

Password Recovery Procedure for the Catalyst 6500 with Supervisor 720 Running Cisco IOS Software Prior to 12.2(17)SX

Document ID: 45681

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Introduction

This document describes how to recover a password on a Catalyst 6500 Series Switch with a Supervisor 720 that runs Cisco IOS® System software with a version prior to 12.2(17)SX.

The reason for the procedure being different for Cisco IOS Software releases prior to 12.2(17)SX is Cisco bug ID CSCec36997 (registered customers only) (Password recovery on sup720-native leads to crash on the switch processor (SP)). When your switch is subject to this bug, you have approximately 10 seconds after breaking into RP ROMMON to change the configuration register to 0x2142. After these 10 seconds, the switch reloads with a Software Forced reload. However, if you change the configuration register to this value prior to the crash, it takes effect after the reload and you can continue with the rest of the procedure.

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

This document applies to the Supervisor 720-based systems that run Cisco IOS software releases prior to 12.2(17)SX. If your supervisor 720 runs Cisco IOS Software Release 12.2(17)SX or later, refer to the Password Recovery Procedure for the Catalyst 6000/6500 Series Switches Running Cisco IOS System Software document.

Overview

The boot sequence is different on the Catalyst 6500/6000 that runs Cisco IOS than on the Cisco 7200 Series Router because the hardware is different. After you power-cycle the box, the SP boots up. After approximately 25–60 seconds, it transfers console ownership to the route processor (RP (MSFC)). The RP continues to load the bundled software image. It is crucial that you press **Ctrl-Break** just after the SP gives over the control of the console to the RP. If you send the break sequence too soon, you end up in the ROMMON of the SP, which is not where you should be. Send the break sequence after you see this message

on the console:

```
00:00:03: %OIR-6-CONSOLE: Changing console ownership to route processor
```

After this point, the password recovery is the same as a normal router.

Note: From this point onward, the Catalyst 6500 Series Switch that runs Cisco IOS software is referred to as a router.

Conventions

For more information on document conventions, refer to the Cisco Technical Tips Conventions.

Step-by-Step Procedure

The switch is configured like a router because the Cisco IOS operating system runs on the switch. The password recovery procedure follows the same steps as a Cisco 7200 Series Router. The exception is that you have to wait about 25–60 seconds longer before you start the break sequence.

1. Attach a terminal or PC with terminal emulation to the console port of the router. Use these terminal settings:

```
9600 baud rate
No parity
8 data bits
1 stop bit
No flow control
```

The required console cable specifications are described in the Cable Specifications document. Instructions on how to connect to the console port are in the Module Installation Guide. The Connecting to the Console Port – Supervisor Engine Only section provides useful information.

2. If you still have access to the router, issue the **show version** command, and record the setting of the configuration register. It is usually 0x2102 or 0x102. Click here to see the sample output of a **show version** command.
3. If you do not have access to the router (because of a lost login or TACACS password), it is safe to assume that your configuration register is set to 0x2102.
4. Power down and then power up the router with the help of the power switch.
5. Press **Break** on the terminal keyboard right after the RP gains control of the console port. On the Catalyst 6500 that runs Cisco IOS, the SP boots first. It then turns control over to the RP. After the RP gains control, initiate the break sequence. The RP has gained control of the console port when you see this message. (Do not initiate the break sequence until you see this message):

```
00:00:03: %OIR-6-CONSOLE: Changing console ownership to route processor
```

Due to Cisco bug ID CSCec36997 (registered customers only) (Password recovery on sup720–native leads to crash on SP), you have about 10 seconds to complete Step 6 before the switch crashes.

If the break sequence does not work, refer to the Standard Break Key Sequence Combinations During Password Recovery for other key combinations.

6. Type **confreg 0x2142** at the rommon 1> prompt to boot from Flash without loading the configuration.
7. The switch crashes with a Software Forced Crash:

```
rommon 1 >
00:00:41: %SYS-SP-3-LOGGER_FLUSHED: System was paused for 00:00:00 to ensure co.
```

```

00:00:41: %SYS-SP-2-INTSCHED: 't_idle' at level 7
-Process= "SCP Download Process", ipl= 7, pid= 57
-Traceback= 4013991C 401232B4 402827F4 40282994 40283010 405CB010 402A9858 4013C
00:00:41: %SYS-SP-2-INTSCHED: 't_idle' at level 7
-Process= "SCP Download Process", ipl= 7, pid= 57
-Traceback= 4013991C 401232B4 402827F4 40282994 40283010 405CB010 402A9858 4013C
00:00:41: %SYS-SP-2-INTSCHED: 't_idle' at level 7
-Process= "SCP Download Process", ipl= 7, pid= 57
-Traceback= 4013991C 401232B4 402827F4 40282994 40283010 405CB010 402A9858 4013C
00:00:41: %OIR-SP-6-CONSOLE: Changing console ownership to switch processor

*** System received a Software forced crash ***
signal= 0x17, code= 0x24, context= 0x4269f6f4
PC = 0x401370d8, Cause = 0x3020, Status Reg = 0x34008002

```

The router reboots. However, it ignores its saved configuration due to the fact that the configuration register is set to 0x2142. If you see that the router configuration is still present (still previous hostname), it indicates that the configuration register was not changed to 0x2142 in time prior to the crash. If this is the case, start over again (Step 4). If the configuration register is correctly changed to 0x2142, you get the initial configuration questions after the reload.

8. Type **no** after each setup question, or press **Ctrl-C** to skip the initial setup procedure.
9. Type **enable** at the Router> prompt. You are in **enable** mode. The Router# prompt is displayed.
10. It is **important** to issue the **configure memory** or **copy start running** commands to copy the Nonvolatile RAM (NVRAM) into memory. Do not issue the **configure terminal** command.
11. Issue either the **write terminal** or **show running** command. These commands show the configuration of the router. In this configuration, you see the **shutdown** command under all the interfaces. This means that all the interfaces are currently shut down. You see the passwords either in encrypted or unencrypted format.
12. Issue the **configure terminal** command to enter global configuration mode and make the changes. The prompt is now hostname(config)#.
13. Issue the **enable secret <password>** in global configuration mode to change the **enable** password.
14. Issue the **config-register 0x2102** command, or the value you recorded in Step 2 in global configuration mode (Router(config)#) to set the configuration value back to its original value.
15. Change any virtual terminal passwords, if present:

```

Router(config)#line vty 0 4
Router(config-line)#password cisco
Router(config-line)#^Z
Router#

```

16. Issue the **no shutdown** command on every interface that is normally in use. Issue a **show ip interface brief** command to see a list of interfaces and their current status. You must be in enable mode (Router#) to execute the **show ip interface brief** command. Here is an example for one interface:

```

Router#show ip interface brief

```

Interface	IP-Address	OK?	Method	Status	Prol
Vlan1	172.17.10.10	YES	TFTP	administratively down	dow
Vlan10	10.1.1.1	YES	TFTP	administratively down	dow
GigabitEthernet1/1	unassigned	YES	unset	administratively down	dow
GigabitEthernet1/2	unassigned	YES	TFTP	administratively down	dow
GigabitEthernet2/1	unassigned	YES	TFTP	administratively down	dow
GigabitEthernet2/2	unassigned	YES	TFTP	administratively down	dow
FastEthernet3/1	172.16.84.110	YES	TFTP	administratively down	dow

```

<snip>...

```

```

Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface fastEthernet 3/1
Router(config-if)#no shutdown
Router(config-if)#exit
Router(config)# <do other interfaces as necessary...>

```

17. Press **Ctrl-Z** to leave the configuration mode. The prompt is now hostname#.
18. Issue either the **write memory** or **copy running startup** commands to commit the changes.

Sample Output

The example here shows an actual password recovery procedure. This example is created with the help of a Catalyst 6500 Series switch. Begin with the **show version** and **show module** commands to see the components that are used in this example.

Press RETURN to get started.

```
sup720>enable
Password:
sup720#
sup720#show version
Cisco Internetwork Operating System Software
IOS (tm) s72033_rp Software (s72033_rp-PS-M), Version 12.2(14)SX1, EARLY DEPLOY)
TAC Support: http://www.cisco.com/tac
Copyright (c) 1986-2003 by cisco Systems, Inc.
Compiled Tue 27-May-03 20:40 by ccai
Image text-base: 0x40008C10, data-base: 0x41ACE000
```

```
ROM: System Bootstrap, Version 12.2(14r)S9, RELEASE SOFTWARE (fc1)
BOOTLDR: s72033_rp Software (s72033_rp-PS-M), Version 12.2(14)SX1, EARLY DEPLOY)
```

```
sup720 uptime is 18 minutes
Time since sup720 switched to active is 17 minutes
System returned to ROM by power-on (SP by reload)
System image file is "disk0:s72033-ps-mz.122-14.SX1.bin"
```

```
cisco Catalyst 6000 (R7000) processor with 458752K/65536K bytes of memory.
Processor board ID
SR71000 CPU at 600Mhz, Implementation 0x504, Rev 1.2, 512KB L2 Cache
Last reset from power-on
X.25 software, Version 3.0.0.
Bridging software.
3 Virtual Ethernet/IEEE 802.3 interface(s)
96 FastEthernet/IEEE 802.3 interface(s)
58 Gigabit Ethernet/IEEE 802.3 interface(s)
1917K bytes of non-volatile configuration memory.
8192K bytes of packet buffer memory.
```

```
65536K bytes of Flash internal SIMM (Sector size 512K).
Configuration register is 0x2102
```

```
sup720#
sup720#show module
```

Mod	Ports	Card Type	Model	Serial No.
1	16	16 port GE RJ45	WS-X6316-GE-TX	SAD04100A9R
2	48	48 port 10/100 mb RJ-45 ethernet	WS-X6248-RJ-45	SAD041402P9
4	16	SFM-capable 16 port 1000mb GBIC	WS-X6516A-GBIC	SAL0705CD7X
5	2	Supervisor Engine 720 (Active)	WS-SUP720-BASE	SAD070600MU
7	24	aCEF720 24 port 1000mb SFP	WS-X6724-SFP	SAD0725035Y
9	48	48-port 10/100 mb RJ45	WS-X6148-RJ45V	SAL06282HGE

Mod	MAC addresses	Hw	Fw	Sw	Status
1	00d0.9738.702a to 00d0.9738.7039	0.202	5.3(1)	7.7(0.74)APP	Ok
2	0001.9709.5c90 to 0001.9709.5cbf	1.2	5.1(1)CSX	7.7(0.74)APP	Ok
4	0009.11f6.aa28 to 0009.11f6.aa37	1.0	7.2(1)	7.7(0.74)APP	Ok
5	000c.3042.844c to 000c.3042.844f	1.0	7.7(1)	12.2(14)SX1	Ok
7	0030.f272.2666 to 0030.f272.267d	1.0	12.2(14r)S5	12.2(14)SX1	PwrDown
9	0009.127c.8d40 to 0009.127c.8d6f	1.0	5.4(2)	7.7(0.74)APP	Ok

Mod	Sub-Module	Model	Serial	Hw	Status
5	Policy Feature Card 3	WS-F6K-PFC3A	SAD070601DR	1.0	Ok
5	MSFC3 Daughterboard	WS-SUP720	SAD070500YF	1.0	Ok
7	unknown FRU type (major = 0	WS-F6700-CFC	SAD073201KC	1.0	PwrDown
9	Inline Power Module	WS-F6K-PWR		1.0	Ok

Mod Online Diag Status

```

--- -----
 1 Pass
 2 Pass
 4 Pass
 5 Pass
 7 Unknown
 9 Pass
sup720#
sup720#
sup720#reload
Proceed with reload? [confirm]

```

!--- Here you turn off the power and then turn it back on.
!--- Here it is done with a reload instead of a hard power-cycle.

```

*Sep 29 04:21:13: %SYS-5-RELOAD: Reload requested by console.
*Sep 29 04:21:16: %OIR-SP-6-CONSOLE: Changing console ownership to switch procer

*Sep 29 04:21:18: %SYS-SP-5-RELOAD: Reload requested
*Sep 29 04:21:18: %OIR-SP-6-CONSOLE: Changing console ownership to switch procer

```

```

***
*** --- SHUTDOWN NOW ---
***

```

!--- First, the switch processor comes up.

System Bootstrap, Version 7.7(1)
 Copyright (c) 1994-2003 by cisco Systems, Inc.
 Cat6k-Sup720/SP processor with 524288 Kbytes of main memory

Autoboot executing command: "boot disk0:s72033-ps-mz.122-14.SX1.bin"

Self decompressing the image : #####]

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cisco Systems, Inc.
 170 West Tasman Drive
 San Jose, California 95134-1706

Cisco Internetwork Operating System Software
 IOS (tm) s72033_sp Software (s72033_sp-SP-M), Version 12.2(14)SX1, EARLY DEPLOY)
 TAC Support: <http://www.cisco.com/tac>
 Copyright (c) 1986-2003 by cisco Systems, Inc.
 Compiled Tue 27-May-03 20:48 by ccai

Image text-base: 0x40020C10, data-base: 0x40B98000

00:00:03: %PFREDUN-6-ACTIVE: Initializing as ACTIVE processor

00:00:03: %OIR-6-CONSOLE: Changing console ownership to route processor

*!--- The RP now has control of the console.
!--- This is when you send the break sequence.*

System Bootstrap, Version 12.2(14r)S9, RELEASE SOFTWARE (fc1)
TAC Support: <http://www.cisco.com/tac>
Copyright (c) 2003 by cisco Systems, Inc.
Cat6k-Sup720/RP platform with 524288 Kbytes of main memory

Download Start

*** Mistral Interrupt on line 4 ***

System memory 1 bit ECC correctable error interrupt ..

PC = 0x8000841c, SP = 0x80007f00, RA = 0x80008488

Cause Reg = 0x00004400, Status Reg = 0x3041c003

rommon 1 >

*!--- You are now in ROMMON mode on the RP. Continue the password
!--- recovery procedure just as on any router. Changing the configuration
!--- register from 0x2102 to 0x2142 causes the router to ignore the existing
!--- configuration. It needs to be ignored because it has passwords that are not
!--- known. Due to Cisco bug ID CSCec36997 : Password recovery on sup720-native leads to c
!--- on SP. You have about 10 seconds to change the configuration register to 0x2142.
!--- After these 10 seconds, the SP crashes. If the config register is not changed
!--- in time, start again.*

rommon 1 > **confreg 0x2142**

You must reset or power cycle for new config to take effect.

rommon 2 >

*!--- Without any intervention, the switch crashes in about 10 seconds
!--- after you break into RP ROMMON.*

00:00:31: %SYS-SP-3-LOGGER_FLUSHED: System was paused for 00:00:00 to ensure co.

00:00:31: %SYS-SP-2-INTSCHED: 't_idle' at level 7

-Process= "SCP Download Process", ipl= 7, pid= 57

-Traceback= 4013991C 401232B4 402827F4 40282994 40283010 405CB010 402A9858 4013C

00:00:31: %SYS-SP-2-INTSCHED: 't_idle' at level 7

-Process= "SCP Download Process", ipl= 7, pid= 57

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-Process= "SCP Download Process", ipl= 7, pid= 57

-Traceback= 4013991C 401232B4 402827F4 40282994 40283010 405CB010 402A9858 4013C

00:00:31: %OIR-SP-6-CONSOLE: Changing console ownership to switch processor

*** System received a Software forced crash ***

signal= 0x17, code= 0x24, context= 0x4269f6f4

PC = 0x401370d8, Cause = 0x3020, Status Reg = 0x34008002

System Bootstrap, Version 7.7(1)

Copyright (c) 1994-2003 by cisco Systems, Inc.

Cat6k-Sup720/SP processor with 524288 Kbytes of main memory

Autoboot executing command: "boot disk0:s72033-ps-mz.122-14.SX1.bin"

Self decompressing the image : #####]

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00:00:03: %PFREDUN-6-ACTIVE: Initializing as ACTIVE processor
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System Bootstrap, Version 12.2(14r)S9, RELEASE SOFTWARE (fc1)
TAC Support: <http://www.cisco.com/tac>
Copyright (c) 2003 by cisco Systems, Inc.
Cat6k-Sup720/RP platform with 524288 Kbytes of main memory

Download Start

!!

Download Completed! Booting the image.

Self decompressing the image : #####]

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Cisco Internetwork Operating System Software
IOS (tm) s72033_rp Software (s72033_rp-PS-M), Version 12.2(14)SX1, EARLY DEPLOY)
TAC Support: <http://www.cisco.com/tac>
Copyright (c) 1986-2003 by cisco Systems, Inc.
Compiled Tue 27-May-03 20:40 by ccai
Image text-base: 0x40008C10, data-base: 0x41ACE000

cisco Catalyst 6000 (R7000) processor with 458752K/65536K bytes of memory.
Processor board ID
SR71000 CPU at 600Mhz, Implementation 0x504, Rev 1.2, 512KB L2 Cache
Last reset from power-on
X.25 software, Version 3.0.0.
Bridging software.
1 Virtual Ethernet/IEEE 802.3 interface(s)

96 FastEthernet/IEEE 802.3 interface(s)
58 Gigabit Ethernet/IEEE 802.3 interface(s)
1917K bytes of non-volatile configuration memory.
8192K bytes of packet buffer memory.

65536K bytes of Flash internal SIMM (Sector size 512K).
--- System Configuration Dialog ---

Would you like to enter the initial configuration dialog? [yes/no]: n

*!--- The router ignores the saved configuration and enters
!--- the initial configuration mode.*

Press RETURN to get started!

00:00:03: %SYS-3-LOGGER_FLUSHED: System was paused for 00:00:00 to ensure conso.

00:00:46: curr is 0x10000

00:00:46: RP: Currently running ROMMON from F1 region
00:01:00: %SYS-5-RESTART: System restarted --
Cisco Internetwork Operating System Software
IOS (tm) s72033_rp Software (s72033_rp-PS-M), Version 12.2(14)SX1, EARLY DEPLOY)
TAC Support: <http://www.cisco.com/tac>
Copyright (c) 1986-2003 by cisco Systems, Inc.
Compiled Tue 27-May-03 20:40 by ccai
00:01:00: %SNMP-5-COLDSTART: SNMP agent on host Router is undergoing a cold stat
00:01:00: %SYS-6
Router>-BOOTTIME: Time taken to reboot after reload = 1807 seconds

Firmware compiled 19-May-03 10:54 by integ Build [100]

00:00:54: %SPANTREE-SP-5-EXTENDED_SYSID: Extended SysId enabled for type vlan
00:00:54: SP: SP: Currently running ROMMON from F1 region
00:01:00: %SYS-SP-5-RESTART: System restarted --
Cisco Internetwork Operating System Software
IOS (tm) s72033_sp Software (s72033_sp-SP-M), Version 12.2(14)SX1, EARLY DEPLOY)
TAC Support: <http://www.cisco.com/tac>
Copyright (c) 1986-2003 by cisco Systems, Inc.
Compiled Tue 27-May-03 20:48 by ccai
00:01:01: %OIR-SP-6-INSPTS: Power supply inserted in slot 1
00:01:01: %C6KPWR-SP-4-PSOK: power supply 1 turned on.
00:01:01: %OIR-SP-6-INSPTS: Power supply inserted in slot 2
00:01:01: %C6KPWR-SP-4-PSOK: power supply 2 turned on.
00:01:01: %C6KPWR-SP-4-PSREDUNDANTBOTHSUPPLY: in power-redundancy mode, system .
00:01:05: %FABRIC-SP-5-FABRIC_MODULE_ACTIVE: the switching fabric module in slot
00:01:06: %DIAG-SP-6-RUN_MINIMUM: Module 5: Running Minimum Diagnostics...
Router>
Router>
00:01:18: %DIAG-SP-6-DIAG_OK: Module 5: Passed Online Diagnostics
00:01:18: %OIR-SP-6-INSCARD: Card inserted in slot 5, interfaces are now online
00:01:21: %DIAG-SP-6-RUN_MINIMUM: Module 4: Running Minimum Diagnostics...
Router>
Router>
Router>
00:01:36: %DIAG-SP-6-RUN_MINIMUM: Module 9: Running Minimum Diagnostics...
Router>
Router>
00:01:42: %DIAG-SP-6-RUN_MINIMUM: Module 1: Running Minimum Diagnostics...
00:01:44: %DIAG-SP-6-DIAG_OK: Module 4: Passed Online Diagnostics
00:01:45: %OIR-SP-6-INSCARD: Card inserted in slot 4, interfaces are now online
00:01:54: %DIAG-SP-6-DIAG_OK: Module 9: Passed Online Diagnostics
00:01:54: %OIR-SP-6-INSCARD: Card inserted in slot 9, interfaces are now online
00:01:57: %DIAG-SP-6-DIAG_OK: Module 1: Passed Online Diagnostics


```

00:01:57: %OIR-SP-6-INSCARD: Card inserted in slot 1, interfaces are now online
00:02:06: %DIAG-SP-6-RUN_MINIMUM: Module 2: Running Minimum Diagnostics...
00:02:15: %DIAG-SP-6-DIAG_OK: Module 2: Passed Online Diagnostics
00:02:15: %OIR-SP-6-INSCARD: Card inserted in slot 2, interfaces are now online
Router>
Router>enable
Router#

```

*!--- You go right into privilege mode without needing a password.
!--- At this point, the configuration running-config is a default configuration
!--- with all the ports administratively down (shutdown).*

```

Router#copy startup-config running-config
Destination filename [running-config]? <press enter>

```

*!--- This pulls in your original configuration. Since you are already in privilege
!--- mode, the passwords in this configuration (that are not known) do not affect you.*

```

4864 bytes copied in 2.48 secs (2432 bytes/sec)
sup720#
sup720#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
sup720(config)#enable secret < password > [Choose a strong password with at least one capi

```

!--- Overwrite the password that you do not know. This is your new enable password.

```

sup720#show ip interface brief

```

Interface	IP-Address	OK?	Method	Status	Prol
Vlan1	10.48.72.142	YES	TFTP	administratively down	dow
Vlan500	10.1.1.1	YES	TFTP	administratively down	dow
Vlan501	10.2.2.1	YES	TFTP	administratively down	dow
GigabitEthernet1/1	unassigned	YES	TFTP	administratively down	dow
GigabitEthernet1/2	unassigned	YES	TFTP	administratively down	dow
GigabitEthernet1/3	unassigned	YES	TFTP	administratively down	dow
GigabitEthernet1/4	unassigned	YES	TFTP	administratively down	dow
GigabitEthernet1/5	unassigned	YES	TFTP	administratively down	dow
GigabitEthernet1/6	unassigned	YES	TFTP	administratively down	dow
GigabitEthernet1/7	unassigned	YES	TFTP	administratively down	dow

```

<snip>...

```

*!--- Issue the **no shut** command on all interfaces that you want to bring up.*

```

sup720#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
sup720(config)#interface gig 1/1
sup720(config-if)#no shut
sup720(config-if)#^Z
sup720#

```

!--- Overwrite the virtual terminal passwords.

```

sup720#configure terminal
sup720(config)#line vty 0 4
sup720(config-line)#password XXX
sup720(config-line)#^Z

```

sup720#

*!--- Restore the configuration register to its normal state
!--- so that it no longer ignores the stored configuration file.*

sup720#**show version**

Cisco Internetwork Operating System Software
IOS (tm) s72033_rp Software (s72033_rp-PS-M), Version 12.2(14)SX1, EARLY DEPLOY)
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ROM: System Bootstrap, Version 12.2(14r)S9, RELEASE SOFTWARE (fc1)
BOOTLDR: s72033_rp Software (s72033_rp-PS-M), Version 12.2(14)SX1, EARLY DEPLOY)

sup720 uptime is 4 minutes
Time since sup720 switched to active is 4 minutes
System returned to ROM by power-on (SP by error - a Software forced crash, PC 0)
System image file is "disk0:s72033-ps-mz.122-14.SX1.bin"

cisco Catalyst 6000 (R7000) processor with 458752K/65536K bytes of memory.
Processor board ID
SR71000 CPU at 600Mhz, Implementation 0x504, Rev 1.2, 512KB L2 Cache
Last reset from power-on
X.25 software, Version 3.0.0.
Bridging software.
3 Virtual Ethernet/IEEE 802.3 interface(s)
96 FastEthernet/IEEE 802.3 interface(s)
58 Gigabit Ethernet/IEEE 802.3 interface(s)
1917K bytes of non-volatile configuration memory.
8192K bytes of packet buffer memory.

65536K bytes of Flash internal SIMM (Sector size 512K).

Configuration register is 0x2142

sup720#

sup720#**configure terminal**

Enter configuration commands, one per line. End with CNTL/Z.

sup720(config)#**config-register 0x2102**

sup720(config)#

!--- Verify that the configuration register is changed for the next reload.

sup720#**show version**

Cisco Internetwork Operating System Software
IOS (tm) s72033_rp Software (s72033_rp-PS-M), Version 12.2(14)SX1, EARLY DEPLOY)
TAC Support: <http://www.cisco.com/tac>
Copyright (c) 1986-2003 by cisco Systems, Inc.
Compiled Tue 27-May-03 20:40 by ccai
Image text-base: 0x40008C10, data-base: 0x41ACE000

ROM: System Bootstrap, Version 12.2(14r)S9, RELEASE SOFTWARE (fc1)
BOOTLDR: s72033_rp Software (s72033_rp-PS-M), Version 12.2(14)SX1, EARLY DEPLOY

sup720 uptime is 4 minutes
Time since sup720 switched to active is 4 minutes

System returned to ROM by power-on (SP by error - a Software forced crash, PC 0)
System image file is "disk0:s72033-ps-mz.122-14.SX1.bin"

cisco Catalyst 6000 (R7000) processor with 458752K/65536K bytes of memory.
Processor board ID
SR71000 CPU at 600Mhz, Implementation 0x504, Rev 1.2, 512KB L2 Cache

```
Last reset from power-on
X.25 software, Version 3.0.0.
Bridging software.
3 Virtual Ethernet/IEEE 802.3 interface(s)
96 FastEthernet/IEEE 802.3 interface(s)
58 Gigabit Ethernet/IEEE 802.3 interface(s)
1917K bytes of non-volatile configuration memory.
8192K bytes of packet buffer memory.
```

```
65536K bytes of Flash internal SIMM (Sector size 512K).
Configuration register is 0x2142 (will be 0x2102 at next reload)
sup720#
sup720#copy running-config startup-config
Destination filename [startup-config]? <press enter>
Building configuration...
[OK]
sup720#
```

```
!--- Optional: If you want to test that the router operates properly and that you have cha
!--- reload and test.
```

```
sup720#reload
```

```
Proceed with reload? [confirm]
```

```
<press enter>
```

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