



Operating System Conversion Procedure for Supervisor Engine 720 and Supervisor Engine 32

This document provides the procedure for converting a Cisco IOS software image to a Catalyst operating system software image on a replacement Supervisor Engine 720 or Supervisor Engine 32 using a removable media card.

Converting from Catalyst Operating System to Cisco IOS for Dual Supervisor Engines and High Availability

This procedure is applicable for chassis with dual supervisor engines and operating in high availability mode. After you complete the installation of the replacement supervisor engine, follow the procedure to convert the system from the Catalyst operating system image to a Cisco IOS image.

Installing the Replacement Supervisor Engine

To install the replacement supervisor engine, follow these steps:

- Step 1** Remove the defective supervisor engine from the Catalyst 6500 series switch.
- If you are unsure about the correct procedure for removing a supervisor engine from the switch chassis, refer to the removal and replacement procedures at this URL:
http://www.cisco.com/en/US/docs/switches/lan/catalyst6500/hardware/Module_Installation/Mod_Install_Note/78_15767.html
- Step 2** Slide the replacement supervisor engine half way into the chassis.
- Refer to the module installation procedure in the module installation note located at the URL in Step 1.
- Step 3** Insert the PCMCIA card into the supervisor engine PCMCIA slot 0.



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Note If your previous supervisor engine had a PCMCIA card installed that contained the correct Cisco IOS software release, you can use it for this step. If your supervisor engine does not have a PCMCIA card that contains the correct Cisco IOS release, use the PCMCIA card that comes with the software conversion kit.

Step 4 Connect the console terminal cable to the replacement supervisor engine CONSOLE port.



Note Use an EIA/TIA-232 (RS-232) cable to connect the console terminal to the supervisor engine CONSOLE port.

Step 5 Slide the supervisor engine the rest of the way into the chassis slot.

If you are unsure about the correct procedure for installing a supervisor engine in the switch chassis, refer to the module removal and replacement procedures at this URL:

http://www.cisco.com/en/US/docs/switches/lan/catalyst6500/hardware/Module_Installation/Mod_Instal_II_Note/78_15767.html

Step 6 Press the **Ctrl** plus **Break** keys to enter the break sequence.

You might need to repeat this keystroke sequence several times before the supervisor engine enters the ROMMON mode.

Changing ROMMON Configuration to Convert from the Catalyst Operating System to the Cisco IOS Operating System

This procedure is applicable for chassis with dual supervisor engines and operating in redundant mode with high availability. After you complete the installation of the removable media card as specified in the “Installing the Replacement Supervisor Engine” section on page 1, follow these steps to convert a system from a Catalyst operating software image to a Cisco IOS image:

	Command	Purpose
Step 1	<pre>rommon 1> set CONFIG_FILE=bootflash:switch.cfg BOOT=bootflash:cat6000-sup720k8.8-3-2.bin,1: Note For Supervisor Engine 32, the file name is cat6000-sup32pfc3cvk8.8-4-4.bin</pre>	Displays the boot variables.
Step 2	<pre>rommon 2> BOOT= rommon 3> CONFIG_FILE=</pre>	Clears the boot variables.
Step 3	<pre>rommon 4> BOOT=slot0:c6msfc3-psv-mz.121-17d.SXB1.bin Note slot0: could also be disk0: if you are using an ATA flash disk. Note For Supervisor Engine 32, the image name is c6msfc2a-jsv-mz.122-17dSXB11a.bin</pre>	Sets the boot variable to point to the Cisco IOS image on the PCMCIA card.
Step 4	<pre>rommon 5> sync</pre>	Causes the above changes to take effect.

	Command	Purpose
Step 5	<pre>rommon 6> reset :: <output omitted> :: Router-sdby> Standby console disabled Router-sdby> Standby console disabled</pre>	Resets the supervisor engine from the ROMMON prompt.
Step 6	<pre>Router> Router> en Router# sh bootvar BOOT variable = slot0:c6msfc3-psv-mz.121-17d.SXB1.bin CONFIG_FILE variable does not exist BOOTLDR variable= Configuration register is 0x2102 Standby is up Note</pre>	Plug the console cable back into the active supervisor engine and verify the boot variables.
Step 7	<pre>Router# format slavesup-bootflash:</pre>	<p>Formats the slave supervisor engine bootflash.</p> <p>Note If the slave supervisor engine bootflash is not formatted, the standby supervisor engine will retain the Hybrid mode algorithm. The configuration changes will not be copied between the active and standby supervisor engines.</p>
Step 8	<pre>>show mod</pre>	<p>Verifies that the replacement supervisor engine is recognized by the system.</p> <p>Note Both supervisor engines should be recognized by the system; one supervisor engine shown as being active and the other supervisor engine as standby.</p>

After you have completed the operating system conversion task, finish the process by attaching the network interface cables to the interface ports.

Converting from Catalyst Operating System to Cisco IOS for a Single Supervisor Engine

This procedure is applicable for chassis equipped with a single supervisor engine. After you complete the installation of the replacement supervisor engine, follow the procedure to convert the system from the Catalyst operating system image to a Cisco IOS image.

Installing the Replacement Supervisor Engine

To install the replacement supervisor engine, follow these steps:

Step 1 Obtain and save the current the switch configuration.



Note You might need to consult with the system administrator to see if they have a copy of the current system configuration. If you do not have a copy of the configuration, obtain the enable password and save a copy of the current configuration to your computer or by contacting the NOC, the customer, a site representative, or by using the configuration from a PCMCIA card.

Step 2 Power down the chassis by turning the power supply power switch to the 0 position. If there is a second power supply in the chassis, turn its power switch to the 0 position.



Note You must power down the switch in chassis equipped with only one supervisor engine. Network traffic will be lost during the period of time the system is shut down.

Step 3 Remove the defective supervisor engine from the Catalyst 6500 series switch.

If you are unsure about the correct procedure for removing a supervisor engine from the switch chassis, refer to the removal and replacement procedures at this URL:

http://www.cisco.com/en/US/docs/switches/lan/catalyst6500/hardware/Module_Installation/Mod_Install_Note/78_15767.html

Step 4 Slide the replacement supervisor engine half way into the chassis.

Refer to the module installation procedure in the module installation note located at the URL in Step 3.

Step 5 Insert the PCMCIA card into the supervisor engine PCMCIA slot 0.



Note If your previous supervisor engine had a PCMCIA card installed that contained the correct Cisco IOS software release, you can use it for this step. If your supervisor engine does not have a PCMCIA card that contains the correct Cisco IOS release, use the PCMCIA card that comes with the software conversion kit.

Step 6 Connect the console terminal cable to the replacement supervisor engine CONSOLE port.



Note Use an EIA/TIA-232 (RS-232) cable to connect the console terminal to the supervisor engine CONSOLE port.

Step 7 Finish installing the supervisor engine in the chassis slot. If you are unsure about the correct procedure for installing a supervisor engine in the switch chassis, refer to the module removal and replacement procedures at this URL:

http://www.cisco.com/en/US/docs/switches/lan/catalyst6500/hardware/Module_Installation/Mod_Install_Note/78_15767.html

Step 8 Power up the switch chassis by turning the power supply power switch to the I position. If the chassis is equipped with a second power supply, power it up by turning the power switch to the I position.

Step 9 Press the Ctrl plus Break keys to enter the break sequence. You might need to repeat this keystroke sequence several times before the supervisor engine enters the ROMMON mode.

Changing ROMMON Configuration to Convert from Catalyst Operating System to Cisco IOS on Chassis with One Supervisor Engine

This procedure is applicable for chassis with one supervisor engine. After you complete the installation of the replacement supervisor engine, follow these steps to convert a system from the Catalyst operating system image to a Cisco IOS image:

	Command	Purpose
Step 1	<pre>rommon 1> set CONFIG_FILE=bootflash:switch.cfg BOOT=bootflash:cat6000-sup720k8.8-3-2.bin,1:</pre> <p>Note For the Supervisor Engine 32, the image name is cat6000-sup32pfc3cvk8.8-4-4.bin</p>	Displays the boot variables.
Step 2	<pre>rommon 2> BOOT= rommon 3> CONFIG_FILE=</pre>	Clears the boot variables
Step 3	<pre>rommon 4> BOOT=slot0:c6msfc3-psv-mz.122-17d.SXB1.bin</pre> <p>Note slot0: could also be disk0: if you are using an ATA flash disk.</p> <p>Note For the Supervisor Engine 32, the image name is c6msfc2a-jsv-mz.122-17d.SXB11a.bin</p>	Sets the boot variable to point to the Cisco IOS image on the PCMCIA card.
Step 4	<pre>rommon 5> sync</pre>	Forces the previous changes to take effect.
Step 5	<pre>rommon 6> reset :: <output omitted> ::</pre> <p>Note The supervisor engine reloads normally.</p>	Resets the supervisor engine from the ROMMON prompt.

The following example shows how to convert your system from running Cisco IOS to Catalyst operating software:

```

Router>
Router> enable
Router#
Router# format bootflash:
Format operation may take a while. Continue? [confirm]y
Format of bootflash complete
Router# dir bootflash:
Directory of bootflash:/
No files in directory
65536000 bytes total (65536000 bytes free)
Router# dir disk0:
Directory of disk0:/
1 -rw- 15031472 May 28 2004 22:35:38 cat6000-sup720k8.8-3-2.bin (or
cat6000-sup32pfc3cvk8.8-4-4.bin for Supervisor Engine 32)
2 -rw- 17036892 May 28 2004 14:13:50 c6msfc3-psv-mz.122-17d.SXB1 (or
c6msfc2a-jsv-mz.122-17d.SXB1a.bin bootflash: for Supervisor Engine 32)
63873024 bytes total (31801344 bytes free)
Router# copy disk0:c6msfc3-psv-mz.122-17d.SXB1 bootflash:
Destination filename [c6msfc3-psv-mz.122-17d.SXB1]? (hit enter)
Copy in progress...CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
17036892 bytes copied in 88.320 secs (192900 bytes/sec)
Verifying compressed IOS image checksum...
Verified compressed IOS image checksum for bootflash:c6msfc3-psv-mz.122-17d.SXB1
Router# dir bootflash:
Directory of bootflash:/
1 -rw- 17036892 January 13 2005 17:00:49 c6msfc3-psv-mz.122-17d.SXB1
65536000 bytes total (48498980 bytes free)
Router# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)# no boot system
Router(config)# boot system flash disk0:
Router(config)# boot system flash bootflash:
Router(config)# config-register 0x2102
Router(config)# end
Router#
Router# write memory
Building configuration...
[OK]
Router# show boot
Router# reload
Proceed with reload? [confirm]
Console> enable
Console> (enable) set boot system flash disk0: prepend
Console> (enable) set boot config-register 0x2102

```

Related Documentation

For additional information on the operating system conversion process, refer to the following URLs:

- <http://www.cisco.com/warp/customer/473/80.shtml>
- <http://www.cisco.com/warp/customer/473/81.html>

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<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

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