



Show Commands

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show snmp host

To display the Simple Network Management Protocol (SNMP) host information, use the `show snmp host` command.

```
show snmp host
```

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes EXEC mode

Command History

Release	Modification
6.0(2)N1(1)	This command was introduced.

Examples This example shows how to display the SNMP host:

```
switch# show snmp host
```

Related Commands

Command	Description
snmp-server host	Configures an SNMP host.

show snmp sessions

To display the current Simple Network Management Protocol (SNMP) sessions, use the `show snmp sessions` command.

```
show snmp sessions
```

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes EXEC mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the SNMP sessions:

```
switch# show snmp sessions
```

Related Commands	Command	Description
	show running-config snmp	Displays the running configuration information about SNMP.

show snmp trap

To display the Simple Network Management Protocol (SNMP) link trap generation information, use the show snmp trap command.

```
show snmp trap
```

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes EXEC mode

Release	Modification
6.0(2)N1(1)	This command was introduced.

Examples This example shows how to display the SNMP traps:

```
switch# show snmp trap
```

```
-----
```

Trap type	Description	Enabled
entity	: entity_mib_change	Yes
entity	: entity_module_status_change	Yes
entity	: entity_power_status_change	Yes
entity	: entity_module_inserted	Yes
entity	: entity_module_removed	Yes
entity	: entity_unrecognised_module	Yes
entity	: entity_fan_status_change	Yes
link	: linkDown	Yes
link	: linkUp	Yes
link	: IETF-extended-linkDown	Yes
link	: IETF-extended-linkUp	Yes
link	: cisco-extended-linkDown	Yes
link	: cisco-extended-linkUp	Yes
callhome	: event-notify	No
callhome	: smtp-send-fail	No
cfs	: state-change-notif	No
cfs	: merge-failure	No
rf	: redundancy_framework	Yes
aaa	: server-state-change	No
license	: notify-license-expiry	Yes
license	: notify-no-license-for-feature	Yes
license	: notify-licensefile-missing	Yes
license	: notify-license-expiry-warning	Yes
zone	: unsupp-mem	No
upgrade	: UpgradeOpNotifyOnCompletion	Yes
upgrade	: UpgradeJobStatusNotify	Yes
feature-control	: FeatureOpStatusChange	No
sysmgr	: cseFailSwCoreNotifyExtended	No
rmon	: risingAlarm	No
rmon	: fallingAlarm	No
rmon	: hcRisingAlarm	No
rmon	: hcFallingAlarm	No

show snmp trap

```
config          : ccmCLIRunningConfigChanged      No
snmp            : authentication                  No
bridge         : topologychange                   No
bridge         : newroot                          No
stp            : inconsistency                     No
stp            : loop-inconsistency               No
stp            : root-inconsistency               No
switch#
```

Related Commands

Command	Description
snmp trap link-status	Enables SNMP link trap generation.

show snmp user

To display information on each Simple Network Management Protocol (SNMP) user, use the show snmp user command.

```
show snmp user
```

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes EXEC mode

Release	Modification
6.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the SNMP users configured on the switch:

```
switch# show snmp user

SNMP USERS
-----
User                               Auth  Priv(enforce) Groups
-----
admin                               md5   des(no)         network-admin

NOTIFICATION TARGET USERS (configured for sending V3 Inform)
-----
User                               Auth  Priv
-----
switch#
```

This example shows how to display information about a specific SNMP user:

```
switch# show snmp user admin

switch#
```

Related Commands	Command	Description
	snmp-server user	Configures a new user to an SNMP group.

show system mode

To display the current system mode, use the show system mode command. Starting with Cisco NX-OS Release 7.3(0)N1(1), you can use the show system mode command to also display the current state of the maintenance mode timer when the switch is in maintenance mode

```
show system mode
```

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes Any command mode

Release	Modification
7.3(0)N1(1)	Supports display of current state of the maintenance mode timer when the switch is in maintenance mode.
7.1.0	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display the current system mode:

```
switch# show system mode
```

```
System Mode : Normal
```

This example shows how to display the current system mode and the state of the maintenance mode timer when the switch is in maintenance mode:

```
switch# show system mode
```

```
System Mode: Maintenance
Maintenance Mode Timer: 24 minutes 55 seconds remaining
```

This example shows that the switch is in maintenance mode and that the maintenance mode timer is not running:

```
switch# show system mode
```

```
System Mode: Maintenance
Maintenance Mode Timer: not running
```

Related Commands

Command	Description
show run mmode	Displays the currently running maintenance profile configuration on a switch.

Command	Description
system mode maintenance always-use-custom-profile	Applies the existing custom maintenance-mode profile and prevents creation of auto-generated maintenance-mode profile.
system mode maintenance on-reload reset-reason	Boots the switch into maintenance-mode automatically in the event of a specified system crash.
system mode maintenance shutdown	Shuts down all protocols and interfaces except the management interface (by using the shutdown command and not the default isolate command).
system mode maintenance timeout	Configures the maintenance window timer to keep the switch in maintenance mode for a specified number of minutes.

show tech-support mmode

To display information for maintenance profile troubleshooting, use the show tech-support mmode command.

```
show tech-support mmode
```

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes Privileged EXEC

Command History	Release	Modification
	7.3(0)N1(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display information for maintenance profile troubleshooting:

```
switch# show tech-support mmode
`show system mode`
System Mode: Normal
`show maintenance profile`
[Normal Mode]
router bgp 100
  no isolate
[Maintenance Mode]
router bgp 100
  isolate
`show maintenance on-reload reset-reasons`
Reset reasons for on-reload maintenance mode:
-----
(not configured)
bitmap = 0x0
`show maintenance timeout`
Maintenance mode timeout value: 0 minutes
`show system internal mmode mem-stats`
Num blocks      User size      Total size      Library
-----
      16             560           800      mmode
     265          51818          55824      ld-2.8.so
       1             20            32      libdl-2.8.so
       1             38            56      libpthread-2.8.so
      12           2860          3056      libsviifdb.so.0.0.0
```

Related Commands

Command	Description
system mode maintenance always-use-custom-profile	Applies the existing custom maintenance-mode profile and prevents creation of auto-generated maintenance-mode profile.
system mode maintenance on-reload reset-reason	Boots the switch into maintenance-mode automatically in the event of a specified system crash.

Command	Description
system mode maintenance shutdown	Shuts down all protocols and interfaces except the management interface (by using the shutdown command and not the default isolate command).
system mode maintenance timeout	Configures the maintenance window timer to keep the switch in maintenance mode for a specified number of minutes.

show diagnostic bootup level

To display the current bootup diagnostic level on the switch, use the show diagnostic bootup level command.

```
show diagnostic bootup level
```

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes EXEC mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the current bootup diagnostic level:

```
switch# show diagnostic bootup level

      Current bootup diagnostic level: complete
switch#
```

Related Commands	Command	Description
	diagnostic bootup level	Configures the bootup diagnostic level for a faster module bootup time.
	show diagnostic result	Displays the results of the diagnostics tests.

show diagnostic result

To display the results of the diagnostic tests, use the show diagnostic result command.

```
show diagnostic result module module-no | all
```

Syntax Description	
module	Specifies the module for which diagnostic results are displayed.
module-no	Module number. Valid values are 1 to 3.
all	Displays the diagnostic results for all modules.

Command Default None

Command Modes EXEC mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the diagnostic results for a specific module:

```
switch# show diagnostic result module 1

Current bootup diagnostic level: complete
Module 1: 48X10GE/Supervisor SerialNo : JAF1339ANGH
Overall Diagnostic Result for Module 1 : PASS
Diagnostic level at card bootup: complete
Test results: (. = Pass, F = Fail, I = Incomplete,
              U = Untested, A = Abort)
  1) TestUSBFlash -----> .
  2) TestSPROM -----> .
  3) TestPCIE -----> .
  4) TestLED -----> .
  5) TestOBFL -----> .
  6) TestNVRAM -----> .
  7) TestPowerSupply -----> F
  8) TestTemperatureSensor -----> .
  9) TestFan -----> .
 10) TestVoltage -----> .
 11) TestGPIO -----> .
 12) TestInbandPort -----> .
 13) TestManagementPort -----> .
 14) TestMemory -----> .
 15) TestFabricEngine :
Eth   1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Port -----
      .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .
Eth  25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
Port -----
      .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .
 16) TestFabricPort :
Eth   1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Port -----
```

```

Eth  25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
Port -----
. . . . .
17) TestForwardingEngine :
Eth  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Port -----
. . . . .
Eth  25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
Port -----
. . . . .
18) TestForwardingEnginePort :
Eth  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Port -----
. . . . .
Eth  25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
Port -----
. . . . .
19) TestFrontPort :
Eth  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Port -----
. . . . .
Eth  25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
Port -----
. . . . .
switch#

```

Related Commands

Command	Description
diagnostic bootup level	Configures the bootup diagnostic level for a faster module bootup time.
show diagnostic bootup level	Displays the bootup diagnostics level.

show flow exporter

To display the Flexible NetFlow flow exporter status and statistics, use the show flow exporter command.

```
show flow exporter [name exporter-name]
```

Syntax Description	name exporter-name	(Optional) Specifies the name of a flow exporter. The name can be any case-sensitive, alphanumeric string up to 64 characters.
---------------------------	--------------------	--

Command Default Information for all flow exporters configured on the router is displayed.

Command Modes Any command mode

Command History	Release	Modification
	7.0(0)N1(1)	This command was introduced.

Usage Guidelines You must have already enabled traffic monitoring with Flexible NetFlow using an exporter before you can use the show flow exporter command.

This command does not require a license.

Examples

This example shows how to display the status and statistics for all of the flow exporters configured on the router:

```
switch# show flow exporter
Flow Exporter NFC-DC-PHOENIX:
Export Version 5
Exporter Statistics
  Number of Flow Records Exported 0
  Number of Export Packets Sent 0
  Number of Export Bytes Sent 0
  Number of Destination Unreachable Events 0
  Number of No Buffer Events 0
  Number of Packets Dropped (No Route to Host) 0
  Number of Packets Dropped (other) 0
  Number of Packets Dropped (LC to RP Error) 0
  Number of Packets Dropped (Output Drops) 0
  Time statistics were last cleared: Never
Flow exporter timeout:
Export Version 5
Exporter Statistics
  Number of Flow Records Exported 0
  Number of Export Packets Sent 0
  Number of Export Bytes Sent 0
  Number of Destination Unreachable Events 0
  Number of No Buffer Events 0
  Number of Packets Dropped (No Route to Host) 0
  Number of Packets Dropped (other) 0
  Number of Packets Dropped (LC to RP Error) 0
  Number of Packets Dropped (Output Drops) 0
  Time statistics were last cleared: Never
Flow exporter test-exporter:
  Description: test server in San Jose CA
```

```

Export Version 5
Exporter Statistics
  Number of Flow Records Exported 0
  Number of Export Packets Sent 0
  Number of Export Bytes Sent 0
  Number of Destination Unreachable Events 0
  Number of No Buffer Events 0
  Number of Packets Dropped (No Route to Host) 0
  Number of Packets Dropped (other) 0
  Number of Packets Dropped (LC to RP Error) 0
  Number of Packets Dropped (Output Drops) 0
  Time statistics were last cleared: Never

```

Related Commands

Command	Description
clear flow exporter	Clears the statistics for exporters.
destination	Configures an export destination for flow exporters.
dscp	Configures optional differentiated services code point (DSCP) parameters for flow exporters.
flow exporter	Creates a flow exporter.
option	Configure options for flow exporters.
show flow exporter	Displays flow exporter status and statistics.
source	Configures the source IP address interface for flow exporters.
template	Configures the template resend timeout for flow exporters.
transport	Configures the transport protocol for flow exporters.

show flow interface

To display the Flexible NetFlow configuration and status for an interface, use the show flow interface command.

```
show flow interface [interface-type number]
```

Syntax Description

interface-type number	(Optional) Type of interface that you want to view Flexible NetFlow accounting configuration information on.
-----------------------	--

Command Default

Information for the Flexible NetFlow accounting configuration on the interface is displayed.

Command Modes

Any command mode

Command History

Release	Modification
7.0(0)N1(1)	This command was introduced.

Usage Guidelines

You must have already enabled traffic monitoring with Flexible NetFlow before you can use the show flow interface command.

This command does not require a license.

Examples

This example shows how to display the Flexible NetFlow accounting configuration on interface Ethernet 1/30:

```
switch# show flow interface ethernet 1/30

Interface Ethernet1/30
  Monitor:          m1
  Direction: Input
  Traffic(IPv4): sampler SAMPLER-2#
```

Table 1 describes the significant fields shown in the display.

Table 1: show flow interface Field Descriptions

Field	Description
Interface	The interface that information is applicable to.
monitor	The name of the flow monitor that is configured on the interface.
direction:	The direction of traffic the flow monitor is monitoring.
traffic (ip)	Indicates if the flow monitor is in normal mode or sampler mode. The possible values are as follows: <ul style="list-style-type: none"> • On—The flow monitor is in normal mode. • Sampler— The flow monitor is in sampler mode (the name of the sampler is included in the display).

Related Commands

Command	Description
show flow sampler	Displays flow sampler status and statistics.

show flow record

To display the status and statistics of a Flexible NetFlow flow record, use the show flow record command.

```
show flow record [[name record-name] [netflow ipv4 | ipv6 record | layer2-switched input | protocol-port]
| netflow-original]
```

Syntax Description	
name record-name	(Optional) Specifies the name of a flow record that you previously configured.
netflow record	(Optional) Configures the flow monitor to use one of the predefined records. See Table 2: Keywords and Descriptions for the record Argument, on page 19 for a listing of the available records and their definitions.
layer2-switched input	(Optional) Configures the flow monitor to use the Layer 2 switched collection scheme records.
protocol-port	(Optional) Configures the flow monitor to use protocol and ports aggregation records.
netflow-original	(Optional) Specifies the Flexible NetFlow implementation of original NetFlow with origin autonomous systems.

Command Default Information for all flow exporters configured on the router is displayed.

Command Modes Any command mode

Command History	Release	Modification
	7.0(0)N1(1)	This command was introduced.

Usage Guidelines You must have already enabled traffic monitoring with Flexible NetFlow using an exporter before you can use the show flow exporter command.

Table 2 describes the keywords and descriptions for the record argument.

Table 2: Keywords and Descriptions for the record Argument

original-input	Traditional IPv4 input NetFlow.
original-output	Traditional IPv4 output NetFlow.

This command does not require a license.

Examples

This example shows how to display the status and statistics of the original input NetFlow record:

```
switch# show flow record netflow ipv4 original-input
```

```
Flow record ipv4 original-input:
  Description: Traditional IPv4 input NetFlow
  No. of users: 0
  Template ID: 0
  Fields:
```

```

match ipv4 source address
match ipv4 destination address
match ip protocol
match ip tos
match transport source-port
match transport destination-port
match interface input
collect routing source as
collect routing destination as
collect routing next-hop address ipv4
collect transport tcp flags
collect counter bytes
collect counter packets
collect timestamp sys-uptime first
collect timestamp sys-uptime last
collect interface output
switch#

```

Table 3 describes the significant fields shown in the display.

Table 3: show flow record netflow-original Field Descriptions

Field	Description
Description	The description that you configured for the record or the default description—User defined.
No. of users	The number of references to this record in the configuration.
Fields	The fields that are included in this record. For more information on the fields, refer to the match and collect commands.

Related Commands

Command	Description
exporter	Specifies a flow exporter for flow monitors.
flow monitor	Creates a flow monitor.
record	Configures a flow record for the flow monitor.
record	Configures a flow record a for flow monitor.

show flow timeout

To display the Flexible NetFlow flow cache timeout values, use the show flow timeout command.

```
show flow timeout
```

Syntax Description This command has no arguments or keywords.

Command Default Information for the Flexible NetFlow accounting configuration on the interface is displayed.

Command Modes Any command mode

Command History	Release	Modification
	7.0(0)N1(1)	This command was introduced.

Usage Guidelines You must have already enabled traffic monitoring with Flexible NetFlow before you can use the show flow timeout command.

This command does not require a license.

Examples

This example shows how to display the Flexible NetFlow flow cache timeout values:

```
switch# show flow timeout
Flow timeout values
  Active timeout:           1800 seconds
  Inactive timeout:        15 seconds
  Flush Cache timeout      15 seconds
  Fast timeout:            Disabled
  Session aging timeout:   Disabled
  Aggressive aging timeout: Disabled
switch#
```

Related Commands	Command	Description
	flow timeout	Creates a flow timeout.

show hosts

To display the Domain Name Server (DNS) name servers and domain names, use the show hosts command.

```
show hosts
```

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes EXEC mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the IP addresses of the DNS servers that are used to resolve host names:

```
switch# show hosts
DNS lookup enabled
Default domain for vrf:default is mysite.com
Name/address lookup uses domain service
Name servers are 255.255.255.255
Vrf                Use-vrf           Token             Config
default            management        domain            mysite.com
default            management        add. domain(s)   mysite2.com
Host                Address
```

Related Commands

Command	Description
ip domain-list	Defines a list of domains.
ip domain lookup	Enables DNS-based host name-to-address translation.
ip domain-name	Configures a name server.

show ip dns source-interface

To display the source interfaces configured for Domain Name Server (DNS) domain lookup, use the `show ip dns source-interface` command.

```
show ip dns source-interface [vrf vrf-name | all | default | management]
```

Syntax Description		
vrf	(Optional)	Displays information about the virtual routing and forwarding (VRF) instance.
vrf-name	(Optional)	VRF name. The name is case sensitive and can be a maximum of 32 characters.
all	(Optional)	Displays all VRF instances.
default	(Optional)	Displays the default VRF information.
management	(Optional)	Displays the management VRF information.

Command Default None

Command Modes EXEC mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display the source interfaces configured for DNS domain lookup:

```
switch# show ip dns source-interface
VRF Name          Interface
default           Ethernet1/5
switch#
```

Related Commands	Command	Description
	ip domain-lookup	Enables the DNS lookup feature.
	ip dns source-interface	Configures interfaces for DNS domain lookup.

show logging console

To display the console logging configuration, use the show logging console command.

```
show logging console
```

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes EXEC mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the console logging configuration:

```
switch# show logging console
```

Related Commands	Command	Description
	logging console	Configures logging to the console.

show logging info

To display the logging configuration, use the show logging info command.

```
show logging info
```

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes EXEC mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the logging configuration:

```
switch# show logging info
```

Related Commands	Command	Description
	logging level	Enables logging messages from a defined facility.

show logging last

To display the last number of lines of the logfile, use the show logging last command.

```
show logging last number
```

Syntax Description

number	Enters the number of lines to display from 1 to 9999.
--------	---

Command Default

None

Command Modes

EXEC mode

Command History

Release	Modification
6.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the last 42 lines of the log file:

```
switch# show logging last 42
```

Related Commands

Command	Description
logging level	Enables logging messages from a defined facility.

show logging level

To display the facility logging severity level configuration, use the show logging level command.

```
show logging level [facility]
```

Syntax Description	facility (Optional) Logging facility. The facilities are listed in Table 1-1 of show logging level				
Command Default	None				
Command Modes	EXEC mode				
Command History	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>6.0(2)N1(1)</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	6.0(2)N1(1)	This command was introduced.
Release	Modification				
6.0(2)N1(1)	This command was introduced.				

Examples

This example shows how to display the EtherChannel logging severity level configuration:

```
switch# show logging level port-channel
```

This example shows how to display the Flex Links logging severity level configuration:

```
switch# show logging level flexlink
```

```

Facility           Default Severity      Current Session Severity
-----
Flexlink           2                      5
0(emergencies)    1(alerts)             2(critical)
3(errors)         4(warnings)           5(notifications)
6(information)    7(debugging)
switch#

```

This example shows how to display the FCoE NPV logging severity level configuration:

```
switch# show logging level fcoe_mgr
```

```

Facility           Default Severity      Current Session Severity
-----
fcoe_mgr           2                      3
0(emergencies)    1(alerts)             2(critical)
3(errors)         4(warnings)           5(notifications)
6(information)    7(debugging)
switch#

```

This example shows how to display the Power over Ethernet (PoE) logging severity level configuration:

```
switch# show logging level poed
```

```

Facility           Default Severity      Current Session Severity
-----
poe                5                      5
0(emergencies)    1(alerts)             2(critical)
3(errors)         4(warnings)           5(notifications)

```

show logging level

```
6 (information)          7 (debugging)
switch#
```

Related Commands

Command	Description
logging level	Configures the facility logging level.

show logging logfile

To display the messages in the log file that were timestamped within the span entered, use the show logging logfile command.

```
show logging logfile [start-time yyyy mmm dd hh : mm : ss] [end-time yyyy mmm dd hh : mm : ss]
```

Syntax Description	
start-time yyyy mmm dd hh:mm:ss	(Optional) Specifies a start time in the format yyyy mmm dd hh:mm:ss . Use three characters for the month (mmm) field, digits for the year (yyyy) and day (dd) fields, and digits separated by colons for the time (hh:mm:ss) field.
end-time yyyy mmm dd hh:mm:ss	(Optional) Specifies an end time in the format yyyy mmm dd hh:mm:ss . Use three characters for the month (mmm) field, digits for the year (yyyy) and day (dd) fields, and digits separated by colons for the time (hh:mm:ss) field.

Command Default None

Command Modes EXEC mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Usage Guidelines If you do not enter an end time, the current time is used.

Examples This example shows how to display the messages in the log file that were timestamped within the span shown:

```
switch# show logging logfile start-time 2008 mar 11 12:10:00
```

Related Commands	Command	Description
	logging logfile	Configures logging to a log file.

show logging module

To display the module logging configuration, use the show logging module command.

```
show logging module
```

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes EXEC mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the module logging configuration:

```
switch# show logging module
```

Related Commands	Command	Description
	logging module	Configures module logging.

show logging monitor

To display the monitor logging configuration, use the show logging monitor command.

```
show logging monitor
```

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes EXEC mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the monitor logging configuration:

```
switch# show logging monitor
```

Related Commands	Command	Description
	logging monitor	Configures logging on the monitor.

show logging nvram

To display the messages in the nonvolatile random access memory (NVRAM) log, use the show logging nvram command.

```
show logging nvram [last number-lines]
```

Syntax Description

last number-lines	(Optional) Specifies the number of lines to display. The number of lines is from 1 to 100.
----------------------	--

Command Default

None

Command Modes

EXEC mode

Command History

Release	Modification
6.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the last 20 messages in the NVRAM log:

```
switch# show logging nvram last 20
```

Related Commands

Command	Description
logging level	Enables logging messages from a defined facility.

show logging onboard

To display the onboard logging information based on the error type, use the show logging onboard command.

```
show logging onboard boot-uptime | device-version | endtime | environmental-history | exception-log |
kernel-trace | obfl-history | obfl-logs | stack-trace | starttime | status [> file | type]
```

Syntax	Description
boot-uptime	Displays the onboard failure logging (OBFL) boot and uptime information.
device-version	Displays the OBFL device version information.
endtime	Displays the OBFL logs until the specified end time in the following format: mm/dd/yy-HH:MM:SS
environmental-history	Displays the OBFL environmental history.
exception-log	Displays the OBFL exception log.
kernel-trace	Displays the OBFL kernel trace information.
obfl-history	Displays the OBFL history information.
obfl-logs	Displays the OBFL technical support log information.
stack-trace	Displays the OBFL kernel stack trace information.
starttime	Displays the OBFL logs from the specified start time in the following format: mm/dd/yy-HH:MM:SS
status	Displays the OBFL status enable or disable.
> file	(Optional) Redirects the output to a file. See the “Usage Guidelines” section for additional information.
type	(Optional) Filters the output. See the “Usage Guidelines” section for additional information.

Command Default None

Command Modes EXEC mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Usage Guidelines The date and time arguments for the starttime and endtime keywords are entered as the date month/day/year (mm/dd/yy), followed by a hyphen, and the time in 24-hour format in hours:minutes:seconds (HH:MM:SS). For example:

- starttime 01/30/13-15:01:57
- endtime 01/30/13-15:04:57

The valid values for file are as follows:

- bootflash:
- ftp:
- scp:
- sftp:
- tftp:
- volatile:

The valid values for type are as follows:

- begin [-i] [-x] [word] —Begin with the line that matches the text.
 - -i—Ignores the case difference when comparing the strings.
 - -x—Prints only the lines where the match is a whole line.
 - word—Specifies for the expression.
- count [> file || type] —Counts number of lines.
- egrep | grep print-match—Egrep or Grep. Egrep searches for lines of text that match more sophisticated regular expression syntax than grep. Grep searches for lines of text that match one or many regular expressions, and outputs only the matching lines.
 - -A num—Prints the specifies number of lines of context after every matching line. Range: 1 to 999.
 - -B num—Prints the specifies number of lines of context before every matching line. Range: 1 to 999.
 - -c—Prints a total count of matching lines only.
 - -i—Ignores the case difference when comparing the strings.
 - -n—Prints each match preceded by its line number.
 - -v—Prints only the lines that contain no matches for the word argument.
 - -w—Prints only lines where the match is a complete word.
 - -x—Prints only the lines where the match is a whole line.
 - word—Specifies for the expression.
- exclude [-i] [-x] [word] —Excludes the lines that match.
 - -i—Ignores the case difference when comparing the strings.
 - -x—Prints only the lines where the match is a whole line.
 - word—Specifies for the expression.
- head [-n num] —Stream Editor. The optional -n num keyword and argument allow you to specify the number of lines to print. Range: 0 to 2147483647.
- include [-i] [-x] [word] —Include the lines that match.
 - -i—Ignores the case difference when comparing the strings.
 - -x—Prints only the lines where the match is a whole line.
 - word—Specifies for the expression.
- last num] —Displays the last lines to print. The optional num specifies the number of lines to print. Range: 0 to 9999.
- less [-E | -d]—Quits at the end of the file.
 - -E—(Optional) Quits at the end of the file.
 - -d—(Optional) Specifies a dumb terminal.

- no-more—Turns-off pagination for command output.
- sed command—Stream Editor
- wc—Counts words, lines, and characters.
 - -c—(Optional) Specifies the output character count.
 - -l—(Optional) Specifies the output line count.
 - -w—(Optional) Specifies the output word count.
 - >—Redirects it to a file.
 - |—Pipes command output to filter.

Use this command to view OBFL data from the system hardware. The OBFL feature is enabled by default and records operating temperatures, hardware uptime, interrupts, and other important events and messages that can assist with diagnosing problems with hardware cards or modules installed in a Cisco router or switch. Data is logged to files stored in nonvolatile memory. When the onboard hardware is started up, a first record is made for each area monitored and becomes a base value for subsequent records.

The OBFL feature provides a circular updating scheme for collecting continuous records and archiving older (historical) records, ensuring accurate data about the system. Data is recorded in one of two formats: continuous information that displays a snapshot of measurements and samples in a continuous file, and summary information that provides details about the data being collected. The message “No historical data to display” is seen when historical data is not available.

Examples

This example shows how to display the OBFL boot and uptime information:

```
switch# show logging onboard boot-uptime

Wed Jan 30 06:11:59 2013:  Boot Record
-----
Boot Time.....: Wed Jan 30 06:11:59 2013
Slot Number.....: 1
Serial Number.....: FLC12345678
Bios Version.....: v1.2.0(06/19/08)
Firmware Version...: 6.0(2)N1(1) [build 6.0(2)N1(1)]
```

Table 4 describes the significant fields shown in the display.

Table 4: show logging onboard boot-uptime Command Output

Field	Description
Boot Time	Time boot occurred.
Slot Number	Slot number.
Serial Number	Serial number of the module.
Bios Version	Primary binary input and output system (BIOS) version.
Firmware Version	Firmware version.

This example shows how to display the OBFL logging device information:

```
switch# show logging onboard device-version
```

```
-----
```

```

OBFL Data for
  Module: 1
-----
Device Version Record
-----
Timestamp                Device Name          Instance Hardware Software
                          Num   Version   Version
-----
Wed Jan 30 07:07:00 2013  GATOS                2         2         0
Wed Jan 30 07:07:00 2013  GATOS                3         2         0
Wed Jan 30 07:07:00 2013  GATOS                4         2         0
Wed Jan 30 07:07:00 2013  GATOS                5         2         0
Wed Jan 30 07:07:00 2013  GATOS                6         2         0
Wed Jan 30 07:07:00 2013  GATOS                7         2         0
Wed Jan 30 07:07:00 2013  GATOS                8         2         0
Wed Jan 30 07:07:00 2013  GATOS                9         2         0
Wed Jan 30 07:07:00 2013  GATOS               10         2         0
Wed Jan 30 07:07:00 2013  GATOS               11         2         0
Wed Jan 30 07:07:00 2013  GATOS               12         2         0
Wed Jan 30 07:07:00 2013  GATOS               13         2         0
Wed Jan 30 07:07:00 2013  ALTOS                0         2         0
Wed Jan 30 07:07:00 2013  GATOS                0         2         0
Wed Jan 30 07:07:00 2013  GATOS                1         2         0
Wed Jan 30 07:07:00 2013  GATOS                2         2         0

```

Table 5 describes the significant fields shown in the display.

Table 5: show logging onboard device-version Command Output

Field	Description
Timestamp	Day, date, and time.
Device Name	Device name.
Instance Num	Number of instances.
Hardware Version	Hardware device version.
Software Version	Software device version.

This example shows how to display the OBFL history information:

```
switch# show logging onboard obfl-history
```

The show logging onboard obfl-history command displays the following information:

- Timestamp when OBFL is manually disabled.
- Timestamp when OBFL is manually enabled.
- Timestamp when OBFL data is manually cleared.

This example shows how to display the OBFL kernel stack trace information:

```
switch# show logging onboard stack-trace
```

The show logging onboard stack-trace command displays the following information:

- Time in seconds
- Time in microseconds
- Error description string

- Current process name and identification
- Kernel jiffies
- Stack trace

Related Commands

Command	Description
clear logging onboard	Clears the OBFL entries in the persistent log.
hw-module logging onboard	Enables or disabled OBFL entries based on the error type.

show logging pending

To display the pending changes to the syslog server configuration, use the show logging pending command.

```
show logging pending
```

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes EXEC mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the pending changes to the syslog server configuration:

```
switch# show logging pending
switch#
```

Related Commands	Command	Description
	logging abort	Cancels the pending changes to the syslog server configuration.

show logging pending-diff

To display the differences from the current syslog server configuration to the pending changes of the syslog server configuration, use the show logging pending-diff command.

```
show logging pending-diff
```

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes EXEC mode

Release	Modification
6.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the pending differences of the syslog server configuration:

```
switch# show logging pending-diff
switch#
```

Command	Description
logging abort	Cancels the pending changes to the syslog server configuration.

show logging server

To display the syslog server configuration, use the show logging server command.

```
show logging server
```

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes EXEC mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the syslog server configuration:

```
switch# show logging server
```

Related Commands	Command	Description
	logging server	Configures a remote syslog server.

show logging session status

To display the logging session status, use the show logging session status command.

```
show logging session status
```

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes EXEC mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the logging session status:

```
switch# show logging session status
```

Related Commands	Command	Description
	logging level	Enables logging messages from a defined facility.

show logging status

To display the logging status, use the show logging status command.

```
show logging status
```

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes EXEC mode

Release	Modification
6.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the logging status:

```
switch# show logging status

Fabric Distribute      : Enabled
Session State         : IDLE
switch#
```

Command	Description
logging distribute	Enables the distribution of the syslog server configuration to network switches using the Cisco Fabric Services (CFS) infrastructure.

show logging timestamp

To display the logging time-stamp configuration, use the show logging timestamp command.

```
show logging timestamp
```

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes EXEC mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the logging time-stamp configuration:

```
switch# show logging timestamp
```

Related Commands	Command	Description
	logging timestamp	Configures the logging time stamp granularity.

show monitor session

To display information about the Switched Port Analyzer (SPAN) or Encapsulated Remote Switched Port Analyzer (ERSPAN) sessions, use the show monitor session command.

```
show monitor session [session | all [brief] | range range [brief] | status]
```

Syntax Description

session	(Optional) Number of the session. The range is from 1 to 18.
all	(Optional) Displays all sessions.
brief	(Optional) Displays a brief summary of the information.
range range	(Optional) Displays a range of sessions. The range is from 1 to 18.
status	(Optional) Displays the operational state of all sessions. Note This keyword applies only to SPAN sessions.

Command Default

None

Command Modes

EXEC mode

Command History

Release	Modification
6.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display information about SPAN session 1:

```
switch# show monitor session 1
session 1
-----
description      : A Local SPAN session
type             : local
state           : down (No operational src/dst)
source intf      :
  rx             : Eth1/5
  tx             : Eth1/5
  both          : Eth1/5
source VLANs     :
  rx             :
source VSANs     :
  rx             :
destination ports : Eth1/21
Legend: f = forwarding enabled, l = learning enabled
switch#
```

This example shows how to display a brief information about a SPAN session:

```
switch# show monitor session range 1 brief
session 1
-----
```

```

description      : A Local SPAN session
type             : local
state           : down (No operational src/dst)
source intf     :
    rx           : Eth1/5
    tx           : Eth1/5
    both        : Eth1/5
source VSANs    :
destination ports : Eth1/21
Legend: f = forwarding enabled, l = learning enabled
switch#
    
```

This example shows how to display the information about an ERSPAN session on a switch:

```

switch# show monitor session 1
session 1
-----
description      : ERSPAN Source configuration
type             : erspan-source
state           : down (No valid global IP Address)
flow-id         : 1
vrf-name        : default
destination-ip   : 192.0.2.1
ip-ttl          : 255
ip-dscp         : 0
origin-ip       : origin-ip not specified
source intf     :
    rx           : Eth1/5
    tx           : Eth1/5
    both        : Eth1/5
source VLANs    :
    rx           : 5
switch#
    
```

Related Commands

Command	Description
monitor session	Creates a new Switched Port Analyzer (SPAN) session configuration.
show running-config monitor	Displays the running configuration information about SPAN sessions.

show ntp authentication-status

To display the status of the Network Time Protocol (NTP) authentication, use the `show ntp authentication-status` command.

```
show ntp authentication-status
```

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes Any command mode

Release	Modification
6.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the authentication status for NTP:

```
switch(config)#show ntp authentication-status
```

Command	Description
[no] ntp authenticate	Displays information about NTP peers.

show ntp peers

To display information about Network Time Protocol (NTP) peers, use the show ntp peers command.

```
show ntp peers
```

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes EXEC mode

Release	Modification
6.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display information about NTP peers:

```
switch(config)#show ntp peers
```

Command	Description
show ntp peer-status	Displays status information about NTP peers.

show ntp peer-status

To display the status of the Network Time Protocol (NTP) peers, use the show ntp peer-status command.

```
show ntp peer-status
```

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes EXEC mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the peer status for NTP:

```
switch(config)# show ntp peer-status
```

Related Commands	Command	Description
	show ntp peers	Displays information about NTP peers.

show ntp statistics

To display Network Time Protocol (NTP) statistics, use the `show ntp statistics` command.

```
show ntp statistics io | local | memory | peer ipaddr address | name name1 [ . . nameN]
```

Syntax Description

io	Displays the input-output statistics.
local	Displays the counters maintained by the local NTP.
memory	Displays the statistics counters related to the memory code.
peer	Displays the per-peer statistics counter of a peer.
ipaddr address	Displays statistics for the peer with the configured IPv4 or IPv6 address. The IPv4 address format is dotted decimal, x.x.x.x. The IPv6 address format is hexadecimal A:B::C:D.
name name1	Displays statistics for a named peer.
..nameN	(Optional) Displays statistics for one or more named peers.

Command Default

None

Command Modes

EXEC mode

Command History

Release	Modification
6.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the statistics for NTP:

```
switch(config)#show ntp statistics local
```

Related Commands

Command	Description
clear ntp statistics	Clears NTP statistics

show ntp timestamp-status

To display the Network Time Protocol (NTP) time-stamp information, use the `show ntp timestamp-status` command.

```
show ntp timestamp-status
```

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes EXEC mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the NTP time-stamp status:

```
switch(config)#show ntp timestamp-status
```

Related Commands

Command	Description
clear ntp statistics	Clears NTP statistics
ntp	Configures NTP peers and servers on the switch.

show ptp brief

To display the PTP information, use the show ptp brief command.

```
show ptp brief
```

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes Global configuration mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Examples This example shows how to display the PTP status:

```
switch(config)#show ptp brief
```

Related Commands	Command	Description
	show ptp clock	Displays the properties of the local clock.
	show ptp clocks foreign-masters-record	Displays the state of foreign masters known to the PTP process.
	show ptp corrections	Displays the last few PTP corrections.
	show ptp parent	Displays the properties of the PTP parent and grandmaster clock.
	show ptp port interface	Displays the status of the PTP port.
	show ptp time-property	Displays the PTP clock time properties.

show ptp clock

To display the properties of the local PTP clock including clock identity, use the show ptp clock command.

```
show ptp clock
```

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes Global configuration mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the properties of the local clock:

```
switch(config)#show ptp clock
```

Related Commands

Command	Description
show ptp brief	Displays the PTP status.
show ptp clocks foreign-masters-record	Displays the state of foreign masters known to the PTP process.
show ptp corrections	Displays the last few PTP corrections.
show ptp parent	Displays the properties of the PTP parent and grandmaster clock.
show ptp port interface	Displays the status of the PTP port.
show ptp time-property	Displays the PTP clock time properties.

show ptp clocks foreign-masters-record

To display the state of the foreign masters known to the PTP process, use the show ptp clocks foreign-masters-record command.

```
show ptp clocks foreign-masters-record [ethernet slot /[QSFP-module/] port]
```

Syntax Description	Parameter	Description
	ethernet	Specifies an Ethernet interface.
	slot/[QSFP-module/]port	The slot number is from 1 to 255. The QSFP-module number is from 1 to 199. The port number is from 1 to 128.

Command Modes Global configuration mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Usage Guidelines For each foreign master, the output displays the clock identity, basic clock properties, and whether the clock is being used as a grandmaster.

Examples This example shows how to display the foreign masters known to the PTP process:

```
switch(config)#show ptp foreign-masters-record
```

Related Commands	Command	Description
	show ptp brief	Displays the PTP status.
	show ptp clock	Displays the properties of the local clock.
	show ptp corrections	Displays the last few PTP corrections.
	show ptp port interface	Displays the status of the PTP port.
	show ptp parent	Displays the properties of the PTP parent and grandmaster clock.
	show ptp time-property	Displays the PTP clock time properties.

show ptp corrections

To display the last few PTP corrections, use the show ptp corrections command.

```
show ptp corrections
```

Syntax Description There are no arguments or keywords for this command.

Command Default None

Command History

Release	Modification
6.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the most recent PTP corrections on the switch:

```
switch(config)#show ptp corrections
```

Related Commands

Command	Description
show ptp brief	Displays the PTP status.
show ptp clock	Displays the properties of the local clock.
show ptp clocks foreign-masters-record	Displays the state of foreign masters known to the PTP process.
show ptp port interface	Displays the status of the PTP port.
show ptp parent	Displays the properties of the PTP parent and grandmaster clock.
show ptp time-property	Displays the PTP clock time properties.

show ptp parent

To display the properties of the PTP parent and grandmaster clock, use the show ptp parent command.

```
show ptp parent
```

Syntax Description

There are no arguments or keywords for this command.

Command Default

None

Command History

Release	Modification
6.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the properties of the PTP parent and grandmaster clock:

```
switch(config)#show ptp parent
```

Related Commands

Command	Description
show ptp brief	Displays the PTP status.
show ptp clock	Displays the properties of the local clock.
show ptp clocks foreign-masters-record	Displays the state of foreign masters known to the PTP process.
show ptp corrections	Displays the last few PTP corrections.
show ptp port interface	Displays the status of the PTP port.
show ptp time-property	Displays the PTP clock time properties.

show ptp port interface

To display the status of the PTP port, use the `show ptp port interface ethernet` command.

```
show ptp port interface [ethernet slot /[QSFP-module/] port]
```

Syntax Description		
	ethernet	Specifies an Ethernet interface.
	slot/[QSFP-module/]port	The slot number is from 1 to 255. The QSFP-module number is from 1 to 199. The port number is from 1 to 128.

Command Default None

Command Modes Global configuration mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the status of the PTP port on the switch:

```
switch(config)#show ptp port interface ethernet 5/1
```

Related Commands	Command	Description
	show ptp brief	Displays the PTP status.
	show ptp clock	Displays the properties of the local clock.
	show ptp clocks foreign-masters-record	Displays the state of foreign masters known to the PTP process.
	show ptp corrections	Displays the last few PTP corrections.
	show ptp port interface	Displays the status of the PTP port.
	show ptp parent	Displays the properties of the PTP parent and grandmaster clock.
	show ptp time-property	Displays the PTP clock time properties.

show ptp time-property

To display the PTP clock time properties, use the show ptp time-property command.

```
show ptp time-property
```

Syntax Description

There are no arguments or keywords for this command.

Command Default

None

Command History

Release	Modification
6.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the PTP clock time properties:

```
switch(config)#show ptp time-property
```

Related Commands

Command	Description
show ptp brief	Displays the PTP status.
show ptp clock	Displays the properties of the local clock.
show ptp clocks foreign-masters-record	Displays the state of foreign masters known to the PTP process.
show ptp corrections	Displays the last few PTP corrections.
show ptp parent	Displays the properties of the PTP parent and grandmaster clock.
show ptp port interface	Displays the status of the PTP port.

show rmon

To display information about Remote Monitoring (RMON) alarms or high-capacity alarms or events, use the `show rmon` command.

`show rmon alarms | events | hcalarms | info | logs`

Syntax Description

alarms	Displays the RMON alarms.
events	Displays the RMON events.
hcalarms	Displays the RMON high-capacity alarms.
info	Displays the RMON configuration information.
logs	Displays information about the RMON event logs.

Command Default

None

Command Modes

EXEC mode

Command History

Release	Modification
	This command was introduced.

Examples

This example shows how to display the RMON high-capacity alarms configured on the switch:

```
switch# show rmon hcalarms

High Capacity Alarm 3 is active, owned by admin
Monitors 1.3.6.1.2.1.2.2.1.17.83886080 every 5 second(s)
Taking delta samples, last value was 216340
Rising threshold is 0, assigned to event 3
Falling threshold is 0, assigned to event 0
On startup enable rising alarm
Number of Failed Attempts is 0
switch#
```

This example shows how to display the RMON events configured on the switch:

```
switch# show rmon events

Event 5 is active, owned by admin
Description is myRMONEvent
Event firing causes nothing, last fired never
switch#
```

This example shows how to display the RMON configuration information:

```
switch# show rmon info

Maximum allowed 32 bit or 64 bit alarms : 512
Number of 32 bit alarms configured : 0
```

```
Number of 64 bit hcalarms configured : 1  
switch#
```

Related Commands

Command	Description
rmon alarm	Creates RMON alarms.
rmon event	Creates RMON events.
rmon hcalarm	Creates RMON high-capacity alarms.
show running-config	Displays the running configuration.

show run mmode

To display the currently running maintenance profile configuration on a switch, use the show run mmode command.

```
show run mmode [all]
```

Syntax Description	all Displays the currently running maintenance profile configuration along with the defaults.
---------------------------	---

Command Default None

Command Modes Privileged EXEC

Command History	Release	Modification
	7.3(0)N1(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples

This example shows how to display the currently running maintenance profile configuration on a switch:

```
switch(config)# show run mmode
!Command: show running-config mmode
!Time: Wed May 13 22:37:02 1970
version 7.3(0)N1(1)
configure maintenance profile normal-mode
  router isis 100
    no isolate
  router ospf 100
    no isolate
  router bgp 100
    no isolate
configure maintenance profile maintenance-mode
  router bgp 100
    isolate
  router ospf 100
    isolate
  router isis 100
    isolate
configure terminal
```

Related Commands	Command	Description
	configure maintenance profile	Enters a maintenance profile configuration session to create a custom maintenance mode profile or a custom normal mode profile.
	show system mode	Displays the current system mode and the current state of the maintenance mode timer when the switch is in maintenance mode.

Command	Description
system mode maintenance always-use-custom-profile	Applies the existing custom maintenance mode profile and prevents creation of auto-generated maintenance mode profile.
system mode maintenance on-reload reset-reason	Boots the switch into maintenance mode automatically in the event of a specified system crash.
system mode maintenance shutdown	Shuts down all protocols and interfaces except the management interface (by using the shutdown command and not the default isolate command).
system mode maintenance timeout	Configures the maintenance window timer to keep the switch in maintenance mode for a specified number of minutes.

show running-config callhome

To display the Call Home running configuration, use the show running-config callhome command.

```
show running-config callhome [all]
```

Syntax Description	all (Optional) Displays all the default and configured information.
---------------------------	---

Command Default Displays only the configured information.

Command Modes EXEC mode

Command History	Release	Modification
		This command was introduced.

Examples

This example shows how to display the Call Home running configuration:

```
switch# show running-config callhome
!Command: show running-config callhome
!Time: Fri Jun 18 09:37:56 2010
version 5.0(2)N1(1)
callhome
  alert-group configuration user-def-cmd show ip routing
switch#
```

This example shows how to display the entire Call Home running configuration, including the default values:

```
switch# show running-config callhome all
!Command: show running-config callhome all
!Time: Fri Jun 18 09:38:03 2010
version 5.0(2)N1(1)
callhome
  switch-priority 7
  destination-profile CiscoTAC-1 transport-method email
  no destination-profile CiscoTAC-1 transport-method http
  destination-profile CiscoTAC-1 message-size 5000000
  destination-profile CiscoTAC-1 message-level 0
  destination-profile full_txt transport-method email
  no destination-profile full_txt transport-method http
  destination-profile full_txt message-size 2500000
  destination-profile full_txt message-level 0
  destination-profile short_txt transport-method email
  no destination-profile short_txt transport-method http
  destination-profile short_txt message-size 4000
  destination-profile short_txt message-level 0
  destination-profile CiscoTAC-1 alert-group cisco-tac
  destination-profile full_txt alert-group all
  destination-profile short_txt alert-group all
  alert-group configuration user-def-cmd show ip routing
  no enable
  duplicate-message throttle
  periodic-inventory notification
```

```
periodic-inventory notification interval 7
periodic-inventory notification timeofday 08:00
switch#
```

Related Commands

Command	Description
show callhome	Displays Call Home configuration information.

show running-config interface vethernet

To display the the currently running configuration for a virtual Ethernet interface, use the show running-config interface vethernet command.

```
show running-config interface vethernet veth-id [all | expand-port-profile]
```

Syntax Description		
	veth-id	Virtual Ethernet interface number. The range is from 1 to 1,048,575.
	all	(Optional) Displays the full operating information including default settings.
	expand-port-profile	(Optional) Displays the configuration information of port profiles.

Command Default None

Command Modes EXEC mode

Command History	Release	Modification
	5.1(3)N1(1)	This command was introduced.

Examples

This example shows how to display the running configuration for a virtual Ethernet interface :

```
switch# show running-config interface vethernet 10
!Command: show running-config interface Vethernet10
!Time: Fri Jan  2 01:40:37 2009
version 5.1(3)N1(1)
interface Vethernet10
  inherit port-profile ppVEth
  untagged cos 3
  switchport access vlan 101
  bind interface Ethernet1/5 channel 10
switch#
```

This example shows how to display detailed information on the running configuration for a specified virtual Ethernet interface:

```
switch# show running-config interface vethernet 10 all
```

Related Commands	Command	Description
	interface vethernet	Configures a virtual Ethernet interface.

show running-config monitor

To display the running configuration for the Switched Port Analyzer (SPAN) or Encapsulated Remote Switched Port Analyzer (ERSPAN) session, use the show running-config monitor command.

```
show running-config monitor [all]
```

Syntax Description	all (Optional) Displays current SPAN configuration information including default settings.
---------------------------	--

Command Default None

Command Modes EXEC mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display information on the running SPAN configuration:

```
switch# show running-config monitor

!Command: show running-config monitor
!Time: Wed Jan 30 07:07:00 2013
version 6.0(2)N1(1)
monitor session 1
  description A Local SPAN session
  source interface Ethernet1/5 both
  destination interface Ethernet1/21
  no shut
switch#
```

This example shows how to display detailed information on the running SPAN configuration:

```
switch# show running-config monitor all

!Command: show running-config monitor all
!Time: Wed Jan 30 07:07:00 2013
version 6.0(2)N1(1)
monitor session 1 type local
  description A Local SPAN session
  source interface Ethernet1/5 both
  destination interface Ethernet1/21
  no shut
switch#
```

Related Commands	Command	Description
	monitor session	Configures SPAN or ERSPAN sessions.
	show monitor session	Displays information about SPAN or ERSPAN sessions.

show running-config poe

[NOTE: per Christine, “the commands exist in the software but I was told they will remain in the code but we shouldn't show them in the docs until the rubicon fex goes out”]

To display the running configuration for Power over Ethernet (PoE) ports, use the show running-config poe command.

```
show running-config poe [all]
```

Syntax Description

all	(Optional) Displays detailed information about PoE ports, including default settings.
-----	---

Command Default

None

Command Modes

EXEC mode

Command History

Release	Modification
5.0(3)N2(1)	This command was introduced.

Examples

This example shows how to display the running configuration for PoE ports:

```
switch# show running-config poe
```

Related Commands

Command	Description
show startup-config poe	Displays the startup configuration information about PoE ports.
show tech-support poe	Displays troubleshooting information about PoE ports.

show running-config port-security

To display the running system configuration information about secure ports, use the show running-config port-security command.

```
show running-config port-security [all]
```

Syntax Description	all (Optional) Displays detailed information about secure ports, including default settings.
---------------------------	--

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

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

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Usage Guidelines	This command does not require a license.
-------------------------	--

Examples	This example shows how to display the running system configuration of all secure ports on an interface:
-----------------	---

```
switch# show running-config port-security
!Command: show running-config port-security
!Time: Wed Jan 30 07:07:00 2013
version 5.1(3)N1(1)
feature port-security
interface Ethernet1/5
  switchport port-security
  switchport port-security aging time 3
  switchport port-security maximum 10
  switchport port-security mac-address sticky
switch#
```

Related Commands	Command	Description
	clear port-security dynamic	Clears the dynamically secured addresses on a port.
	show startup-config port-security	Displays the configuration information in the startup file.

show sampler

To display a NetFlow sampler, use the show sampler command.

```
show sampler [name] [sampler-name]
```

Syntax Description

name	(Optional) Specifies a sampler.
sampler-name	(Optional) Sampler name. The maximum number of characters is 63.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
7.0(0)N1(1)	This command was introduced.

Usage Guidelines

You can create a sampler to define the NetFlow sampling rate for a flow.

This command does not require a license.

Examples

This example shows how to display a NetFlow sampler:

```
switch(config)#
show sampler
Sampler Netflow-Sampler-1:
 mode 1 out-of 1024
switch(config)#
```

Related Commands

Command	Description
sampler	Configures a sampler to collect data for a user selected packet ratio to preserve hardware resources.

show snapshots

To display the snapshots present on the switch, use the show snapshots command.

```
show snapshots
```

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes Privileged EXEC

Release	Modification
7.1.0	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display the snapshots present on the switch:

```
switch# show snapshots
Snapshot Name          Time                               Description
-----
before_maintenance    Wed May 13 13:21:16 1970    system-internal-snapshot
new                   Mon May 11 15:51:27 1970    after if down
```



Note In the above output example, “before_Maintenance” is the system-generated snapshot and “new” is the user-generated snapshot.

Command	Description
snapshot create name description	Creates a snapshot. The name variable can be 64 characters in length. The description variable can be 256 characters in length.
snapshot delete	Deletes a snapshot.
show snapshots compare	Displays the comparison between two snapshots.
show snapshots dump	Displays content of the various sections in a generated snapshot.
snapshot section	Adds or deletes a snapshot section.

show snapshots compare

To display the comparison between the two snapshots on a switch, use the show snapshots compare command.

```
show snapshots snapshot-1 snapshot-2 [ipv4routes | ipv6routes | summary]
```

Syntax Description

snapshot-1 snapshot-2	Displays the comparison between the two snapshots.
ipv4routes	Displays a comparison of the IPv4 routes between the two snapshots.
ipv6routes	Displays a comparison of the IPv6 routes between the two snapshots.
summary	Displays a summary of the comparison between the two snapshots.

Command Default

None

Command Modes

Privileged EXEC

Command History

Release	Modification
7.1.0	This command was introduced.

Usage Guidelines

This command does not require a license.

Examples

This example shows how to display a comparison between two snapshots:

```
switch# show snapshots compare before_maint during_maint
```

```
=====
Feature                Tag                before_maint      during_maint
=====
[bgp]
-----
[eigrp]
-----
[eigrpv6]
-----
[interface]
-----
... <snip> ...
[v4route]
-----

[ipprefix:0.0.0.0/32]
                    uptime                PT24M32S          **PT58M37S**
```

```
[ipprefix:127.0.0.0/8]
uptime                PT24M32S                **PT58M37S**
```

This example shows how to display a summary of the comparison between two snapshots:

```
switch# show snapshots compare before_maintenance after_maintenance summary

=====
Feature                                before_maintenance after_maintenance
changed
=====
basic summary
# of interfaces                        50                50
# of vlans                             0                 0
# of ipv4 routes vrf default           13                13
# of ipv4 paths vrf default            13                13
# of ipv4 routes vrf management        14                14
# of ipv4 paths vrf management         14                14
# of ipv6 routes vrf default           3                 3
# of ipv6 paths vrf default            3                 3
interfaces
# of eth interfaces                    48                48
# of eth interfaces up                  1                 1
# of eth interfaces down                47                47
# of eth interfaces other               0                 0
# of vlan interfaces                   0                 0
# of vlan interfaces up                 0                 0
# of vlan interfaces down              0                 0
# of vlan interfaces other             0                 0
```

This example shows how to display a comparison of the IPv4 routes between the two snapshots:

```
switch# show snapshots compare snapshot1 snapshot2 ipv4routes
```

Related Commands

Command	Description
show snapshots	Displays snapshots on a switch.
show snapshots dump	Display content of the various sections in a generated snapshot.
show snapshots sections	Displays content of the various sections in a generated snapshot.
snapshot create name description	Creates a snapshot. The name variable can be 64 characters in length. The description variable can be 256 characters in length.
snapshot delete	Deletes a snapshot.
show snapshots dump	Displays content of the various sections in a generated snapshot.
snapshot section	Adds or deletes a snapshot section.

show snapshots dump

To display content of the various sections in a generated snapshot, use the show snapshots dump command.

```
show snapshots dump snapshot-name
```

Syntax Description	snapshot-name	Name of the snapshot.

Command Default None

Command Modes Privileged EXEC

Command History	Release	Modification
	7.3(0)N1(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples

The following example shows how to display content of the various sections in a generated snapshot:

```
switch# show snapshots dump new
```

```
File: interface.xml      Snapshot: new
=====
<?xml version="1.0" encoding="ISO-8859-1"?>
<nf:rpc-reply xmlns:nf="urn:ietf:params:xml:ns:netconf:base:1.0" xmlns="http://www.cisco.com/nxos:7.3.0.N1.1.1:if_manager">
  <nf:data>
    <show>
      <interface>
        <_readonly_>
          <TABLE_interface>
            <ROW_interface>
              <interface>mgmt0</interface>
              <state>up</state>
              <admin_state>up</admin_state>
              <eth_hw_desc>GigabitEthernet</eth_hw_desc>
              <eth_hw_addr>5cfc.666d.3b34</eth_hw_addr>
              <eth_bia_addr>5cfc.666d.3b34</eth_bia_addr>
              <eth_ip_addr>5.24.100.101</eth_ip_addr>
              <eth_ip_mask>16</eth_ip_mask>
              <eth_ip_prefix>5.24.0.0</eth_ip_prefix>
              <eth_mtu>1500</eth_mtu>
            </ROW_interface>
          </TABLE_interface>
        </_readonly_>
      </interface>
    </show>
  </nf:data>
</nf:rpc-reply>
```

Related Commands

Command	Description
show snapshots	Displays snapshots on a switch.
show snapshots sections	Displays content of the various sections in a generated snapshot.
snapshot create name description	Creates a snapshot. The name variable can be 64 characters in length. The description variable can be 256 characters in length.

Command	Description
snapshot delete	Deletes a snapshot.
show snapshots dump	Displays content of the various sections in a generated snapshot.
snapshot section	Adds or deletes a snapshot section.

show snapshots sections

To display the user-specified sections in a snapshot, use the show snapshots sections command.

```
show snapshots sections
```

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes Privileged EXEC

Command History	Release	Modification
	7.3(0)N1(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display the user-specified sections in a snapshot:

```
switch# show snapshots sections
user-specified snapshot sections
-----
[v4route]
show command: show ip route detail vrf all
row id: ROW_prefix
key1: ipprefix
key2: -
```

Related Commands	Command	Description
	show snapshots compare	Displays the comparison between two snapshots.
	show snapshots dump	Displays content of the various sections in a generated snapshot.
	snapshot create name description	Creates a snapshot. The name variable can be 64 characters in length. The description variable can be 256 characters in length.
	snapshot delete	Deletes a snapshot.
	snapshot section	Adds or deletes a snapshot section.

show snmp community

To display the Simple Network Management Protocol (SNMP) community strings configured on the switch, use the `show snmp community` command.

```
show snmp community
```

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes EXEC mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the SNMP community strings:

```
switch# show snmp community

Community          Group / Access    context    acl_filter
-----          -
public            network-admin
switch#
```

Related Commands	Command	Description
	snmp-server community	Configures the community access string to permit access to the SNMP protocol.

show snmp context

To display the Simple Network Management Protocol (SNMP) contexts configured on the switch, use the `show snmp context` command.

```
show snmp context
```

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes EXEC mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the SNMP contexts:

```
switch# show snmp context
```

Related Commands	Command	Description
	snmp-server context	Configures an SNMP context.

show snmp engineID

To display the identification of the local Simple Network Management Protocol (SNMP) engine, use the show snmp engineID command.

```
show snmp engineID
```

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes EXEC mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Usage Guidelines An SNMP engine is a copy of SNMP that can reside on a local or remote device. SNMP passwords are localized using the SNMP engine ID of the authoritative SNMP engine.

Examples

This example shows how to display the SNMP engine ID:

```
switch# show snmp engineID

Local SNMP engineID: [Hex] 8000000903000DECB230C0
                    [Dec] 128:000:000:009:003:000:013:236:178:048:192
switch#
```

Related Commands	Command	Description
	show running-config snmp	Displays the running configuration information about SNMP.

show snmp group

To display the names of the Simple Network Management Protocol (SNMP) groups configured on the switch, use the show snmp group command.

```
show snmp group
```

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes EXEC mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the SNMP groups:

```
switch# show snmp group

Role: network-admin
  Description: Predefined network admin role has access to all commands
               on the switch
-----
Rule    Perm    Type      Scope      Entity
-----
1       permit  read-write
Role: network-operator
  Description: Predefined network operator role has access to all read
               commands on the switch
-----
Rule    Perm    Type      Scope      Entity
-----
1       permit  read
Role: vdc-admin
  Description: Predefined vdc admin role has access to all commands within
               a VDC instance
-----
Rule    Perm    Type      Scope      Entity
-----
1       permit  read-write
Role: vdc-operator
  Description: Predefined vdc operator role has access to all read commands
               within a VDC instance
-----
Rule    Perm    Type      Scope      Entity
-----
1       permit  read
Role: priv-3
  Description: This is a system defined privilege role.
  vsan policy: permit (default)
  Vlan policy: permit (default)
  Interface policy: permit (default)
  Vrf policy: permit (default)
Role: priv-2
```

```

Description: This is a system defined privilege role.
vsan policy: permit (default)
Vlan policy: permit (default)
Interface policy: permit (default)
Vrf policy: permit (default)
Role: priv-1
Description: This is a system defined privilege role.
vsan policy: permit (default)
Vlan policy: permit (default)
Interface policy: permit (default)
Vrf policy: permit (default)
Role: priv-0
Description: This is a system defined privilege role.
vsan policy: permit (default)
Vlan policy: permit (default)
Interface policy: permit (default)
Vrf policy: permit (default)
-----
Rule      Perm      Type      Scope      Entity
-----
10       permit   command               traceroute6 *
9        permit   command               traceroute *
8        permit   command               telnet6 *
7        permit   command               telnet *
6        permit   command               ping6 *
5        permit   command               ping *
4        permit   command               ssh6 *
3        permit   command               ssh *
2        permit   command               enable *
1        permit   read
Role: priv-15
Description: This is a system defined privilege role.
vsan policy: permit (default)
Vlan policy: permit (default)
Interface policy: permit (default)
Vrf policy: permit (default)
-----
Rule      Perm      Type      Scope      Entity
-----
1        permit   read-write
switch#
    
```

Related Commands

Command	Description
show running-config snmp	Displays the running configuration information about SNMP.

show system soft-reload status

To display the status of the soft reload, use the show system soft-reload status command.

```
show system soft-reload status
```

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes Privileged EXEC mode

Command History	Release	Modification
	7.3(2)N1(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display the status of the soft reload:

```
switch# show system soft-reload status
Soft-reload is disabled
```

Related Commands	Command	Description
	soft-reload	Performs a manual soft reload of the switch.
	system soft-reload enable	Enables the switch to perform a soft reload after a process crash.