displays the information about NPV FLOGI session.

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show port index-allocation

To display port index allocation information, use the **show port index-allocation** command., show port {index-allocation [startup]}

Syntax Description

index-allocation	Displays port index allocation information.
startup	(Optional) Displays port index allocation information at startup.

Command Default

None.

Command Modes

EXEC mode.

Command History

Release	Modification
4.0	This command was introduced.

Usage Guidelines



Note

On a switch where the maximum number of port indexes is 256, any module that exceeds that limit does not power up.

Examples

The following example displays port index allocation information at start up:

```
switch# show port index-allocation startup
```

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show port-security

To display configured port security feature information, use the **show port-security database** command., show port-security { database [active [vsan *vsan-id*]] | fwwn *fwwn-id* vsan *vsan-id* | interface { fc *slot/port* | san-port-channel *port* } vsan *vsan-id* | vsan *vsan-id* | pending [vsan *vsan-id*] | pending-diff [vsan *vsan-id*] | session status [vsan *vsan-id*] | statistics [vsan *vsan-id*] | status [vsan *vsan-id*] | violations [last *count* | vsan *vsan-id*]}

Syntax Description

database	Displays database-related port security information.
active	(Optional) Displays the activated database information.
vsan <i>vsan-id</i>	(Optional) Displays information for the specified database.
fwwn <i>fwwn-id</i>	Displays information for the specified fabric WWN.
interface	Displays information for an interface.
fc <i>slot/port</i>	Displays information for the specified Fibre Channel interface.
san-port-channel <i>port</i>	Displays information for the specified SAN port channel interface. The range is 1 to 128.
pending	Displays the server address pending configuration.
pending-diff	Displays the server address pending configuration differences with the active configuration.
session status	Displays the port security session status on a per VSAN basis.
statistics	Displays port security statistics.
status	Displays the port security status on a per VSAN basis.
violations	Displays violations in the port security database.
last <i>count</i>	(Optional) Displays the last number of lines in the database. The range is 1 to 100.

Command Default

None.

Command Modes

EXEC mode.

Command History

Release	Modification
4.0	This command was introduced.

Usage Guidelines

The access information for each port can be individually displayed. If you specify the fabric world wide name (fWWN) or interface options, all devices that are paired in the active database (at that point) with the given fWWN or the interface are displayed.

When you enter the **show port-security** command with the **last** *number* option, only the specified number of entries that appear first are displayed.

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Examples

The following example displays the contents of the port security database:

```
switch# show port-security database
```

The following example displays the output of the active port security database in VSAN 1:

```
switch# show port-security database vsan 1
```

The following example displays the active database:

```
switch# show port-security database active
```

The following example displays the wildcard fWWN port security in VSAN 1:

```
switch# show port-security database fwwn 20:85:00:44:22:00:4a:9e vsan 1
```

The following example displays the configured fWWN port security in VSAN 1:

```
switch# show port-security database fwwn 20:01:00:05:30:00:95:de vsan 1
```

The following example displays the interface port information in VSAN 2.

```
switch# show port-security database interface fc 2/1 vsan 2
```

The following example displays the port security statistics:

```
switch# show port-security statistics
```

The following example displays the status of the active database and the autolearn configuration.

```
switch# show port-security status
```

The following example displays the previous 100 violations.

```
switch# show port-security violations
```

Related Commands

Command	Description
port-security	Configures port security parameters.

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show rlir

To display Registered Link Incident Report (RLIR) information, use the **show rlir** command., **show rlir** {**erl** [*vsan vsan-id*] | **history** | **recent** { **interface** *fc slot/port* | **portnumber** *port-number*} *vsan-id* | **statistics** [*vsan vsan-id*]}

Syntax Description	
erl	
vsan <i>vsan-id</i>	(Optional) Specifies a VSAN ID. The range is 1 to 4093.
history	
recent	
interface <i>fc slot/port</i>	Specifies a Fibre Channel interface.
portnumber <i>port-number</i>	Displays RLIR information for the specified port number.
statistics	Displays RLIR statistics for all VSANs or the specified VSAN.

Command Default	None.
------------------------	-------

Command Modes	EXEC mode.
----------------------	------------

Command History	Release	Modification
	4.0	This command was introduced.

Usage Guidelines	None.
-------------------------	-------

Examples	The following example displays RLIR information for VSAN 1:
-----------------	---

```
switch# show rlir erl vsan 1
```

The following example displays RLIR statistics:

```
switch# show rlir statistics vsan 1
```

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show rscn

To display Registered State Change Notification (RSCN) information, use the **show rscn** command.,
show rscn {event-tov vsan vsan-id | pending vsan vsan-id | pending-diff vsan vsan-id | scr-table [vsan vsan-id] | session status vsan vsan-id | statistics [vsan vsan-id]}

Syntax Description

event-tov	Displays the event timeout value.
vsan vsan-id	Specifies a VSAN ID. The range is 1 to 4093.
pending	Displays the pending configuration.
pending-diff	Displays the difference between the active and the pending configuration.
scr-table	Displays the State Change Registration (SCR) table.
session status	Displays RSCN session status.
statistics	Displays RSCN statistics.

Command Default

None.

Command Modes

EXEC mode.

Command History

Release	Modification
4.0	This command was introduced.

Usage Guidelines

The SCR table cannot be configured. It is only populated if one or more N ports send SCR frames to register for RSCN information. If the **show rscn scr-table** command does not return any entries, no N port is interested in receiving RSCN information.

Examples

The following example displays RSCN information:

```
switch# show rscn scr-table vsan 1
```

The following example displays RSCN statistics:

```
switch# show rscn statistics vsan 1
```

The following example shows the RSCN event timeout value configured on VSAN 1:

```
switch# show rscn event-tov vsan 1
```

The following example shows the difference between the active RSCN configuration and the pending RSCN configuration on VSAN 1:

```
switch# show rscn pending-diff vsan 1
```

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show san-port-channel

Use the **show san-port-channel** command to view information about existing SAN port channel configurations., show san-port-channel { compatibility-parameters | consistency [detail] | database [interface san-port-channel *port-channel-number*] | summary | usage }

Syntax Description	compatibility-parameters	Displays compatibility parameters.
	consistency	Displays the database consistency information of all modules.
	detail	(Optional) Displays detailed database consistency information.
	database	Displays SAN port channel database information.
	interface san-port-channel <i>port-channel-number</i>	(Optional) Specifies the SAN port channel number. The range is 1 to 256.
	summary	Displays SAN port channel summary.
	usage	Displays SAN port channel number usage.

Command Default	None.
------------------------	-------

Command Modes	EXEC mode.
----------------------	------------

Command History	Release	Modification
	4.0	This command was introduced.

Usage Guidelines	None.
-------------------------	-------

Examples	The following example displays the SAN port channel summary:
-----------------	--

```
switch# show san-port-channel summary
```

The following example displays the SAN port channel compatibility parameters:

```
switch# show san-port-channel compatibility-parameters
```

The following example displays the SAN port channel database:

```
switch# show san-port-channel database
```

The following example displays the consistency status of the SAN port channel database:

```
switch# show san-port-channel consistency
```

The following example displays detailed information about the consistency status of the SAN port channel database:
--

```
switch# show san-port-channel consistency detail
```

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The **show san-port-channel usage** command displays details of the used and unused SAN port channel numbers:

```
switch# show san-port-channel usage
```

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show scsi-target

To display information about existing SCSI target configurations, use the **show scsi-target** command.,
 show scsi-target { auto-poll | custom-list | devices [vsan *vsan-id*] [fcid *fcid-id*] | disk [vsan *vsan-id*] [fcid *fcid-id*] | lun [vsan *vsan-id*] [fcid *fcid-id*] | os [aix | all | hpux | linux | solaris | windows] | pwwn | status |
 tape [vsan *vsan-id*] [fcid *fcid-id*] | vsan *vsan-id*}

Syntax Description		
auto-poll		Displays SCSI target auto polling information.
custom-list		Displays customized discovered targets.
devices		Displays discovered SCSI target devices information
vsan <i>vsan-range</i>		(Optional) Specifies the VSAN ID or VSAN range. The ID range is 1 to 4093.
fcid <i>fcid-id</i>		(Optional) Specifies the FCID of the SCSI target to display.
disk		Displays discovered disk information.
lun		Displays discovered SCSI target LUN information.
os		(Optional) Discovers the specified operating system.
aix		(Optional) Specifies the AIX operating system.
all		(Optional) Specifies all operating systems.
hpux		(Optional) Specifies the HPUX operating system.
linux		(Optional) Specifies the Linux operating system.
solaris		(Optional) Specifies the Solaris operating system.
windows		(Optional) Specifies the Windows operating system.
pwwn		Displays discovered pWWN information for each operating system.
status		Displays SCSI target discovery status.
tape		Displays discovered tape information.

Command Default None.

Command Modes EXEC mode.

Command History	Release	Modification
	4.0	This command was introduced.

Usage Guidelines Use the **show scsi-target auto-poll** command to verify automatic discovery of online SCSI targets.

Examples The following example displays the status of a SCSI discovery:

```
switch# show scsi-target status
```

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The following example displays a customized discovered targets:

```
switch# show scsi-target custom-list
```

The following example displays discovered disk information:

```
switch# show scsi-target disk
```

The following example displays the discovered LUNs for all operating systems:

```
switch# show scsi-target lun os all
```

The following example displays the discovered LUNs for the Solaris operating system:

```
switch# show scsi-target lun os solaris
```

The following example displays auto-polling information:

```
switch# show scsi-target auto-poll
```

The following example displays the port WWN that is assigned to each operating system (Windows, AIX, Solaris, Linux, or HP-UX):

```
switch# show scsi-target pwwn
```

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show topology

To display topology information for connected SAN switches, use the **show topology** command., show topology [vsan vsan-id]

Syntax Description	vsan <i>vsan-id</i> (Optional) Displays information for a VSAN. The range is 1 to 4093.	
Command Default	None.	
Command Modes	EXEC mode.	
Command History	Release	Modification
	Release 4.0	This command was introduced.
Usage Guidelines	None.	
Examples	The following example displays topology information: switch# show topology	

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show trunk protocol

To display trunk protocol status, use the **show trunk protocol** command., show trunk protocol

Syntax Description	This command has no arguments or keywords.
---------------------------	--

Command Default	None.
------------------------	-------

Command Modes	EXEC mode.
----------------------	------------

Command History	Release	Modification
	4.0	This command was introduced.

Usage Guidelines	None.
-------------------------	-------

Examples	The following example displays trunk protocol status: <pre>switch# show trunk protocol Trunk protocol is enabled</pre>
-----------------	--

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show vig

To display configuration details for a virtual interface group, use the **show vig** command., show vig *vig-num*

Syntax Description	<i>vig-num</i> Virtual interface group number.				
Command Default	None.				
Command Modes	EXEC mode.				
Command History	<table><tr><th>Release</th><th>Modification</th></tr><tr><td>4.0</td><td>This command was introduced.</td></tr></table>	Release	Modification	4.0	This command was introduced.
Release	Modification				
4.0	This command was introduced.				
Usage Guidelines	None.				
Examples	The following example displays information about the specified VIG: <pre>switch# show vig 1</pre>				

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show vsan

To display information about configured VSAN, use the **show vsan** command., show vsan [*vsan-id* [*membership*] | membership [*interface* {*fc slot/port* | *san-port-channel port* | **vfc** *vig-num/vint-id*}] | usage]

Syntax Description

<i>vsan-id</i>	(Optional) Displays information for the specified VSAN ID. The range is 1 to 4093.
membership	(Optional) Displays membership information.
interface (Optional)	(Optional) Specifies the interface type.
fc <i>slot/port</i>	(Optional) Specifies a Fibre Channel interface.
san-port-channel <i>portchannel-number</i> . <i>subinterface-number</i>	(Optional) Specifies a SAN port channel interface specified by the port channel number.
vfc <i>vig-num/vint-id</i>	(Optional) Specifies a virtual Fibre Channel interface (VIG number and virtual interface ID).
usage	(Optional) Displays VSAN usage in the system.

Command Default

None.

Command Modes

EXEC mode.

Command History

Release	Modification
4.0	This command was introduced.

Usage Guidelines

When you enter the **show vsan membership interface** command, interface information is displayed for interfaces that are configured in this VSAN.

The interface range must be in ascending order and non-overlapping. You can specify a range using a hyphen and several interfaces using commas:

- The interface range format for an FC interface range is **fcslot/port - port , fcslot/port , fcslot/port**

For example, **show int fc1/1 - 3 , fc1/5 , fc2/5**

- The format for a SAN port channel is **san-port-channel portchannel-number**

For example, **show int san-port-channel 5**

Examples

The following example displays configured VSAN information:

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```
switch# show vsan 1
```

The following example displays membership information for all VSANs.

```
switch # show vsan membership
```

The following example displays membership information for a specified interface:

```
switch # show vsan membership interface fc1/1
```

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show wwn

To display the status of the WWN configuration, use the **show wwn** command., show wwn {status [block-id *number*] | switch | vsan-wwn}

Syntax Description

status	Displays a summary of WWN usage and alarm status.
block-id <i>number</i>	(Optional) Displays WWN usage and alarm status for a block ID. The range is 34 to 1793.
switch	Displays switch WWN.
vsan-wwn	Displays all user-configured VSAN WWNs.

Command Default

None.

Command Modes

EXEC mode.

Command History

Release	Modification
4.0	This command was introduced.

Usage Guidelines

None.

Examples

The following example displays the WWN of the switch:

```
switch# show wwn switch
```

The following example displays a user-configured VSAN WWN:

```
switch# show wwn vsan-wwn
```

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show zone

To display zone information, use the **show zone** command., show zone

```
[active [vsan vsan-id] | analysis { active vsan vsan-id | vsan vsan-id | zoneset zoneset-name } | ess [vsan vsan-id] | member { fcalias alias-name | fcid fcid-id [lun lun-id] | pwwn wwn [lun lun-id] } [active] [vsan vsan-id] | name string [pending] [active] [vsan vsan-id] | pending [active] [vsan vsan-id] | pending-diff [vsan vsan-id] | policy [pending] [vsan vsan-id] | statistics [vsan vsan-id] | status [vsan vsan-range] vsan vsan-id]
```

Syntax Description

active	Displays zones which are part of active zone set.
vsan <i>vsan-id</i>	Displays zones belonging to the specified VSAN ID. The range is 1 to 4093.
analysis	Displays analysis of the zone database.
active	Displays analysis of the active zone database.
vsan	Displays analysis of the zone database for the specified VSAN.
zoneset	Displays analysis of the zoneset.
ess	Displays ESS information.
member	Displays all zones in which the given member is part of.
name	Displays members of a specified zone.
pending	Displays members of a specified zone in the current session.
pending-diff	Displays pending changes to the zone database.
statistics	Displays zone server statistics.
status	Displays zone server current status.

Command Default

None.

Command Modes

EXEC mode.

Command History

Release	Modification
4.0	This command was introduced.

Usage Guidelines

None.

Examples

The following example displays configured zone information:

```
switch# show zone
```

The following example displays zone information for a specific VSAN:

```
switch# show zone vsan 1
```

The following example displays members of a specific zone:

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```
switch# show zone name Zone1
```

The following example displays all zones to which a member belongs using the FCID:

```
switch# show zone member pwwn 21:00:00:20:37:9c:48:e5
```

The following example displays the number of control frames exchanged with other switches:

```
switch# show zone statistics
```

The following example displays the status of the configured zones:

```
switch# show zone status
```

The following example checks the status of the **zoneset distribute vsan** command and displays the default zone attributes of a specific VSAN or all active VSANs:

```
switch# show zone status vsan 1
VSAN:1 default-zone:deny distribute:active only Interop:default
      mode:basic merge-control:allow session:none
      hard-zoning:enabled
Default zone:
      qos:low broadcast:disabled ronly:disabled
Full Zoning Database :
      Zonesets:0 Zones:0 Aliases:0
Active Zoning Database :
      Database Not Available
Status:
```

[Table 8-4](#) describes the significant fields shown in the **show zone status vsan** display.

Table 8-4 *show zone status Field Descriptions*

Field	Description
VSAN:	VSAN number displayed.
default-zone:	Default-zone policy either permit or deny.
Default zone:	The Default zone field displays the attributes for the specified VSAN. The attributes include: Qos level, broadcast zoning enabled/disabled, and read-only zoning enabled/disabled.
distribute:	Distribute full-zone set (full) or active-zone set (active only).
Interop:	Displays interop mode. 100 = default, 1 = standard, 2 and 3 = Non-Cisco vendors.
mode:	Displays zoning mode either basic or enhanced.
merge control:	Displays merge policy either allow or restrict.
Hard zoning is enabled	If hardware resources (TCAM) becomes full, hard zoning is automatically disabled.
Full Zoning Database:	Displays values of zone database.
Active Zoning Database:	Displays values of active zone database.
Status:	Displays status of last zone distribution.

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show zone analysis

To display detailed analysis and statistical information about the zoning database, use the **show zone analysis** command., `show zone analysis {active vsan vsan-id | vsan vsan-id | zoneset name vsan vsan-id}`

Syntax Description	active	Displays analysis information for the active zone set.
	vsan <i>vsan-id</i>	Displays analysis information for the specified VSAN ID. The range is 1 to 4093.
	zoneset <i>name</i>	Displays zone set analysis information for the specified zone set.

Command Default None.

Command Modes EXEC mode.

Command History	Release	Modification
	4.0	This command was introduced.

Usage Guidelines None.

Examples The following example displays detailed statistics and analysis of the active zoning database:

```
switch# show zone analysis active vsan 1
```

The following example displays detailed statistics and analysis of the full zoning database:

```
switch# sh zone analysis vsan 1
Zoning database analysis vsan 1
Full zoning database
  Last updated at: 14:36:56 UTC Oct 04 2005
  Last updated by: Local [CLI / SNMP / GS / CIM / INTERNAL] or
                  Merge [interface] or
                  Remote [Domain, IP-Address]
                  [Switch name]

  Num zonesets: 1
  Num zones: 1
  Num aliases: 0
  Num attribute groups: 0
  Formatted database size: < 1 Kb / 2000 kb ( < 1% usage)

Unassigned zones:
  zone name z1 vsan 1
```

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Table 8-5 describes the fields displayed in the output of a **show zone analysis** command for the full zoning database.

Table 8-5 *show zone analysis Field Descriptions for the Full Zoning Database*

Field	Description
Last updated at	Displays a time stamp showing when the full zoning database was last updated.
Last Updated by	Displays the agent that most recently modified the full zoning database. The agent can be one of the following three types: - Local: indicates that the full database was last modified locally through a configuration change from one of the following applications: - CLI—The full zoning database was modified by the user from the command line interface. - SNMP—The full zoning database was modified by the user through the Simple Network Management Protocol (SNMP). - GS—The full zoning database was modified from the Generic Services (GS) client. - CIM—The full zoning database was modified by the applications using the Common Information Model (CIM). - INTERNAL—The full zoning database was modified as a result of an internal activation either from Inter-VSAN Routing (IVR) or from the IP storage services manager. - Merge—Indicates that the full database was last modified by the Merge protocol. In this case, the interface on which the merge occurred is also displayed. - Remote—Indicates that the full database was last modified by the Change protocol, initiated by a remote switch, when the full zone set distribution was enabled. The domain, IP address, and switch name of the switch initiating the change are also displayed.  Note The switch name is displayed on the next line, aligned with the domain, only if the switch name is set. The default switch name <i>switch</i> and the <i>ip-address</i> are not displayed.
Num zonesets	Displays the total number of zone sets in the database.
Num zones	Displays the total number of zones in the database, including unassigned zones.
Num aliases	Displays the total number of aliases in the database, including unassigned FC aliases.
Num attribute groups	Displays the total number of attribute groups in the database. This field applies only when enhanced zoning is used.

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Table 8-5 *show zone analysis Field Descriptions (continued)for the Full Zoning Database*

Field	Description
Formatted database size	Displays the total size of the full database when formatted to be sent over the wire. The formatted database size is displayed in kilobytes in this format: < X KB / Y KB, as in the following example: Formatted database size: < 1 KB/2000 KB In this example, the formatted database size is less than 1 KB out of the maximum size of 2000 KB.
Unassigned zones	Displays all the unassigned zones in the VSAN. Only the names of the zones are displayed. The details about the members of the zone are not displayed in this section.

The following example displays zone set analysis information:

```
switch# show zone analysis zoneset zs1 vsan 1
```

Related Commands

Command	Description
zone compact database	Compacts a zone database in a VSAN.

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show zoneset

To display the configured zone sets, use the **show zoneset** command., show zoneset [**active** [**vsan** *vsan-id*]] | [**brief** [**active** [**vsan** *vsan-id*] | **vsan** *vsan-id*]] | [**name** *zoneset-name* [**active** **vsan** *vsan-id*] | [**brief** [**active** **vsan** *vsan-id* | **vsan** *vsan-id*] | [**pending** [**active** **vsan** *vsan-id* | **brief** [**active** **vsan** *vsan-id* | **vsan** *vsan-id*] | **vsan** *vsan-id*]] | [**vsan** *vsan-id*]] | [**pending** [**active** **vsan** *vsan-id*] | [**brief** [**active** **vsan** *vsan-id* | **vsan** *vsan-id*]] | [**vsan** *vsan-id*]] | [**vsan** *vsan-id*]]

Syntax Description

active	(Optional) Displays only active zone sets.
vsan	(Optional) Displays the VSAN.
<i>vsan-id</i>	Specifies the ID of the VSAN. The range is 1 to 4093
brief	(Optional) Displays zone set members in a brief list.
name	(Optional) Displays members of a specified zone set.
<i>zoneset-name</i>	Specifies the zone set name. The maximum is 64.
pending	(Optional) Displays zone sets members that are in session.

Command Default

None.

Command Modes

EXEC mode.

Command History

Release	Modification
4.0	This command was introduced.

Usage Guidelines

None.

Examples

The following example displays configured zone set information:

```
switch# show zoneset vsan 1
```

The following example displays configured zone set information for a specific VSAN:

```
switch# show zoneset vsan 2-3
```