Determine the Serial Number of Catalyst Switch Components

Contents

Introduction

This document describes how to determine the serial numbers of various replaceable components on Cisco Catalyst switches.

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

The information in this document is based on these software and hardware versions:

- Various Catalyst switches

- Various software versions

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Conventions

Refer to [Cisco Technical Tips Conventions](#) for more information on document conventions.

Background Information

The serial numbers are necessary to create a database of the parts in the network. When you create a service request with [Cisco Technical Support](#), you must have the serial number of the affected devices at hand. This requirement is especially the case when you need a replacement part, or return materials authorization (RMA).

The serial number of Cisco Catalyst switches cannot be modified. For management purposes, you can configure the Cisco Catalyst switches that run Cisco IOS® software to return a custom string. In order to create a custom string, issue the **snmp-server chassis-id** command in global configuration mode.

Note: For specific information about show commands, see [Show Commands](#).

Catalyst 6500

To determine the serial number for the chassis and other components, issue the show idprom command:

```
<#root>

6506#

show idprom ?

  all           selects all FRU-types
  backplane     specify backplane
  clock         specify clock <number>
  earl          specify earl <slot>
  fan-tray      specify fan-tray <number>
  interface     interface name
  module        specify module <slot>
  power-supply  specify power-supply <number>
  rp            specify RP (MSFC) <slot>
  supervisor    specify supervisor <slot>
  vtt           specify VTT <number>
```

To obtain the chassis serial number, issue the **show idprom backplane** command:

```
<#root>

6506#

show idprom backplane


IDPROM for backplane #0
  (FRU is 'Catalyst 6500 6-slot backplane')
  OEM String = 'Cisco Systems'


Product Number = 'WS-C6506'
```

```
        Serial Number = 'TBA03270652'

     Manufacturing Assembly Number = '73-3436-01'
     Manufacturing Assembly Revision = 'A0'
     Hardware Revision = 1.0
     Current supplied (+) or consumed (-) =  -A
```

To obtain the module serial number, issue the **show idprom module slot <slot number>** command.
Alternatively, you can issue the **show module** command:

```
<#root>

6506#

show module

Mod Ports Card Type                                    Model

Serial No.

--- ----- ------------------------------------ ------------------ -----------
  1    2  Catalyst 6000 supervisor 2 (Active)  WS-X6K-S2U-MSFC2

SAD055006NE

  3    0  2 port adapter FlexWAN                WS-X6182-2PA

SAD04350EEU

  4   48  SFM-capable 48-port 10/100 Mbps RJ45  WS-X6548-RJ-45

SAD055108C2


Mod MAC addresses                        Hw     Fw           Sw           Status
--- ------------------------------------ ------ ------------ ------------ -------
  1  0001.6415.a602 to 0001.6415.a603    3.2    6.1(3)       7.5(0.6)HUB6 Ok
  3  0001.6413.c86b to 0001.6413.c8aa    1.5    12.1(13)E1   12.1(13)E1   Ok
  4  0001.63d3.e77a to 0001.63d3.e7a9    4.0    6.3(1)       7.5(0.6)HUB6 Ok

Mod Sub-Module               Model            Serial          Hw      Status
--- ------------------------- --------------- --------------- ------- -------
  1 Policy Feature Card 2     WS-F6K-PFC2     SAD055004VA     3.0     Ok
  1 Cat6k MSFC 2 daughterboard WS-F6K-MSFC2   SAD055006VF     2.0     Ok

Mod Online Diag Status
--- -------------------
  1 Pass
  3 Not Supported
  4 Pass
```

Note: Use the show diagbus command to determine the serial number of port adapters on the Flex WAN module.

Catalyst 4500

Catalyst 4500 with Supervisor Engine 2

On the Catalyst 4500/4000 Supervisor 2, the chassis serial number is available via CLI in versions 5.5(10), 6.3(2), and later versions. In earlier versions, the **show version** command shows the Supervisor Engine serial number in the place of the chassis serial number. To obtain the serial number of the chassis in these earlier versions, check the external sticker on the chassis.

Catalyst 4500 Supervisor Engine II+/III/IV

To determine the serial number of the chassis and other components use the **show idprom** command:

<#root>

Switch#

show idprom ?

```
  all           show all non-interface IDPROMs
  chassis       show IDPROM for chassis
  fan-tray      show IDPROM for system fan tray
  interface     show contents of gbic connected to this interface
  module        show IDPROM for module
  power-supply  show IDPROM for power supply
  supervisor    show IDPROM for supervisor
```

To obtain the chassis serial number use the show idprom chassis command:

<#root>

Switch#

show idprom chassis

```
Chassis Idprom :
 Common Block Signature = 0xABAB
 Common Block Version = 1
 Common Block Length = 144
 Common Block Checksum = 4081
 Idprom Size = 256
 Block Count = 2
 FRU Major Type = 0x4001
 FRU Minor Type = 37
 OEM String = Cisco Systems, Inc.
 Product Number = WS-C4506
 Serial Number = FOX0627A001
 Part Number = 73-8107-04
 Part Revision = 01
 Manufacturing Deviation String = 0
 Hardware Revision = 0.4
 Manufacturing Bits = 0x0000
 Engineering Bits = 0x0000
 Snmp OID = 0.0.0.0.0.0.0.0
 Power Consumption = 0
 RMA Failure Code = 0 0 0 0
 Chassis Block Signature = 0x4001
 Chassis Block Version = 1
```

```
 Chassis Block Length = 22
 Chassis Block Checksum = 628
 Feature Bits = 0x0000000000000000
 MAC Base = 000a.4172.df40
 MAC Count = 64
```

To obtain the power supply serial number use the **show idprom power-supply {1 | 2}** command:

```
<#root>

Switch#

show idprom power-supply 1

Power Supply 1 Idprom :
 Common Block Signature = 0xABAB
 Common Block Version = 1
 Common Block Length = 144
 Common Block Checksum = 5857
 Idprom Size = 256
 Block Count = 2
 FRU Major Type = 0x4501
 FRU Minor Type = 1
 OEM String = Cisco Systems, Inc.


Product Number = PWR-C4K-1400AC


Serial Number = ABC06260005

 Part Number = 34-1846-01
 Part Revision = 45
 Manufacturing Deviation String =
 Hardware Revision = 1.0
 Manufacturing Bits = 0x0000
 Engineering Bits = 0x0000
 Snmp OID = 22616.22616.22616.22616.22616.22616.22616.22616
 Power Consumption = 1400
 RMA Failure Code = 0 0 0 0
 Power Supply  Block Signature = 0x4501
 PowerSupply Block Version = 1
 PowerSupply Block Length = 20
 PowerSupply Block Checksum = 293
 Feature Bits = 0x0000000000000000
 Current @ 110V = 17
 Current @ 220V = 9
 StackMIB OID = 22616
```

To obtain the module serial number use the **show idprom module slot <slot number>** command. Alternatively, you can use the **show module** command:

```
<#root>

Switch#
```

```
show module
```

Mod	Ports	Card Type	Model	Serial No.
1	2	1000BaseX (GBIC) Supervisor(active)	WS-X4014	JAB054109H1
3	48	10/100BaseTX (RJ45)	WS-X4148	JAB025202M6
4	6	1000BaseX (GBIC)	WS-X4306	JAB023403BG

M	MAC addresses	Hw	Fw	Sw	Status
1	000a.4172.df40 to 000a.4172.df41	0.5	12.1(12r)EW	12.1(13)EW(0.34)	Ok
3	0050.730b.2340 to 0050.730b.236f	1.0			Ok
4	0010.7bfa.7ca4 to 0010.7bfa.7ca9	2.0			Ok

Catalyst 3750

Use the **show version** command to determine the chassis serial number and switch model type, as the example here shows. You find all switch stack members, chassis, and serial number information in the output:

```
<#root>

3750#

show version

Cisco Internetwork Operating System Software
Cisco IOS (tm) C3750 Software (C3750-I5-M), Version 12.1(14)EA1, RELEASE SOFTWARE (fc1
)
Copyright (c) 1986-2003 by cisco Systems, Inc.
Compiled Tue 22-Jul-03 13:17 by antonino
Image text-base: 0x00003000, data-base: 0x008F0CF8

ROM: Bootstrap program is C3750 boot loader
BOOTLDR: C3750 Boot Loader (C3750-HBOOT-M) Version 12.1(11r)AX, RELEASE SOFTWARE
(fc1)

3750RJ uptime is 1 hour, 29 minutes
System returned to ROM by power-on
System image file is "flash:c3750-i5-mz.121.14-EA1/c3750-i5-mz.121.14-EA1.bin"

cisco WS-C3750-24TS (PowerPC405) processor (revision A0) with 120822K/10240K byt
es of memory.
Processor board ID CAT0726R0ZU
Last reset from power-on
```

Bridging software.
2 Virtual Ethernet/IEEE 802.3 interface(s)
48 FastEthernet/IEEE 802.3 interface(s)
16 Gigabit Ethernet/IEEE 802.3 interface(s)
The password-recovery mechanism is enabled.

512K bytes of flash-simulated non-volatile configuration memory.
Base ethernet MAC Address : 00:0D:29:B4:18:00
Motherboard assembly number : 73-7055-06
Power supply part number : 341-0034-01
Motherboard serial number : CAT0726043V
Power supply serial number : PHI0708009K
Model revision number : A0
Motherboard revision number : A0

Model number : WS-C3750-24TS-E

System serial number : CAT0726R0ZU

Switch Ports Model SW Version SW Image

------ ----- ----- ---------- ----------
* 1 26 WS-C3750-24TS 12.1(14)EA1 C3750-I5-M
2 26 WS-C3750-24TS 12.1(14)EA1 C3750-I5-M
3 12 WS-C3750G-12S 12.1(14)EA1 C3750-I5-M

Switch 02

Switch Uptime : 1 hour, 29 minutes
Base ethernet MAC Address : 00:0D:29:B4:3F:00
Motherboard assembly number : 73-7055-06
Power supply part number : 341-0034-01
Motherboard serial number : CAT07260438
Power supply serial number : PHI0708008X
Model revision number : A0
Motherboard revision number : A0

Model number : WS-C3750-24TS-E

System serial number : CAT0726R10A

Switch 03

Switch Uptime : 1 hour, 29 minutes
Base ethernet MAC Address : 00:0D:BD:6A:3E:00
Motherboard assembly number : 73-8307-06
Power supply part number : 341-0048-01
Motherboard serial number : CAT073205S2
Power supply serial number : DTH0731055Z
Model revision number : A0
Motherboard revision number : A0

Model number : WS-C3750G-12S-E

System serial number : CAT0732R0M4

Top assembly part number : 800-23419-01
Top assembly revision number : A0

```
Configuration register is 0xF

3750#
```

Catalyst 3560

To determine the chassis serial number and switch model type use the **show version** command:

```
<#root>

3560#

show version

Cisco Internetwork Operating System Software
Cisco IOS (tm) C3560 Software (C3560-I5-M), Version 12.1(19)EA1c, RELEASE SOFTWARE (fc
2)
Copyright (c) 1986-2004 by cisco Systems, Inc.
Compiled Tue 03-Feb-04 05:56 by yenanh
Image text-base: 0x00003000, data-base: 0x0091D404

ROM: Bootstrap program is C3560 boot loader
BOOTLDR: C3560 Boot Loader (C3560-HBOOT-M) Version 12.1(19r)EA1b, RELEASE SOFTWA
RE (fc2)

3-8-03-CATS3560 uptime is 8 weeks, 4 days, 18 hours, 16 minutes
System returned to ROM by power-on
System image file is "flash:c3560-i5-mz.121-19.EA1c.bin"

cisco WS-C3560-24PS (PowerPC405) processor (revision D0) with 118776K/12288K byt
es of memory.
Processor board ID CSG0802P0G4
Last reset from power-on
Bridging software.
1 Virtual Ethernet/IEEE 802.3 interface(s)
24 FastEthernet/IEEE 802.3 interface(s)
2 Gigabit Ethernet/IEEE 802.3 interface(s)
The password-recovery mechanism is enabled.

512K bytes of flash-simulated non-volatile configuration memory.
Base ethernet MAC Address : 00:0E:39:E9:32:80
Motherboard assembly number : 73-9299-01
Power supply part number : 341-0029-03
Motherboard serial number : CAT075108EK
Power supply serial number : LIT074900K3
Model revision number : D0
Motherboard revision number : C0

Model number : WS-C3560-24PS-E
System serial number : CSG0802P0G4

Top Assembly Part Number : 800-24814-01
Top Assembly Revision Number : D0
Version ID : N/A
Hardware Board Revision Number : 0x08
```

Catalyst 3550

To determine the chassis serial number and switch model type use the **show version** command:

```
<#root>

Cat3550#

show version

Cisco Internetwork Operating System Software
Cisco IOS (tm) C3550 Software (C3550-I5Q3L2-M), Version 12.1(12c)EA1, RELEASE SOFTWARE (fc1)
Copyright (c) 1986-2002 by cisco Systems, Inc.
Compiled Mon 25-Nov-02 00:07 by antonino
Image text-base: 0x00003000, data-base: 0x0075FE48

ROM: Bootstrap program is C3550 boot loader

Cat3550 uptime is 4 days, 2 hours, 57 minutes
System returned to ROM by power-on
System image file is "flash:c3550-i5q3l2-mz.121-12c.EA1.bin"

cisco WS-C3550-48 (PowerPC) processor (revision G0) with 65526K/8192K bytes of memory.
Processor board ID CHK0642W02B
Last reset from warm-reset
Bridging software.
Running Layer2/3 Switching Image

Ethernet-controller 1 has 12 Fast Ethernet/IEEE 802.3 interfaces

Ethernet-controller 2 has 12 Fast Ethernet/IEEE 802.3 interfaces

Ethernet-controller 3 has 12 Fast Ethernet/IEEE 802.3 interfaces

Ethernet-controller 4 has 12 Fast Ethernet/IEEE 802.3 interfaces

Ethernet-controller 5 has 1 Gigabit Ethernet/IEEE 802.3 interface

Ethernet-controller 6 has 1 Gigabit Ethernet/IEEE 802.3 interface

48 FastEthernet/IEEE 802.3 interface(s)
2 Gigabit Ethernet/IEEE 802.3 interface(s)

The password-recovery mechanism is enabled.
384K bytes of flash-simulated non-volatile configuration memory.
Base ethernet MAC Address: 00:0B:46:8A:2F:80
Motherboard assembly number: 73-5701-07
Power supply part number: 34-0967-01
Motherboard serial number: CAT0641027L
Power supply serial number: DCA06392BU2
Model revision number: G0
Motherboard revision number: A0

Model number: WS-C3550-48-SMI

System serial number: CHK0642W02B

Configuration register is 0x10F
```

Catalyst 2950/2970/2940

To determine the chassis serial number and switch model type use the show version command:

<#root>

Cat2950#

show version

```
Cisco Internetwork Operating System Software
Cisco IOS (tm) C2950 Software (C2950-I6Q4L2-M), Version 12.1(12c)EA1, RELEASE SOFTWARE (fc1)
Copyright (c) 1986-2002 by cisco Systems, Inc.
Compiled Sun 24-Nov-02 23:31 by antonino
Image text-base: 0x80010000, data-base: 0x80562000

ROM: Bootstrap program is CALHOUN boot loader

Cat2950 uptime is 4 days, 2 hours, 52 minutes
System returned to ROM by power-on
System image file is "flash:c2950-i6q4l2-mz.121-12c.EA1.bin"

cisco WS-C2950G-48-EI (RC32300) processor (revision C0) with 21002K bytes of memory.
Processor board ID FHK0624W0HS
Last reset from system-reset
Running Enhanced Image
48 FastEthernet/IEEE 802.3 interface(s)
2 Gigabit Ethernet/IEEE 802.3 interface(s)

32K bytes of flash-simulated non-volatile configuration memory.
Base ethernet MAC Address: 00:09:E8:89:4A:40
Motherboard assembly number: 73-7409-08
Power supply part number: 34-0965-01
Motherboard serial number: FOC06230ERQ
Power supply serial number: DAB062143BP
Model revision number: C0
Motherboard revision number: B0
```

Model number: WS-C2950G-48-EI

System serial number: FHK0624W0HS

```
Configuration register is 0xF
```

Catalyst 2900XL/3500XL

To determine the chassis serial number and switch model type use the show version command:

<#root>

Switch#

show version

```
Cisco Internetwork Operating System Software
Cisco IOS (tm) C3500XL Software (C3500XL-C3H2S-M), Version 12.0(5.2)XU, MAINTENANCE
INTERIM SOFTWARE
```

Copyright (c) 1986-2000 by cisco Systems, Inc.
Compiled Mon 17-Jul-00 18:29 by ayounes
Image text-base: 0x00003000, data-base: 0x00301F3C

ROM: Bootstrap program is C3500XL boot loader

Switch uptime is 4 days, 3 hours, 4 minutes
System returned to ROM by power-on
System image file is "flash:c3500XL-c3h2s-mz-120.5.2-XU.bin"

Cisco WS-C3548-XL (PowerPC403) processor (revision 0x01) with 16384K/1024K bytes
of memory. Processor board ID FOC0616X0RG, with hardware revision 0x00
Last reset from power-on

Processor is running Enterprise Edition Software
Cluster command switch capable
Cluster member switch capable
48 FastEthernet/IEEE 802.3 interface(s)
2 Gigabit Ethernet/IEEE 802.3 interface(s)

32K bytes of flash-simulated non-volatile configuration memory.
Base ethernet MAC Address: 00:09:7C:8E:78:80
Motherboard assembly number: 73-3903-09
Power supply part number: 34-0971-02
Motherboard serial number: FOC06160L07
Power supply serial number: APQ061200VZ
Model revision number: M0
Motherboard revision number: A0

Model number: WS-C3548-XL-EN

System serial number: FOC0616X0RG

Configuration register is 0xF

Catalyst 2948GL3/4908G-L3/4980G-L3

To determine the chassis serial number use the show hardware command:

<#root>

2948g-l3#

show hardware

Model: Cat-2948G-L3 Date: 17:49:42 UTC Tue Mar 18 2003

XPIF FPGA File: xpif_fpga_0_72b_CClk.rbt
XPIF FPGA Date: Wed Dec 8 17:05:42 1999

Slot 0/0:
     Chip 0 Reset Count: 0   Chip 1 Reset Count: 0
     Chip 2 Reset Count: 0   Chip 3 Reset Count: 0
     Chip 4 Reset Count: 0   Chip 5 Reset Count: 0
     Chip 6 Reset Count: 0   Chip 7 Reset Count: 0
     Chip 8 Reset Count: 0   Chip 9 Reset Count: 0
     Chip 10 Reset Count: 0   Chip 11 Reset Count: 0

```
EPIF Version      : 0                      CAM size: 32 KB
Ucode Version     : 1.0
Ucode Image       : EPIF_UCODE_RUNTIME
Port Phy Setup
    Port1 :DONE       Port2 :DONE       Port3 :DONE       Port4 :DONE
    Port5 :DONE       Port6 :DONE       Port7 :DONE       Port8 :DONE
    Port9 :DONE       Port10:DONE       Port11:DONE       Port12:DONE
    Port13:DONE       Port14:DONE       Port15:DONE       Port16:DONE
    Port17:DONE       Port18:DONE       Port19:DONE       Port20:DONE
    Port21:DONE       Port22:DONE       Port23:DONE       Port24:DONE
    Port25:DONE       Port26:DONE       Port27:DONE       Port28:DONE
    Port29:DONE       Port30:DONE       Port31:DONE       Port32:DONE
    Port33:DONE       Port34:DONE       Port35:DONE       Port36:DONE
    Port37:DONE       Port38:DONE       Port39:DONE       Port40:DONE
    Port41:DONE       Port42:DONE       Port43:DONE       Port44:DONE
    Port45:DONE       Port46:DONE       Port47:DONE       Port48:DONE

Slot 0/1:
XPIF Version      : 0                      CAM size: 128 KB
Ucode Version     : 1.0
Ucode Image       : XPIF_UCODE_RUNTIME
Port Phy Setup
    Port49:DONE       Port50:DONE

IDPROM Contents         :
  FRU Type              : 0x0.0x0
  OEM String            : Cisco_Systems


Product Number          : WS-C2948G-L3



Serial Number           : FOX05330ADH

  Mfg. Assembly No.     : 73-4083-07
  Mfg. Assembly Ver.    : A0
  Hardware Version      : 1.7
  FPGA Version          : 0
  SNMP IOD              : 9.5.1.3.1.1.2.275
  RMA Code              : 0
  Feature Bits          : 0x00000000
  MAC Address Base      : 00:07:85:07:DC:00
  Total MAC Addrs.      : 1024
```

Catalyst 9000

To determine the chassis serial number use the **show version** command. Alternatively, you can use the **show module** command to display a smaller output:

```
<#root>

C9300#

show version

Cisco IOS XE Software, Version 17.06.04
Cisco IOS Software [Bengaluru], Catalyst L3 Switch Software (CAT9K_IOSXE), Version 17.6.4, RELEASE
```

Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2022 by Cisco Systems, Inc.
Compiled Sun 14-Aug-22 08:58 by mcpre

Cisco IOS-XE software, Copyright (c) 2005-2022 by cisco Systems, Inc.
All rights reserved. Certain components of Cisco IOS-XE software are
licensed under the GNU General Public License ("GPL") Version 2.0. The
software code licensed under GPL Version 2.0 is free software that comes
with ABSOLUTELY NO WARRANTY. You can redistribute and/or modify such
GPL code under the terms of GPL Version 2.0. For more details, see the
documentation or "License Notice" file accompanying the IOS-XE software,
or the applicable URL provided on the flyer accompanying the IOS-XE
software.

ROM: IOS-XE ROMMON
BOOTLDR: System Bootstrap, Version 17.8.1r[FC2], RELEASE SOFTWARE (P)

C9300 uptime is 1 week, 2 days, 17 hours, 51 minutes
Uptime for this control processor is 1 week, 2 days, 17 hours, 54 minutes
System returned to ROM by Reload Command at 07:14:20 jst Wed Aug 2 2023
System restarted at 07:29:56 jst Wed Aug 2 2023
System image file is "flash:packages.conf"
Last reload reason: Reload Command

This product contains cryptographic features and is subject to United
States and local country laws governing import, export, transfer and
use. Delivery of Cisco cryptographic products does not imply
third-party authority to import, export, distribute or use encryption.
Importers, exporters, distributors and users are responsible for
compliance with U.S. and local country laws. By using this product you
agree to comply with applicable laws and regulations. If you are unable
to comply with U.S. and local laws, return this product immediately.

A summary of U.S. laws governing Cisco cryptographic products may be found at:
http://www.cisco.com/wwl/export/crypto/tool/stqrg.html

If you require further assistance please contact us by sending email to
export@cisco.com.

Technology Package License Information:

Technology-package   Technology-package
Current   Type   Next reboot
----
network-advantage   Smart License   network-advantage
dna-advantage   Subscription Smart License   dna-advantage
AIR License Level: AIR DNA Advantage
Next reload AIR license Level: AIR DNA Advantage

Smart Licensing Status: Registration Not Applicable/Not Applicable

cisco C9300-24UX (X86) processor with 1317097K/6147K bytes of memory.
Processor board ID FJC2325E0HB
5 Virtual Ethernet interfaces
8 Gigabit Ethernet interfaces

```
64 Ten Gigabit Ethernet interfaces
4 TwentyFive Gigabit Ethernet interfaces
4 Forty Gigabit Ethernet interfaces
2048K bytes of non-volatile configuration memory.
8388608K bytes of physical memory.
1638400K bytes of Crash Files at crashinfo:.
11264000K bytes of Flash at flash:.


Base Ethernet MAC Address       : c4:c6:03:9a:bd:80
Motherboard Assembly Number     : 73-18276-03
Motherboard Serial Number       : FJZ23210BTF
Model Revision Number           : D0
Motherboard Revision Number     : B0

Model Number                    : C9300-24UX

System Serial Number            : FJC2325E0HB

CLEI Code Number                :


Switch Ports Model              SW Version       SW Image              Mode
------ ----- -----              ----------       ----------            ----
*   1 41     C9300-24UX         17.06.04         CAT9K_IOSXE           INSTALL


C9300#

show module

Switch  Ports    Model                   Serial No.   MAC address    Hw Ver.     Sw Ver.
------  -----    ---------               -----------  -------------- -------     --------
  1      41

C9300-24UX


FJC2325E0HB

  c4c6.039a.bd80  V02          17.06.04
C9300#
```

Related Information

- **Show Commands**
- **Cisco Technical Support & Downloads**