show version

To display software, hardware, and web interface version information, use the **show version** command.

show version [*mod*]

show version epld

Syntax Description

	(Optional) Number of the module.
	Displays the Erasable Programmable Logic Device (EPLD) upgrade process configuration for non-supervisor engine modules.

Defaults

This command has no default settings.

Command Types

Switch command.

Command Modes

Normal.

Examples

This example shows how to display the software and hardware versions on systems configured with the Supervisor Engine 1 with Layer 3 Switching Engine (WS-F6K-PFC):

```
Console> show version
WS-C6009 Software, Version NmpSW: 6.2(0.11)KEY
Copyright (c) 1995-2000 by Cisco Systems
NMP S/W compiled on Oct  5 2000, 01:18:33

System Bootstrap Version: 5.2(1)

Hardware Version: 1.0  Model: WS-C6009  Serial #: SCA030900JA

Mod Port Model               Serial #    Versions
--- ---- ------------------- ----------- --------------------------------------
1   2    WS-X6K-SUP1A-2GE    SAD03392376 Hw : 1.0
                                         Fw : 5.2(1)
                                         Fw1: 5.1(1)CSX
                                         Sw : 6.2(0.11)KEY
                                         Sw1: 6.2(0.11)KEY
         L3 Switching Engine SAD03365068 Hw: 1.0
3   2    WS-X6380-NAM        JAB0343055Y Hw : 0.201
                                         Fw : 4B4LZ0XA
                                         Fw1: 4.2(0.24)DAY68
                                         Sw : 1.1(0.20)
                                         Sw1: 6.2(0.11)KEY
5   48   WS-X6248-RJ-45      SAD03181291 Hw : 1.0
                                         Fw : 4.2(0.24)VAI78
                                         Sw : 6.2(0.11)KEY
15  1    WS-F6K-MSFC         SAD03366264 Hw : 1.2
                                         Fw : 12.1(2)E,
                                         Sw : 12.1(2)E,
```

```
Module Total   Used    Free    Total   Used    Free    Total Used  Free
------ ------- ------- ------- ------- ------- ------- ----- ----- -----
1       65408K  45402K  20006K  16384K   8683K   7701K  512K  253K  259K

Uptime is 1 day, 19 hours, 54 minutes
Console> (enable)


Console> (enable) show version 3
Mod Port Model               Serial #    Versions
--- ---- ------------------- ----------- --------------------------------------
3   2    WS-X6380-NAM        JAB0343055Y Hw : 0.201
                                         Fw : 4B4LZ0XA
                                         Fw1: 4.2(0.24)DAY68
                                         Sw : 1.1(0.20)
                                         Sw1: 6.2(0.11)KEY

Console> (enable)
```

Supervisor Engine 2 with Layer 3 Switching Engine II (PFC2):

Table 2-109 describes the fields in the command output.

Table 2-109 show version Command Output Fields

Field	Description
	Version number of the NMP software.
NMP S/W compiled on	Date and time that the NMP software was compiled.
System Bootstrap Version	System bootstrap version number.
Web Interface Version	Web interface version number.
Hardware Version	Hardware version number.
Model	Switch model number.
Serial #	Switch serial number.
Module	Module number.
Port	Number of ports on the module.
Model	Model number of the module.
Serial #	Serial number of the module.
Versions	Hardware, software, and firmware versions of the module.
Hw	Hardware version of the module.
Fw	Version of the boot code (for switching modules) or bootstrap (for the supervisor engine).
Fw1	Version of the firmware boot code (on the supervisor engine).
Sw	Version of the firmware runtime installed (on the switching module) or the software version (on the supervisor engine).
Sw1	Version of the firmware runtime (on the supervisor engine).
DRAM Total	Total dynamic RAM installed on the module.
Used	Amount of DRAM in use.
Free	Amount of available DRAM.
FLASH Total	Total Flash memory installed on the module.
Used	Amount of Flash memory in use.
Free	Amount of available Flash memory.
NVRAM Total	Total NVRAM installed on the module.
Used	Amount of NVRAM in use.
Free	Amount of available NVRAM.
Uptime is	Number of uninterrupted days, hours, minutes, and seconds the system has been up and running.

Related Commands **download**

show vlan

trunk

show vlan *vlans*

mapping

show vlan *type*

show vlan summary

show vlan firewall-vlan *mod*

	Number or range of VLANs; valid values are from 1 to 4094.
	(Optional) Forces the display to show information only on nontrunk ports.
	Displays VLAN mapping table information.
	Type of the VLAN; valid values are , , , **trbrf**, or **trcrf**
summary	
firewall-vlan	

Usage Guidelines

Each Ethernet switch port and Ethernet repeater group belong to only one VLAN. Trunk ports can be on multiple VLANs.

If you do not specify the VLAN number, all VLANs are displayed.

Examples

This example shows how to display information for all VLAN trunks:

```
          show vlan trunk
VLAN Name                             Status    IfIndex Mod/Ports, Vlans
---- -------------------------------- --------- ------- -----------------------
1    default                          active    5       2/1-2
                                                        6/4-8
10   VLAN0010                         active    18      6/1,6/3
11   VLAN0011                         active    19      6/2
```

```
1003 token-ring-default               active    9
1004 fddinet-default                  active    7
1005 trnet-default                    active    8       8

VLAN Type  SAID       MTU   Parent RingNo BrdgNo Stp  BrdgMode Trans1 Trans2
---- ----- ---------- ----- ------ ------ ------ ---- -------- ------ ------
1    enet  100001     1500  -      -      -      -    -        0      0
10   enet  100010     1500  -      -      -      -    -        0      0
11   enet  100011     1500  -      -      -      -    -        0      0
20   enet  100020     1500  -      -      -      -    -        0      0
21   enet  100021     1500  -      -      -      -    -        0      0
30   enet  100030     1500  -      -      -      -    -        0      0
31   enet  100031     1500  -      -      -      -    -        0      0
1002 fddi  101002     1500  -      -      -      -    -        0      0
1003 trcrf 101003     1500  0      0x0    -      -    -        0      0
1004 fdnet 101004     1500  -      -      0x0    ieee -        0      0
1005 trbrf 101005     1500  -      -      0x0    ibm  -        0      0


VLAN Inst DynCreated  RSPAN
---- ---- ---------- --------
1    1    static     disabled
10        static     disabled
11        static     disabled
20        static     disabled
21        static     disabled
30        static     disabled
31        static     disabled
1002 -    static     disabled
1003 1    static     disabled
1004 2    static     disabled
1005 -    static     disabled


VLAN AREHops STEHops Backup CRF 1q VLAN
---- ------- ------- ---------- -------
1003 7       7       off


Primary Secondary Secondary-Type Ports
------- --------- -------------- ------------
10      20        isolated       6/1,6/3
11      21        isolated       6/2
30      -         -
-       31        isolated
```

This example shows how to display the VLAN mapping table information:

```
Console> show vlan mapping
```

show vlan 2 fddi

show vlan 2 notrunk

show vlan 4000

This example shows how to display a summary of active, suspended, and extended VLANs:

```
show vlan summary
```

VLAN	VLAN number.
Name	Name, if configured, of the VLAN.
Status	Status of the VLAN (active or suspend).
IfIndex	Number of the ifIndex.
Mod/Ports, VLANs	Ports that belong to the VLAN.
Type	Media type of the VLAN.
SAID	Security association ID value for the VLAN.
MTU	Maximum transmission unit size for the VLAN.
Parent	Parent VLAN, if one exists.
RingNo	Ring number for the VLAN, if applicable.
BrdgNo	Bridge number for the VLAN, if applicable.
Stp	Spanning Tree Protocol type used on the VLAN.
BrdgMode	Bridging mode for this VLAN. Possible values are SRB and SRT; the default is SRB.
Inst	Instance number.
DynCreated	Status of whether the VLAN is created statically or dynamically.
RSPAN	Status of whether RSPAN is enabled or disabled.
AREHops	Maximum number of hops for All-Routes Explorer frames. Possible values are 1 through 13; the default is 7.
STEHops	Maximum number of hops for Spanning Tree Explorer frames. Possible values are 1 through 13; the default is 7.
Backup CRF	Status of whether the TrCRF is a backup path for traffic.
802.1Q Vlan	Number of the 802.1Q VLAN.
ISL Vlan	Number of the ISL VLAN.
Effective	Status of the VLAN. If the VLAN is active and its type is Ethernet, true is displayed; if not, false is displayed.
Primary	Number of the primary VLAN in a private VLAN.
Secondary	Number of the secondary VLAN in a private VLAN.

show vlan Command Output Fields (continued)

Secondary-Type	Type of secondary VLAN port. Possible values are isolated, community, or -.
Ports	Number of the module and ports associated to a specific private VLAN pair.

show vlan counters

Syntax Description

Defaults

Command Types

Command Modes

Usage Guidelines

Examples

```
show vlan counters 1
```

```
L2-NonUnicast-Pkts + L3-In-NonUnicast-Pkts      :4021
L3-Out-NonUnicast-Pkts                          :0
L2-Unicast-Octets                               :238081
L3-In-Unicast-Octets                            :0
L3-Out-Unicast-Octets                           :0
L2-NonUnicast-Octets + L3-In-NonUnicast-Octets  :273025
L3-Out-NonUnicast-Octets                        :0
Console>
```

L2-NonUnicast-Pkts + L3-In-NonUnicast-Pkts	Layer 2 nonunicast packets forwarded per VLAN and Layer 3 nonunicast packets forwarded per input VLAN.

show vlan verify-port-provisioning

Syntax Description

Defaults

Command Types

Command Modes

Examples

```
show vlan verify-port-provisioning
```

Related Commands

show vmps

Syntax Description

Defaults

Command Types

Command Modes

Examples

```
VMPS Backup file name disk0:vmps_config_engineering
VMPS Auto-Save state  enabled

VMPS Client Status:
---------------------
VMPS VQP Version:     1
Reconfirm Interval:   60 min
Server Retry Count:   3
VMPS domain server:

No dynamic ports configured.
Console>

No dynamic ports configured.
Console>
```

VMPS No Domain Req	Status on whether the server accepts requests from clients with no domain name.
VMPS Backup file name	VMPS backup device and backup file name.
VMPS Auto-Save state	Status of the VMPS auto-save feature.
VMPS Client Status	Status of the VMPS client.
VMPS VQP Version	Version of VMPS VQP.
VMPS domain server	VMPS domain server name.

To display the MAC-address-to-VLAN mapping table, use the command.

[*mac_addr*

mac_addr

Table 2-113 show vmps mac Command Output Fields

	Description

show vmps statistics

Syntax Description

Defaults

Command Types

Command Modes

Usage Guidelines

Examples

```
Status 'Error' Responses:          0
Status 'Deny' Responses:           5
MAC Address of Last Failed Request: 00-60-00-cc-01-02
Console>
```

Table 2-114 show vmps statistics Command Output Fields

Status ‘Error’ Responses	Number of error responses.
Status ‘Deny’ Responses	Number of “Access Denied” and “Port Shutdown” responses.
MAC Address of Last Failed Request	MAC address of the last request for which the response was not successful.

Related Commands

To display all the MAC addresses assigned to a VLAN in the VMPS table, use the command.

	Name or number of the VLAN.

This command has no default settings.

Switch command.

Normal.

This example shows how to display all MAC addresses assigned to the VLAN named Hardware:

```
show vmps vlan Hardware
```

Table 2-115 describes the fields in the command output.

Table 2-115 show vmps vlan Command Output Fields

{ | }

	Displays the VTP version 3 domain information.
	Forces the display to show only devices that are in conflict in the VTP version 3 domain.

This command has no default settings.

Switch command.

Normal.

This example shows information about devices in the VTP version 3 domain:

```
VLAN         Yes  4        0005.3140.6400=0005.3140.6400 C6506-74-17>
VLAN         Yes  4        0005.3140.6400 00d0.0227.9c00 C6509-74-24>
Console>
```

Table 2-116 describes the fields in the command output.

Table 2-116 show vtp devices Command Output Fields

	a database that it originated, an equal sign (=) appears between the Primary Server field and the Device ID field.
Device ID	MAC address of the device.
Device Description	Type of switch identified in the Device ID field.

show vtp domain

Syntax Description

Defaults

Command Types

Command Modes

Examples

Table 2-117 show vtp domain Command Output Fields

Table 2-117 show vtp domain Command Output Fields (continued)

Table 2-118 show vtp statistics Command Output Fields

Join Transmitted	Number of VTP-Pruning Joins transmitted.
Join Received	Number of VTP-Pruning Joins received.
Summary advts received from nonpruning-capable device	Number of Summary advts received from nonpruning-capable devices.
GVRP PDU Received	Number of GVRP messages received on VTP trunks.

show web-auth statistics

Syntax Description

Defaults

Command Types

Command Modes

Examples

```
show web-auth statistics
```

Related Commands

set port web-auth initialize
set web-auth
set web-auth login-attempts
set web-auth login-fail-page
set web-auth login-page
set web-auth quiet-timeout
set web-auth session-timeout
show port web-auth

show web-auth summary

show web-auth summary

vlan *vlan_id*

- The * indicates the RADIUS assigned value.
- The State field displays the current web-authentication state of the given host.

Examples

This example shows how to display a summary of information about the web-based proxy authentication session:

```
9.9.150. 1      1/1      Authenticated       * 7200                200              100
9.9.150.2       1/2      Authenticating        3600                -                100
9.9.150.3       1/3      Authentication-fai    3600                -                100
9.9.160.10      1/4      Held                  3600                -                200
9.9.170.15      1/5      Connecting            3600                -                300
Console> (enable)
```

```
Console> (enable)
-------------------------------------------------------------------------------
IP Address    Interface   Web Auth State   Session-Timeout   Leftover-Session-Time
-------------------------------------------------------------------------------
9.9.150. 1      1/1       Authenticated       * 7200               200
9.9.150.2       1/2       Authenticating        3600               -
9.9.150.3       1/3       Held                  3600               -
Console> (enable)
```

You can use the command from a console port session or a Telnet session.

This example shows how to enable SLIP for a console port during a console port session:

```
<console port running SLIP>


Console> (enable)
SLIP detached on Console port.
<console port back to RS-232 Console>
Console> (enable)
```

squeeze

m/ device:

:

squeeze

show flash

```
        squeeze slot0:
All deleted files will be removed, proceed (y/n) [n]?
Squeeze operation may take a while, proceed (y/n) [n]?
.....................................................
Console>
-#- ED --type-- --crc--- -seek-- nlen -length- -----date/time------ name
  1 .. 2        f3a3e7c1  607f80   24  6061822 Mar 31 2000 15:42:49 cat6000-sup.
5-5-1.bin
7336000 bytes available (1052608 bytes used)
Console>
```

dir—switch
show flash
undelete