

# System Image, Microcode Image, and Configuration File Load Commands

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This chapter describes the function and displays the syntax of each command used to load and copy system images, microcode images, and configuration files. For more information about defaults and usage guidelines, see the corresponding chapter of the *Router Products Command Reference* publication.

**async-bootp** *tag* [:*hostname*] *data*  
**no async-bootp**

To configure extended BOOTP requests for asynchronous interfaces as defined in RFC 1084, use the **async-bootp** global configuration command. Use the **no** form of this command to restore the default.

<i>tag</i>	Item being requested; expressed as filename, integer, or IP dotted-decimal address. See this command in the <i>Router Products Command Reference</i> publication for a table of supported values.
: <i>hostname</i>	(Optional) This entry applies only to the host specified. The argument <i>:hostname</i> accepts both an IP address and a logical host name.
<i>data</i>	List of IP addresses entered in dotted-decimal notation or as logical host names, a number, or a quoted string.

**boot****boot** *filename* [*ip-address*]**boot flash** [*filename*]**boot flash** [*device:*]*partition-number:*[*filename*]**boot flash** [*device:*]*filename*] (Cisco 7000 series only)**boot device:**[*filename*] (Cisco 7500 series only)

To boot the router manually, use the **boot ROM** monitor command.

*filename* When used in conjunction with the *ip-address* argument, the *filename* argument is the name of the system image file to boot from a network server. The filename is case sensitive.

(Optional) When used in conjunction with the flash keyword, the *filename* argument is the name of the system image file to boot from Flash memory. On all platforms except the Cisco 7000 series and Cisco 7500 series, the system obtains the image file from internal Flash memory. On the Cisco 7000 series and Cisco 7500 series, the *device:* argument specifies the Flash memory device from which to obtain the system image. See the *device:* argument later in this table for valid device values. The filename is case sensitive. Without *filename*, the first valid file in Flash memory is loaded.

*ip-address* (Optional) IP address of the TFTP server on which the system image resides. If omitted, this value defaults to the IP broadcast address of 255.255.255.255.

**flash** (Optional) Boots the router from Flash memory.

*device:* (Optional on all platforms except the Cisco 7500 series) On all platforms except the Cisco 7000 series and Cisco 7500 series, the only valid value is **flash**. The colon (:) is required.

On the Cisco 7000 series and Cisco 7500 series, valid devices are as follows:

- **flash**. This device is the internal Flash memory in the Cisco 7000 series.
- **bootflash**. This device is the internal Flash memory in the Cisco 7500 series.
- **slot0**. This device is the Personal Computer Memory Card International Association (PCMCIA) slot on the Cisco 7000 series Route Processor (RP) card or the first PCMCIA slot on the Cisco 7500 series Route Switch Processor (RSP) card.
- **slot1**. This device is the second PCMCIA slot on the Cisco 7500 series RSP card.

The colon (:) is required.

*partition-number.* Boots the router from Flash memory with the optional filename of the image you want loaded from the specified Flash partition. If you do not specify a filename, the first valid file in the specified partition of Flash memory is loaded.

**boot bootldr** *device: filename*  
**no boot bootldr**

On a Cisco 7000 series or Cisco 7500 series, to specify a Flash device and filename containing the rxboot image that ROM uses for booting, use the **boot bootldr** global configuration command. Use the **no** form of the command to remove this rxboot image specification.

*device:* Device containing the rxboot image that ROM uses.  
The colon (:) is required. Valid values are as follows:

- **flash**. This device is the internal Flash memory in the Cisco 7000 series.
- **bootflash**. This device is the internal Flash memory in the Cisco 7500 series.
- **slot0**. This device is the PCMCIA slot on the Cisco 7000 series Route Processor (RP) card or the first PCMCIA slot on the Cisco 7500 series Route Switch Processor (RSP) card.
- **slot1**. This device is the second PCMCIA slot on the Cisco 7500 series RSP card.

*filename* Name of the rxboot image file. The maximum filename length is 63 characters.

**[no] boot bootstrap flash** *filename*  
**[no] boot bootstrap mop** *filename [mac-address] [interface]*  
**[no] boot bootstrap [tftp]** *filename [ip-address]*

To configure the filename that is used to boot a secondary bootstrap image, use the **boot bootstrap** global configuration command. Use the **no** form of this command to disable booting from a secondary bootstrap image.

**flash** Indicates that the router will be booted from Flash memory.

*filename* (Optional with **flash**.) Name of the system image to boot from a network server. If you omit the filename when booting from Flash, the router uses the first system image stored in Flash memory.

<b>mop</b>	Indicates that the router will be booted from a system image stored on a DEC MOP server.
<i>mac-address</i>	(Optional) MAC address of the MOP server on which the file resides. If the MAC address argument is not included, a broadcast message is sent to all MOP boot servers. The first MOP server to indicate that it has the file will be the server from which the router gets the boot image.
<i>interface</i>	(Optional) Interface out which the router should send MOP requests to reach the MOP server. The interface options are <b>async</b> , <b>dialer</b> , <b>Ethernet</b> , <b>loopback</b> , <b>null</b> , <b>serial</b> , and <b>tunnel</b> . If the interface argument is not specified, a request will be sent on all interfaces that have MOP enabled, and the interface from which the first response is received will be used to load the software.
<b>tftp</b>	(Optional) Indicates that the router will be booted from a system image stored on a TFTP server.
<i>ip-address</i>	(Optional) IP address of the TFTP server on which the system image resides. If omitted, this value defaults to the IP broadcast address of 255.255.255.255.

**boot buffersize** *bytes*

**no boot buffersize**

To modify the buffer size used to load configuration files, use the **boot buffersize** global configuration command. Use the **no** form of this command to return to the default setting.

<i>bytes</i>	Specifies the size of the buffer to be used. There is no minimum or maximum buffer size.
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**boot config** *device:filename*  
**no boot config**

On a Cisco 7000 series or Cisco 7500 series, to specify the device and filename of the configuration file from which the router configures itself during initialization (startup), use the **boot config** global configuration command. Use the **no** form of the command to remove this specification.

- device:* Device containing the configuration file. The colon (:) is required. Valid devices are as follows:
- **flash**. This device is the internal Flash memory in the Cisco 7000 series.
  - **bootflash**. This device is the internal Flash memory in the Cisco 7500 series.
  - **nvr**am. The device is the router's nonvolatile random-access memory (NVRAM). If you specify NVRAM, omit the filename. The colon (:) is required.
  - **slot0**. This device is the PCMCIA slot on the Cisco 7000 series RP card or the first PCMCIA slot on the Cisco 7500 series RSP card.
  - **slot1**. This device is the second PCMCIA slot on the Cisco 7500 series RSP card.

The default device is **nvr**am:.

*filename* Name of the configuration file. The configuration file must be an ASCII file. The maximum filename length is 63 characters.

[no] **boot host mop** *filename* [*mac-address*] [*interface*]  
[no] **boot host** [**tftp** | **rcp**] *filename* [*ip-address*]

To change the default name of the host configuration filename from which you want to load configuration commands, use the **boot host** global configuration command. Use the **no** form of this command to restore the host configuration filename to the default.

<b>mop</b>	Indicates that the router will be configured from a configuration file stored on a Digital MOP server.
<b>tftp</b>	(Optional) Indicates that the router will be configured from a configuration file stored on a TFTP server.
<b>rcp</b>	(Optional) Indicates that the router will be configured from a configuration file stored on a rcp server.
<i>filename</i>	Name of the file from which you want to load configuration commands.
<i>ip-address</i>	(Optional) IP address of the TFTP server on which the file resides. If omitted, this value defaults to the IP broadcast address of 255.255.255.255.
<i>mac-address</i>	(Optional) MAC address of the MOP server on which the file resides. If the MAC address argument is not included, a broadcast message is sent to all MOP boot servers. The first MOP server to indicate that it has the file is the server from which the router gets the boot image.
<i>interface</i>	(Optional) Interface out which the router should send MOP requests to reach the MOP server. The interface options are <b>async</b> , <b>dialer</b> , <b>ethernet</b> , <b>serial</b> , and <b>tunnel</b> . If the interface argument is not specified, a request is sent on all interfaces that have MOP enabled, and the interface out which the first response is received is used to load the software.

**[no] boot network mop** *filename* [*mac-address*] [*interface*]  
**[no] boot network [tftp | rcp]** *filename* [*ip-address*]

To change the default name of the network configuration file from which you want to load configuration commands, use the **boot network** global configuration command. Use the **no** form of this command to restore the network configuration filename to the default.

<b>mop</b>	Configures the router to download the configuration file from a network server using the Digital Maintenance Operation Protocol (MOP) protocol.
<i>filename</i>	Name of the file from which you want to load configuration commands. The default filename is <i>network-config</i> .
<i>mac-address</i>	(Optional) If <b>mop</b> is specified, the MAC address of the network server on which the file resides. If the MAC address argument is not included, a broadcast message is sent to all MOP boot servers. The first server to indicate that it has the file will be the server from which the router gets the boot image.
<i>interface</i>	(Optional) If <b>mop</b> is specified, the interface out which the router should send MOP requests to reach the server. The interface options are <b>async</b> , <b>dialer</b> , <b>ethernet</b> , <b>serial</b> , and <b>tunnel</b> . If the interface argument is not specified, a request will be sent on all interfaces that have MOP enabled, and the interface from which the first response is received will be used to load the software.
<b>tftp</b>	(Optional) Configures the router to download the configuration file from a network server using TFTP. If omitted and <b>rcp</b> is not specified, defaults to <b>tftp</b> .
<b>rcp</b>	(Optional) Configures the router to download the configuration file from a network server using rcp. If omitted, defaults to <b>tftp</b> .



*ip-address* (Optional) If **rcp** or **tftp** is specified, the IP address of the network server on which the compressed image file resides. If the IP address is omitted, this value defaults to the IP broadcast address of 255.255.255.255.

**[no] boot system flash** [*device:*][*partition-number:*][*filename*]

**[no] boot system mop** *filename* [*mac-address*] [*interface*]

**[no] boot system rom**

**[no] boot system** [**rcp** | **tftp**] *filename* [*ip-address*]

### **no boot system**

To specify the system image that the router loads at startup, use one of the listed **boot system** global configuration commands. Use a **no** form of this command to remove the startup system image specification.

**flash** On all platforms except the Cisco 7000 series and Cisco 7500 series, this keyword boots the router from internal Flash memory. If you omit all arguments that follow this keyword, the system searches internal Flash for the first bootable image.

On the Cisco 7000 series and Cisco 7500 series, this keyword boots the router from a Flash device, as specified by the *device:* argument. On the Cisco 7000 series, when you omit all arguments that follow this keyword, the system searches internal Flash and then the PCMCIA slots (starting with slot 0) for the first bootable image. On the Cisco 7500 series, when you omit all arguments that follow this keyword, the system searches the PCMCIA slot 0 for the first bootable image.

<i>device:</i>	<p>(Optional) Device containing the system image to load at startup. The colon (:) is required. Valid devices are as follows:</p> <ul style="list-style-type: none"> <li>• <b>flash.</b> This device is the internal Flash memory. Optionally, use this device on all platforms except the Cisco 7500 series. The <b>flash</b> option is the only valid device option for all platforms except the Cisco 7000 series and the Cisco 7500 series. For the Cisco 7000 series, this device is the default if you do not specify a device.</li> <li>• <b>bootflash.</b> This device is the internal Flash memory in the Cisco 7500 series.</li> <li>• <b>slot0.</b> This device is the PCMCIA slot on the Cisco 7000 series RP card or the first PCMCIA slot on the Cisco 7500 series RSP card. For the Cisco 7500 series, this device is the default if you do not specify a device.</li> <li>• <b>slot1.</b> This device is the second PCMCIA slot on the Cisco 7500 series RSP card.</li> </ul>
<i>partition-number.</i>	<p>(Optional) Number of the Flash memory partition that boots the router with the image specified by the optional <i>filename</i> argument. If you do not specify a filename, the router loads the first valid file in the specified partition of Flash memory. This argument is not used with the Cisco 7000 series and the Cisco 7500 series.</p>
<i>filename</i>	<p>(Optional when used with <b>boot system flash.</b>) Name of the system image to load at startup. It is case sensitive. If you do not specify a filename, the router loads the first valid file in the specified Flash device, the specified partition of Flash memory, or the default Flash device if you also omit the <i>device:</i> argument.</p>
<b>mop</b>	<p>Boots the router from a system image stored on a Digital MOP server. Do not use this keyword with the Cisco 7500 series.</p>

<i>mac-address</i>	(Optional) Media Access Control (MAC) address of the MOP server containing the specified system image file. If you do not include the MAC address argument, the router sends a broadcast message to all MOP boot servers. The first MOP server to indicate that it has the specified file will be the server from which the router gets the boot image.
<i>interface</i>	(Optional) Interface the router uses to send out MOP requests to the MOP server. The interface options are <b>async</b> , <b>dialer</b> , <b>ethernet</b> , <b>serial</b> , and <b>tunnel</b> . If you do not specify the interface argument, the router sends a request out on all interfaces that have MOP enabled. The interface that receives the first response is the interface the router uses to load the software.
<b>rom</b>	Boots the router from ROM. Do not use this keyword with the Cisco 7500 series.
<b>rcp</b>	(Optional) Boots the router from a system image stored on a network server using rcp. If you omit this keyword, the transport mechanism defaults to <b>tftp</b> .
<b>tftp</b>	(Optional) Boots the router from a system image stored on a TFTP server. This is the default when you do not specify any keyword ( <b>flash</b> , <b>mop</b> , <b>rom</b> , <b>tftp</b> , or <b>rcp</b> ).
<i>ip-address</i>	(Optional) IP address of the TFTP server containing the system image file. If omitted, this value defaults to the IP broadcast address of 255.255.255.255.

**cd** [*device:*]

To set the default Flash device for the system, use the **cd EXEC** command.

*device:* (Optional) Default device. The colon (:) is required. Valid devices are as follows:

- **flash**. This device is the internal Flash memory in the Cisco 7000 series. For the Cisco 7000 series, this device is the initial default device and the default device when you omit the *device:* argument.
- **bootflash**. This device is the internal Flash memory in the Cisco 7500 series.
- **slot0**. This device is the PCMCIA slot on the Cisco 7000 series RP card or the first PCMCIA slot on the Cisco 7500 series RSP card. For the Cisco 7500 series, this device is the initial default device and the default device when you omit the *device:* argument.
- **slot1**. This device is the second PCMCIA slot on the Cisco 7500 series RSP card.

**config-register** *value*

To change the router configuration register settings, use the **config-register** global configuration command.

*value* Hexadecimal or decimal value that represents the 16-bit configuration register value you want to use the next time the router is restarted. The value range is from 0x0 to 0xFFFF (0 to 65535 in decimal). The default is 0x101 for the router models without Flash memory; default is 0x10F for router models with Flash memory.

**configure {terminal | memory | network}**

To enter global configuration mode, use the **configure** privileged EXEC command. You must be in global configuration mode to enter global configuration commands.

<b>terminal</b>	Executes configuration commands from the terminal.
<b>memory</b>	<p>For all platforms except the Cisco 7000 series and the Cisco 7500 series, executes the commands stored in NVRAM.</p> <p>For the Cisco 7000 series and the Cisco 7500 series, executes the configuration specified by the CONFIG_FILE environment variable. When the CONFIG_FILE environment variable does not exist or is null (such as at first-time startup), the router uses the NVRAM configuration (if valid).</p>
<b>network</b>	The <b>copy rcp running-config</b> or <b>copy tftp running-config</b> command replaces the <b>configure network</b> command. If you use rcp, see the <b>copy rcp</b> command for more information on <b>copy rcp running-config</b> . If you use TFTP, see the <b>copy tftp</b> command for more information on <b>copy tftp running-config</b> .

**configure overwrite-network**

The **copy rcp startup-config** or **copy tftp startup-config** command replaces the **configure overwrite-network** command. If you use rcp, see the **copy rcp** command for more information on **copy rcp startup-config**. If you use TFTP, see the **copy tftp** command for more information on **copy tftp startup-config**.

**continue**

To return to the EXEC mode from ROM monitor mode, use the **continue** ROM monitor command.

**System Image, Microcode Image, and Configuration File Load**

**copy** *file\_id* { **running-config** | **startup-config** | *file\_id* } (Cisco 7000 series and Cisco 7500 series only)

On the Cisco 7000 series or the Cisco 7500 series, to copy any file from a Flash device or NVRAM to another destination, use **copy EXEC** command.

*file\_id* Specifies a *device:filename* as the source or destination of the copy operation. The *device* is optional; but when it is used, the colon (:) is required. Valid devices are as follows:

- **flash:** This device is the internal Flash memory on the Cisco 7000 series.
- **bootflash:** This device is the internal Flash memory in the Cisco 7500 series.
- **slot0:** This device is the PCMCIA slot on the Cisco 7000 series RP card or the first PCMCIA slot on the Cisco 7500 series RSP card.
- **slot1:** This device is the second PCMCIA slot on the Cisco 7500 series RSP card.
- **nvr:** This device is the router's NVRAM. If you specify NVRAM, omit the filename.

The *filename* is the name of the source or destination file. You must always provide a source filename. You can omit the destination filename, in which case the system uses the source filename. Wildcards are not permitted. The maximum filename length is 63 characters.

**running-config** Specifies the currently running configuration as the destination of the copy operation.

**startup-config** Specifies the configuration used for initialization as the destination of the copy operation. (Note that the CONFIG\_FILE environment variable specifies the startup configuration on a Cisco 7000 series and a Cisco 7500 series.)

### **copy bootflash { rcp | tftp }**

To copy a bootstrap image from Flash memory to a network server on the Cisco 4500 series, use the **copy bootflash** EXEC command.

<b>rcp</b>	Specifies a copy operation to a network server using rcp.
<b>tftp</b>	Specifies a TFTP server as the destination of the copy operation.

### **copy flash { rcp | tftp }**

**copy flash { rcp | tftp | *file\_id* }** (Cisco 7000 series and Cisco 7500 series only)

To copy a file from Flash memory to another destination, use one of the listed **copy flash** EXEC commands.

<b>rcp</b>	Specifies a copy operation to a network server using rcp.
<b>tftp</b>	Specifies a TFTP server as the destination of the copy operation.

*file\_id* Specifies a *device:filename* as the destination of the copy operation. The *device* argument is optional; but when it is used, the colon (:) is required. Valid devices are as follows:

- **flash:** This device is the internal Flash memory on the Cisco 7000 series.
- **bootflash:** This device is the internal Flash memory in the Cisco 7500 series.
- **slot0:** This device is the PCMCIA slot on the Cisco 7000 series RP card or the first PCMCIA slot on the Cisco 7500 series RSP card.
- **slot1:** This device is the second PCMCIA slot on the Cisco 7500 series RSP card.
- **nvr:** This device is the router's NVRAM. If you specify NVRAM, omit the filename. The colon (:) is required.

The *filename* argument is the name of the destination file. You must always provide a source filename. You can omit the destination filename, in which case the system uses the source filename. Wildcards are not permitted. The maximum filename length is 63 characters.

#### **copy mop bootflash** (Cisco 4500 series only) **copy mop flash**

To copy a file from a MOP server to the router, use one of the listed **copy mop** EXEC commands.

- |                  |  |
|------------------|--|
| <b>bootflash</b> | Specifies to copy a bootstrap image from a MOP server to internal Flash memory on a Cisco 4500 series. |
| <b>flash</b>     | Specifies internal Flash memory as the destination of the copy operation.                              |



**copy rcp bootflash** (Cisco 4500 series only)  
**copy rcp {flash | running-config | startup-config}**  
**copy rcp {flash | running-config | startup-config | file\_id}** (Cisco 7000 series and Cisco 7500 series only)

To copy a file from a network server to the router or to another destination using rcp, use one of the listed **copy rcp** EXEC commands. The **copy rcp running-config** command replaces the **configure network** command. The **copy rcp startup-config** command replaces the **configure overwrite-network** command.

<b>bootflash</b>	Specifies to copy a bootstrap image from a network server to Flash memory on a Cisco 4500 series using rcp.
<b>flash</b>	Specifies internal Flash memory as the destination of the copy operation. The Cisco 7500 series cannot use this keyword; all other platforms can.
<b>running-config</b>	Specifies the currently running configuration as the destination of the copy operation.
<b>startup-config</b>	Specifies the configuration used for initialization as the destination of the copy operation.

*file\_id* Specifies a *device:filename* as the destination of the copy operation. The *device* argument is optional; but when it is used, the colon (:) is required. Valid devices are as follows:

- **flash:** This device is the internal Flash memory on the Cisco 7000 series.
- **bootflash:** This device is the internal Flash memory in the Cisco 7500 series.
- **slot0:** This device is the PCMCIA slot on the Cisco 7000 series RP card or the first PCMCIA slot on the Cisco 7500 series RSP card.
- **slot1:** This device is the second PCMCIA slot on the Cisco 7500 series RSP card.
- **nvr:** This device is the router's NVRAM. If you specify NVRAM, omit the filename. The colon (:) is required. The Cisco 7000 series cannot use this keyword.

The *filename* argument is the name of the destination file. You must always provide a source filename. You can omit the destination filename, in which case the system uses the source filename. Wildcards are not permitted. The maximum filename length is 63 characters.

**copy running-config { rcp | startup-config | tftp }**  
**copy running-config { rcp | startup-config | tftp | *file\_id* }** (Cisco 7000 series and Cisco 7500 series only)

To copy the router's running configuration file to another destination, use one of the listed **copy running-config** EXEC commands. The **copy running-config startup-config** command replaces the **write memory** command. The **copy running-config rcp** or **copy running-config tftp** command replaces the **write network** command.

**rcp** Specifies a copy operation to a network server using rcp.

<b>startup-config</b>	Specifies the configuration used for initialization as the destination of the copy operation. The Cisco 4500 series cannot use this keyword.
<b>tftp</b>	Specifies a TFTP server as the destination of the copy operation.
<i>file_id</i>	<p>Specifies a <i>device:filename</i> as the destination of the copy operation. The <i>device</i> argument is optional; but when it is used, the colon (:) is required. Valid devices are as follows:</p> <ul style="list-style-type: none"> <li>• <b>flash:</b> This device is the internal Flash memory on the Cisco 7000 series.</li> <li>• <b>bootflash:</b> This device is the internal Flash memory in the Cisco 7500 series.</li> <li>• <b>slot0:</b> This device is the PCMCIA slot on the Cisco 7000 series RP card or the first PCMCIA slot on the Cisco 7500 series RSP card.</li> <li>• <b>slot1:</b> This device is the second PCMCIA slot on the Cisco 7500 series RSP card.</li> <li>• <b>nvr:</b> This device is the router's NVRAM. If you specify NVRAM, omit the filename. The colon (:) is required. The Cisco 7000 series cannot use this keyword.</li> </ul>

The *filename* argument is the name of the destination file. You must always provide a source filename. You can omit the destination filename, in which case the system uses the source filename. Wildcards are not permitted. The maximum filename length is 63 characters.

**copy startup-config { rcp | running-config | tftp }**  
**copy startup-config { rcp | running-config | tftp | file\_id }** (Cisco 7000 series and Cisco 7500 series only)

To copy the router's startup configuration file to another destination, use one of the listed **copy startup-config** EXEC commands.

<b>rcp</b>	Specifies a copy operation to a network server using rcp.
<b>running-config</b>	Specifies the currently running configuration as the destination of the copy operation.
<b>tftp</b>	Specifies a TFTP server as the destination of the copy operation.
<i>file_id</i>	<p>Specifies a <i>device:filename</i> as the destination of the copy operation. The <i>device</i> argument is optional; but when it is used, the colon (:) is required. Valid devices are as follows:</p> <ul style="list-style-type: none"><li>• <b>flash:</b> This device is the internal Flash memory on the Cisco 7000 series.</li><li>• <b>bootflash:</b> This device is the internal Flash memory in the Cisco 7500 series.</li><li>• <b>slot0:</b> This device is the PCMCIA slot on the Cisco 7000 series RP card or the first PCMCIA slot on the Cisco 7500 series RSP card.</li><li>• <b>slot1:</b> This device is the second PCMCIA slot on the Cisco 7500 series RSP card.</li><li>• <b>nvr:</b> This device is the router's NVRAM. If you specify NVRAM, omit the filename. The colon (:) is required. The Cisco 7000 series cannot use this keyword.</li></ul>

The *filename* argument is the name of the destination file. You must always provide a source filename. You can omit the destination filename, in which case the system uses the source filename. Wildcards are not permitted. The maximum filename length is 63 characters.

**copy tftp bootflash** (Cisco 4500 series only)  
**copy tftp {flash | running-config | startup-config}**  
**copy tftp {flash | running-config | startup-config | file\_id}** (Cisco 7000 series and Cisco 7500 series only)

To copy a file from a TFTP server to the router or to another destination, use one of the listed **copy tftp** EXEC commands. The **copy tftp running-config** command replaces the **configure network** command. The **copy tftp startup-config** command replaces the **configure overwrite-network** command.

<b>bootflash</b>	Specifies to copy a bootstrap image from a TFTP server to internal Flash memory on a Cisco 4500 series.
<b>flash</b>	Specifies internal Flash memory as the destination of the copy operation. The Cisco 7500 series cannot use this keyword; all other platforms can.
<b>running-config</b>	Specifies the currently running configuration as the destination of the copy operation.
<b>startup-config</b>	Specifies the configuration used for initialization as the destination of the copy operation.

*file\_id*

Specifies a *device:filename* as the destination of the copy operation. The *device* argument is optional; but when it is used, the colon (:) is required. Valid devices are as follows:

- **flash:** This device is the internal Flash memory on the Cisco 7000 series.
- **bootflash:** This device is the internal Flash memory in the Cisco 7500 series.
- **slot0:** This device is the PCMCIA slot on the Cisco 7000 series RP card or the first PCMCIA slot on the Cisco 7500 series RSP card.
- **slot1:** This device is the second PCMCIA slot on the Cisco 7500 series RSP card.
- **nvr:** This device is the router's NVRAM. If you specify NVRAM, omit the filename. The colon (:) is required.

The *filename* argument is the name of the destination file. You must always provide a source filename. You can omit the destination filename, in which case the system uses the source filename. Wildcards are not permitted. The maximum filename length is 63 characters.

### **copy verify**

The **verify** or **verify flash** command replaces this command. Refer to the descriptions of the **verify** and **verify flash** commands for more information.

### **copy verify bootflash**

The **verify bootflash** command replaces this command. Refer to the description of the **verify bootflash** command for more information.

**delete** [*device:*]*filename*

To delete any file on a Flash memory device of a Cisco 7000 series or Cisco 7500 series, use the **delete** EXEC command.

- device:* (Optional) Device containing the file to be deleted. The colon (:) is required. Valid devices are as follows:
- **flash**. This device is the internal Flash memory in the Cisco 7000 series. This device is the initial default device. Otherwise, the default device is that specified by the **cd** command.
  - **bootflash**. This device is the internal Flash memory in the Cisco 7500 series.
  - **slot0**. This device is the PCMCIA slot on the Cisco 7000 series RP card or the first PCMCIA slot on the Cisco 7500 series RSP card. For the Cisco 7500 series, this device is the initial default device. Otherwise, the default device is that specified by the **cd** command.
  - **slot1**. This device is the second PCMCIA slot on the Cisco 7500 series RSP card.
- filename* Name of the file to be deleted. The maximum filename length is 63 characters.

**dir** [/all | /deleted | /long] [*device:*]*filename*

To display a list of files on a Flash memory device of a Cisco 7000 series or Cisco 7500 series, use the **dir** EXEC command.

- /all** (Optional) Lists deleted files, undeleted files, and files with errors.
- /deleted** (Optional) Lists only the deleted files.
- /long** (Optional) Lists only valid files. Valid files are those that are undeleted and without errors.

- device:* (Optional) Device containing the file(s) to list. The colon (:) is required. Valid devices are as follows:
- **flash.** This device is the internal Flash memory in the Cisco 7000 series. This device is the initial default device. Otherwise, the default device is that specified by the **cd** command.
  - **bootflash.** This device is the internal Flash memory in the Cisco 7500 series.
  - **slot0.** This device is the PCMCIA slot on the Cisco 7000 series RP card or the first PCMCIA slot on the Cisco 7500 series RSP card. For the Cisco 7500 series, this device is the initial default device. Otherwise, the default device is that specified by the **cd** command.
  - **slot1.** This device is the second PCMCIA slot on the Cisco 7500 series RSP card.
- filename* (Optional) Name of the file(s) to display on a specified device. The files can be of any type. You can use wildcards in the filename. A wildcard character (\*) matches all patterns. Strings after a wildcard are ignored.



### **erase startup-config**

**erase** [*device:*]*filename* (Cisco 7000 series and Cisco 7500 series only)

To erase a saved configuration, use one of the listed **erase** EXEC commands. The **erase startup-config** command replaces the **write erase** command.

<b>startup-config</b>	<p>On all platforms except the Cisco 7000 and the Cisco 7500 series, erases the startup configuration in NVRAM.</p> <p>On the Cisco 7000 series and the Cisco 7500 series, erases or deletes the configuration pointed to by the CONFIG_FILE environment variable.</p>
<i>device:</i>	<p>(Optional) Device containing the file to delete. The colon (:) is required. Valid devices are as follows:</p> <ul style="list-style-type: none"><li>• <b>flash</b>. This device is the internal Flash memory in the Cisco 7000 series. This device is the initial default device. Otherwise, the default device is that specified by the <b>cd</b> command.</li><li>• <b>bootflash</b>. This device is the internal Flash memory in the Cisco 7500 series.</li><li>• <b>slot0</b>. This device is the PCMCIA slot on the Cisco 7000 series RP card or the first PCMCIA slot on the Cisco 7500 series RSP card. For the Cisco 7500 series, this device is the initial default device. Otherwise, the default device is that specified by the <b>cd</b> command.</li><li>• <b>slot1</b>. This device is the second PCMCIA slot on the Cisco 7500 series RSP card.</li></ul>
<i>filename</i>	<p>Name of the file to delete. The files can be of any type. This command does not support wildcards in the filename.</p>

### **erase bootflash**

To erase the boot image in Flash memory on the Cisco 4500, use the **erase bootflash** EXEC command.

### **erase flash**

To erase internal Flash memory, use the **erase flash** EXEC command. This command replaces the **copy erase flash** command.

**format** [**spare** *spare-number*] *device1*: [[*device2*:][*monlib-filename*]]

To format Flash memory on a Cisco 7000 series or Cisco 7500 series, use the **format** EXEC command.

<b>spare</b>	(Optional) Reserves spare sectors as specified by the <i>spare-number</i> argument when formatting a device.
<i>spare-number</i>	(Optional) Number of the spare sectors to reserve on formatted device. Valid values are 0 to 16. The default value is zero.
<i>device1</i> :	Device to format. The colon (:) is required. Valid devices are as follows: <ul style="list-style-type: none"><li>• <b>bootflash</b>. This device is the internal Flash memory in the Cisco 7500 series.</li><li>• <b>slot0</b>. This device is the PCMCIA slot on the Cisco 7000 series RP card or the first PCMCIA slot on the Cisco 7500 series RSP card.</li><li>• <b>slot1</b>. This device is the second PCMCIA slot on the Cisco 7500 series RSP card.</li></ul>

- device2:* (Optional) Device containing the monlib file to use for formatting *device1*. The colon (:) is required. Valid devices are as follows:
- **bootflash.** This device is the internal Flash memory in the Cisco 7500 series.
  - **slot0.** This device is the PCMCIA slot on the Cisco 7000 series RP card or the first PCMCIA slot on the Cisco 7500 series RSP card. For the Cisco 7500 series, this device is the initial default device.
  - **slot1.** This device is the second PCMCIA slot on the Cisco 7500 series RSP card.
- monlib-filename* (Optional) Name of the ROM monitor library file (monlib file) to use for formatting *device1*. The default monlib file is the one bundled with the system software.

#### **[no] ip rarp-server *ip-address***

Use the **ip rarp-server** interface configuration command to allow the router to act as a Reverse Address Resolution Protocol (RARP) server. Use the **no** form of this command to restore the interface to the default of no RARP server support.

*ip-address* IP address that is to be provided in the source protocol address field of the RARP response packet. Normally, this is set to whatever address you configure as the primary address for the interface.

#### **[no] ip rcmd domain-lookup**

Use the **ip rcmd domain-lookup** global configuration command to enable Domain Name System (DNS) security for rcp and rsh. To bypass DNS security for rcp and rsh, use the **no** form of this command.

**[no] ip rcmd rcp-enable**

To configure the router to allow remote users to copy files to and from the router, use the **ip rcmd rcp-enable** global configuration command. Use the **no** form of this command to disable a router that is enabled for rcp.

**[no] ip rcmd remote-host *local-username*  
{*ip-address* | *host*} *remote-username* [enable]**

To allow remote users to execute commands on the router using rsh or rcp, use the **ip rcmd remote-host** global configuration command to create an entry for the remote user in a local authentication database. Use the **no** form of this command to remove an entry for a remote user from the local authentication database.

<i>local-username</i>	Name of the user on the local router. You can specify the router host name as the username. This name needs to be communicated to the network administrator or the user on the remote system. To be allowed to remotely execute commands on the router, the remote user must specify this value correctly.
<i>ip-address</i>	IP address of the remote host from which the local router will accept remotely executed commands. Either the IP address or the host name is required.
<i>host</i>	Name of the remote host from which the local router will accept remotely executed commands. Either the host name or the IP address is required.
<i>remote-username</i>	Name of the user on the remote host from which the router will accept remotely executed commands.
<b>enable</b>	(Optional) Enables the remote user to execute privileged EXEC commands using rsh. This keyword does not apply to rcp.

**[no] ip rcmd remote-username** *username*

To configure the remote username to be used when requesting a remote copy using rcp, use the **ip rcmd remote-username** global configuration command. To remove the remote username from the configuration, use the **no** form of this command.

<i>username</i>	Name of the remote user on the server. This name is used for rcp copy requests. All files and images to be copied are searched for or written relative to the directory of the remote user's account.
-----------------	---

**[no] ip rcmd rsh-enable**

To configure the router to allow remote users to execute commands on the router using rsh, use the **ip rcmd rsh-enable** global configuration command. Use the **no** form of this command to disable a router that is enabled for rsh.

**microcode interface** [**flash** | **rom** | **system**] [**flash** *filename*]

**no microcode interface** [**flash** | **rom**] [**flash** *filename*]

**[no] microcode interface** [**flash** *file\_id* | **rom** | **system**] (Cisco 7500 series only)

To specify the location of the microcode you want to download from Flash memory into the writable control store (WCS) on a Cisco 7000 series or Cisco 7500 series, use the **microcode** interface configuration command.

<i>interface</i>	One of the following interface processor names: <b>aip</b> , <b>fip</b> , <b>fsip</b> , <b>hip</b> , <b>mip</b> , <b>trip</b> , <b>eip</b> , or <b>sp</b> .
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<b>flash</b>	(Optional) If the <b>flash</b> keyword is specified, a <i>filename</i> argument is required, unless you are using the <b>no microcode interface flash</b> command.
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<b>rom</b>	(Optional) If the <b>rom</b> keyword is specified, no further arguments are necessary. For example, the command <b>microcode fip rom</b> specifies that all FDDI Interface Processors (FIPs) should be loaded from their onboard ROM microcode. This onboard ROM microcode is not the same as the eight ROMs on the RP that contain the system image.
<b>system</b>	(Optional) If <b>system</b> is specified, the router loads the microcode from the microcode bundled into the system image you are running for that interface type.
<i>filename</i>	(Optional) Filename of the microcode in Flash memory that you want to download. This argument is only used with the <b>flash</b> keyword. If you use the <b>flash</b> keyword, the name of the microcode file in Flash is required unless the command is <b>no microcode interface flash</b> . (This command results in the same default condition as the command <b>microcode interface rom</b> , which indicates that the card should be loaded from its onboard ROM microcode.)
<i>file_id</i>	Specifies a <i>device:filename</i> of the microcode file to download. The colon (:) is required. Valid devices are as follows: <ul style="list-style-type: none"> <li>• <b>bootflash:</b>. This device is the internal Flash memory in the Cisco 7500 series.</li> <li>• <b>slot0:</b>. This device is the first PCMCIA slot on the Cisco 7500 series RSP card.</li> <li>• <b>slot1:</b>. This device is the second PCMCIA slot on the Cisco 7500 series RSP card.</li> </ul> The <i>filename</i> is the name of the microcode file.

### microcode reload

To signal to the Cisco 7000 series router that all microcode configuration commands have been entered and the processor cards should be reloaded, use the **microcode reload** interface configuration command.

**[no] mop device-code { cisco | ds200 }**

To identify the type of device sending MOP sysid messages and request program messages, use the **mop device-code** global configuration command. Use the **no** form of this command to set the identity to the default value.

<b>cisco</b>	Denotes a Cisco device code.
<b>ds200</b>	Denotes a DECserver 200 device code.

**mop retransmit-timer *seconds***  
**no mop retransmit-timer**

To configure the length of time the router waits before retransmitting boot requests to a MOP server, use the **mop retransmit-timer** global configuration command. Use the **no** form of this command to reinstate the default value.

<i>seconds</i>	Sets the length of time, in seconds, that the router waits before retransmitting a message. The value is a number from 1 to 20.
----------------	---

**mop retries *count***  
**no mop retries**

To configure the number of times a router will retransmit boot requests to a MOP server, use the **mop retries** global configuration command. Use the **no** form of this command to reinstate the default value.

<i>count</i>	Indicates the number of times a router will retransmit a MOP boot request. The value is a number from 3 to 24.
--------------	--

**o**  
**o/r**

To list the value of the boot field (bits 0-3) in the configuration register, use the ROM monitor **o** command. To reset the value of the boot field so that the router boots from ROM, use the ROM monitor **o/r** command.

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#### System Image, Microcode Image, and Configuration File Load

**partition flash** *partitions* [*size1* *size2*]

**no partition flash**

To separate Flash memory into two partitions, use the **partition flash** global configuration command. Use the **no** form of this command to undo partitioning, and restore Flash memory to one partition.

<i>partitions</i>	Number of partitions in Flash memory. Can be 1 or 2.
<i>size1</i>	(Optional) Size of the first partition in megabytes.
<i>size2</i>	(Optional) Size of the second partition in megabytes.

## **pwd**

To show the current setting of the **cd** command on a Cisco 7000 series or Cisco 7500 series, use the **pwd** EXEC command.

## **reload**

To reload the operating system, use the **reload** EXEC command.

**rsh** {*ip-address* | *host*} [/user *username*] *remote-command*

To execute a command remotely on a remote rsh host, use the **rsh** EXEC command.

<i>ip-address</i>	IP address of the remote host on which to execute the rsh command. Either the IP address or the host name is required.
<i>host</i>	Name of the remote host on which to execute the command. Either the host name or the IP address is required.



<i>/user username</i>	(Optional) Remote username. If you do not specify a remote username, the router software uses the configured remote username, if one exists. Otherwise, the router software uses the username associated with the current TTY, if it is a valid name. If this name is invalid, the router software uses the host name as the username.
<i>remote-command</i>	Command to be executed remotely. This is a required parameter. Unlike UNIX, the router software does not default to a remote login. Instead, the router provides Telnet and connect services.

#### **[no] service compress-config**

To compress configuration files on the Cisco 7000 series, Cisco 4000, Cisco 3000, and AGS+ routers, which have NVRAM, use the **service compress-config** global configuration command. To disable compression, use the **no** form of this command.

#### **[no] service config**

To enable autoloading of configuration files from a network server, use the **service config** global configuration command. Use the **no** form of this command to restore the default.

#### **show async-bootp**

To display the extended BOOTP request parameters that have been configured for asynchronous interfaces, use the **show async-bootp** privileged EXEC command.

### **show boot**

To display the contents of the BOOT environment variable, the name of the configuration file pointed to by the CONFIG\_FILE environment variable, and the contents of the BOOTLDR environment variable on a Cisco 7000 series or Cisco 7500 series, use the **show boot** EXEC command.

### **show bootflash**

To verify boot Flash memory, use the **show bootflash** EXEC command.

### **show configuration**

The **show startup-config** command replaces this command. Refer to the description of the **show startup-config** command for more information.

**show file** [*device:*] *filename*

To display the configuration stored in a specified file on a Cisco 7000 series and Cisco 7500 series, use the **show file** EXEC command.

*device:* (Optional) Device containing the configuration file. The colon (:) is required. Valid devices are as follows:

- **flash**. This device is the internal Flash memory in the Cisco 7000 series. This device is the initial default device.
- **bootflash**. This device is the internal Flash memory in the Cisco 7500 series.
- **nvr**am. The device is the router's NVRAM. If you specify NVRAM, omit the filename. The colon (:) is required.
- **slot0**. This device is the PCMCIA slot on the Cisco 7000 series RP card or the first PCMCIA slot on the Cisco 7500 series RSP card. For the Cisco 7500 series, this device is the initial default device.
- **slot1**. This device is the second PCMCIA slot on the Cisco 7500 series RSP card.

If you omit the *device:* argument, the system uses the default device specified by the **cd** command.

*filename* Name of the file. The file can be of any type. The maximum filename length is 63 characters.

**show flash** [**all** | **chips** | **detailed** | **err** | **partition number** [**all** | **chips** | **detailed** | **err**] | **summary**]  
**show flash** [**all** | **chips** | **filesys**] [*device:*] (Cisco 7000 series PCMCIA slot and Cisco 7500 series only)

To display the layout and contents of Flash memory, use one of the listed **show flash** EXEC commands.

- |                 |   |
|-----------------|---|
| <b>all</b>      | <p>(Optional) On all platforms except the Cisco 7000 series PCMCIA slot and the Cisco 7500 series, <b>all</b> shows complete information about Flash memory, including information about the individual ROM devices in Flash memory and the names and sizes of all system image files stored in Flash memory, including those that are invalidated.</p> <p>On the Cisco 7000 series PCMCIA slot and the Cisco 7500 series, <b>all</b> shows the following information:</p> <ul style="list-style-type: none"> <li>• The same information as that displayed by the <b>dir</b> command when you use the <b>/all</b> and <b>/long</b> keywords together</li> <li>• The same information as that displayed by the <b>filesys</b> keyword</li> <li>• The same information as that displayed by the <b>chips</b> keyword</li> </ul> |
| <b>chips</b>    | <p>(Optional) Shows information per partition and per chip, including which bank the chip is in plus its code, size, and name.</p>  |
| <b>detailed</b> | <p>(Optional) Shows detailed file directory information per partition, including file length, address, name, Flash checksum, computer checksum, bytes used, bytes available, total bytes, and bytes of system Flash memory.</p>   |
| <b>err</b>      | <p>(Optional) Shows write or erase failures in the form of number of retries.</p>   |

<b>partition number</b>	(Optional) Shows output for the specified partition number. If you specify the <b>partition</b> keyword, you must specify a partition number. You can use this keyword only when Flash memory has multiple partitions.
<b>summary</b>	(Optional) Shows summary information per partition, including the partition size, bank size, state, and method by which files can be copied into a particular partition. You can use this keyword only when Flash memory has multiple partitions.
<b>fileys</b>	(Optional) Shows the Device Info Block, the Status Info, and the Usage Info.
<b>device:</b>	(Optional) Specifies the device about which to show Flash information. The device is optional; but when it is used, the colon (:) is required. When it is omitted, the default device is that specified by the <b>cd</b> command. Valid devices are as follows: <ul style="list-style-type: none"> <li>• <b>bootflash.</b> This device is the internal Flash memory in the Cisco 7500 series.</li> <li>• <b>slot0.</b> This device is the PCMCIA slot on the Cisco 7000 series RP card or the first PCMCIA slot on the Cisco 7500 series RSP card.</li> <li>• <b>slot1.</b> This device is the second PCMCIA slot on the Cisco 7500 series RSP card.</li> </ul>

### **show flh-log**

To view the system console output generated during the Flash load helper operation, use the **show flh-log** privileged EXEC command.

### **show microcode**

To show the microcode bundled into a Cisco 7000 series system, use the **show microcode** EXEC command.

### **show running-config**

To display the configuration information currently running on the terminal, use the **show running-config** EXEC command. This command replaces the **write terminal** command.

### **show startup-config**

To display the contents of NVRAM (if present and valid) or to show the configuration file pointed to by the CONFIG\_FILE environment variable, use the **show startup-config** EXEC command. This command replaces **show configuration** command.

### **show version**

Use the **show version** EXEC command to display the configuration of the system hardware, the software version, the names and sources of configuration files, and the boot images.

### **squeeze device:**

To permanently delete Flash files on a Cisco 7000 series or Cisco 7500 series, use the **squeeze** EXEC command.

*device:* Flash device from which to permanently delete files. The colon (:) is required. Valid devices are as follows:

- **bootflash.** This device is the internal Flash memory in the Cisco 7500 series.
- **slot0.** This device is the PCMCIA slot on the Cisco 7000 series RP card or the first PCMCIA slot on the Cisco 7500 series RSP card.
- **slot1.** This device is the second PCMCIA slot on the Cisco 7500 series RSP card.

```

tftp-server flash [partition-number:]filename1 [alias filename2]
[access-list-number]
tftp-server rom alias filename1 [access-list-number]
no tftp-server { flash [partition-number:]filename1 | rom
alias filename2 }
[no] tftp-server flash device:filename (Cisco 7000 series and
Cisco 7500 series only)

```

To specify that the router operate as a TFTP server or to specify that a Flash device on a Cisco 7000 series or Cisco 7500 series operate as a TFTP server, use one of the listed **tftp-server** global configuration commands. This command replaces the **tftp-server system** command. To remove a previously defined filename, use the **no tftp-server** command with the appropriate filename.

<b>flash</b>	Specifies TFTP service of a file in Flash memory.
<b>rom</b>	Specifies TFTP service of a file in ROM.
<i>filename1</i>	Name of a file in Flash or in ROM that the TFTP server uses in answering TFTP Read Requests.
<b>alias</b>	Specifies an alternate name for the file that the TFTP server uses in answering TFTP Read Requests.
<i>filename2</i>	Alternate name of the file that the TFTP server uses in answering TFTP Read Requests. A client of the TFTP server can use this alternate name in its Read Requests.
<i>access-list-number</i>	(Optional) Basic IP access-list number. Valid values are 0 to 99.
<i>partition-number:</i>	(Optional) Specifies TFTP service of a file in the specified partition of Flash memory. If the partition number is not specified, the file in the first partition is used.

<i>device:</i>	Specifies TFTP service of a file on a Flash memory device in the Cisco 7000 series or Cisco 7500 series. The colon (:) is required. Valid devices are as follows: <ul style="list-style-type: none"> <li>• <b>flash</b>. This device is the internal Flash memory on the Cisco 7000 series.</li> <li>• <b>bootflash</b>. This device is the internal Flash memory in the Cisco 7500 series.</li> <li>• <b>slot0</b>. This device is the PCMCIA slot on the Cisco 7000 series RP card or the first PCMCIA slot on the Cisco 7500 series RSP card.</li> <li>• <b>slot1</b>. This device is the second PCMCIA slot on the Cisco 7500 series RSP card.</li> </ul>
<i>filename</i>	Name of the file on a Flash memory device that the TFTP server uses in answering a TFTP Read Request. Use this argument only with the Cisco 7000 series or Cisco 7500 series.

#### **undelete** *index* [*device:*]

To recover a deleted file on a specified device of a Cisco 7000 series or Cisco 7500 series, use the **undelete** EXEC command.

<i>index</i>	Number that indexes the file in the <b>dir</b> command output.
--------------	--



*device:* (Optional) Device to contain the recovered configuration file. The colon (:) is required. Valid devices are as follows:

- **bootflash.** This device is the internal Flash memory in the Cisco 7500 series.
- **slot0.** This device is the PCMCIA slot on the Cisco 7000 series RP card or the first PCMCIA slot on the Cisco 7500 series RSP card.
- **slot1.** This device is the second PCMCIA slot on the Cisco 7500 series RSP card.

The default device is the one specified by the **cd** command.

#### **verify** [*device:*] *filename*

On the Cisco 7000 series or the Cisco 7500 series, to verify the checksum of a file on a Flash device, use the **verify EXEC** command. This command replaces the **copy verify** and **copy verify flash** commands.

*device:* (Optional) Device containing the file whose checksum is being verified. The colon (:) is required. Valid devices are as follows:

- **flash.** This device is the internal Flash memory in the Cisco 7000 series.
- **bootflash.** This device is the internal Flash memory in the Cisco 7500 series.
- **slot0.** This device is the PCMCIA slot on the Cisco 7000 series RP card or the first PCMCIA slot on the Cisco 7500 series RSP card.
- **slot1.** This device is the second PCMCIA slot on the Cisco 7500 series RSP card.

When you omit this argument, the system verifies the checksum of the specified file on the current working device.

*filename*      Name of a file on the specified Flash device. The file can be of any type. The maximum filename length is 63 characters.

#### **verify bootflash**

To verify the checksum of a boot image in Flash memory on the Cisco 4500, use the **verify bootflash** EXEC command. This command replaces the **copy verify bootflash** command.

#### **verify flash**

To verify the checksum of Flash memory, use the **verify flash** EXEC command. This command replaces the **copy verify** and **copy verify flash** commands.

#### **write erase**

The **erase startup-config** command replaces this command. Refer to the description of the **erase** command for more information on **erase startup-config**.

#### **write memory**

The **copy running-config startup-config** command replaces this command. Refer to the description of the **copy running-config** command for more information on **copy running-config startup-config**.

#### **write network**

The **copy running-config rcp** or **copy running-config tftp** command replaces this command. Refer to the description of the **copy running-config** command for more information on **copy running-config rcp** or **copy running-config tftp**.

### **write terminal**

The **show running-config** command replaces this command. Refer to the description of **show running-config** for more information.