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Release Notes for the Catalyst 2900 Series XL Modules

December 30, 1998

These release notes describe the caveats for the Catalyst 2900 series XL modules.

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Introduction

The Catalyst 2900 series XL modules can add port density and fiber-optic connectivity to a Catalyst 2900 series XL network. When installed in a Catalyst 2912MF XL, Catalyst 2916M XL, or Catalyst 2924M XL switch, these modules support switched 10BaseT, 100BaseTX, or 100BaseFX connections. The 10BaseT/100BaseTX module autonegotiates the duplex and speed settings of each port to match that of the attached device.

Enhancements to the previous Catalyst 2900 series XL modules include:

- Inter-Switch Link (ISL) trunk support
- Up to 8192 MAC addresses on each modular switch

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- Supported by Catalyst 2900 series Cisco IOS Release 11.2(8)SA4 or later

Installation Notes



You must tighten the screws while inserting the module in the switch.

Warning Tighten screws to activate.

Waarschuwing Schroeven aandraaien om te activeren.

Varoitus Aktivoi kiristämällä ruuvit.

Attention Pour activer : serrez les vis.

Warnung Schrauben anziehen für Aktivierung.

Avvertenza Per attivare: stringere la vite.

Advarsel Stram skruene for å aktivere.

Aviso Aperte os parafusos para ativar.

¡Advertencia! Para activar, apriete los tornillos.

Warning! Aktivera genom att dra åt skruvarna.

使用するにはネジを締めてください。

Important Notes

To use the new Catalyst 2900 series XL modules (WS-X2914-XL-V, WS-X2922-XL-V, and WS-X2924-XL-V) with a Catalyst 2916M XL series switch (WS-C2916M-XL), you must upgrade the switch software.

The multi-VLAN and 802.1Q trunking features are not available in this release. These features will be available in a future release of the Catalyst 2900 XL switch firmware.

Caveats

Hot-Swapping the Modules

You can install Catalyst 2900 series XL modules while the switch is running if you are running Cisco IOS Release 11.2(8)SA3 (September 1998) or later. If you are running a previous release of the Cisco IOS, power down the switch before installing the modules.

Upgrading Your Catalyst 2916M XL Switch Software

This section describes the procedure for upgrading your Catalyst 2916M XL series switch software by using the Cisco IOS command-line interface (CLI). To perform the steps in this section, you must have a TFTP server and a management station (such as a PC) with a CD-ROM drive. You must also access the switch management console by either of these two methods:

- Using a terminal emulation program (such as ProComm or HyperTerminal) and the supplied RJ-45-to-RJ rollover cable and supplied adapters
- Using Telnet if an IP address is assigned to the switch

Coping Files from the CD-ROM

Follow these steps to download a new version of Catalyst 2900 software:

- Step 1** Insert the CD-ROM into the CD-ROM drive.
- Step 2** Copy the following files from the CD-ROM to a location on your TFTP-enabled PC (or transfer the files to the switch directly from the CD-ROM):
 - IOS image: c2900XL-hs-mz-112.8-SA4.bin
 - HTML tar file: c2900XL-html.112.8-SA4.tar

Upgrading Switch Software by Using the Command-line Interface

You can use the CLI to perform a TFTP transfer of the files to the switch.

The procedure that follows includes the commands to address the following issues:

- To avoid a conflict with users accessing the manager software pages during the software upgrade, you need to delete the existing HTML files and disable access to the HTML pages before you upgrade the software.
- Because the switch Flash memory can hold only one software image file, you need to change the name of the *current* image file to the name of the *new* file you are copying. You then replace the old file with the new file when you copy it into Flash memory.

Follow these steps to upgrade the switch software by using a TFTP transfer:

- Step 1** If your PC or workstation cannot act as a TFTP server, copy the files to a TFTP server to which you have access.
- Step 2** You can access the CLI by starting a Telnet session or by connecting to the console port via the RS-232 connector.

To start a Telnet session on your PC or workstation, enter the following command:

```
server% telnet switch_ip_address
```

- Step 3** Enter privileged EXEC mode:

```
switch> enable
switch#
```

- Step 4** Display the name of the current (default) image file. The following example shows the current name in *italic*:

```
switch# show boot
BOOT path-list:    flash:current_image
Config file:      flash:config.text
Enable Break:     1
Manual Boot:      no
```

- Step 5** If there is no file defined in the BOOT path-list, enter **dir flash:** to display the contents of Flash memory. The file named c2900XL-h-mz_*current_version* is your current image file.

- Step 6** Rename the current image file to the name of the new image. This does not affect the operation of the switch.

```
switch# rename flash:current_image flash:new_image
Source filename [current_image]?
Destination filename [new_image]?
```

- Step 7** Display the contents of Flash memory to verify the renaming of the file:

```
switch# dir flash:
Directory of flash:
-rwx      910426 Mar 06 1993 23:47:28  new_image
-rwx       80971  Sep 14 1998 03:10:38  c2900XL-diag-mz-112.0.0.11-SA2
-rwx       4800  Mar 01 1993 00:04:14  html
-rwx        159  Jan 01 1970 00:00:34  env_vars
-rwx       1121  Mar 01 1993 18:46:01  config.text
```

- Step 8** Delete the diagnostics file to make room for the new image.

The diagnostics file has a name in the following format:
c2900XL-diag-mz-version_name. The string *version_name* depends on the switch and software you are running.

Display the diagnostics file:

```
switch# dir flash:c2900XL-diag-mz*
Directory of flash:
-rwx       80971  Sep 14 1998 03:10:38  c2900XL-diag-mz-112.0.0.11-SA2
```

Delete the diagnostics file:

```
Switch# del flash:c2900XL-diag-mz-112.0.0.11-SA2
Delete filename [c2900XL-diag-mz-112.0.0.11-SA2]?
Delete flash:c2900XL-diag-mz-112.0.0.11-SA2? [confirm]
Switch#
```

- Step 9** Enter terminal configuration mode:

```
switch# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
```

- Step 10** Disable access to the switch HTML pages:

```
switch(config)# no IP http server
```

- Step 11** Change the name of the default image file:

```
switch(config)# boot system flash:new_image
```

- Step 12** Return to privileged EXEC mode:

```
switch(config)# end
```

- Step 13** Verify that the name of the default image file is correct:

```
switch# show boot
BOOT path-list:      flash:new_image
Config file:        flash:config.text
Enable Break:       1
Manual Boot:        no
HELPER path-list:
NVRAM/Config file
buffer size: 32768
```

- Step 14** Use the name of the new image file when you copy it from the TFTP server to the Flash memory:

```
switch# copy tftp://server_ip_address//path/new_image flash:new_image
Source IP address or hostname [server_ip_address]?
Source filename [path/filename]?
Destination filename [flash:new_image]?
Loading /path/filename.bin from server_ip_address (via!)
[OK - 843975 bytes]
```

- Step 15** Remove the manager software HTML files:

```
switch# del flash:html/*.*
```

Press the Enter key to confirm the deletion of each file. Do not press any other keys during this process.

- Step 16** If you are running Cisco IOS Release 11.2(8)SA3 or later, remove the files in the Snmp directory:

```
switch# del flash:html/Snmp/*.*
```

Press the Enter key to confirm the deletion of each file. Do not press any other keys during this process.

- Step 17** If you are running Cisco IOS Release 11.2(8)SA2 or earlier, create a directory on the switch Flash memory to be used for the HTML files:

```
switch# mkdir flash:html/Snmp
```

Make sure the "S" in "Snmp" is uppercase.

- Step 18** Enter the following command to copy the HTML file from the TFTP server to the switch Flash memory:

```
switch# tar /x tftp://server_ip_address//path/filename.tar flash:html
Loading /path/filename.tar from server_ip_address (via!)
extracting advanced.gif (2648 bytes)
extracting amber.gif (530 bytes)!
extracting bar.gif (4156 bytes)!
extracting cool.gif (530 bytes)
extracting daytona.gif (1470 bytes)
extracting duplgnd.gif (639 bytes)!
. . .
```

Depending on the TFTP server being used, you might need to enter only one slash (/) after the *server_ip_address* in the **tar** command.

- Step 19** Enter terminal configuration mode:

```
switch(config)# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
```

- Step 20** Reenable access to the switch HTTP pages:

```
switch(config)# IP http server
```

- Step 21** Return to privileged EXEC mode:

```
switch(config)# end
```

Step 22 Reload the new software with the following command:

```
switch# reload
System configuration has been modified. Save? [yes/no]:y
Proceed with reload? [confirm]
```

Step 23 Press **Return** to confirm the reload.

Your Telnet session ends when the switch resets.

Catalyst 2900 Software Caveats

For a list of Catalyst 2900 software caveats, refer to the *Release Notes for the Catalyst 2900 Series XL Cisco IOS Release 11.2(8)SA4*.

Related Documentation

The product documentation for the Catalyst 2900 series XL modules and the Catalyst 2900 series XL switches is as follows:

- *Catalyst 2900 Series XL Modules Installation Guide*
- *Catalyst 2900 Series XL Installation and Configuration Guide*
- *Catalyst 2900 Series XL Enterprise Edition Software Configuration Guide*
- *Catalyst 2900 Series XL Command Reference*
- *Quick Start: Catalyst 2900 Series XL Cabling and Setup*
- *Release Notes for the Catalyst 2900 Series XL Cisco IOS Release 11.2(8)SA4*

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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.

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Documentation CD-ROM

Cisco documentation and additional literature are available in a CD-ROM package, which ships with your product. 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 additional 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 2900 Series XL Installation and Configuration Guide*.

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