

Planning and installation

Getting started

Getting ready for the test cases using Communications Server for Windows NT

- Review the information found in the README.TXT file on the CD-ROM or in the installation source directory.
- Obtain access to the installation media (either a CD-ROM or the appropriate LAN environment).
- Use an administrator user ID with local authority when installing Communications Server for Windows NT.
- The Communications Server for Windows NT CD-ROM contains:
 - Communications Server for Windows NT product files
 - Communications Server for Windows NT documentation
 - Adobe Acrobat Reader

In addition to the product files, the following can be selectively installed from the CD-ROM, after installing Communications Server for Windows NT:

- Clients for SNA API client services
 - OS/2
 - Windows 3.1
 - Windows 95
 - Windows NT (Intel only)
- Remote administration and configuration clients (Windows NT and Windows 95)
- IBM eNetwork Host On-Demand, Version 1.0 (a Web-based emulator)
- IBM Communications Server for Windows NT (Web-based Server Administration)
- Entry-level eNetwork Personal Communications emulator

Software requirements

Communications Server for Windows NT requires either Windows NT Server, Version 3.5.1 or Windows NT Server, Version 4.0. In addition:

- When using Windows NT Server, Version 3.5.1, Service Pack 4, or higher, is required to support the SNA API clients.
- TCP/IP is required for communication with the remote administration.
- TCP/IP and/or IPX/SPX is required for communication with SNA API clients.

Remote administration clients require either Windows NT Workstation or Server, Versions 3.5.1 or 4.0. TCP/IP is required for communication with Communications Server for Windows NT (Server).

SNA API client requires either:

- OS/2 Warp, Version 3.0, or higher
- Windows 3.1.1, or higher
- Windows 95, with Service Pack 1 and the following fix:
 - Microsoft Knowledge Base article ID: Q128366
 - Creation data: 11Mar96
 - Web site for downloading fix: www.microsoft.com/windows/software/krnlupd.htm
- Windows NT Workstation or Server
- Windows NT Server 3.5.1 with Service Pack 4, or above
- Windows NT Server 4.0
- TCP/IP and/or IPX/SPX is required for communication with Communications Server for Windows NT (Server).

Host On-Demand, Version 1.0, requires any Web server capable of serving Java™ applets to be installed on the same machine as Communications Server for Windows NT.

Hardware requirements

Following are the minimum recommended hardware requirements for installing Communications Server for Windows NT:

- Intel Pentium® computer
- 100-MHz CPU
- 75 MB of disk space
- 32 MB of RAM

Notes:

- Communications Server for Windows NT requires 10 MB of disk space on the startup drive (the drive that contains the Windows NT operating system) to store temporary files used during installation. These files are deleted after Communications Server is completely installed.
- Viewing and printing the documentation directly from the CD-ROM is an alternative to installing it.
- The clients for SNA API client services will automatically be installed on the server.

Communication adapters

One or more network communication adapters (and appropriate cable) may be required. Communications Server for Windows NT is compatible with the following adapters:

IBM ISA/EISA WAN Adapters

- Multiprotocol communication adapter for SDLC over leased and switched connections
- Wide area connector for SDLC, X.25 over leased and switched connections
- Serial/parallel adapters (asynchronous port) for SDLC

IBM Micro Channel® WAN Adapters

- Multiprotocol communication adapter for SDLC over leased and switched connections
- Wide area connector for SDLC, X.25 over leased and switched connections
- Serial and parallel adapters (asynchronous port) over asynchronous connections

IBM PCI and PCMCIA WAN Adapters

- Serial and parallel adapters (asynchronous port) over asynchronous connections
- Wide area connector for SDLC, X.25 over leased and switched connections

X.25 and SDLC, using COM port and Autosync modem

SDLC, using COM port and asynchronous modem

IBM Twinaxial Adapters for AS/400

- Enhanced 5250 display station emulation adapter
- 5250 AT-BUS communication adapter
- 5250 emulation PCMCIA adapter
- System 36/38 workstation emulation adapter/A
- 5250 emulation adapter/A
- 5250 emulation PCI adapter

Non-IBM ISA/EISA and PCI WAN adapters

- Eicon Technology Corp. for frame relay over leased, switched, and ISDN connections, and X.25 over leased and switched connections (work in process)
- MicroGate Corp., DSA adapter for SDLC
- Quadron Service Corp., IP and frame relay for IBM ARTIC adapters
- Interphase Corp. (Synaptel), DLSW, SDLC, X.25, and ISDN adapters (work in progress)

Non-IBM direct-attached channel adapters

- Bus Tech, Inc., bus and tag and ESCON adapters over SNA channel connections
- Barr Systems, Inc., bus and tag adapter over SNA channel connections

Before you install

- Close other application programs you are running.
- Install Communications Server for Windows NT before installing any version of the Personal Communications product (including the entry-level emulation program). If Personal Communications is already installed on your server, remove it before installing Communications Server for Windows NT.
- If you have any version of Communications Server for Windows NT already running, stop it before starting to install.

Installing Communications Server for Windows NT

1. Insert the Communications Server for Windows NT CD-ROM into the CD-ROM drive and follow the steps displayed. Use any editor to read the README.TXT file for the latest product notes. Online help is available during the installation by clicking the **Help** button.
2. Click **Setup** to begin the installation of the Install Shield wizard. Once installed, the wizard guides you through the rest of the installation. Upon completion of the installation of the wizard, a Welcome to IBM Communications Server window appears. Click **Next** to continue.

Note: On Windows NT 4.0, the CD-ROM Installation Graphic Interface will automatically start. From the Installation window, select **Communications Server** icon and click **Install** to continue with installation.

3. Choose the drive and directory for the installation of Communications Server. The default is C:\IBMCS, which appears in the Destination Directory box. Click **Browse** to display the dialog box that allows you to change your drive or directory by typing in a new path name or choosing a directory from the provided list. Click **Next** to continue to the Select Program Folder window.
4. The Select Program Folder window shows which program folder contains the Communications Server icons. The IBM Communications Server folder is the default. To use a different folder, type the name of the desired folder in the entry box provided. When you select a new name, a new folder is created. You can also select a folder from the Existing Folders list. Click **Next** to continue.
5. The next window requests the name of one existing user ID to be initially added to the group; more user IDs can be added later using the Windows NT User Manager. This window is used to establish the IBMCSADMIN group, which allows users to be authorized to remotely configure and administer Communications Server.

The next window requests the number of user licenses purchased for this installation. Enter the number purchased and click **Next** to continue.

6. The Start Copying Files window shows your current settings for the installation of Communications Server. To change a setting, click **Back** to go backward through the previously mentioned installation screens and make the necessary changes.

7. Click **Next** to begin copying the Communications Server files to your system. Once the horizontal Progress Bar appears on the screen to indicate copying has started, do not stop the installation.

During the copying procedure, there are vertical Progress Bars at the left of the window that enable you to watch the installation's progress. The Progress Bar on the far left monitors how much data remains in each file as it is being transferred. The Progress Bar in the middle shows the percentage of the installation files that have been copied. The Progress Bar on the right shows how much disk space remains for you to use during the installation.

8. Once all product files have been copied, the Installing NT Services window appears.

9. At the end of the installation, a dialog box is displayed enabling you to install the IEEE 802.2 interface for the local area network (LAN) using the IBM LLC2 protocol interface. If you know that you will use Communications Server over a LAN adapter or if you are not sure, choose **Yes**. If you know that you will not use Communications Server over a LAN adapter, choose **No**.

If you select **Yes** to install the IBM LLC2 protocol, the install program launches a network control window with instructions for configuring IBM LLC2 to operate over your LAN adapters.

10. Once you have completed the installation, you will be prompted to shut down and restart your computer.

Installing Host On-Demand

Once you have installed Communications Server for Windows NT, you can optionally install IBM eNetwork Host On-Demand, Version 1.0, if you want to access host data through a Java™-enabled Web browser.

To install Host On-Demand, do the following:

1. From the Communications Server for Windows NT Installation window, double-click the **Host On-Demand** icon to display a welcome message on the first installation window. Click **Next** to continue with the installation.
2. Specify the directory where you want the Host On-Demand files extracted. The default directory is <**CSNT install directory**> (where **CSNT** represents Communications Server NT), but you can specify the directory of your choice. Click **Next** to continue.
3. The next installation window provides the program group into which Host On-Demand icons are to be placed. By default, the choice is the IBM Communications Server program group. Click **Next** to continue.
4. The Host On-Demand installation window is displayed to confirm the choices you have made. Click **Next** to begin the file extraction.

At the end of installation, you will be prompted for the method to use when configuring any Web servers on the system. Choose the method and click **OK**. A Web server must exist on this system and be properly configured to use this function.

Installing Web-based server administration

Once you have installed Communications Server for Windows NT, you can optionally install Web-based server administration if you want to manage your Communications Server over the Web. From your Web browser, you can start, stop, and monitor your network resources.

To install Web-based server administration, do the following:

1. From the Communications Server for Windows NT Installation window, double-click the **Web Administration** icon to display a welcome message on the first installation window. Click **Next** to continue with the installation.
2. Specify the directory where you want the Web-based server administration files extracted. The default directory is <**CSNT install directory**> (where **CSNT** represents Communications Server for Windows NT), but you can specify the directory of your choice. Click **Next** to continue.

3. The next installation window provides the program group into which Web-based Server Administration icons are to be placed. By default, the choice is the IBM Communications Server program group. Click **Next** to continue.
4. The Web-based Server Administration Installation window is displayed to confirm the choices you have made. Click **Next** to begin the file extraction.

At the end of installation, you will be prompted for the method to use when configuring any Web servers on the system. Choose the method and click **OK**. A Web server must exist on this system and be properly configured to use this function.

Uninstalling Communications Server for Windows NT

To uninstall Communications Server, do the following:

1. For Windows NT 3.5.1, click the **Uninstall** icon from the IBM Communications Server folder and follow the procedures provided.
2. For Windows NT 4.0, click the **Control Panel** icon. Click the **Add/Remove Programs** icon. In the list box provided, click your folder name, and then click the **Remove** button.
3. If you have the IBM LLC2 protocol interface installed, Help panel helps you uninstall the LLC2 protocol.
4. Shut down and restart your computer.

Accessing and installing the SNA API clients

Once you have installed Communications Server for Windows NT, you will be able to access the SNA API clients that work with the server. The SNA API clients are for the following operating systems:

- OS/2
- Windows 3.x
- Windows 95
- Windows NT

The client installation packages are located in the following directories under your Communications Server installation directory:

- Clients\WinNT
- Clients\Win95
- Clients\Win31
- Clients\OS2

To install a package on a client, the client must have access to the information in these directories (for instance, using net use, FTP, or diskette transfer).

Change to the appropriate drive; and, at the command prompt, type **install** to access the OS/2 client and **setup** to access all of the other clients.

Alternatively, install the SNA API clients directly from the CD-ROM to a client machine instead of from a server. Follow the steps provided on the Communications Server CD-ROM.

Accessing the remote administration clients

Remote administration and configuration clients (for Windows NT) can remotely administer and configure the server. To access the remote administration and configuration clients, specify the following path:

Drive letter: \IBMCS\clients\admin

Note: Do not put the remote administration and configuration clients on the same machine as your server because they are already available on that machine.