
Netfinity Manager

Netfinity Manager provides powerful hardware systems-management capabilities, including access to all systems on the network that are running Netfinity Manager or Client Services for Netfinity Manager. In addition to all standard Client Services for Netfinity Manager functions, Netfinity Manager also features directory transfers and file, remote screen captures, and remote command-line sessions. Netfinity Manager also enables you to export data collected by System Information Tool, System Profile, Software Inventory, and System Monitor to a DB2, Lotus Notes, or SQL or DB2 via an open database connectivity (ODBC) database (ODBC export is available on Windows NT systems only). Finally, Netfinity Manager enables you to start services at scheduled times and dates for simplified, automated systems management.

Netfinity Manager also provides two powerful features that enable you to access the Netfinity Manager system and all Netfinity Manager systems from a system that is not attached to the managing system network:

- **Serial Connection Control**

Use the Serial Connection Control service to use a Netfinity Manager system modem to establish a connection with any Netfinity Manager system that has a modem. Once this connection is established, the Netfinity Manager has full access to Netfinity Manager services, just as though the remote system were part of the managing system network.

- **Netfinity Manager for Web**

Netfinity Manager for Web enables access and remote control of the Netfinity Manager system over the Internet, using any system that has an Internet connection and a World Wide Web (WWW) browser. With the Netfinity Manager for Web, you can access your Netfinity Manager systems from anywhere in the world.

Managing your IBM Netfinity server with Netfinity Manager

The copy of Netfinity Manager that is included with ServerGuide entitles you to one Netfinity Manager installation. You are also entitled to additional installations of Client Services for Netfinity Manager. To use Netfinity Manager to monitor and manage this Netfinity server, install Netfinity Manager on a system in your network that you will use as a system-management console, and then install Client Services for Netfinity Manager on your Netfinity server. You can also install additional copies of Client Services for Netfinity Manager on other systems in your network. Furthermore, additional Netfinity Manager and Client Services for Netfinity Manager licenses are available for purchase from your IBM representative.

Note: This section provides installation instructions for all operating systems supported by Netfinity Manager. However, not all operating systems described in this section are certified for use with all Netfinity server models. For a list of supported operating system for you Netfinity server model, see the Server Proven list at

<http://www.ibm.com.pc/compat>

Netfinity Manager documentation

The Netfinity directory on the *ServerGuide Netfinity Applications* CD contains online versions (*.PDF format) of all Netfinity Manager documentation. For more information on included documentation, see “Getting more information about Netfinity Manager” on page 27.

Netfinity Manager system requirements

The minimum system requirements for Netfinity Manager vary based on which supported operating system is running on your system.

- If you are installing Netfinity Manager for OS/2, see “Netfinity Manager for OS/2 system requirements”.
- If you are installing Netfinity Manager for Windows 95 (or Windows 98), see “Netfinity Manager for Windows 95 and Windows 98 system requirements” on page 3.
- If you are installing Netfinity Manager for Windows NT, see “Netfinity Manager for Windows NT system requirements” on page 3.

Netfinity Manager for OS/2 system requirements

The minimum system requirements for Netfinity Manager for OS/2 are:

- OS/2 version 3.0 or later
- Approximately 19 MB–22 MB of hard disk space (space required depends on system configuration)
- A LAN adapter card and one or more of the following communications protocols:
 - IBM TCP/IP for OS/2 version 1.2 or later (required for Netfinity Manager with Web Enhancement)
 - NetBIOS
 - Note:** The Netfinity Manager NetBIOS requirements are three names, two sessions, and nine network control blocks (NCBs).
 - IPX
 - SNA (IBM Communications Manager/2 version 1.1 only)
 - Note:** Systems using Netfinity Manager with Microsoft SNA Server cannot communicate with systems that run the Microsoft SNA Server client. Netfinity Manager supports only server-to-server communications between systems that run Microsoft SNA Server software. However, Netfinity Manager systems running Microsoft SNA Server can communicate with other Netfinity Manager systems using any of the other supported SNA stacks.
- A 9600 baud or greater modem (optional).

The hard disk requirement for Client Services for Netfinity Manager is 6.5 MB–9 MB of hard disk space. All other system requirements are the same as for Netfinity Manager for OS/2.

Note: Serial Connection Control will not function on systems that do not have a properly installed and configured modem.

Netfinity Manager for Windows 95 and Windows 98 system requirements

The minimum system requirements for Netfinity Manager for Windows 95 are:

- Microsoft Windows 95 or later
- Approximately 17 MB–20 MB of hard disk space (space required depends on system configuration)
- A LAN adapter card and one or more of the following communications protocols:
 - TCP/IP (must be WinSock Version 1.1-compatible; required for Netfinity Manager with Web Enhancement)
 - NetBIOS
 - Note:** The Netfinity Manager NetBIOS requirements are three names, two sessions, and nine network control blocks (NCBs).
 - IPX
 - SNA (PCOMM 4.1 or later SNA stack)
 - Note:** Systems using Netfinity Manager with Microsoft SNA Server cannot communicate with systems that run the Microsoft SNA Server client. Netfinity Manager supports only server-to-server communications between systems that run Microsoft SNA Server software. However, Netfinity Manager systems running Microsoft SNA Server can communicate with other Netfinity Manager systems using any of the other supported SNA stacks.
- A 9600 baud or greater modem (optional).

The hard disk requirement for Client Services for Netfinity Manager is 6.5 MB–9 MB of hard disk space. All other system requirements are the same as for Netfinity Manager for Windows NT.

Note: Serial Connection Control will not function on systems that do not have a properly installed and configured modem.

Netfinity Manager for Windows NT system requirements

The minimum system requirements for Netfinity Manager for Windows NT are:

- Microsoft Windows NT version 4.0 or later
- Approximately 17 MB–20 MB of hard disk space (space required depends on system configuration)
- A LAN adapter card and one or more of the following communications protocols:
 - TCP/IP (must be WinSock Version 1.1-compatible; required for Netfinity Manager with Web Enhancement)
 - NetBIOS
 - Note:** The Netfinity Manager NetBIOS requirements are three names, two sessions, and nine network control blocks (NCBs).
 - IPX
 - SNA (Microsoft SNA Server version 2.11 with Service Pack 1 and WCPIC32.DLL dated 01/22/97 or later. This DLL is available from Microsoft)

Note: Systems using Netfinity Manager with Microsoft SNA Server cannot communicate with systems that run the Microsoft SNA Server client. Netfinity Manager supports only server-to-server communications between systems that run Microsoft SNA Server software. However, Netfinity Manager systems running Microsoft SNA Server can communicate with other Netfinity Manager systems using any of the other supported SNA stacks.

- A 9600 baud or greater modem (optional).

The hard disk requirement for Client Services for Netfinity Manager is 6.5 MB–9 MB of hard disk space. All other system requirements are the same as for Netfinity Manager for Windows NT.

Notes:

1. Serial Connection Control will not function on systems that do not have a properly installed and configured modem.
2. To most effectively manage Windows NT systems, any user that will be using Netfinity Manager on a Windows NT system (locally or remotely) must have administrator-level access to the system.

Starting the Netfinity Manager installation program

For instructions on installing Client Services for Netfinity Manager, see the documentation listed in “Getting more information about Netfinity Manager” on page 27.

To start the Netfinity Manager installation program on a system that is running Windows NT 4.0:

1. Start the computer with your operating system.
2. Place the *ServerGuide Netfinity Applications* CD into the CD-ROM drive.
3. Follow the instructions for your operating system below:
 - OS/2 Warp Server
 - a. From a command prompt, type
`x:`
where *x* is the CD-ROM drive letter, and then press **Enter**.
 - b. Type
`SC0S2`
and then press **Enter**. The ServerGuide Netfinity Applications windows opens.
 - c. Select **IBM Netfinity Manager** from the Available Applications selection list.

Note: To install Client Services for Netfinity Manager, select **Client Services for Netfinity Manager** from the Available Applications list and then refer to the *Client Services for Netfinity Manager User's Guide* for additional installation instructions.
 - d. Click **Install Product** to start the installation process.
 - Windows 95, 98, or NT
 - a. Click the **Start** button.
 - b. Click **Run...** from the Start button menu.
 - c. Type

x:\SCW95

where *x* is the drive letter of the CD-ROM drive in the **Command Line** field and then click **OK**. The ServerGuide Netfinity Applications windows opens.

- d. Select **IBM Netfinity Manager** from the Available Applications selection list.

Note: To install Client Services for Netfinity Manager, select **Client Services for Netfinity Manager** from the Available Applications list and then refer to the *Client Services for Netfinity Manager User's Guide* for additional installation instructions.

- e. Click **Install Product** to start the installation process.

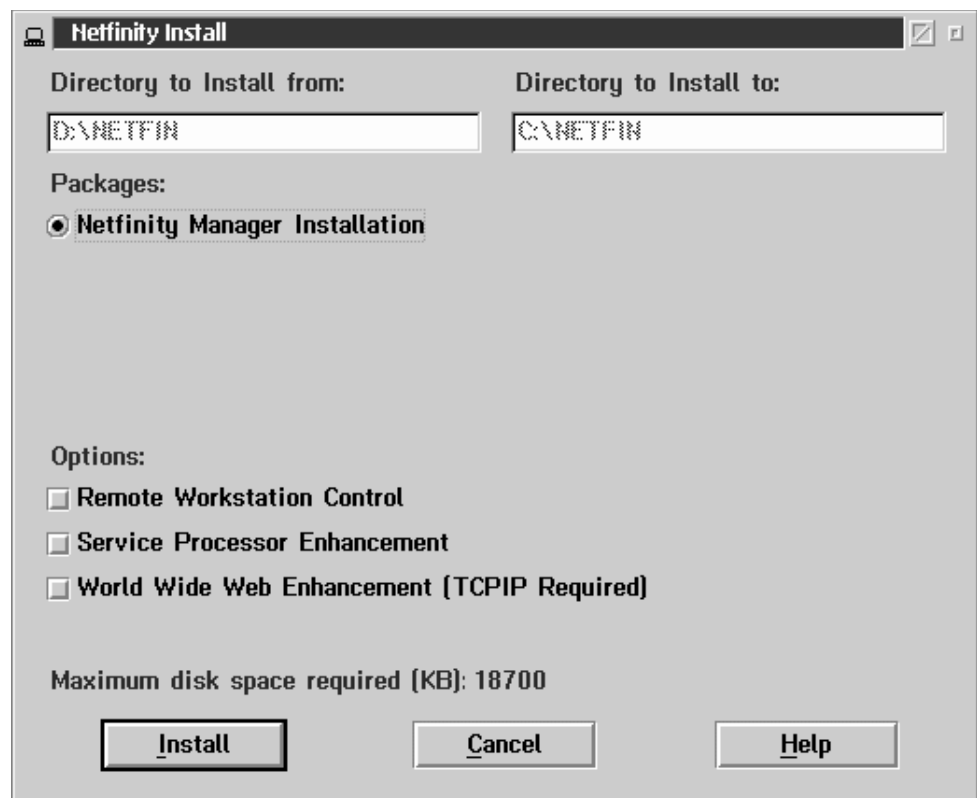
4. Choose a drive and directory from which the Netfinity Manager program files will be copied.

Type in the **Directory to Install from** field the drive and directory name where the Netfinity Manager program files are located. The default is the drive and directory from which the Netfinity Manager installation program was started.

5. Type in the **Directory to Install to** field the drive and directory in which to install the Netfinity Manager files.

Enter the drive and directory name to which the Netfinity Manager program files will be copied. The default is **C:\NETFIN** (on systems running OS/2) or **C:\WNETFIN** (on systems running Windows 95 or Windows NT).

6. Click **OK** to save these settings and open the Netfinity Manager Installation Program window.



7. Select installation options.

There is only one installation configuration for Netfinity Manager. However, the Netfinity Manager program offers several installation options. Each option enables additional specialized feature of this product.

The available installation options are:

- **Advanced System Management Support**
Click **Advanced System Management Support** to install the Advanced System Management service on this system. Use this service to monitor and manage IBM Advanced System Management processors and adapters.
Important: If you install Advanced System Management support an enhanced version of the Serial Connection Control service, named Dynamic Connection Manager, will be installed instead of Serial Connection Control. For more information on Advanced System Management and the Dynamic Connection Manager service see the *Advanced System Management Information* section of this server library.
- **Capacity Manager**
Click **Capacity Management** to install the Capacity Management service on this system. Capacity Management is a resource management and planning tool that is designed to enable network managers and administrators to remotely monitor server performance.
- **Remote Workstation Control**
Click **Remote Workstation Control** to enable the Remote Workstation Control service on this system. Use Remote Workstation Control to monitor or control the screen display of remote systems that are running Netfinity Manager or Client Services for Netfinity Manager.
- **Update Connector Manager (NT 4.0, TCP/IP, and Web Browser Required)**
Click **Update Connector Manager (NT 4.0, TCP/IP, and Web Browser Required)** if Netfinity Manager is being installed on a system that will be used to manage system updates on client systems using updates that are available from the IBM selection server.
- **World Wide Web Enhancement (TCP/IP Required)**
Click **World Wide Web Enhancement (TCP/IP Required)** if the Netfinity Manager is being installed on a system that will be used to manage other Netfinity Manager systems, and can be accessed and controlled remotely over the Internet using a World Wide Web browser.

8. Install Netfinity Manager.

Click **Install** to continue. The installation program copies all program files that are required by the installation configuration. A window appears, displaying the name of the file that is currently being copied.

Note: Click **Cancel** to stop the installation process.

Network communication drivers and the following Netfinity Manager services are installed:

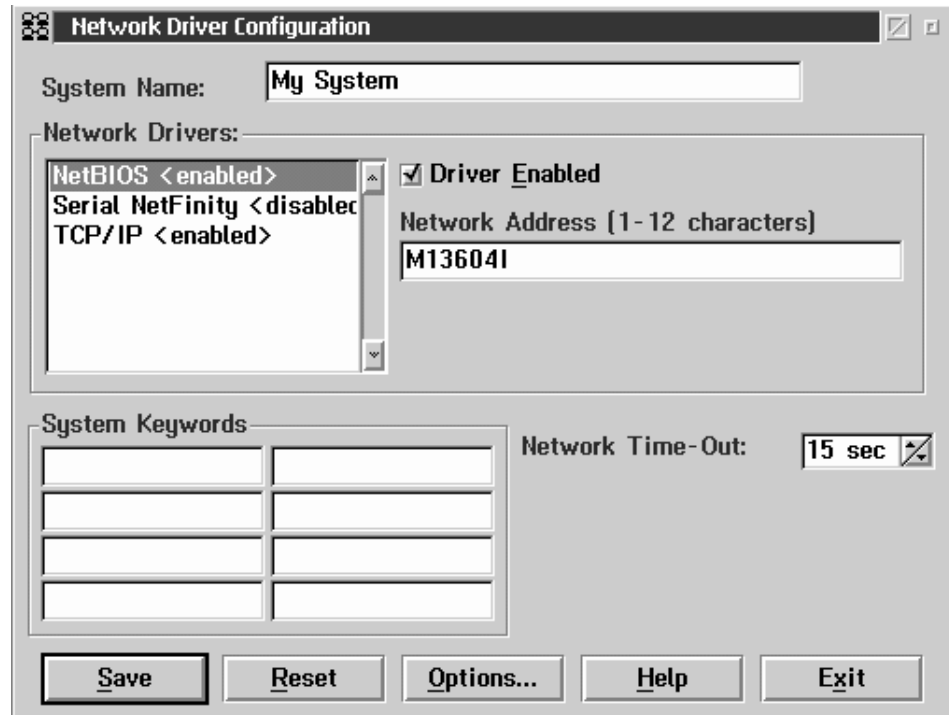
- Alert Manager
- Alert on LAN® Configuration (available only on systems running Windows 95 or later or Windows NT 4.0 or later)
- Capacity Management (available only on systems running Windows NT 4.0 or later)
- Cluster Manager (available only on systems running Windows NT 4.0 or later)
- Critical File Monitor
- DMI Browser (requires DMI Service Layer)
- ECC Memory Setup (requires ECC memory)
- Event Scheduler

- File Transfer
- Power On Error Detect
- Predictive Failure Analysis® (requires PFA-enabled hard disk drive)
- Process Manager
- RAID Manager (requires RAID adapter)
- Remote Session
- Remote System Manager
- Remote Workstation Control
- Screen View
- Security Manager
- Serial Connection Control
- Service Configuration Manager
- Service Processor Manager
- Service Manager
- Software Inventory
- System Diagnostics Manager
- System Information Tool
- System Monitor
- System Partition Access (requires System Partition)
- Update Connector Manager (available only on systems running Windows NT 4.0 or later)
- System Profile
- Web Manager Configuration (installed only if the Netfinity Manager Installation with Web Enhancement installation configuration is selected)

Note: The graphical user interface (GUI) program files for DMI Browser, ECC Memory Setup, System Partition Access, RAID Manager, and Predictive Failure Analysis will be installed regardless of whether the system has a DMI Service Layer, ECC Memory, a System Partition, a RAID adapter, or a PFA-enabled disk drive. This enables a network administrator to remotely access these services on other systems within a network. However, the installation program installs the base program that enables local use of the service only if the required hardware or system configuration is present.

9. Configure the Network Drivers.

If the installation configuration allows for network access, enter information regarding the communication protocols that are supported by the system. The Network Driver Configuration window will appear.



Follow these steps to continue configuring the system:

- a. Enter a System Name.

Enter a name for the system in the **System Name** field. This name will help other Netfinity Manager users identify the system on the network.

- b. Select a Network Driver.

Select one of the available Network Drivers that are displayed in the **Network Drivers** field. Once selected, the Network Driver will assign a network address to the system.

Notes:

- (1) The fields that appear beneath the **Driver Enabled** check box will change depending on which Network Driver you select.
- (2) When enabling the IPX or TCP/IP Network Driver, the network address cannot be altered, and it will not appear on the screen. No field will appear beneath the **Driver Enabled** check box if you select the IPX or TCP/IP Network Driver.
- (3) When enabling the NetBIOS Network Driver, a network address will be selected and displayed in the **Network Address** field. To change this default name, enter any 1–8 character address. However, this address *must* be unique to the system. If this NetBIOS address is identical to the NetBIOS address of another system on the network, it will prevent Netfinity Manager from starting properly.
- (4) When enabling the Serial Netfinity Manager driver, type a name that will be used to identify the system in the **Unique Machine Dialup Name** field. This name can be up to 32 characters long, and must be unique to the system. If this name is not unique, it can prevent remote Netfinity Manager users from using the Serial Connection Control service to access the system.

- c. Enable the Network Driver.

When you have entered all required information, click the **Driver Enabled** check box to activate the driver on startup. If the system supports multiple network interfaces, add additional network drivers by repeating steps b and c.

d. Identify the system with System Keywords (optional).

To make full use of the Remote System Manager's discovery process, identify the system (and each of the Netfinity Manager systems that are on the network) with descriptive system keywords. Enter these keywords in the appropriate **System Keywords** fields.

e. Select Netfinity Manager Options (optional)

Click on the **Options** button to open the Netfinity Manager Options window. The Netfinity Manager Options window contains special options that affect Netfinity Manager network operations. Available options include:

- Force Remote Logons

If the **Force Remote Logons** option is enabled, the system will not be able to save the User ID/Password combinations that were used when accessing remote systems. This will force you to manually log on each time a remote stem is accessed. Service Execution Alerts

- Service Execution Alerts

If the **Service Execution Alerts** option is enabled, the Netfinity Manager Service Manager will generate a Netfinity Manager alert whenever one of *the user's* Netfinity Manager services is started by a remote user. The alert includes the name of the service that was run and information about the user that started the service.

- Show Network Support

If the **Show Network Support** option is enabled, the Netfinity Manager Support Program (or Network Interface) will be visible as a minimized process in the Windows NT 4.0 task bar. This enables the user to shut down the Netfinity Manager Support Program. If the Netfinity Manager Support Program is to remain invisible to the user, do not enable this option.

- Remote User Authorization for Screen Access

If the **Remote User Authorization for Screen Access** option is enabled, a remote user cannot use either Remote Workstation Control or Screen View on your system without your permission. When this option is enabled and a remote user attempts to use one of these services on your system, a window will pop up on your desktop alerting you that a remote user is attempting to use the Remote Workstation Control or Screen View service and asking whether you want to permit this user to use this service on your system. You can click **Yes** or **No**. If you do not make a selection within 15 seconds (for example, if you are not sitting at your system when the access attempt is made), Netfinity Manager will automatically prevent the remote user from using the service on your system.

- Disable DNS Name Resolution

If the **Disable DNS Name Resolution** option is enabled, Netfinity Manager will use only a numeric TCP/IP address (for example, 8.24.67.32) to communicate with remote systems and will not attempt to resolve the numeric address into an alphanumeric, Domain Name Server (DNS) address (for example, your.system.ibm.com). Select this option if you are using Netfinity Manager in a WINS networking environment or if you are using TCP/IP in an environment that does not have a Domain Name Server.

To enable one or more of the available Netfinity Manager Options:

- (1) Click **Options...**
- (2) Select one or more Netfinity Manager options.
- (3) Click **Save**.

f. Set the Network Time-out Value (optional).

The **Network Time-out** field shows the number of seconds that Netfinity Manager will attempt to communicate with a remote system that is not responding. If Netfinity Manager does not establish contact with the remote system within this time, it cancels the communication attempt. The Network Time-out default setting is 15 seconds. This default setting might not need to be altered.

g. Save the configuration and continue.

Click **Save** to save the configuration. Then, click **Exit** to continue.

Note: The configuration can be changed later by double-clicking the **Network Driver Configuration** object in the Netfinity Manager folder.

10. After finishing configuring the system for network access, the installation program displays a list of changes that must be made to the system configuration files, and asks whether the installation program should make the changes. For example, if you are installing Netfinity Manager for Windows 95, the installation program will display a list of changes that must be made to the CONFIG.SYS file.

Click either **Yes** or **No**.

Note: These changes must be made to the system configuration for Netfinity Manager to run correctly.

- If you click **Yes** the installation program automatically makes the necessary changes to the system configuration.
- If you click **No** the commands are saved to a file named CONFIG.NEW in the destination directory (and to AUTOEXEC.NEW, if appropriate) so that they can be added later.

11. The installation is now complete. Shut down and restart the system for the system configuration changes to take effect.

Netfinity Manager database support

Netfinity Manager supports the collection and export of a vast amount of system-specific data to a Netfinity Manager database.

Netfinity Manager databases can be created on database management systems using DB2®, Lotus Notes®, or Microsoft SQL. Microsoft SQL is supported through open database connectivity (ODBC), and is available on systems running Netfinity Manager for OS/2, Windows 95, or Windows NT. If the system supports ODBC, the user can access and export DB2 data through ODBC as well. Once support for one or more of these databases has been installed along with Netfinity Manager, data can be exported from these Netfinity Manager services:

- Alert Manager
- Software Inventory
- System Information Tool
- System Profile
- System Monitor

Information on how to install and configure support for database export follows.

- If support for DB2 database export is being installed, see “DB2 database support”.
- If support for Lotus Notes database export is being installed, see “Lotus Notes database support” on page 15.
- If support for ODBC database export is being installed, see “ODBC database support” on page 16.

DB2 database support

Support for DB2 database export is automatically configured during installation of the Netfinity Manager. However, the database system itself must be configured. Instructions for configuring the database follow.

A raw data dump to a file is also available and will run without a database.

System requirements

Netfinity Manager DB2 database export is supported on systems running Netfinity Manager for OS/2, Netfinity Manager for Windows 95, Netfinity Manager for Windows 98, and Netfinity Manager for Windows NT. For more information about supported version numbers refer to Table 1 on page 20.

Attention:

Using Netfinity Manager database support with systems running unsupported versions of DB2 or the DB2 Client might cause unpredictable results and might halt the system.

See the *DB2 Installation Guide* for general requirements and supported protocols.

Installing and configuring the database

The following information describes the steps to install and configure the DB2 database.

Note: If your primary system is OS/2, refer to “Installing the database on OS/2” on page 11.

1. Start a DB2 command window.

Note: If it is not already running, start the DB2 database manager.

2. Type the following command:

```
DB2 CREATE databasename ON d
```

where

- *databasename* is the name of the database
- *d* is the drive where the database is created

3. Press Enter.
4. Next, you must configure the tables for ODBC database support. For information on configuring the database for ODBC, refer to “ODBC database configuration” on page 17. For information on creating the tables, refer to “Creating the Netfinity Manager tables” on page 18.
5. Finally, you must bind the database. For information on binding the database, refer to “Activating the database”.

Installing the database on OS/2:

1. Insert the Netfinity Manager CD into the CD-ROM drive (in this example, drive D; individual drive letters might be different).
2. Start an OS/2 window or full-screen session.
3. Make the CD-ROM drive the active drive.
Type D: and then press Enter.
4. Type the following command at the OS/2 prompt:
NETFINDB CREATE /DBNAME=*dbname* /DRIVE=*d*
where *dbname* is the name of the database and *d* is the drive where the database will be located.
Note: If any part of the database already exists, the utility program will create only the portions of the database that are missing.
5. Press Enter.

Activating the database

The following information describes how to connect, bind, and grant privileges to the database.

1. Connecting to the Database
 - a. Start a DB2 command window.
 - b. Type the following command:
DB2 CONNECT TO *dbname*
where *dbname* is the name of the database as specified in the database installation step.
 - c. Press Enter.
2. Bind the package and the database
To prepare SQL statements stored in the bind file and store the package in the database, perform the following steps from a system on which Netfinity Manager for OS/2, Netfinity Manager for Windows 95, or Netfinity Manager for Windows NT has been installed:
 - a. Open a DB2 command window.
 - b. In the DB2 command window, type the following command:
DB2 BIND *x*:*directory*\DB2SQLC0.bnd
where *x*:*directory* is the name of the drive and directory where Netfinity Manager is installed.
 - c. Press Enter.

Granting and revoking database privileges

The following information describes how to grant and revoke database privileges.

Note: If your primary system is OS/2, refer to “Database privileges on OS/2 systems” on page 13.

1. Start a DB2 command window.
Notes:
 - a. If it is not already running, start the DB2 database manager.
 - b. If you are not connected to the DB2 Netfinity database, connect to the database now.
2. Type the following command:

```
DB2 GRANT privilegecode ON TABLE tablename TO userid
```

where

- *privilegecode* is one of the following privilege codes:
 - ALL
 - ALL PRIVILEGES
 - Note:** Grants all the appropriate privileges, except CONTROL, on the database.
 - ALTER
 - CONTROL
 - DELETE
 - INDEX
 - INSERT
 - REFERENCES
 - SELECT
 - UPDATE
- *tablename* is the name of the table as specified during database installation. A listing of the Netfinity database table names can be found in the *Netfinity User's Guide* (Appendix H: Netfinity Relational Database Tables).
 - Note:** The Netfinity Database Administration Tool can also be used to GRANT or REVOKE privileges.
- *userid* is the user ID to be granted access

3. Press Enter to execute the command.

To revoke privileges, substitute REVOKE for GRANT in the command line.

Database privileges on OS/2 systems:

1. Use the GRANT EXECUTE command to enable Netfinity Manager to access the database.

Type the following command at the OS/2 prompt:

```
DB2 GRANT EXECUTE ON PACKAGE NETFIN.DB2SQLCO TO PUBLIC
```

and then press Enter.

Note: Specify PUBLIC or authorize only specific manager systems. To limit access to the database, substitute the authorization name of the managing system for PUBLIC.

2. Use the CONNECT RESET command to disconnect current users from the database.

Type the following command at the OS/2 prompt:

```
DB2 CONNECT RESET
```

and then press Enter.

3. Use the NETFINDB GRANT command to grant (or revoke) database privileges.

To grant or revoke table privileges on OS/2:

- a. Insert the Netfinity Manager CD into the CD-ROM drive (in this example, drive D; individual drive letters might be different).
- b. Make the CD-ROM drive the active drive.
 - Type D: and then press Enter.
- c. Type the following command:

```
NETFINDB GRANT /ID=id PUBLIC /DBNAME=databasename /PRIV=privilegecode
```

where

- *id* is the user ID to be granted access

- *databasename* is the name of the database as specified during NETFINDB execution
- *privilegecode* is one of the following privilege codes:
 - ALL
 - ALTER
 - CONTROL
 - DELETE
 - INDEX
 - INSERT
 - REFERENCES
 - SELECT
 - UPDATE

d. Press Enter to execute the command.

Note: Use PUBLIC or authorize only a specific ID or group name. Netfinity Manager update programs use the DB2SQLC0 package and do not require specific table privileges.

To revoke privileges, substitute REVOKE for GRANT in the command line.

To configure Netfinity Manager to discontinue export data through ODBC for use on DB2, refer to “ODBC database support” on page 16.

Cataloging the database in the managing system: If the manager is using a remote database, catalog the node the database resides on and then catalog the database to that node.

Once this step has been completed, the name of the Netfinity Manager database will appear in the System Information Tools Database Selection window.

Deleting the database

The following information describes how to delete the database for all supported operating systems.

Note: If your operating system is OS/2, refer to “Deleting the database on OS/2”.

1. Start a DB2 command window.
2. Type

```
DB2 DROP DATABASE databasename
```

where

databasename is the name of the database as specified during the database installation.

3. Press Enter.

Deleting the database on OS/2: 1. Insert the *Netfinity Manager CD-ROM* into the database server CD-ROM drive (in this example, the CD-ROM drive is E).

2. Start an OS/2 window or full-screen session.
3. Make the CD-ROM drive the active drive.

Type E: and press Enter.

4. Type the following command at the OS/2 prompt:

```
NETFINDB DELETE /DBNAME=databasename
```

where *databasename* is the name of the database as specified during NETFINDB execution.

5. Press Enter.

To configure Netfinity Manager to discontinue export data through ODBC for use on DB2, refer to “ODBC database support” on page 16.

Lotus Notes database support

To enable the Netfinity Manager to export system data to a Lotus Notes database, the following must be done:

1. Install the Netfinity Manager database template on the Lotus Notes server.
2. Enable Netfinity Manager to export to the Lotus Notes server.

Instructions on installing the Lotus Notes database template and enabling the Netfinity Manager to export to the Lotus Notes database follow.

System requirements

The minimum requirements for Netfinity Manager to export data to a Lotus Notes database are:

- Lotus Notes
- Lotus Notes client

For information on what versions of Lotus Notes and the Lotus Notes client are supported, see Table 1 on page 20. See the *Notes Administrator's Guide* for general system requirements and supported communications protocols.

Installing the database

To enable Netfinity Manager to export system data to a Lotus Notes database, install the Netfinity Manager database template on the Lotus Notes server. During Netfinity Manager installation, a Lotus Notes database template file (named NETFINDB.NTF) was copied to the Netfinity Manager program directory. To install the database template on the Lotus Notes server:

1. Copy NETFINDB.NTF from the Netfinity program directory to the Notes data directory on the Lotus Notes server.
2. Start Lotus Notes on the server.
3. Click **New Database...** from the Notes File pull-down menu.
This opens the New Database window.
4. Click **Netfinity Database** from the Template selection list.
5. Check the **Inherit Future Design Changes** check box.

This enables future releases of Netfinity Manager to automatically apply changes to this Netfinity Manager database.

6. Click **Local** from the Servers selection list.

Note: When installing the database on a remote server, select the name of the remote server from the Servers list.

7. Type in the **Filename** field:

NETFINDB.NSF

8. Type in the **Title** field:

Netfinity Database

9. Click **New** to create the database and close the New Database window.
10. Double-click the Netfinity Database icon in the Lotus Notes workspace.
11. Click **Database** in the File pull-down menu.

12. Click **Access Control...** in the Database pull-down menu.
13. Set the Access Level for all Netfinity Manager systems that will be exporting data to this database to **Editor**.
14. Check the **Can Delete Documents** check box.
15. Click **OK**.

Once the Lotus Notes database is installed, enable Netfinity Manager systems to export to the Lotus Notes server.

- If the Netfinity Manager system is running Netfinity Manager for OS/2, ensure that the Lotus Notes directories are included in the CONFIG.SYS file LIBPATH, PATH, and DPATH statements. If the directories are not included in these statements, it is not possible to export to the Lotus Notes database.
- If the system is running Netfinity Manager for Windows NT, ensure that the Lotus Notes directory path is included in the Global Windows NT environment settings.
- If the system is running Netfinity Manager for Windows 95, ensure that the Lotus Notes directories are included in the AUTOEXEC.BAT file PATH statement. If the directories are not included in this statement, it is not possible to export to the Lotus Notes database.

Once these steps have been completed, export system information from Netfinity Manager to an easy-to-browse Lotus Notes database.

Browsing the Netfinity Manager Lotus Notes database

To browse the data contained in the Netfinity Manager Lotus Notes database:

1. Open the Netfinity Database object in the Lotus Notes Workspace.
2. Select from the View pull-down menu the section of the Netfinity Manager database to be browsed.

The Netfinity Manager database is divided into sections that contain data gathered by specific Netfinity Manager services. Click the name of the service that gathers the data to be viewed (for example, **Alert Logs**).

Note: Some menu selections will contain submenus.

3. Information contained in the part of the Netfinity Manager database that has been selected is now listed in the window. For more detailed information about any displayed data item, double-click the data item.
4. Some data items can be expanded to reveal additional information. These items are identified by a plus sign (+) in the left side border of the Notes window, beside the name of the data item. To expand the data item, select the item and then click **Expand** in the View pull-down menu.

ODBC database support

Netfinity Manager supports exporting data via ODBC for use on SQL or DB2 database systems.

Note: ODBC database export is available only on systems that are running Netfinity Manager.

System requirements

The minimum requirements for Netfinity Manager ODBC database export are:

- Windows NT

- ODBC
- ODBC support for one or more of the following database management systems (DBMS):
 - IBM DB2
 - Microsoft SQL Server
- Windows 95, with:
 - ODBC
 - ODBC support for one or more of the following database management systems:
 - IBM DB2
 - Microsoft SQL Server
- OS/2
 - Microsoft SQL Server (using the Visigenic driver provided with Microsoft SQL Server)
 - or*
 - IBM DB2

For detailed information about supported ODBC platforms, see Table 1 on page 20.

Note: The ODBC database name must not be longer than 8 characters.

ODBC database configuration

This section describes the procedures you must complete before Netfinity Manager can create the Netfinity Database Tables using ODBC.

1. Define the NETFIN ID so the Netfinity Database Administration can create the Netfinity Database tables with a table qualifier of NETFIN.

Attention: NETFIN is a restricted user ID. The password is not retained by Netfinity Database Administration after use. Do not use this ID for exports.

Notes:

- a. In OS/2 and Windows 95, NETFIN must either be the owner of the database or must be given administrator authority.
- b. In Windows NT, when exporting to DB2, NETFIN must either be the owner of the database or be defined as a system administrator through the NT User Manager for Domains or the NT User Manager.
 - In Windows NT, when exporting to MS SQL, NETFIN must be the owner of the database or be given table create rights.
2. Create the database with the appropriate relationship with the NETFIN ID.
3. Make a database ODBC source either using the ODBC tools shipped with the operating system or the database.
4. On Windows NT, configure the Netfinity Support Program to export data using the ODBC database.
 - a. Open **Services** from the Control Panel.
 - b. Click **Netfinity Support Program** from the **Services** field, then click **Startup**.
 - c. Click **Automatic** in the Startup Type button group.
 - d. Click **This Account** in the **Log On As** field group. Enter in the **This Account** field the user name of the account that made this database an ODBC source.
 - e. Click **OK**.

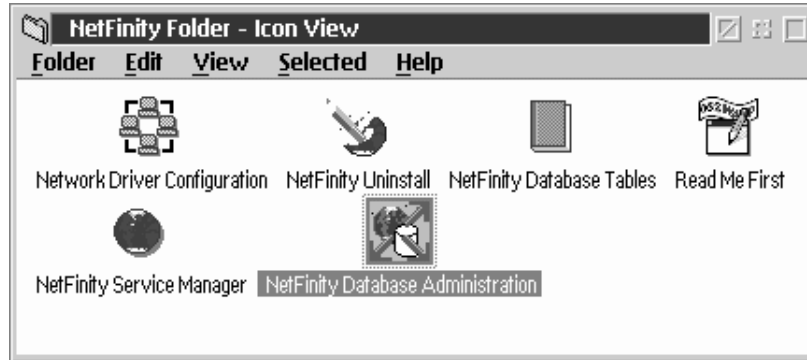
Note: If the Event Scheduler or Alert Manager will be used to export data using ODBC, continue to have the ID which made the database an ODBC source logged on during the time Event Scheduler will be exporting data.

Creating the Netfinity Manager tables

To create the tables needed to enable Netfinity Manager to export data:

1. Open the Netfinity Manager Database Administration service.

The Netfinity Manager Database Administration service is found in the Netfinity Manager folder or Netfinity Manager program group. Double-click this icon to open the Netfinity Manager Database Administration window.



2. Select a DBMS.

Click in the **Select DBMS** listing the name of the DBMS which Netfinity Manager will be using to export data.



3. To create the Netfinity Manager table groups within the database, click **Create** and then click **OK** to open the Database Server window.

The following table actions are also available:

- Delete

To remove the Netfinity Manager table groups from the database, click **Delete** and then click **OK** to open the Database Server window.

- Grant

Permits access to a database for a specified user ID. To grant access:

- a. Click **Grant**.

- b. In the **User ID** field type the user ID that will be permitted to access the database.

- c. Select privileges for this ID.

All privileges (Insert, Delete, Select, and Update) are selected by default. A user ID must have all of these privileges to export data to the database.

- d. Click **OK** to open the Database Server window.

- Revoke

Disables access to a database for a specified user ID. To revoke access:

- a. Click **Revoke**.

- b. In the **User ID** field type the user ID that will have access to the database revoked.

- c. Deselect privileges to be revoked for this ID.

All privileges (Insert, Delete, Select, and Update) are selected by default. A user ID must have all of these privileges to export data to the database. Some or all of these privileges can be revoked.

- d. Click **OK** to open the Database Server window.

4. Select the database within which the table groups will be created.

5. Click **OK**.

The Netfinity Manager Database Access window opens.

6. Type in the **User ID** field

`netfin`

netfin is the qualifier name of the Netfinity Manager database.

7. In the **Password** field type the password that enables access to the Netfinity Manager database.

8. Click **OK**.

As the information is processed, a Creating tables status message should be displayed. When the operation completes, a Requested Action Completed message should be displayed.

Supported and certified databases

The following table shows databases and operating systems that are certified for use with this release of Netfinity Manager.

Table 1. Supported Netfinity Databases. Reference by operating system and database client version.

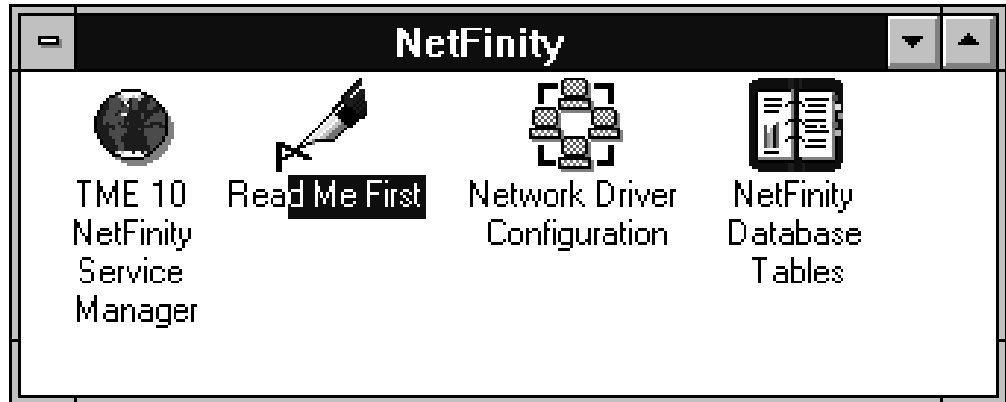
| Product | Windows 95 | Windows NT 3.51 | Windows NT 4.0 | OS/2 Warp Connect | OS/2 Warp 4.0 |
|--|--------------------------------------|--------------------------------------|--------------------------------------|------------------------------------|-----------------|
| IBM DB2 Version 2.1.2 | Yes | Yes | Yes | Yes | Yes |
| IBM DB2 Universal Database 5.0 | Yes | Yes | Yes | Yes | Yes |
| ODBC - IBM DB2 Version 2.1.2 | Yes, DB2 Driver | Yes, DB2 Driver | Yes, DB2 Driver | Yes, DB2 Driver | Yes, DB2 Driver |
| ODBC - IBM DB2 Universal Database 5.0 | Yes, DB2 Driver | Yes, DB2 Driver | Yes, DB2 Driver | Yes, DB2 Driver | Yes, DB2 Driver |
| ODBC - Microsoft SQL Version 7.0 | Yes, Microsoft SQL Driver | Yes, Microsoft SQL Driver | Yes, Microsoft SQL Driver | Yes, Visigenic Driver Version 1.10 | No |
| ODBC - Microsoft SQL Version 6.5 | Yes, Microsoft SQL Driver | Yes, Microsoft SQL Driver | Yes, Microsoft SQL Driver | No | No |
| Lotus Notes Version 4.5.2 | Yes | Yes | Yes | Yes | Yes |
| Lotus Notes Version 4.5.3a | Yes | Yes | Yes | Yes | Yes |
| Lotus Notes Version 4.6 | Yes | No | Yes | No | No |
| Lotus Notes Version 4.6a | Yes | No | Yes | No | No |
| Lotus Notes Version 4.63 | Yes | No | Yes | No | No |
| Oracle Version 7.3 | Yes, Oracle Driver Version 2.0.3.1.1 | Yes, Oracle Driver Version 2.0.3.1.1 | Yes, Oracle Driver Version 2.0.3.1.1 | No | No |
| Oracle Version 8.0 | Yes, Oracle Driver Version 8.0.3.0.0 | No | Yes, Oracle Driver Version 8.0.3.0.0 | No | No |
| Sybase SQL Version 11.0 | Yes, Sybase Driver Version 10.0.3T4 | Yes, Sybase Driver Version 10.0.3T4 | Yes, Sybase Driver Version 10.0.3T4 | No | No |
| Note: The above applies to Netfinity Manager Release 5.2.0 and later. | | | | | |

Starting Netfinity Manager

To start Netfinity Manager:

1. Open the Netfinity Manager folder or program group.

During installation of Netfinity Manager, a Netfinity Manager folder (OS/2, Windows 95, or Windows NT 4.0 only) or a Netfinity Manager program group (Windows NT 3.51 only) was added to the Desktop. The Netfinity Manager folder or program group contains the Netfinity Manager Service Manager object.



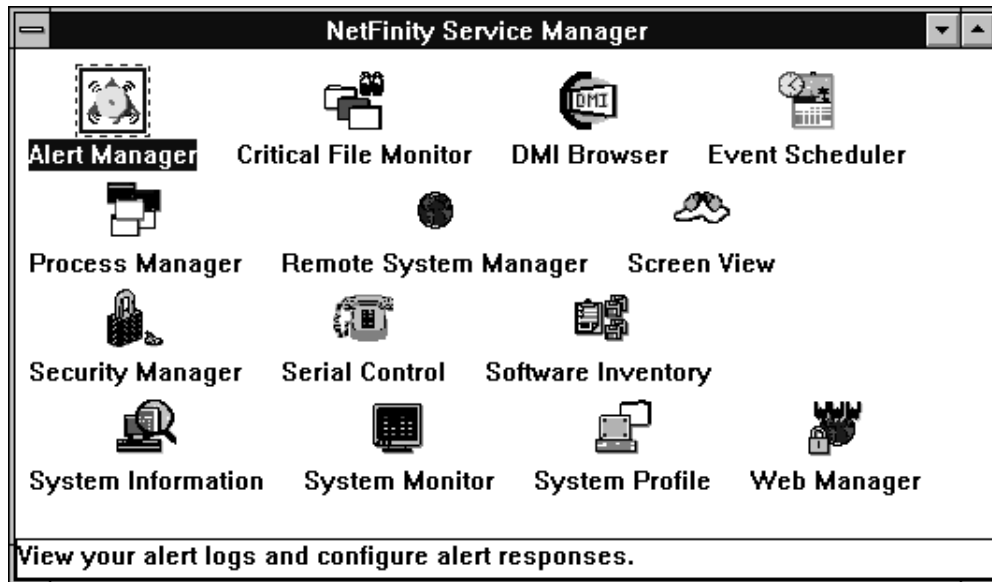
Notes:

- a. In your Netfinity Manager folder or program group is a document titled *Read Me First*, which contains information about Netfinity Manager that might not be covered in your documentation.
 - b. The Netfinity Manager folder also contains the Network Driver Configuration object, which you can use to reconfigure your network protocols and system keywords, and the Netfinity Manager Database Tables object, which contains a handy online reference for all of the data tables in the Netfinity Manager database. For more information on Netfinity Manager database support see "Netfinity Manager database support" on page 10.
 - c. The Netfinity Manager folder also contains a Netfinity Database Administration object. You can use Netfinity Database Administration to configure Netfinity Manager database support. For more information on Database Administration, see "ODBC Database Support" in *Netfinity Manager Quick Beginnings*.
2. Start the Netfinity Service Manager.

To start the Netfinity Service Manager, double-click the Netfinity Service Manager object.

Netfinity Manager Service Manager

All Netfinity Manager services that are supported by the operating system can be started from the Netfinity Manager Service Manager window. The services that are available for use depend on the installation configuration that was selected during installation.



To start any Netfinity Manager service that appears in the Service Manager window, double-click the icon for that service. To start a Netfinity Manager service on a remote system, use the Remote System Manager service.

Netfinity Manager service descriptions

Each Netfinity Manager service consists of a base program and a graphical user interface (GUI). The service base programs enable Netfinity Manager to remotely access the individual services, but do not allow for local access. The service GUIs, when functioning along with their respective base program, enable access to the service.

Some services are available only on systems with certain system configurations. These services are:

- Alert on LAN Configuration (available only on systems running Windows 95 or later or Windows NT 4.0 or later)
- Capacity Management (available only on systems running Windows NT 4.0 or later)
- Cluster Manager (available only on systems running Windows NT 4.0 or later)
- DMI Browser (requires DMI Service Layer)
- ECC Memory Setup (requires ECC memory)
- Predictive Failure Analysis (requires a PFA-enabled hard disk drive)
- RAID Manager (requires a RAID hard disk drive subsystem)
- System Partition Access (requires a built-in System Partition)
- Update Connector Manager (available only on systems running Windows NT 4.0 or later)

Brief descriptions of each of the Netfinity Manager services follow. Complete instructions on how to use each of these services can be found in the service-specific chapters of the *Netfinity Manager User's Guide*.

Advanced System Management

The Advanced System Management service provides extensive functionality available for your IBM PC Server Advanced System Management Adapter, Netfinity Advanced System Management PCI Adapter, or Netfinity Advanced System Management Processor. With the Advanced System Management service, you can configure system management events (such as POST, loader, and operating system time-outs or critical temperature, voltage, and tamper alerts). If any of these events occurs, the Advanced System Management service can be configured to use a modem or your Netfinity Manager system to automatically forward a Netfinity alert to other Netfinity Manager systems or to a numeric or alphanumeric pager.

Alert Manager

The Alert Manager is an extendable facility that allows receiving and processing of application-generated alerts. A variety of actions can be taken in response to alerts, including logging alerts, notifying the user, forwarding the alert to another system, executing a program, playing a WAV file (available only on multimedia systems), generating an SNMP alert message, dialing out to a digital pager service (available only on systems that have a modem), or taking an application-defined action. Actions are user-definable, using a flexible action management interface.

Also, an extensive, detailed log is kept of all alerts received by the Alert Manager. Logged information includes date and time the alert was received, type and severity of the alert, the ID of the application that generated the alert, as well as any text that was generated and any action taken by the Alert Manager. Individual or multiple alerts can be selected from the log and printed for later reference, or deleted once problems are corrected. This service is available for stand-alone use and network use.

Alert on LAN configuration

Use the Alert on LAN configuration service to configure monitoring options of Alert on LAN-capable systems locally and remotely. Systems with Alert on LAN capability provide critical status information about system states. The data is reported by hardware or software (depending on whether the systems are currently powered on or not) using TCP/IP.

Capacity Management

Capacity Management is an easy-to-use resource management and planning tool for network managers and administrators, allowing you to remotely monitor the performance of servers on the network.

Cluster Manager

Cluster Manager is an application designed to enhance the cluster management capabilities of the Microsoft Cluster Server (MSCS) administration console, included with Microsoft Windows NT Version 4.0 Enterprise Edition. Cluster Manager builds on the power of MSCS, providing an integrated graphical interface that enables you to quickly and easily monitor and manage the clustered systems on your network. This service is available only on systems running Windows NT Workstation 4.0.

Critical File Monitor

Critical File Monitor can warn you whenever critical system files on the system are deleted or altered. Critical File Monitor makes it simple to generate Netfinity alerts when an important System File (such as the CONFIG.SYS file) changes date, time, size, or when it is deleted or created. Critical File Monitor can also be used to monitor any other files that reside on a Netfinity Manager system.

DMI Browser

DMI Browser enables you to examine information about the DMI-compliant hardware and software products installed in or attached to the system.

ECC Memory Setup

The ECC Memory Setup allows for monitoring of ECC memory single-bit errors, and can automatically "scrub," or correct, the ECC memory when errors are detected. Also, a running count of single-bit errors can be kept, and can set a single-bit error threshold that will cause a nonmaskable interrupt (NMI) if the ECC single-bit error threshold is exceeded. This service is available for both stand-alone and network use by any system that has ECC memory.

Event Scheduler

Use Event Scheduler to automate many Netfinity Manager services. With Event Scheduler, you can automatically gather and export System Information Tool, System Profile, and Software Inventory data, distribute or delete files, restart systems, execute commands, and access and manage System Partitions on all of the Netfinity Manager systems on the network. Scheduled events can be performed one time only, or can be performed according to a user-defined schedule.

File Transfer

Use the File Transfer service to easily send, receive, or delete files or entire directories to and from remote Netfinity Manager systems on the network.

Power-On Error Detect

The Power-On Error Detect service can warn you immediately when a remote Netfinity Manager system has start-up problems, enabling you to react quickly to problems and minimize downtime.

Predictive Failure Analysis

The Predictive Failure Analysis (PFA) service enables continual monitoring and managing of PFA-enabled hard disk drives. A PFA-enabled hard disk drive features hardware designed to help detect drive problems and predict drive failures before they occur, thus enabling you to avoid data loss and system downtime.

Process Manager

Use Process Manager to view detailed information about all processes that are currently active on any system. It is also possible to stop or start processes and generate Netfinity Manager alerts if a process starts, stops, or fails to start within a specified amount of time after system startup.

RAID Manager

The RAID Manager service can monitor, manage, and configure an assortment of Redundant Arrays of Independent Disk (RAID) adapters and arrays without requiring the RAID system to be taken offline to perform maintenance. Use the RAID Manager to gather data about the system RAID array and RAID adapter, rebuild failing drives, add (or remove) logical drives, perform data integrity tests, and many other RAID system tasks. This service is available for stand-alone use and network use by any system that has a supported RAID adapter.

Remote Session

Use Remote Session to establish a fully active command session with any remote Netfinity Manager system.

Remote System Manager

Use Remote System Manager to access and manage any Netfinity Manager service on any Netfinity Manager system in the network. The Netfinity Manager system on the network is organized into easy-to-manage logical groups that can be updated automatically using the auto-discovery feature.

Remote Workstation Control

Remote Workstation Control can monitor or control the screen display of a remote system that is running Netfinity Manager (or Client Services for Netfinity Manager). Once you initiate a Remote Workstation Control session with another Netfinity Manager system, you can passively monitor events that are occurring on the display of the remote system or actively control the remote system desktop. When you initiate an active Remote Workstation Control session, clicks and keystrokes that are entered on your system are automatically passed to the remote system. With Remote Workstation Control, you can remotely start programs, open and close windows, enter commands, and much more.

Screen View

The Screen View service takes a "snapshot" of the system graphic display or any remote system running Netfinity Manager or Client Services for Netfinity Manager and displays it on the screen. These snapshots can be saved as bitmaps and viewed later.

Security Manager

The Security Manager service can prevent unauthorized access to some or all of the Netfinity Manager services. It uses incoming user ID and password combinations, and is available for network use only.

Serial Connection Control

The Serial Connection Control service enables remote systems running Netfinity Manager to access the system through a phone line and modem. With the Serial Connection Control service, you do not have to be attached to a network to benefit from the outstanding remote system access, monitoring, and management capabilities of Netfinity Manager.

Note: The system *must* have a properly installed and configured modem that supports at least 9600 baud for the Serial Connection Control service to function.

Service Configuration Manager

Service Configuration Manager can save the configuration of a Netfinity Manager service from a selected system to a service configuration file (SCF). Once created, SCF files can be used by Event Scheduler to restore the configuration to the same system, or it can be used (in conjunction with Event Scheduler) to duplicate that configuration on other similar systems you choose.

Software Inventory

Software Inventory enables the user to create and manage software product dictionaries that can be used to easily maintain an inventory of all application programs installed on the system.

System Diagnostics Manager

System Diagnostics Manager enables you to initiate a variety of diagnostic tasks on systems that support ROM-based diagnostics. The results of all previously run diagnostic sessions are stored and can be examined using System Diagnostics Manager to help diagnose and resolve system problems.

System Information Tool

The System Information Tool enables quick and convenient access to detailed information on the hardware and software configurations of the system. System Information Tool gathers information about almost any computer; however, the most detail is provided when this service is used with IBM computers. This service is available for both stand-alone and network use.

System Monitor

The System Monitor provides a convenient method of charting and monitoring the activity of a number of components in a system, including processor usage, disk space used, and ECC memory errors. These convenient monitors are detachable and scalable, enabling only the monitors needed to remain available at all times. Use the System Monitor Threshold Manager to set threshold levels for any of the monitored components. When exceeded, these thresholds will generate user-configured alerts.

Data is continually collected from the time the system starts. A sophisticated data-handling technique is used to weigh the individual values, average concurrent samples, and post single values that accurately reflect long-term system activity. This technique allows system activity records to be maintained without creating enormous data files. This service is available for both stand-alone and network use.

System Partition Access

The System Partition Access allows for greatly simplified system partition file handling, both locally and remotely. Individual files and entire directories can be renamed or deleted from the system partition. Individual files can be renamed, deleted, or copied into the system partition. Also, the entire partition can be backed-up, restored, or deleted. This service is available for stand-alone use and network use by any system that has a System Partition.

System Profile

The System Profile provides a convenient notebook of pertinent data about a particular user or system. It features many predefined fields for extensive user-specific data, including name, address, office number and location, and phone number. System Profile also includes many predefined fields for system-specific data that might not be available to the System Information Tool, including model and serial numbers and date of purchase. Finally, there are many user-definable miscellaneous fields that can be used to hold any data the user or administrator requires.

Update Connector Manager

Use Update Connector Manager to quickly and easily gather information about various updates that are available for your client systems. Once available updates are

discovered, use Update Connector Manager to apply updates to your systems remotely. Updates can be applied to individual systems, or you can apply multiple updates to multiple systems, all from Netfinity Manager. You can also use Update Connector Manager to remove previously applied updates. Update Connector Manager also includes a scheduler that you can use to discover, apply, or remove updates automatically and periodically.

Web Manager Configuration

Use the Web Manager Configuration service to limit access to the Netfinity Manager for Web to user-specified TCP/IP host or ranges of TCP/IP host addresses. Enable or disable the Netfinity Manager for Web and specify the TCP/IP port number to which the Netfinity Manager Web server functions.

Delaying Netfinity Manager startup on OS/2 systems

In some cases, it might be necessary for you to delay the automatic startup of the Netfinity Manager Network Interface (NETFBASE.EXE) in order to allow other time-sensitive applications to start up correctly or to allow your system to fully configure itself prior to beginning network operations. NETFBASE.EXE includes a parameter (WAIT) that you can use to specify the number of seconds that NETFBASE.EXE will wait before starting.

During Netfinity Manager installation, the Netfinity Manager Network Interface object is placed in the Startup folder. To configure Netfinity Manager to wait a specified number of seconds before starting:

1. Shut down the Netfinity Manager Network Interface if it is running.
2. Open the Startup folder.
3. Using the right mouse button, click the **Netfinity Manager Network Interface** object. This will open the Netfinity Manager Network Interface context menu.
4. Click **Settings** to open the Netfinity Manager Network Interface **Settings** notebook.
5. In the **Parameters** field type

WAIT:x

where *x* is the number of seconds that you want the Netfinity Manager Network Interface to wait before starting.

6. Close the Netfinity Manager Network Interface **Settings** notebook.

With the WAIT parameter set to *x*, whenever you start your system, the Netfinity Manager Network Interface will wait *x* seconds before starting.

Note: This feature is available only on systems that are running OS/2.

Getting more information about Netfinity Manager

Complete information on how to use Netfinity Manager (as well as Client Services for Netfinity Manager) is included in Adobe Acrobat format on the Netfinity Manager CD.

The \DOCS subdirectory contains the following files:

| Filename | Document Title | Description |
|--------------|---|--|
| DOCSREAD.ME | DOCSREAD.ME | Text file that contains brief descriptions of each of the Adobe Acrobat-readable PDF file contained in this directory. |
| README.SCO | Client Services for Netfinity Manager for SCO UnixWare Read Me | Text file that contains installation and setup information for Client Services for Netfinity Manager for SCO UnixWare. |
| NFMGRQB.PDF | Netfinity Manager Quick Beginnings | Installation and setup information for Netfinity Manager. |
| NFMGRUG.PDF | Netfinity Manager User's Guide | Detailed information on how to use Netfinity Manager. |
| NFMGRCR.PDF | Netfinity Manager Command Reference | Detailed information on Netfinity Manager command line functions. |
| NFCSVCQB.PDF | Client Services for Netfinity Manager Quick Beginnings | Installation and setup information for Client Services for Netfinity Manager. |
| NFSVCUG.PDF | Client Services for Netfinity Manager User's Guide | Detailed information on how to use Client Services for Netfinity Manager. |
| NFSVCNW.PDF | Client Services for Netfinity Manager for NetWare User's Guide | Installation, setup, and usage information for Client Services for Netfinity Manager for NetWare. |
| ASMUPDT.PDF | Advanced System Management Information | Updated information on the Advanced System Management and Dynamic Connection Manager services. These services are included with this version of Netfinity Manager. |
| NFSCOBAS.PDF | Client Services for Netfinity Manager for SCO UnixWare User's Guide | Installation, setup, and usage information for Client Services for Netfinity Manager for SCO UnixWare. |

Installation options

This appendix describes methods for performing automated installations of Netfinity Manager and creating customized Netfinity Manager installations.

Automated installation

If the system has a CID-enabled (CID stands for customization, installation, and distribution) software distribution manager utility (such as LAN CID, included with IBM Network Transport Services/2), Netfinity Manager can be installed on systems within the network by using the Netfinity Manager installation program command line parameters and response file. First, a source directory must be created for the installation.

To create a source directory for a Client Services for Netfinity Manager installation:

1. Create a new directory on your system. This new directory will serve as a source directory for the program files.
2. Copy the files from the appropriate Client Services for Netfinity Manager directory location on the CD-ROM to source directory you created.

For example, when creating a source directory to distribute Netfinity Manager Services for OS/2, copy all of the files from the OS2/SERVICES directory into the created directory.

To create a source directory for a Netfinity Manager installation:

1. Create a new directory on your system. This new directory will serve as a source directory for the program files.

Important:

Be sure to copy the Client Services for Netfinity Manager source files before the copying the Netfinity Manager source files because the Netfinity Manager directory contains some files that will overwrite files from the Client Services for Netfinity Manager directory. Only Netfinity Manager installations can be done from this directory.

2. Copy the files from the appropriate Client Services for Netfinity Manager directories.

For example, when creating a source directory to distribute Netfinity Manager for OS/2, copy all of the files from the OS2/SERVICES directory into the source directory.

3. Copy the files from the appropriate Netfinity Manager directory.

For example, when creating a source directory to distribute Netfinity Manager for OS/2, copy all of the files from the OS2/MANAGER directory into the source directory.

After an installation source directory has been created, use a response file and the Netfinity Manager installation program command-line parameters. The Netfinity Manager installation program supports the following command-line parameters:

/R: *drive+path+filename*

Specifies the drive, path, and file name of the response file. See the NETFBASE.RSP file (located in the directory in which Netfinity Manager was installed) for an example of a response file with comments on the included parameters.

/S: *drive+path*

Specifies the drive and path to install *from*. This is the directory to which the files were copied.

/T: *drive*

Specifies the drive to install *to*. Default is the current startup drive.

/TU: *drive+path*

Specifies the drive and path of the CONFIG.SYS file to update. The default is to change the CONFIG.SYS in the root directory of the drive specified in the /T parameter (or the startup drive). This parameter is ignored if the *ChangeConfig* parameter in the response file is FALSE.

For example, the line:

```
NETFINST /R:NETFBASE.RSP /S:Y:\NETFIN  
/T:C /TU:D:\
```

will install Netfinity Manager, using the options in the response file NETFBASE.RSP, from the directory Y:\NETFIN, to drive C: (the directory to which the files are installed is taken from the response file), and will modify the CONFIG.SYS file in the D:\ directory.

Note: For information on how to use a CID-enabled software distribution manager, refer to the publications provided with the individual CID-enabled product.

Customized installation

For security reasons, not all users might need to have access to all services. User access can be restricted by creating a customized installation that will prevent some services from being installed.

To create a customized installation, the INSTALL.INI file must be edited. For example, when creating a customized Netfinity Manager for Windows 95 or NT installation, edit the INSTALL.INI file that is found on Netfinity Manager directory.

The INSTALL.INI file has three sections, separated by the line

```
[==]
```

The first section contains the installation configuration that can be selected during installation. There can be no more than eight choices. Each choice takes up two lines. The first line is the text that is displayed next to the installation configuration radio button. The second line is a list of the options in the third section that will be installed when this choice is selected for installation.

For example:

```
;IBM SysMgt Install Script, Version 2 (Do not remove this comment line)
Netfinity Manager Installation [Manager 16900]
  Advanced System Management Support [ServProc 450]
  Capacity Manager Enhancement [CapMgt 5600]
  Remote Workstation Control [RWC 2000]
  World Wide Web Enhancement (TCP/IP Required) [WebManager 3000] IsTcpi
[==]
Netfinity Manager CD for Windows 95/NT
[==]
NetFinity Admin
NULL Manager
  CL 0 1 NETFBASE.EXE
  CCL 0 1 NETDOM.INI
  CCL 0 1 NETNODES.INI
  CCL 0 1 INSTALL.BAT
  CCL 0 1 NETFINST.EXE
  CCL 0 1 INSTALL.INI
  CCL 0 1 WININST.HLP
  CL 0 1 APCKINST.DLL
;Screen Capture GUI
;NULL Manager
; CL 0 1 SAVEG.EXE
; CL 0 1 SAVEG.HLP
```

This INSTALL.INI will create a Netfinity Manager installation configuration that also installs Advanced System Management, Capacity Manager, Remote Workstation Control, and Netfinity Manager World Wide Web enhancement.

The second section contains the names of the CD that this installation script will use.

The third section contains the list of options that can be installed. These are the options that are selected by the choices in the first section. The options are consecutively numbered starting at 1, so any inserted options will change the number of all following options. Each option uses the following format:

Option Name

Dll-entrypoint

option file
option file
...
install command
install command
...

Option Name An identifying comment by the installation program. All options must have a different Option Name. This is used only for identification.

Dll-entrypoint

Used to determine whether an option is valid for a given target machine. In most cases, it should be the reserved string "NULL."

The easiest way to customize an installation is to simply put a semicolon in front of any service that you want to remove from the installation.

To add a line item in a specific section, add all the necessary item information in the format shown in the following example.

Before:

```
Screen Capture GUI
NULL Manager
  CL 0 1 SAVEG.EXE
  CL 0 1 SAVEG.HLP
```

After:

```
Screen Capture GUI
NULL Manager
  CL 0 1 SAVEG.EXE
  CL 0 1 SAVEG.HLP
  CL 0 1 CUSTOM.INI
```

