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Release Notes for Catalyst GigaStack Gigabit Interface Converter

October 25, 1999

These release notes describe the features and caveats for the GigaStack Gigabit Interface Converter (GBIC) that works with **IOS Release 11.2(8.2)SA6** or later. These release notes also contain important information about the device.

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Introduction

The GigaStack GBIC allows you to stack up to nine switches to form an independent backbone that can be managed with a single IP address. This stack gives the appearance of a single large switch for network management purposes. You can also form a point-to-point link between two switches. The GigaStack GBIC supports one full-duplex link (in a point-to-point link) or up to eight half-duplex links (in a stack configuration) to other Gigabit Ethernet devices.

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The GigaStack GBIC can add port density to a Catalyst 3500 XL or Catalyst 2900 XL network. You can install the GigaStack GBIC in a 3500 XL switch or into a 1000BaseX module that resides in a modular 2900 XL switch. When installed in a 3500 XL switch or a 2900 XL module, the GigaStack GBIC supports 1000BaseX connections. The GigaStack GBIC autonegotiates the duplex settings of each port to maximize the bandwidth for your configuration.

The maximum distance for a GigaStack GBIC-to-GigaStack GBIC connection is 1 meter. The GigaStack GBIC requires Cisco proprietary cabling.

Features

The following features are supported on the GigaStack GBIC:

- VLAN integration

The GigaStack GBIC supports VTP and Media Access Control (MAC) address-based static VLANs. See the *Cisco IOS Desktop Switching Command Reference* publication and *Cisco IOS Desktop Switching Enterprise Edition Software Configuration Guide* for VLAN configuration information.

- Per-VLAN Spanning-Tree Plus (PVST+)

An independent spanning tree instance runs on each VLAN. See the *Cisco IOS Desktop Switching Command Reference* publication and *Cisco IOS Desktop Switching Enterprise Edition Software Configuration Guide* for spanning-tree configuration information.

- Trunking (IEEE 802.1Q and ISL)

The GigaStack GBIC supports setting a trunk to IEEE 802.1Q or ISL mode. Enter the **switchport mode trunk** command to configure trunk ports and to add VLANs to the allowed VLAN list for existing trunks. See the **switchport mode trunk** command description in the *Cisco IOS Desktop Switching Command Reference* publication.

- Support for IOS Release 11.2(8.2)SA6 or later

Installation Notes



Caution Do not use standard IEEE 1394 cables with the GigaStack GBIC. You must use one of the Cisco proprietary cables (CAB-GS-50CM or CAB-GS-1M). If you use any other cable, you will not have connectivity.



Caution Do not use the GigaStack GBIC with standard IEEE 1394 equipment. You might damage the equipment or lose data.

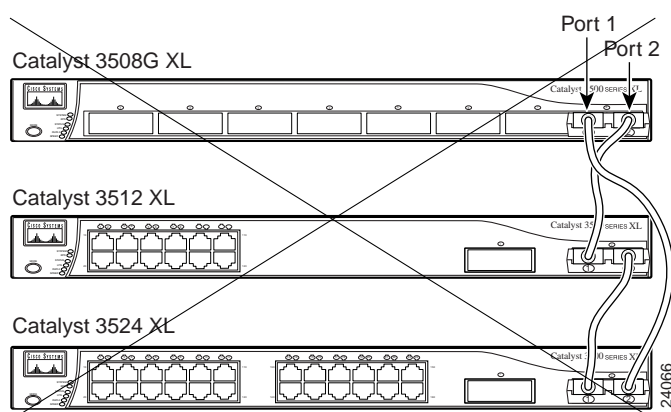
Important Notes

Types of Loops Not Permitted

Do not create a loop in a stack configuration within a single GBIC. A loop occurs when one of the following conditions occurs:

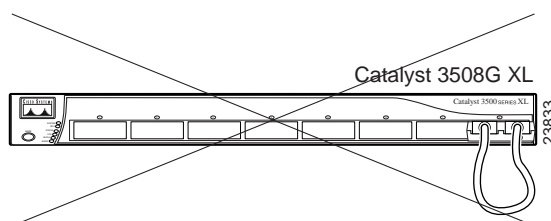
- A GigaStack GBIC port within a daisy-chain stack connection is connected to a GigaStack GBIC port of another device in the stack that already has a GigaStack GBIC port connected to a device in that stack; both ports are in the same stack. See Figure 1.

Figure 1 Incorrect Cabling of Switches in a Stack



- A single GigaStack cable is inserted in port 1 and port 2 of the same GigaStack GBIC. See Figure 2.

Figure 2 Incorrect Cabling in a Single Switch



A loop causes excessive collision errors on the port and might cause the link to become unstable. This instability decreases performance on the links, and communication between the switches in the stack is adversely affected. For proper configuration scenarios, see the *Catalyst GigaStack Gigabit Interface Converter Installation Guide*.

Note You can form a redundant link by connecting two different GigaStack GBICs within the same switch. See the *Catalyst GigaStack Gigabit Interface Converter Installation Guide*.

Maximum GigaStack GBICs in a Daisy-Chain Configuration

The maximum number of GigaStack GBICs allowed in a daisy-chain configuration is nine.

Switch Software Requirement

To use the GigaStack GBIC with a 3500 XL switch or 2900 XL modular switch, ensure that the switch is running IOS Release 11.2(8.2)SA6 or later. For software upgrade procedures, see the *Release Notes for Cisco IOS Release 11.2(8.2)SA6*.

Caveats

The *Catalyst GigaStack Gigabit Interface Converter Installation Guide* states that the GigaStack GBIC LED turns amber if you use a cable other than GigaStack cables. This function has changed. The LED remains dark if you use a cable other than the GigaStack cables.

Catalyst 3500 and Catalyst 2900 XL Software Caveats

For a list of Catalyst 3500 and Catalyst 2900 software caveats, refer to the *Release Notes for Cisco IOS Release 11.2(8.2)SA6*.

Related Documentation

The product documentation for the GigaStack GBIC, 3500 XL switches, and the 2900 XL switches is as follows:

- *Quick Start: Catalyst 3500 Series XL Cabling and Setup*
- *Quick Start: Catalyst 2900 Series XL Cabling and Setup*
- *Catalyst 3500 Series XL Installation Guide*
- *Catalyst 2900 Series XL Installation Guide*
- *Cisco IOS Desktop Switching Enterprise Edition Software Configuration Guide*
- *Cisco IOS Desktop Switching Software Configuration Guide*
- *Cisco IOS Desktop Switching Command Reference*
- *Release Notes for Cisco IOS Release 11.2(8.2)SA6*

Cisco Connection Online

CCO is Cisco Systems' primary, real-time support channel. Maintenance customers and partners can self-register on CCO to obtain additional information and services.

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CCO serves a wide variety of users through two interfaces that are updated and enhanced simultaneously: a character-based version and a multimedia version that resides on the World Wide Web (WWW). The character-based CCO supports Zmodem, Kermit, Xmodem, FTP, and Internet

e-mail, and it is excellent for quick access to information over lower bandwidths. The WWW version of CCO provides richly formatted documents with photographs, figures, graphics, and video, as well as hyperlinks to related information.

You can access CCO in the following ways:

- WWW: <http://www.cisco.com>
- WWW: <http://www-europe.cisco.com>
- WWW: <http://www-china.cisco.com>
- Telnet: cco.cisco.com
- Modem: From North America, 408 526-8070; from Europe, 33 1 64 46 40 82. Use the following terminal settings: VT100 emulation; databits: 8; parity: none; stop bits: 1; and connection rates up to 28.8 kbps.

For a copy of CCO's Frequently Asked Questions (FAQ), contact cco-help@cisco.com. For additional information, contact cco-team@cisco.com.

Note If you are a network administrator and need personal technical assistance with a Cisco product that is under warranty or covered by a maintenance contract, contact Cisco's Technical Assistance Center (TAC) at 800 553-2447, 408 526-7209, or tac@cisco.com. To obtain general information about Cisco Systems, Cisco products, or upgrades, contact 800 553-6387, 408 526-7208, or cs-rep@cisco.com.

Documentation CD-ROM

Cisco documentation and additional literature are available in a CD-ROM package. The Documentation CD-ROM, a member of the Cisco Connection Family, is updated monthly. Therefore, it might be more current than printed documentation. To order copies of the Documentation CD-ROM, contact your local sales representative or call customer service. The CD-ROM package is available as a single package or as an annual subscription. You can also access Cisco documentation on the World Wide Web at <http://www.cisco.com>, <http://www-china.cisco.com>, or <http://www-europe.cisco.com>.

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This document is to be used in conjunction with the documents listed in the *Catalyst GigaStack Gigabit Interface Converter Installation Guide*.

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