Client Services for Netfinity Manager

Quick Beginnings
Client Services for Netfinity Manager

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Note

Before using this information and the product it supports, be sure to read the general information under Appendix B, “Notices” on page 31.

First Edition (June 1998)

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This book provides the installation and startup instructions for Client Services for Netfinity Manager. This book also provides instructions for the use of Netfinity’s individual services.

Who Should Read This Book
This book is for anyone who will be installing and using the Netfinity Services for local or remote hardware systems management.

The user should have general knowledge of the operating system, network operations, and database functions.
Chapter 1. Welcome to Netfinity

Netfinity is a family of distributed applications designed to enhance the system monitoring and management capabilities of a network. Netfinity has a flexible, modular design that allows for a variety of system-specific configurations. Installation may be performed on only those program files that are necessary for the individual system’s designated function within a network environment or as a stand-alone system. Netfinity’s modularity also allows updates and addition of new services without reinstalling the base product. Netfinity combines the power and flexibility needed today with the expandability needed in years to come.

Client Services for Netfinity Manager enables the network administrator to effectively monitor and manage systems remotely without interrupting any work. Running the Netfinity programs in the background does not interfere with work being done on the system. However, it enables the network administrator to monitor the status of systems in the network, anticipating and correcting problems before they become serious.

Client Services for Netfinity Manager also includes the Serial Connection Control service. With this service, a Netfinity Manager can remotely access and manage a system using the system’s modem. It is not necessary to be attached to a network for the systems administrator to monitor, manage, and troubleshoot a system. Just configure the Serial Connection Control service, and a Netfinity Manager can dial into the system and access any of the Netfinity services that they are permitted access to by the Security Manager service, just as if they were accessing the system over a network.

Client Services for Netfinity Manager can also be used to manage and monitor an individual system, regardless of whether it is attached to a LAN or not. Client Services for Netfinity Manager features several installation configurations that provide users with varying degrees of access to their own system’s Netfinity services.
Depending on the hardware configuration of the system and the installation configuration selected during installation, some or all of the following Netfinity Services will be available for use on the system:

- Alert Manager
- Critical File Monitor
- DMI Browser
- Security Manager
- Serial Connection Control
- Software Inventory
- System Information Tool
- System Monitor
- User Profile
- ECC Memory Setup (requires ECC memory)
- System Partition Access (requires a System Partition)
- Predictive Failure Analysis (requires a PFA-enabled hard disk drive)
- RAID Manager (requires a RAID adapter)

**Road Map**

Use Table 1 on page 3 to find the information you need to get started with Netfinity.
Table 1. Getting Started Road Map

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<th>Refer to ...</th>
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<td>Install Client Services for Netfinity Manager</td>
<td>Chapter 4, “Installing Client Services for Netfinity Manager” on page 15</td>
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<tr>
<td>Know the general audience</td>
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<tr>
<td>Read about Netfinity</td>
<td>Chapter 1, “Welcome to Netfinity” on page 1</td>
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<tr>
<td>Start Netfinity</td>
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</tr>
</tbody>
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Conventions

Following are the conventions used in this book:

**Boldface**
Indicates the name of an item you need to select or the name of a command.

**Italics**
Indicates new terms, book titles, or variable information that must be replaced by an actual value.

**Monospace**
Indicates an example (such as a fictitious path or file name) or text that is displayed on the screen.
Chapter 2. System Requirements

The minimum system requirements for Netfinity Services depends on the individual operating system.

- If Client Services for Netfinity Manager for OS/2 is being installed, see “Client Services for Netfinity Manager for OS/2 System Requirements.”
- If Client Services for Netfinity Manager for Windows is being installed, see “Client Services for Netfinity Manager for Windows System Requirements” on page 6.
- If Client Services for Netfinity Manager for Windows 95 is being installed, see “Client Services for Netfinity Manager for Windows 95 System Requirements” on page 6.
- If Client Services for Netfinity Manager for Windows NT is being installed, see “Client Services for Netfinity Manager for Windows NT System Requirements” on page 8.

Client Services for Netfinity Manager for OS/2 System Requirements

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

- OS/2 Version 3.0 or later
- Approximately 6.5 MB—10 MB of hard disk space (space required depends on the installation configuration selected)
- A LAN adapter card and one or more of the following communications protocols:
  
  * **Note:** LAN adapters and communications protocols are not required for stand-alone operation.
  - IBM TCP/IP for OS/2 Version 1.2 or later
  - NetBIOS

* When referring to hard-disk-drive capacity, MB means 1 000 000 bytes; total user-accessible capacity may vary depending on operating environment.
Note: Netfinity’s NetBIOS requirements are three names, two sessions, and nine network control blocks (NCBs).

- IPX
- SNA

Netfinity supports the following SNA protocol stacks:

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Supported SNA Stack</th>
</tr>
</thead>
<tbody>
<tr>
<td>OS/2</td>
<td>IBM Communication Manager/2 version 1.11</td>
</tr>
<tr>
<td>Windows 95</td>
<td>PCOMM 4.1</td>
</tr>
<tr>
<td>Windows NT</td>
<td>- IBM Communications Server for Windows NT</td>
</tr>
<tr>
<td></td>
<td>- 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.</td>
</tr>
</tbody>
</table>

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

- A 9600 baud or greater modem (optional).
Note: Serial Connection Control will not function on systems that do not have a properly installed and configured modem.

Client Services for Netfinity Manager for Windows System Requirements

The minimum system requirements for Client Services for Netfinity Manager for Windows are:

- Microsoft Windows 3.1 (Enhanced 386 mode only)
- Approximately 7 MB—10 MB of hard disk space (space required depends on the installation configuration selected)
- A LAN adapter card and one or more of the following communications protocols:
  
  Note: LAN adapters and communications protocols are not required for stand-alone operation.
  
  - IBM TCP/IP for DOS Version 2.1, or another WinSock Version 1.1-compatible TCP/IP implementation
  
  - NetBIOS
    
    Note: Netfinity's NetBIOS requirements are two names, one session, and five network control blocks (NCBs).
  
  - IPX

- A 9600 baud or greater modem (optional).

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

Client Services for Netfinity Manager for Windows 95 System Requirements

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

- Microsoft Windows 95
- Approximately 6.5 MB—9 MB of hard disk space (space required depends on the installation configuration selected)
- A LAN adapter card and one or more of the following communications protocols:

  Note: LAN adapters and communications protocols are not required for stand-alone operation.

  - TCP/IP (must be WinSock Version 1.1-compatible)
  - NetBIOS
    
    Note: Netfinity’s NetBIOS requirements are two names, one session, and five network control blocks (NCBs).
  - IPX
  - SNA

Netfinity supports the following SNA protocol stacks:

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

- A 9600 baud or greater modem (optional).

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

### Client Services for Netfinity Manager for Windows NT System Requirements

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

- Microsoft Windows NT 3.51 or later
- Approximately 6.5 MB—9 MB of hard disk space (space required depends on the installation configuration selected)
- A LAN adapter card and one or more of the following communications protocols:

  *Note:* LAN adapters and communications protocols are not required for stand-alone operation.

  - TCP/IP (must be WinSock Version 1.1-compatible)
  - NetBIOS

    *Note:* Netfinity's NetBIOS requirements are two names, one session, and five network control blocks (NCBs).

  - IPX
  - SNA

Netfinity supports the following SNA protocol stacks:

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**Windows NT**  
Microsoft SNA Server version 2.11 with Service Pack 1 and WCPI32.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 running the Microsoft SNA Server client. Netfinity supports only server-to-server communications between systems running Microsoft SNA Server software. However, Netfinity systems running Microsoft SNA Server can communicate with Netfinity systems using any of the other supported SNA stacks.

- A 9600 baud or greater modem (optional).

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

*Note:* To most effectively manage Windows NT systems, any user that will be using Netfinity on a Windows NT system (locally or remotely) should have administrator-level access to the system.
Chapter 3. Starting the Installation Program

The Netfinity installation program is identical for Client Services for Netfinity Manager for OS/2, Client Services for Netfinity Manager for Windows, Client Services for Netfinity Manager for Windows 95, and Client Services for Netfinity Manager for Windows NT. However, the process of starting the installation program differs depending on which operating system is running.

- If OS/2 is being run, see “Starting the Client Services for Netfinity Manager for OS/2 Installation Program.”
- If Windows 3.1 is being run, see “Starting the Client Services for Netfinity Manager for Windows Installation Program” on page 12.
- If Windows 95 is being run, see “Starting the Client Services for Netfinity Manager for Windows 95 Installation Program” on page 12.
- If Windows NT is being run, see “Starting the Client Services for Netfinity Manager for Windows NT Installation Program” on page 13.

Starting the Client Services for Netfinity Manager for OS/2 Installation Program

To start the Client Services for Netfinity Manager installation program on a system that is running OS/2:

1. Start the computer with the OS/2 operating system.
2. Start an OS/2 full-screen or OS/2 window session.
3. Place the Netfinity CD into the CD-ROM drive.
4. Make the CD-ROM drive the active drive.
   - For example, if the CD-ROM drive is drive letter D, type D:
   - at the command prompt and then press Enter.
5. Make the Client Services for Netfinity Manager for OS/2 directory the active directory.
   - Type
CD OS2\SERVICES

and then press Enter.
6. Start the installation program.
   
   Type
   INSTALL
   and then press Enter.

To complete the installation, see Chapter 4, “Installing Client Services for Netfinity Manager” on page 15.

**Starting the Client Services for Netfinity Manager for Windows Installation Program**

To start the Client Services for Netfinity Manager installation program on a system that is running Windows:

1. Start the computer with Windows.
2. Place the Netfinity CD into the CD-ROM drive.
3. Select the File pull-down menu from the Program Manager.
4. Select Run... from the File pull-down menu.
5. Type
   
   x:\WIN3X\SERVICES\NETFINST
   
   where x is the drive letter of the CD-ROM drive in the Command Line field and then select OK.

To complete the installation, see Chapter 4, “Installing Client Services for Netfinity Manager” on page 15.

**Starting the Client Services for Netfinity Manager for Windows 95 Installation Program**

To start the Client Services for Netfinity Manager installation program on a system that is running Windows 95:

1. Start the computer with Windows 95.
2. Place the Netfinity CD into the CD-ROM drive.
3. Select the Start button.
4. Select **Run**... from the Start button menu.

5. Type
   
   ```
   x:\WIN95\SERVICES\NETFINST
   ```
   
   where `x` is the drive letter of the CD-ROM drive in the **Command Line** field and then select **OK**.

To complete the installation, see Chapter 4, “Installing Client Services for Netfinity Manager” on page 15.

### Starting the Client Services for Netfinity Manager for Windows NT Installation Program

To start the Client Services for Netfinity Manager installation program on a system that is running Windows NT 3.51:

1. Start the computer with Windows NT 3.51.
2. Place the Netfinity CD into the CD-ROM drive.
3. Select the **File** pull-down menu from the Program Manager.
4. Select **Run**... from the File pull-down menu.
5. Type
   
   ```
   x:\WINNT\SERVICES\NETFINST
   ```
   
   where `x` is the drive letter of the CD-ROM drive in the **Command Line** field and then select **OK**.

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

1. Start the computer with Windows NT 4.0.
2. Place the Netfinity CD into the CD-ROM drive.
3. Select the **Start** button.
4. Select **Run**... from the Start button menu.
5. Type
   
   ```
   x:\WINNT\SERVICES\NETFINST
   ```
where \( x \) is the drive letter of the CD-ROM drive in the **Command Line** field and then select **OK**.

To complete the installation, see Chapter 4, “Installing Client Services for Netfinity Manager” on page 15.
Chapter 4. Installing Client Services for Netfinity Manager

Instructions on how to install Client Services for Netfinity Manager follow.

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

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

2. Choose a drive and directory in which to install the Netfinity files.

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

![Netfinity Installation Program](image)

*Figure 1. The Netfinity Installation Program*
3. Select an installation configuration.

The Netfinity installation program offers three installation configurations. Each configuration is designed to install only the Netfinity program files that are required for system operations. The three available installation configurations are:

- **Stand-Alone Operation**
  Select **Stand-Alone Operation** if the Netfinity Services are being installed on a system that is not connected to a network, but the local system-management capabilities of Netfinity are desired.

- **Passive Client Operation**
  Select **Passive Client Operation** if the Client Services for Netfinity Manager are being installed to simplify remote system management.

  *Note:* **Passive Client Operation** is designed specifically for the remote management and access of passive client systems by the Netfinity Manager. Aside from Alert Manager, Security Manager, and Serial Connection Control, local access to the Client Services for Netfinity Manager is not available.

- **Active Client Operation**
  Select **Active Client Operation** if the Client Services for Netfinity Manager are being installed on a LAN-attached system for simplified remote system access and management by the Netfinity Manager, and also for enhanced local system management.

For more information on the available installation configurations, see Appendix A, “Installation Configurations” on page 29.
4. Select installation options.

The Netfinity installation program offers several options. Each option enables additional specialized feature of this product.

The available installation options are:

- Remote Workstation Control

Select **Remote Workstation Control** to enable the Remote Workstation Control service on this system.

5. Install Client Services for Netfinity Manager.

After choosing an installation configuration, select **Install**. The installation program copies all program files required by the installation configuration. A window appears, displaying the name of the file currently being copied, as well as the percentage of the installation that is complete.

*Note:* Select **Cancel** to halt the installation process.

6. Configure the Network Drivers.

If the installation configuration allows for network access, information must be entered 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 the network administrator 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) If the IPX or TCP/IP Network Driver is being enabled, this name cannot be altered and it will not appear on the screen.

2) If the NetBIOS Network Driver is being enabled, a network address will be selected and displayed in the **Network Address** field. When changing this default name, enter any 1–8 character address. However, this address must be unique to the system. If this NetBIOS
3) If the Serial Netfinity driver is being enabled, the system must be identified with a Unique Machine Dialup Name. 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 Managers from using the Serial Connection Control service to access the system. For questions on a valid Unique Machine Dialup Name, see the network administrator or Netfinity Manager.

c. Enable the Network Driver.

When all required information has been entered, select the **Driver Enabled** check box to activate the driver on startup.

If the system supports multiple network interfaces, additional network drivers can be added by repeating steps 6a on page 18 through 6c.

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

If the system will be part of a Netfinity network, the Netfinity network administrator can provide **System Keywords** that will be used to help identify the system on the network. System Keywords are not necessary for Client Services for Netfinity Manager functions. See the network administrator for answers to any questions.

e. Select Netfinity Options (optional)

The Netfinity Options window contains special options that affect Netfinity network operations. The following options are available:

- **Service Execution Alerts**

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

If this Netfinity Option is being implemented, select Options..., select Service Execution Alerts, and then select Save.

- **Show Network Support**

  If the Show Network Support option is being enabled, the Netfinity Support Program (or Network Interface) will be visible as a minimized icon at the bottom of the display (Windows 3.1, Windows for Workgroups, or Windows NT 3.51 only), as a minimized process in the Windows NT 4.0 or Windows 95 taskbar, or in the OS/2 task list. This enables the user to shutdown the Netfinity Support Program. If the Netfinity Support Program is to remain invisible to the user, do not enable this option.

- **Require 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 select **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 will automatically prevent the remote user from using the service on your system.
f. Set the Network Time-Out Value (optional).

The **Network Time-Out** field shows the number of seconds that Netfinity will attempt to communicate with a remote system that is not responding. If Netfinity 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 may not need to be altered. See the network administrator if there are any questions.

g. Save the configuration and continue.

Select **Save** to save the configuration. Then, select **Exit** to continue.

*Note:* The configuration can be changed later by selecting the Network Driver Configuration object from the Netfinity folder.

7. After configuring the system for network access (if available), the installation program displays a list of changes that must be made to the system configuration files, and gives the option of having the installation program make the changes. For example, when installing Netfinity Services for Windows, the installation program will display a list of changes that must be made to the CONFIG.SYS and AUTOEXEC.BAT file.

Select **Yes** or **No**.

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

- If **Yes** is selected, the changes are automatically made to the system configuration.
- If **No** is selected, 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.

8. The installation is now complete. Restart the system for the system configuration changes to take effect.
Chapter 5. Starting Netfinity

To start Netfinity:

1. Open the Netfinity folder or program group.

   During installation of the Client Services for Netfinity Manager, a Netfinity folder (OS/2 and Windows 95 only) or a Netfinity program group (Windows and Windows NT only) was added to the desktop. The Netfinity folder or program group contains the Netfinity Service Manager object.

   ![Netfinity Folder](image)

   **Figure 3. The Netfinity Folder**

   *Note:* In the Netfinity folder or program group is a document titled *Read Me First*, which contains information about Netfinity that might not be covered in the documentation. The Netfinity folder also contains the Network Driver Configuration object, which is used to reconfigure the network protocols and system keywords.

2. Start the Netfinity Service Manager.

   To start the Netfinity Service Manager, use mouse button 1 to double-click on the Netfinity Service Manager object.

**Netfinity Service Manager**

All Netfinity services that are supported by the system can be started from the Netfinity Service Manager window. The services that are available for use depend on the installation configuration that is selected during installation (see Appendix A, “Installation Configurations” on page 29).
Figure 4. Netfinity Service Manager. The services shown are installed when the “Active Client Installation” installation configuration is selected.

To start any Netfinity service that appears in the Service Manager window, double-click on the icon for that service.

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

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

- DMI Browser (requires an installed and functional 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)

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

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 highly flexible action management interface.

Also, an extensive, detailed log is kept of all alerts received by the Alert Manager. Logged information available from the log 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 both stand-alone and network use.

Critical File Monitor
Critical File Monitor enables the user to be warned 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 system.
DMI Browser
DMI Browser enables the user 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.

Predictive Failure Analysis
The Predictive Failure Analysis (PFA) service enables the user to continually monitor and manage PFA-enabled hard disk drives. A PFA-enable hard disk drive features hardware designed to help detect drive problems and predict drive failures before they occur, thus avoiding data loss and system downtime.

RAID Manager
The RAID Manager service enables the user to 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’s 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 both stand-alone and network use by any system that has a supported RAID adapter.

Security Manager
The Security Manager can prevent unauthorized access to some or all of the Netfinity services. It uses incoming user ID and password combinations, and is available for network use only.
Note: If the system is configured for network operations (that is, the Active Client or Passive Client installation configuration are selected), several program names that appear on the Security Manager may not be recognized. These programs are support programs for remote system management. If there are any questions about setting incoming user ID and password combinations on these services, see the network administrator.

Serial Connection Control
The Serial Connection Control service enables remote Netfinity Managers to access the system through a phone line and modem. With the Serial Connection Control service, it is not necessary to be attached to a network to benefit from Netfinity’s outstanding remote system access, monitoring, and management capabilities.

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.

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 Information Tool
The System Information Tool enables quick and convenient access of 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 the user to keep only the monitors needed available at all
times. Use System Monitor’s 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 both stand-alone 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 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.

Delaying Netfinity Startup on OS/2 Systems
In some cases, it might be necessary for you to delay the automatic startup of the Netfinity 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 enables you to specify the number of seconds that NETFBASE.EXE will wait before starting.

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

1. Shut down the Netfinity Network Interface if it is running.
2. Open the Startup folder.
3. Using mouse button 2, click on the Netfinity Network Interface object. This will open the Netfinity Network Interface context menu.
4. Select Settings to open the Netfinity Network Interface Settings notebook.
5. Type in the Parameters field
   
   \texttt{WAIT:x}

   where \(x\) is the number of seconds that you want the Netfinity Network Interface to wait before starting.

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

\textit{Note:} This feature is available only on systems that are running OS/2.
Appendix A. Installation Configurations

When installing the Client Services for Netfinity Manager, choose one of three installation configurations. Each of these configurations installs a specific group of Netfinity services on the system.

**Stand-Alone Operation**
This installation configuration installs base programs and interfaces for:

- Netfinity Service Manager
- System Information Tool
- System Profile
- System Monitor
- Alert Manager
- Critical File Monitor

Also, the following services are installed if they are supported by the system:

- ECC Memory Setup (requires ECC memory)
- System Partition Access (requires a System Partition)
- Predictive Failure Analysis (requires a PFA-enabled hard disk drive)
- RAID Manager (requires a RAID adapter)

**Passive Client Operation**
This installation configuration installs:

- Netfinity Service Manager
- Network Communications drivers
- Alert Manager
- Security Manager
- Serial Connection Control
- All base programs for Netfinity services supported by the system

*Note:* Passive Client Operation is designed specifically for the remote management and access of Passive Client systems by a Netfinity Remote System Manager. Aside from the Alert Manager, Security Manager, and Serial Connection Control, local access to the Netfinity services is not available.
Active Client Operation

This installation configuration installs the following for remote system management:

- Netfinity Service Manager
- Network Communications drivers
- Alert Manager base program and user interface
- All base programs for Netfinity services supported by the system

The following programs are installed to support local system management:

- Netfinity Service Manager
- System Information Tool
- System Profile
- System Monitor
- Alert Manager
- Security Manager
- Serial Connection Control
- Critical File Monitor

The following services are also installed if they are supported by the system:

- ECC Memory Setup (requires ECC memory)
- System Partition Access (requires a System Partition)
- Predictive Failure Analysis (requires a PFA-enabled hard disk drive)
- RAID Manager (requires a RAID adapter)
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