

download

To copy a software image from a specified host to the Flash memory of a designated module, use the **download** command.

download *host file* [*mod*] [**rcp**]

download serial

download vmps

download boot *flash_device:filename mod_num*

download epld *file* [*mod* [**force**]]

Syntax Description

<i>host</i>	Name or IP address of host.
<i>file</i>	Name of file to be downloaded.
<i>mod</i>	(Optional) Number of the module to receive the downloaded image.
rcp	(Optional) Specifies rcp as the file transfer method.
serial	Specifies download through a serial port.
vmps	Downloads VMPS.
boot	Downloads an image to the boot ROM of a module.
<i>flash_device:</i> <i>filename</i>	Name of the software image to be downloaded.
<i>mod_num</i>	Number of the module to receive the downloaded image.
epld	Updates the module's Erasable Programmable Logic Device (EPLD) image file.
<i>file</i>	Name of the EPLD image file.
force	(Optional) Updates the existing EPLD image file on the module with the new EPLD image regardless of the version of the existing image.

Defaults

If a module number is not specified, the image is downloaded to all modules for which the image is valid.

Command Types

Switch command.

Command Modes

Privileged.

Usage Guidelines

Catalyst 6500 series switches download new code to the processors using Kermit serial download through the EIA/TIA-232 console port.

The **download** command downloads code to the module Flash memory. Catalyst 6500 series switch software rejects an image if it is not a valid image for the module.

The **download serial** command uses Kermit through the serial EIA/TIA-232 console port. The **download serial** command is not allowed from a Telnet session.

Before you can execute the **download vmips** command successfully, you must use the **set vmips downloadserver** command to configure the IP address of the TFTP server and the name of the VMPS configuration file on that server. If the IP address of the TFTP server is not configured, the **download vmips** command reports an error. If the configuration filename is not configured, the **download vmips** command uses the default filename `vmips-config-database.1`.

The VMPS backup file is overwritten each time a new VMPS configuration is downloaded from the TFTP server by means of a VMPS server reboot or because the **download vmips** command or **set vmips state {disable | enable}** command was entered. If there are not enough resources to build the new configuration database, the VMPS is made inactive.

If you specify the module number, the download goes to the specified module, but the download will fail if the module is a different type from the one that is indicated by the download header. If you do not specify the module number, the download goes to all modules of that type.

**Caution**

After starting the serial download using Kermit, do not attempt to abort the serial download by pressing **Ctrl-C**. Pressing **Ctrl-C** interrupts the download process and could affect the functionality of the switch. If the functionality of the switch is affected as a result of pressing **Ctrl-C**, reboot the switch.

If you enter the **download epld file** command without specifying a module, the new EPLD image is downloaded to all compatible modules where the new EPLD image version is greater than the existing version on the module. If the **download epld file mod** command is used with the **force** keyword, the existing EPLD image on a module is upgraded with the new EPLD image regardless of the version level of the existing image.

**Caution**

If you remove the module while the EPLD image is updating, the module might not come back online.

Examples

This example shows how to download the `c6000_spv11.bin` file from the mercury host to the supervisor engine (by default):

```
Console> (enable) download mercury c6000_spv11.bin
Download image c6000_spv11.bin from mercury to module 1FLASH (y/n) [n]? y
\
Finished network single module download. (2418396 bytes)
FLASH on Catalyst:
```

Type	Address	Location
Intel 28F008	20000000	NMP (P3) 4MB SIM

```
Erasing flash sector...done.
Programming flash sector...done.
Erasing flash sector...done.
Programming flash sector...done.
The system needs to be reset to run the new image.
Console> (enable)
```

This example shows how to download the `acpflash_1111.bbi` file from the mercury host to module 3:

```
Console> (enable) download mercury acpflash_1111.bbi 3
This command will reset Module 3.
Download image acpflash_1111.bbi from mercury to Module 3 FLASH (y/n) [n]? y
/
Done. Finished network download. (1964012 bytes)
Console> (enable)
```

This sample session shows how to connect to a remote terminal from a Sun workstation and how to use the **download serial** command to copy a software image to the supervisor engine:

```
[At local Sun workstation]
host% kermit
C-Kermit 5A(172) ALPHA, 30 Jun 95, SUNOS 4.0 (BSD)
Type ? or 'help' for help
C-Kermit> set line /dev/ttyb
C-Kermit> c
Connecting to /dev/ttyb, speed 9600.
The escape character is ^ (ASCII 28).
Type the escape character followed by C to get back,
or followed by ? to see other options.

Console> enable
Enter Password:
Console> (enable) set system baud 19200
^\\C
[Back at local Sun workstation]
C-Kermit> set speed 19200
/dev/ttyb, 19200 bps
C-Kermit> c
Connecting to /dev/ttyb, speed 19200.
The escape character is ^ (ASCII 28).
Type the escape character followed by C to get back,
or followed by ? to see other options.

Console> (enable) download serial
Download Supervisor image via console port (y/n) [n]? y

Concentrator Boot ROM (Ver 1.00)

Waiting for DOWNLOAD!!
Return to your local Machine by typing its escape sequence
Issue Kermit send command from there[ Send 'Filename']

^\\C
[Back at Local System]
C-Kermit> send c6000_xx.bin
SF
c6000_xx.bin => C6000_XX.BIN, Size: 1233266

X to cancel file, CR to resend current packet
Z to cancel group, A for status report
E to send Error packet, Ctrl-C to quit immediately: .....
.....

..... [OK]
ZB
C-Kermit> quit
host%
```

This example shows how to download a ROM image to module 9:

```
Console> (enable) download boot bootflash:boot542.ubin 9
Warning!! This command replaces the existing boot code on Module 9.
Please verify with TAC that the file specified is appropriate for WS-X6408-GBIC.
Use this command with caution.
Do you want to continue (y/n) [n]? y
Download boot image start...
Download boot code completed.
Console> (enable)
```

This example shows how to upgrade the EPLD image in force mode on the module in slot 5:

```

Console> (enable) download epld aq_cr128_art.bin 5 force
CCCCC
Device found requiring upgrade in slot 5.

#####
#                               W A R N I N G                               #
#                               #                                           #
# Any disruptions to the module during programming may #
# leave the module or system in an inconsistent state. #
# Please ensure that the system or module does not get #
# switched off or reset during the programming process. #
# Programming may take a minute or two, depending on #
# the number of devices updated. Please wait for the #
# module to come back online before continuing. #
#                               #                                           #
#                               W A R N I N G                               #
#####
This command may reset module 5.
Updating fabric modules may significantly affect system performance while the update is
occurring.

Do you wish to update the devices in slot 5 (y/n) [n]? y

Updating programmable devices in slot 5. This may take a minute...
JAM Message -> Device #1 Silicon ID is ALTERA98(00)
JAM Message -> programming 7K device(s)...
JAM Message -> verifying 7K device(s)...
JAM Message -> DONE
Programming successful, updating EPLD revisions.
2002 Aug 09 06:32:22 %SYS-4-NVLOG:EpldUpdate:Module 5 EPLD A updated from rev 1 to rev 1
Waiting for module to come online.
.....2002 Aug 09 06:32:33 %SYS-5-MOD_OK:Module 5 is online
.

#####
E P L D   P R O G R A M M I N G   C O M P L E T E

Found 1 devices requiring upgrades, 1 attempted, 1 updated, 0 failed

#####
Console> (enable) 2002 Aug 09 06:32:34 %SYS-4-NVLOG:EpldUpdate:Module 5 EPLD A s
prom updated to rev 1
Console> (enable)

```

Related Commands

[reset—switch](#)
[set system supervisor-update](#)
[show flash](#)
[show rcp](#)
[show system supervisor-update](#)
[show version](#)
[show vmps](#)

enable

To activate privileged mode, use the **enable** command. In privileged mode, additional commands are available, and certain commands display additional information.

enable

Syntax Description This command has no arguments or keywords.

Defaults This command has no default settings.

Command Types Switch command.

Command Modes Normal.

Usage Guidelines The (enable) in the prompt indicates that the system is in privileged mode and that commands can be entered.

Examples This example shows how to enter privileged mode:

```
Console> enable
Enter password:
Console> (enable)
```

Related Commands [disable](#)