

Installing IP/TV Server

This chapter provides system requirements and installation instructions for the IP/TV Server. Topics include:

- System Requirements
- Before You Begin
- Performing a CD-ROM Installation
- Completing an Administrative Installation
- IP/TV Server Demo Installation
- IP/TV Server Network Installation
- Uninstalling IP/TV Server

System Requirements

The following list contains the recommended minimum configuration for a computer running IP/TV Server:

Note We discourage putting the IP/TV Server and IP/TV Content Manager on the same machine for production environments due to performance reasons.

- Minimum 266-MHz Pentium processor, 400-MHz recommended for live MPEG4 streaming or live MPEG2 recording (faster machines can serve more simultaneous media streams).

System Requirements

- Minimum 64 MB RAM for Windows NT Workstation 4.0. Minimum 128 MB RAM if using NT Server or Windows Media Services.
- VGA or SuperVGA monitor.
- SoundBlaster-compatible audio card (16 bit preferred).
- Network interface card compatible with WinSock 1.1 or 2.0.
- Microsoft Windows NT 4.0 with Service Pack 4 or 5.
- Microsoft or other 32-bit WinSock 1.1- or 2.0-compliant TCP/IP stack with support for IP Multicasting and the IGMP protocol.
- Optional video capture card for live capture of external video For MPEG-1, FutureTel's PrimeView II or Optibase MovieMaker 200 is required. For MPEG-2, Optibase MovieMaker 200 is required. For video for windows codecs, we recommend the Winnov Videum-AVI PCI capture card.
- Optional input devices for live capture, such as video camera, cable or satellite feed, television broadcasts, video cassette recorder (VCR), or video-disc player. WMT tools for MPEG4 live encoding. Note that IP/TV installs WMT tools.

We recommend that you install any capture card and related software on the IP/TV Server machine before installing IP/TV Server.



Caution For the Optibase card, install the Optibase encoder board in your computer and connect the audio and video signals to it according to the installation instructions that came with the Optibase card. You can install the card before or after installing IP/TV Server on your computer. Do not install any other separate software or drivers that came with the Optibase card. Refer to the “MPEG2 Capture Devices” section in the “Administering IP/TV Server” chapter for more information about installing and configuring the Optibase capture card.

The Cisco Systems Web site at <http://www.cisco.com/iptv/> includes configuration information for both IP/TV Viewer and IP/TV Server.

Using Multiple Disk Drives

IP/TV only supports a single disk drive letter on the server for on-demand content. If multiple physical disk drives are needed, we recommend using redundant array of disks (RAID) to virtualize the multiple disk drives into a single drive letter.

System performance can also be improved by using a hardware RAID system with high-speed SCSI disk drives. If that is not an option, we recommend using a SCSI controller and the NT operating system ability of software RAID.

If only IDE drives are available, you can use Software RAID, but note that IDE disk drives do not have the performance of SCSI.

Note We recommend using RAID level 0 for best performance.

Before You Begin

IP/TV Server product files are provided on a CD-ROM. You use your computer's CD-ROM or a network drive to install IP/TV Server. If you want to install IP/TV on a computer that does not have a CD-ROM drive, obtain the path to the network installation software.

We discourage the installation of both IP/TV Server and IP/TV Content Manager on the same machine, because some functions will not operate and performance of the server will be severely impacted. If you choose to install both on the same machine, we recommend installing IP/TV Server first, so that you can begin setting up programs after installing IP/TV Content Manager.

Before you install IP/TV Server, do the following:

- Verify that your system meets the requirements described in the “System Requirements” section earlier in this chapter.
- Have your IP/TV Server registration card. You will need the serial number from the card during installation.

- Verify that you have a TCP/IP protocol stack installed. We recommend that you use the TCP/IP stack that ships with Windows NT 4.0. If you use a different stack, it must be WinSock 1.1. or 2.0 compatible. Refer to the documentation shipped with the TCP/IP stack for the installation procedure. All current shipping network stacks from Microsoft are acceptable.

Performing a CD-ROM Installation

The IP/TV product CD-ROM contains the installation programs for IP/TV Server as well as IP/TV Viewer, IP/TV Content Manager, and Network Install. To install any of the IP/TV products, you must have purchased a license for that product from Cisco Systems.

Note Although you can install IP/TV Server and IP/TV Viewer on the same machine it is not recommended. Also, you cannot run them at the same time, and if you uninstall one machine the other must be reinstalled in order to work.

Follow these steps to install IP/TV Server:

Step 1 Boot the computer that will run IP/TV Server and start Windows NT 4.0.

Note If you are running Windows NT and you do not have enough privileges to update the registry, Setup displays an error message and exits. Set your privileges to the level required to update the registry, and begin the installation procedure again.

Step 2 If an earlier version of IP/TV Server and FTP Server is running, you *must* close it. The Setup program uninstalls the previous version before continuing the installation.

Step 3 Insert the IP/TV CD-ROM into the CD-ROM drive.

If your CD-ROM drive is configured with Auto Insert Notification enabled, the IP/TV Master Setup window appears automatically.

If Auto Insert Notification is not enabled, click **Start>Run** and enter *drive letter:\setup* in the Run dialog box. After a moment, Setup displays the Master Setup window.

- Step 4** Click **Install IP/TV>Install Server** on the Master Setup window.
- Step 5** The Welcome to IP/TV Server setup window appears. Click **Next**.
- Step 6** The Software License Agreement window appears. To accept the license agreement, click **Yes**.
- Step 7** On the User Information window, enter your name, your company's name, and the serial number from the IP/TV Server registration card. Click **Next**.
- Step 8** The Destination Directory Selection window indicates the destination path where IP/TV Server files are to be installed. You can change the destination path, however we recommend that you use the default path. Click **Next**.
- Step 9** On the Select Components window, select the components you want to install. By default, all the components are selected except for Sample Media files. You can unselect any component you do not want to install. Components include: Cisco IP/TV Server, Windows Media Tools, Internet Explorer 5.0, and Sample Media Files.
- Step 10** Optionally, click **Change** on the Select Components window to unselect the Cisco FTP Server or the VXtreme Codec. Click **Next**.
- Step 11** If you do not have Windows Media Services (WMS) installed on your machine, the Specify Media Root Directory window appears. It displays the default media directory where all media files will be stored. The default media root is C:\IPTVmedia. If desired, you can change this directory. Click **Next**.

Or, if you have the WMS installed on your machine, the WMS Detection window appears. It states that WMS was detected. In order to provide interoperability with WMS, the default IP/TV media root is automatically set to the same media root as WMS. Click **Next**.

Note If you set the IP/TV media root to something different than the WMS media root, then a given .asf file cannot be served by both IP/TV and WMS. Both server types must share the same media root.

Completing an Administrative Installation

Step 12 On the Specify Content Manager Information window, specify the host name or IP address of the Content Manager and its HTTP port. (The defaults are IPTVHost and 80.) Click **Next**.

Step 13 On the Select Program Folder window, select the Program Folder. Click **Next**.

Step 14 Use the **Back** button to review or change any settings. Click **Next**.

The Installation program begins copying files from the CD-ROM to your hard drive. On the Setup Complete window, you may choose to view the IP/TV Server Readme file.

The Readme file contains some basic information about IP/TV Server, as well as updated information that could not be included in this guide. We recommend that you print the Readme file and read it while you reboot your computer.

Step 15 Click **Finish**.

Step 16 Reboot the computer and start Windows.

Note After installation you must manually move .asf files to the IP/TV Server media root you specified during installation or the files will not be visible to the Content Manager or IP/TV Viewers.

Note We recommend that you disable any screen saver, because a screen saver may disrupt programs and on-demand videos when activated.

Completing an Administrative Installation

Both the IP/TV Viewer and IP/TV Server setup.ini files provide parameters that you can manually set to control basic IP/TV administrative functions. Refer to the “Completing an Administrative Installation” section in the “Administering IP/TV Viewer” chapter for detailed information on how to set up an administrative installation for the IP/TV Server.

IP/TV Server Demo Installation

The IP/TV product CD-ROM contains the installation for IP/TV Server and IP/TV Viewer. Because the IP/TV Server demo can serve prerecorded files as well as live capture, no Content Manager is needed.

Note You need two pentium PCs on a LAN, one for the Server and one for the Viewer. The Server demo takes up approximately 350 MB of disk space, and should be installed first.

Follow these steps to install IP/TV Server Demo:

- Step 1** Boot the computer that will run IP/TV Server and start Windows 95, Windows 98, or Windows NT.
- Step 2** Insert the IP/TV CD-ROM into the CD-ROM drive on the computer (usually drive D:). If your CD-ROM drive is configured with Auto Insert Notification enabled, the IP/TV Master Setup window appears automatically.

If you do not have Auto Insert Notification enabled, click **Start >Run** and enter **D:\setup** in the Run dialog box. After a few moments the Master Setup window appears.
- Step 3** Click **Install IP/TV>Install Server**. The Demo install program begins.
- Step 4** The Software License Agreement window appears. If you agree to the license terms, click **Yes**.
- Step 5** On the User Information window, enter your name, your company's name, and the word **demo** in the Serial Number field. Click **Next**.
- Step 6** Follow the Steps 8 through 16 in the "Performing a CD-ROM Installation" section earlier in this chapter.

Note In Demo mode, IP/TV starts automatically, but scheduled programs will not autolaunch. To launch scheduled programs you must enable the programs by clicking **View>Enable All**.

IP/TV Server Network Installation

The IP/TV CD-ROM provides a network installation option so that you can install IP/TV Server at a network location for others to subsequently install locally.

Follow these steps to run a network install for IP/TV Server:

Step 1 Insert the IP/TV CD-ROM into the CD-ROM drive on any Windows-based computer with network support (usually drive D:). If your CD-ROM drive is configured with Auto Insert Notification enabled, the IP/TV Master Setup window appears automatically.

If you do not have Auto Insert Notification enabled, select **Start>Run** and enter **D:\setup** in the Run dialog box. After a few moments the Master Setup window appears.

Step 2 Click **Set up Network Install** on the Master Setup window. An instant query message asks would you like to create a Network Install of IP/TV Viewer.

Step 3 Click **No**. An instant query message asks whether you want to install the Server.

Step 4 Click **Yes**. The Destination Directory Selection window appears.

Step 5 Click **Browse** if you want to change the destination directory. Click **Next**.

The network install program copies the installation folders and files into the directory you specified. When the network install is complete, a message appears informing you that the Server files have been successfully copied.

Step 6 Click **OK**.

Step 7 Click **No** to refuse installation of IP/TV Content Manager. The desktop is displayed.

You can run remote installs from \\destdir\setup.exe.

Uninstalling IP/TV Server

We recommend that you close IP/TV Server before uninstalling it, and make sure the Cisco IP/TV FTP Service is stopped on NT. To uninstall IP/TV Server, use the Windows NT Add/Remove Programs utility.