



# Installing Software Using the Boot Helper

**Last Updated: September 7, 2010**

This chapter provides the procedures for installing a new release of Cisco Analog Video Gateway software by using the boot helper.



**Note**

The boot helper is intended for emergency use or "first time" installations, such as going from 1.1(2) to 2.1. The helper supports only installations of full images. The boot helper mode does not support upgrades.

To use this *clean* installation process, the system must be off line while you download the new software files. The clean installation erases the Flash memory before loading the new files in memory. You must back up and restore your configuration files. Both an FTP server and a TFTP server are required.

This chapter contains the following sections:

- [Task List, page 23](#)
- [Prerequisites, page 24](#)
- [Downloading the Software Files, page 24](#)
- [Entering Configuration Parameter Values, page 25](#)
- [Installing the Software Image Files, page 26](#)

## Task List

[Table 4](#) lists the tasks required for installing a new software image.

**Table 4**      **Task List for Upgrading Using the Boot Helper**

Checklist	Checkoff
1. Complete the software upgrade prerequisites (see “ <a href="#">Software Installation and Upgrade Prerequisites</a> ” section on page 2).	<input type="checkbox"/>
2. Download the software image files. See the “ <a href="#">Downloading the Software Files</a> ” section on page 24.	<input type="checkbox"/>
3. Back up your configuration files. See “ <a href="#">Appendix A: Backing Up Files</a> ” to back up your configuration files.	<input type="checkbox"/>

**Table 4** Task List for Upgrading Using the Boot Helper

Checklist	Checkoff
4. Enter configuration parameter values. See the “ <a href="#">Entering Configuration Parameter Values</a> ” section on page 25.	<input type="checkbox"/>
5. Install the software files. See the “ <a href="#">Installing the Software Image Files</a> ” section on page 26.	<input type="checkbox"/>
6. Restore the your configuration files. See “ <a href="#">Appendix B: Restoring Files</a> ” to restore your configuration files.	<input type="checkbox"/>

## Prerequisites

- Ensure that the TFTP and FTP servers are configured and active. If your TFTP server and FTP server reside on the same computer, ensure that the TFTP and FTP programs are activated.
- Ensure that you can ping the Cisco Analog Video Gateway module from your TFTP server and FTP server.


**Note**

Stop both the live and archive video streaming of all directly connected Cisco Video Management and Storage System modules.

## Downloading the Software Files

Downloading the Cisco Analog Video Gateway software files is the first software installation task. Review the prerequisites listed in [Table 4](#) to ensure that all servers and modules are active and available.

### SUMMARY STEPS

1. Log in and go to the Cisco Software Center website and [Download Software](#).
2. Click **ISR Video Surveillance–IPVS** and download the boot helper Cisco IP Video Surveillance Analog Video Gateway software files to your TFTP server.
3. Copy the other software files to your FTP server.

### DETAILED STEPS

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- Step 1** Log in and go to the Cisco Software Center website and [Download Software](#).
- Step 2** Click **ISR Video Surveillance–IPVS** and download the boot helper Cisco IP Video Surveillance Analog Video Gateway software files to your TFTP server.
- Step 3** Copy the other software files to your FTP server.
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## What to Do Next

- Back up your configuration files. See [“Appendix A: Backing Up Files”](#) to back up your configuration files.
- After you back up the files, configure several parameter values. See the [“Entering Configuration Parameter Values”](#) section on page 25.

## Entering Configuration Parameter Values

You must configure several parameters in the Cisco Analog Video Gateway server so that you can download the Cisco Analog Video Gateway software files.

### SUMMARY STEPS

1. **reload**
2. Type “\*\*\*” to enter boot helper mode.
3. **config**
4. Enter the values for the following parameters:
  - Gateway module IP address
  - Subnet mask
  - TFTP server address
  - Gateway router address
  - Ethernet interface
  - Default helper image: *sw-ipvs-k9-version*
  - Default boot setting
  - Default boot loader is primary
5. Use the boot helper to boot the network module.

### DETAILED STEPS

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- |               |   |
|---------------|---|
| <b>Step 1</b> | To restart the system, type <b>reload</b> .   |
| <b>Step 2</b> | To enter the boot loader mode, type “***.”  |
| <b>Step 3</b> | To enter configuration mode, type <b>config</b> .   |
| <b>Step 4</b> | Enter the values for the following parameters: <ul style="list-style-type: none"><li>• Gateway Module IP address</li><li>• Subnet mask</li><li>• TFTP server address</li><li>• Gateway router address</li><li>• Ethernet interface</li><li>• Default helper image: <b>ipvs-boothelper.evm.version</b></li><li>• Default boot: <b>disk</b></li></ul> |

- Default boot loader: **primary**




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**Note** We recommend that you use the primary boot loader as the default when upgrading.

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**Step 5** To begin the installation, type **boot helper**. This will load the installer.

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## What to Do Next

Install the software files. See the [“Installing the Software Image Files”](#) section on page 26.

# Installing the Software Image Files

After you download the software files and back up your configuration files, you can install the software image files.

## Prerequisites

Installing the software image files requires the following information:

- TFTP server IP address
- FTP server IP address
- FTP server user ID
- FTP server password
- Software package name




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**Note** Back up current system configuration files before you install new software.

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## SUMMARY STEPS

Starting from the module EXEC mode:

1. From the install menu, select the first choice, **Install software**.
2. Enter the package name, FTP server address, username, and password.
3. Enter **y** to begin the initial configuration in the post-installation configuration menu.
4. Enter **y** to restore the configuration saved in flash memory, or enter **n** to use your backup to restore your configuration.
5. Enter the Cisco Analog Video Gateway administrator ID. This is the username for logging in to the Cisco Analog Video Gateway GUI.

## DETAILED STEPS

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**Step 1** From the install menu, select the first choice, **Install software**:

```

Welcome to Cisco Systems Service Engine Helper Software
Please select from the following
1      Install software
2      Reload module
(Type '?' at any time for help)
Choice: 1

```

**Step 2** Enter the package name, FTP server address, username, and password:

```

Package name: ipvs-k9.evm.version.pkg
Server url: ftp://10.33.162.120/
Username: ipvs
Password: *****
Software installation will clear disk contents
Continue [y/n]? y

```




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**Caution** This step cleans the flash memory. All configurations are lost after this step. For future upgrades and installations, verify that a backup has been done. If it has not, abort at this step and do a backup. See [Appendix A: Backing Up Files, page 29](#).

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**Step 3** Enter **y** to begin the initial configuration:

```

NIMPORTANT::
IMPORTANT:: Welcome to Cisco Systems Service Engine
IMPORTANT:: post installation configuration tool.
IMPORTANT::
IMPORTANT:: This is a one time process which will guide
IMPORTANT:: you through initial setup of your Service Engine.
IMPORTANT:: Once run, this process will have configured
IMPORTANT:: the system for your location.
IMPORTANT::
IMPORTANT:: If you do not wish to continue, the system will be halted
IMPORTANT:: so it can be safely removed from the router.
IMPORTANT::
Do you wish to start configuration now (y,n)? y

```

**Step 4** Enter **y** to restore the configuration saved in flash memory, or enter **n** to use your backup to restore your configuration. See the output below to determine your configuration needs.

```

IMPORTANT::
IMPORTANT:: A Cisco Analog Video Gateway Module configuration has been found in flash.
IMPORTANT:: You can choose to restore this configuration into the
IMPORTANT:: current image.
IMPORTANT::
IMPORTANT:: A stored configuration contains some of the data from a
IMPORTANT:: previous installation, but not as much as a backup. For
IMPORTANT:: example: voice messages, user passwords, user PINs, and
IMPORTANT:: auto attendant scripts are included in a backup, but are
IMPORTANT:: not saved with the configuration.
IMPORTANT::
IMPORTANT:: If you are recovering from a disaster and do not have a
IMPORTANT:: backup, you can restore the saved configuration.
IMPORTANT::
IMPORTANT:: If you are going to restore a backup from a previous
IMPORTANT:: installation, you should not restore the saved configuration.
IMPORTANT::
IMPORTANT:: If you choose not to restore the saved configuration, it
IMPORTANT:: will be erased from flash.
IMPORTANT::
Would you like to restore the saved configuration? (y,n)

```

- Step 5** Enter the Cisco Analog Video Gateway administrator ID. This is the username for logging in to the Cisco Analog Video Gateway Module GUI.

```
IMPORTANT::
IMPORTANT::      Administrator Account Creation
IMPORTANT::
IMPORTANT:: Create an administrator account. With this account,
IMPORTANT:: you can log in to the Cisco Analog Video Gateway Module GUI and
IMPORTANT:: run the initialization wizard.
IMPORTANT::

Enter administrator user ID:
  (user ID): Admin
Enter password for admin:
  (password): *****
Confirm password for admin by reentering it:
  (password): *****

se>
```

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## What to Do Next

1. Restore your configuration files. See [“Appendix B: Restoring Files”](#) to restore your configuration files.
2. Reboot the system.
3. Use the **show software versions** command to verify the upgrade.

In the **show software versions** display, the current Cisco Analog Video Gateway software version is shown as the Global version. The other versions shown are for internal components of the product and may not correspond to the actual software version.