



Release Notes for Catalyst 5000 Family Gigabit EtherChannel Switching Module Software Release 5.x

Current Release (August 9, 2001)
5.5(10)

Previous Releases
5.5(8), 5.5(7), 5.5(3), 5.4(1), 5.2(4), 5.2(1), 5.1(1)

These release notes describe the features, modifications, and caveats for the Catalyst 5000 family Gigabit EtherChannel switching module (WS-X5410) software release 5.x and all 5.x maintenance releases. The current software release is version 5.5(10).

For features, modifications, and caveats for the Catalyst 5000 family supervisor engine software, refer to the appropriate release notes for your Catalyst 5000 family software release.



Note

The Gigabit EtherChannel module has been packaged with the appropriate Gigabit EtherChannel module software. However, before this module can run in your Catalyst 5000 family switch, you must load Catalyst 5000 family supervisor engine software release 4.2(1) or later on your supervisor engine module. Software images are available from Cisco.com, as described in the [“Cisco.com” section on page 10](#).

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GBIC Software Support Matrix

Table 1 lists the minimum and recommended Gigabit EtherChannel software versions for Cisco GBICs.

Table 1 Minimum and Recommended Software Versions

Product Number	Description	Minimum Software Version	Recommended Software Version
WS-G5484=	1000BASE-SX GBIC	4.2(1)	4.5(6)
WS-G5486=	1000BASE-LX/LH GBIC		
WS-G5487=	1000BASE-ZX GBIC	4.5(1)	4.5(6)

Release 5.x Orderable Software Images

Table 2 lists the software images available for the Gigabit EtherChannel module release 5.x.

Table 2 Gigabit EtherChannel Module Software Ordering Information

Version Number	Filename	Orderable Product Number (Flash on System)	Orderable Product Number (Spare Upgrade – Floppy Media)
5.1(1)	c5gem.5-1-1.bin	SFC5K-GEM-5.1.1	SWC5K-GEM-5.1.1=
5.2(1)	c5gem.5-2-1.bin	SFC5K-GEM-5.2.1	SWC5K-GEM-5.2.1=
5.2(4)	c5gem.5-2-4.bin	SFC5K-GEM-5.2.4	SWC5K-GEM-5.2.4=
5.4(1)	c5gem.5-4-1.bin	SFC5K-GEM-5.4.1	SWC5K-GEM-5.4.1=
5.5(3)	c5gem.5-5-3.bin	SFC5K-GEM-5.5.3	SWC5K-GEM-5.5.3=
5.5(7)	c5gem.5-5-7.bin	SFC5K-GEM-5.5.7	SWC5K-GEM-5.5.3=
5.5(8)	c5gem.5-5-8.bin	SFC5K-GEM-5.5.8	SWC5K-GEM-5.5.8=
5.5(10)	c5gem.5-5-10.bin	SFC5K-GEM-5.5.10	SWC5K-GEM-5.5.10=

Open and Resolved Caveats in Software Release 5.5(10)

These sections describe the open and resolved caveats in software release 5.5(10).

- [Open Caveats in Software Release 5.5\(10\), page 3](#)
- [Resolved Caveats in Software Release 5.5\(10\), page 3](#)

Open Caveats in Software Release 5.5(10)

This section describes the open caveats in software release 5.5(10):

- On the Gigabit EtherChannel module (WS-X5410), if a host allowed on one secured port is moved to another previously unused secured port on the same module, the host cannot connect to the network on the second port.

Workaround: Disable port security on the first port, move the host to the second port, and then reenables port security on the first port (if desired). (CSCdk31747)

Resolved Caveats in Software Release 5.5(10)

This section describes resolved caveats in software release 5.5(10):

- A physical connection may be detected for certain 1000BASE-SX GBICs when they are inserted in a Gigabit EtherChannel module (WS-X5410) with no fiber cable attached. An automatic corrective action restores the port to unconnected status; however, the LED on an SX GBIC may go on and off.

Workaround: Disable the port when it is not in use. This problem is resolved in software release 5.5(10). (CSCdm63410)

- Under extremely rare conditions, a switch port may lose the VLAN configuration. An affected trunk port transmits all traffic in an untagged mode in the native VLAN. Connectivity to the rest of the network may be impacted if the affected port is an uplink port. Spanning Tree Protocol (STP), Cisco Discovery Protocol (CDP), and other traffic continues to operate normally. This problem is resolved in software release 5.5(10). (CSCdu48749)

Open and Resolved Caveats in Software Release 5.5(8)

These sections describe the open and resolved caveats in software release 5.5(8).

- [Open Caveats in Software Release 5.5\(8\), page 4](#)
- [Resolved Caveats in Software Release 5.5\(8\), page 4](#)

Open Caveats in Software Release 5.5(8)

This section describes open caveats in software release 5.5(8):

- On the Gigabit EtherChannel module (WS-X5410), if a host allowed on one secured port is moved to another previously unused secured port on the same module, the host cannot connect to the network on the second port.

Workaround: Disable port security on the first port, move the host to the second port, and then reenables port security on the first port (if desired). (CSCdk31747)

Resolved Caveats in Software Release 5.5(8)

This section describes resolved caveats in software release 5.5(8):

- This fix was made in the supervisor engine software but is related to the Gigabit EtherChannel module. The Catalyst 5500 series switch might crash during a Telnet session between the switch and the RSM. This situation might occur when the switch has the following modules installed together: RSM, Token Ring, and Gigabit EtherChannel.

Workaround: Reset the switch. This problem is resolved in software release 5.5(8). (CSCdt01088)

Open and Resolved Caveats in Software Release 5.5(7)

These sections describe the open and resolved caveats in software release 5.5(7).

- [Open Caveats in Software Release 5.5\(7\), page 4](#)
- [Resolved Caveats in Software Release 5.5\(7\), page 5](#)

Open Caveats in Software Release 5.5(7)

This section describes open caveats in software release 5.5(7):

- On the Gigabit EtherChannel module (WS-X5410), if a host allowed on one secured port is moved to another previously unused secured port on the same module, the host cannot connect to the network on the second port.

Workaround: Disable port security on the first port, move the host to the second port, and then reenables port security on the first port (if desired). (CSCdk31747)

Resolved Caveats in Software Release 5.5(7)

This section describes resolved caveats in software release 5.5(7):

- Occasionally, when you enter the **show cam dynamic** command or issue an snmp host query, you might see the following system message:

```
SYS-4-P2_WARN: 1/Filtering Ethernet MAC address of value zero from agent
host table interface
```

This message indicates that the switch received a packet from a network device with the MAC address 00-00-00-00-00-00. This address is noncompliant and is filtered from the **show cam dynamic** command output. The **clear cam dynamic** command failed to clear this MAC address from the switch's host table. This caveat does not affect the operation of the switch in any way. This problem is resolved in software release 5.5(7). (CSCds69706)

Open and Resolved Caveats in Software Release 5.5(3)

These sections describe the open and resolved caveats in software release 5.5(3):

- [Open Caveats in Software Release 5.5\(3\), page 5](#)
- [Resolved Caveats in Software Release 5.5\(3\), page 6](#)

Open Caveats in Software Release 5.5(3)

This section describes open caveats in software release 5.5(3):

- On the Gigabit EtherChannel module (WS-X5410), if a host allowed on one secured port is moved to another previously unused secured port on the same module, the host cannot connect to the network on the second port.

Workaround: Disable port security on the first port, move the host to the second port, and then reenable port security on the first port (if desired). (CSCdk31747)

- Occasionally, when you enter the **show cam dynamic** command or issue an snmp host query, you might see the following system message:

```
SYS-4-P2_WARN: 1/Filtering Ethernet MAC address of value zero from agent
host table interface
```

This message indicates that the switch received a packet from a network device with the MAC address 00-00-00-00-00-00. This address is noncompliant and is filtered from the **show cam dynamic** command output. The **clear cam dynamic** command failed to clear this MAC address from the switch's host table. This caveat does not affect the operation of the switch in any way. This problem is resolved in software release 5.5(7). (CSCds69706)

Resolved Caveats in Software Release 5.5(3)

This section describes resolved caveats in software release 5.5(3):

- Many protocols implemented on the Catalyst 5000 family switches (for example, CGMP) require the port location of a particular MAC address. To determine the port location, the Host Table usually needs to be sorted through because SNMP getNext operations use a host's MAC address as an index in the table. This operation is not required to determine the port location of a specific MAC address but is performed anyway. This problem is resolved in software release 5.5(3). (CSCdp90079)

Open and Resolved Caveats in Software Release 5.4(1)

These sections describe the open and resolved caveats in software release 5.4(1):

- [Open Caveats in Software Release 5.4\(1\), page 6](#)
- [Resolved Caveats in Software Release 5.4\(1\), page 6](#)

Open Caveats in Software Release 5.4(1)

This section describes open caveats in software release 5.4(1):

- On the Gigabit EtherChannel module (WS-X5410), if a host allowed on one secured port is moved to another previously unused secured port on the same module, the host cannot connect to the network on the second port.

Workaround: Disable port security on the first port, move the host to the second port, and then reenable port security on the first port (if desired). (CSCdk31747)

- Occasionally, when you enter the **show cam dynamic** command or issue an snmp host query, you might see the following system message:

```
SYS-4-P2_WARN: 1/Filtering Ethernet MAC address of value zero from agent
host table interface
```

This message indicates that the switch received a packet from a network device with the MAC address 00-00-00-00-00-00. This address is noncompliant and is filtered from the **show cam dynamic** command output. The **clear cam dynamic** command failed to clear this MAC address from the switch's host table. This caveat does not affect the operation of the switch in any way. This problem is resolved in software release 5.5(7). (CSCds69706)

Resolved Caveats in Software Release 5.4(1)

This section describes resolved caveats in software release 5.4(1):

- A sync-loss error might display this message:

```
6/C5man:Gigmac Link A, Mac rcv sync loss error, status reg is:0x00
```

This message refers to the 802.3z gigabit synchronization that occurs on the internal interface where the Gigabit Ethernet module connects to the switch backplane. In most cases, the synchronization will be reestablished after you see this message. If this message appears frequently, the module resets and performs power-on self-tests (POST). If a POST diagnoses an error, the module is kept offline so that any existing network redundancies can be activated by the Spanning Tree Protocol and spanning tree algorithm. (CSCdp33738)

- When you configure SPAN for a port or VLAN, neither transmitted nor received spanning tree BPDUs are mirrored to the SPAN destination port. (CSCdm47129)

Open and Resolved Caveats in Software Release 5.2(4)

These sections describe the open and resolved caveats in software release 5.2(4):

- [Open Caveats in Software Release 5.2\(4\), page 7](#)
- [Resolved Caveats in Software Release 5.2\(4\), page 7](#)

Open Caveats in Software Release 5.2(4)

This section describes open caveats in software release 5.2(4):

- On the Gigabit EtherChannel module (WS-X5410), if a host allowed on one secured port is moved to another previously unused secured port on the same module, the host cannot connect to the network on the second port.

Workaround: Disable port security on the first port, move the host to the second port, and then reenable port security on the first port (if desired). (CSCdk31747)

Resolved Caveats in Software Release 5.2(4)

This section describes resolved caveats in software release 5.2(4):

- A sync-loss error might display this message:

```
6/C5man:Gigmac Link A, Mac rcv sync loss error, status reg is:0x00
```

This message refers to the 802.3z gigabit synchronization that occurs on the internal interface where the Gigabit Ethernet module connects to the switch backplane. In most cases, the synchronization will be reestablished after you see this message. If this message appears frequently, the module resets and performs power-on self-tests (POST). If a POST diagnoses an error, the module is kept offline so that any existing network redundancies can be activated by the Spanning Tree Protocol and spanning tree algorithm. (CSCdp33738)

- When you configure SPAN for a port or VLAN, neither transmitted nor received spanning-tree BPDUs are mirrored to the SPAN destination port. (CSCdm47129)

Open and Resolved Caveats in Software Release 5.2(1)

These sections describe the open and resolved caveats in software release 5.2(1):

- [Open Caveats in Software Release 5.2\(1\), page 8](#)
- [Resolved Caveats in Software Release 5.2\(1\), page 8](#)

Open Caveats in Software Release 5.2(1)

This section describes open caveats in software release 5.2(1).

- On the Gigabit EtherChannel module (WS-X5410), if a host allowed on one secured port is moved to another previously unused secured port on the same module, the host cannot connect to the network on the second port.
Workaround: Disable port security on the first port, move the host to the second port, and then reenable port security on the first port (if desired). (CSCdk31747)
- When you configure SPAN for a port or VLAN, neither transmitted nor received spanning-tree BPDUs are mirrored to the SPAN destination port. (CSCdm47129)

Resolved Caveats in Software Release 5.2(1)

There are no resolved caveats in software release 5.2(1).

Open Caveats in Software Release 5.1(1)

This section describes open caveats in Gigabit EtherChannel module software release 5.1(1).

- On the Gigabit EtherChannel module (WS-X5410), if a host allowed on one secured port is moved to another previously unused secured port on the same module, the host cannot connect to the network on the second port.
Workaround: Disable port security on the first port, move the host to the second port, and then reenable port security on the first port (if desired). (CSCdk31747)
- When you configure SPAN for a port or VLAN, neither transmitted nor received spanning-tree BPDUs are mirrored to the SPAN destination port. (CSCdm47129)

Usage Guidelines, Restrictions, and Troubleshooting

This section describes usage guidelines, restrictions, and troubleshooting information that applies to the Gigabit EtherChannel switching module.

- The link on a Gigabit EtherChannel module (WS-X5410) port with a 1000BASE-SX GBIC might go up and down even when there is no cable attached. You can disable the port when it is not in use to prevent the link from going up and down. (CSCdm63410)
- Use of the Gigabit EtherChannel module requires Catalyst 5000 family supervisor engine software release 4.2(1) or later with Gigabit EtherChannel module software release 4.2(1) or later.
- If you plan to use the Gigabit EtherChannel module in a Catalyst 5000 switch chassis or with Supervisor Engine I or II, use Gigabit EtherChannel module software release 4.3(1) or later with supervisor engine software release 4.3(1) or later. Prior to software release 4.3(1), the Gigabit EtherChannel module was not fully tested with this hardware.

Additional Documentation

The following documents are available for Catalyst 5000 family switches:

- Quick Installation Guides—Available for the Catalyst 5002, Catalyst 5000 and Catalyst 5005, Catalyst 5509, and Catalyst 5500
- *Catalyst 5000 Family Installation Guide*
- *Catalyst 5000 Family Supervisor Engine Installation Guide*
- *Catalyst 5000 Family Module Installation Guide*
- *Quick Software Configuration—Catalyst 5000 Family, 4000 Family, 2926G Series, 2948G Switches*
- *Catalyst 5000 Family Software Configuration Guide*
- *Catalyst 5000 Family Command Reference*
- *System Message Guide—Catalyst 6000 Family, 5000 Family, 4000 Family, 2926G Series, 2948G Switches*
- *Troubleshooting Tips—Catalyst 6000 Family, 5000 Family, 4000 Family, 2926G Series, 2948G Switches*

Obtaining Documentation

The following sections provide sources for obtaining documentation from Cisco Systems.

World Wide Web

You can access the most current Cisco documentation on the World Wide Web at the following sites:

- <http://www.cisco.com>
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- <http://www-europe.cisco.com>

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Technical Assistance Center

The Cisco TAC website is available to all customers who need technical assistance with a Cisco product or technology that is under warranty or covered by a maintenance contract.

Contacting TAC by Using the Cisco TAC Website

If you have a priority level 3 (P3) or priority level 4 (P4) problem, contact TAC by going to the TAC website:

<http://www.cisco.com/tac>

P3 and P4 level problems are defined as follows:

- P3—Your network performance is degraded. Network functionality is noticeably impaired, but most business operations continue.
- P4—You need information or assistance on Cisco product capabilities, product installation, or basic product configuration.

In each of the above cases, use the Cisco TAC website to quickly find answers to your questions.

To register for Cisco.com, go to the following website:

<http://www.cisco.com/register/>

If you cannot resolve your technical issue by using the TAC online resources, Cisco.com registered users can open a case online by using the TAC Case Open tool at the following website:

<http://www.cisco.com/tac/caseopen>

Contacting TAC by Telephone

If you have a priority level 1 (P1) or priority level 2 (P2) problem, contact TAC by telephone and immediately open a case. To obtain a directory of toll-free numbers for your country, go to the following website:

<http://www.cisco.com/warp/public/687/Directory/DirTAC.shtml>

P1 and P2 level problems are defined as follows:

- P1—Your production network is down, causing a critical impact to business operations if service is not restored quickly. No workaround is available.
- P2—Your production network is severely degraded, affecting significant aspects of your business operations. No workaround is available.

This document is to be used in conjunction with the *Catalyst 5000 Family Software Configuration Guide* and the *Catalyst 5000 Family Command Reference* publication.

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