

Nways Manager for Windows NT



Installation Guide

Version 2.1

Nways Manager for Windows NT



Installation Guide

Version 2.1

Note

Before using this information and the product it supports, be sure to read the general information in "Appendix. Notices" on page 39.

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This document applies to Nways Manager for Windows NT Version 2.1.

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About This Book

This manual provides you with information that is needed to install and configure Nways Manager for Windows NT Version 2.1.

Who Should Read This Book

This manual is intended for the person responsible for installing and configuring Nways Manager for Windows NT Version 2.1

How To Use This Book

This manual contains the following chapters:

- **Chapter 1 "Introduction"** describes Nways Manager for Windows NT Version 2.1's components and identifies sources for obtaining the hardware and software requirements for using Nways Manager.
- **Chapter 2 "System Preparation"** guides you through the steps needed to ensure that your system meets the necessary requirements for the installation of Nways Manager for Windows NT Version 2.1.
- **Chapter 3 "Migration"** explains the steps and important considerations for migrating to Nways Manager for Windows NT Version 2.1.
- **Chapter 4 "Installing the Products"** guides you through the installation process of the applications provided in the Nways Manager-Suite package.
- **Chapter 5 "Post-Installation and Maintenance Procedures"** describes the steps necessary to configure and maintain Nways Manager following the installation process.
- **Chapter 6 "Uninstalling Nways Manager"** provides the information needed to uninstall Nways Manager.

Related Publications

The following publications are closely related to or referred to in the Nways Manager library:

- *Nways Remote Monitor for Windows Installation Guide*, Part Number 4229492 (This book also applies to Nways Remote Monitor Version 2.1).
- *Nways Manager for Windows NT User's Guide*, SA27-4194
- *Nways Remote Monitor for Windows User's Guide*, SA27-4195

Procedure Checklist

The following checklist is an outline of the necessary steps, in the suggested order, to successfully complete the installation of the product using the applications shipped in the package containing Nways Manager-Suite. Use it as a guide as you progress through the installation steps that are detailed throughout the remainder of this document.

- ___ 1. Create and Log in as an Administrative User. (5)
- ___ 2. Verify all system, hardware, and software environment requirements. (6)
- ___ 3. Uninstall any IBM antivirus application Version 2.0 or earlier. (10)
- ___ 4. Close any active applications. (10)
- ___ 5. If you currently use Nways Workgroup Manager Version 1.x and you are upgrading, then you will also need to uninstall that application according to the directions you received with the product. (10)
- ___ 6. Install SNMP services and Windows NT Service Pack 4 or higher (Service Pack 5 or higher is required for Tivoli NetView IT Director Edition Version 5.1). (11)
- ___ 7. Install DB2 and apply FixPak 10 (APAR WR21119), if necessary.¹ (15)
- ___ 8. Install updated ODBC drivers.² (17)
- ___ 9. Install Tivoli NetView IT Director Edition Version 5.1 or higher (included on a separate CD), or HP OpenView Network Node Manager 5.02 or higher (not included). (17)
- ___ 10. Install Nways Manager Version 2.1. (20)
- ___ 11. Install Nways Remote Monitor Demonstration Version (Optional). (22)
- ___ 12. Install Adobe Acrobat Reader (Optional). (22)
- ___ 13. Install the Configuration Tools (Optional). (23)
- ___ 14. If you elect to install FixPak 10 from the Nways Manager installation list, it will automatically install at this point. (24)
- ___ 15. Install Nways Remote Monitor Version 2.1 Licensed Version (Optional). (24)
- ___ 16. Extract the JDBC drivers.¹ (27)
- ___ 17. Create a DB2 database for JPM and begin data collection.¹ (27)
- ___ 18. Network Discovery Configuration.² (29)

These steps are referenced at the beginning of each section, and are explained in more detail in the remainder of their respective sections. Different sequences of the installation process may be possible, but the information in this document applies only to the recommended procedure mapped out herein.

1. For DB2 Universal Database Enterprise Edition Version 5.2 users only.

2. For Tivoli NetView IT Director Edition Version 5.1 users only.

Chapter 1. Introduction

This chapter provides a brief description of Nways Manager and provides references and information explaining hardware and software requirements for using Nways Manager Version 2.1.

Nways Manager consists of the following components:

- Adobe Acrobat Reader, Version 3.01 (needed to view the online books)
- Nways Remote Monitor for Windows NT (Optional)
- Nways Manager, which includes Java-based Distributed Intelligent Agent
- The Enterprise Edition of IBM DB2 Universal Database, Version 5.2, for use only with Nways Manager for Windows NT, Version 2.1
- Tivoli NetView IT Director Edition Version 5.1, on a separate CD-ROM

For the latest technical information, including prerequisites and supported web browsers, visit the Nways Management Web site at:

<http://www.networking.ibm.com/netmgt>

Demonstration Version

Demonstration versions of Nways Manager and Nways Remote Monitor allow you to try the products free for 60 days. ***If you are installing the demonstration versions of these products, then they will become inoperative after 60 days.***

Once installed, the demonstration versions can be upgraded to the fully licensed versions at any time without losing the accumulated data, ***even after the trial period is over.*** For more information, contact your IBM representative.

Important

The following list shows the IBM Nways Manager product offerings and the components they contain.

Nways Manager CD

Nways Manager for Windows NT

Demonstration version of Nways Remote Monitor for Windows NT

IBM DB2 Universal Database Enterprise Edition Version 5.2, on a separate CD-ROM

Adobe Acrobat Reader

Tivoli NetView IT Director Edition Version 5.1, on a separate CD-ROM

Configuration Tools

Nways Remote Monitor CD

Nways Remote Monitor for Windows NT

Demonstration version of Nways Manager for Windows NT

Adobe Acrobat Reader

About Nways Manager

IBM Nways Manager for Windows NT Version 2.1 is a Simple Network Management Protocol (SNMP) management platform with a suite of graphical device management applications that brings integrated, heterogeneous SNMP management to the Microsoft Windows NT Version 4.0 environment. It works using HP OpenView Network Node Manager 5.02 or higher, or Tivoli NetView IT Director Edition Version 5.1 or higher as a platform to provide fault, performance, configuration, accounting, and security management for SNMP-enabled workstations, hubs, routers, bridges, switches, and adapters. It provides this information through easy-to-use graphical network and device displays.

The Java-based management support provided in Nways Manager enables you to manage your devices from your intranet, the Internet, and from your local NT workstation. You can use your Java-Soft JDK-1.1.6-enabled Web browser to access the Nways Manager functions from anywhere in your enterprise.

When you purchase both Nways Manager and Nways Remote Monitor (ReMon), you will have the added bonus of RMON coupling for most devices that support RMON. RMON coupling allows the graphical management applications for these devices to seamlessly access and display the RMON, RMON2, and ECAM data provided for these devices by Nways Remote Monitor.

For a complete list of supported hardware, please visit our Web site at:
<http://www.networking.ibm.com/netmgt>

Nways Manager collects network information via Java-enabled Distributed Intelligent Agents (DIAs). By default, one DIA is installed on the network management station. When distributed across the network, these agents enable you to offload the polling of information from the manager workstation, thus freeing up the processor on the manager. It also places the polling close to the devices being polled, freeing up bandwidth across WAN links. These agents can be configured to notify Nways Manager when exceptions (threshold exceeded) occur. The agents can be placed in any Java-enabled (Java virtual machine) workstations in the network.

One DIA Registered Agent Access is included in the Nways Manager package. Additional DIAs can be attached only with additional Registered Agent Accesses, which are available in quantities of 1 (part number: 4300381), 5 (part number: 4300382), and 10, (part number: 4300383). Contact your IBM representative, IBM business partner, or the IBM North America Sales Centers at 1-800-IBM-CALL, Reference: SE001, to purchase these items.

Performance management of these devices also requires a Java Database Connectivity (JDBC)-compliant database to store the performance information. The Enterprise Edition of the IBM DB2 Universal Database Version 5.2, which is JDBC-compliant, is provided with Nways Manager on a separate CD-ROM. **You may use this copy of DB2 only in association with your licensed use of IBM Nways Manager for Windows NT.**

Hardware and Software Requirements

Nways Manager for Windows NT Version 2.1 requires either HP OpenView Network Node Manager 5.02 or higher, or Tivoli NetView IT Director Edition Version 5.1 or higher, which serves as its platform.

Note: If you are using HP OpenView Network Node Manager 5.02 or higher, then you will need to install all patches that are currently available at the HP OpenView Web site prior to installing Nways Manager Version 2.1.

If neither of these is installed on your machine, then you can install the included CD of Tivoli NetView IT Director Edition Version 5.1 for use with this program.

For a complete list of hardware and software requirements, see “Verifying Requirements” on page 6. For any updates to the requirements since this publication, please visit our Web site at:

<http://www.networking.ibm.com/netmgt>

Chapter 2. System Preparation

This chapter guides you through the preliminary tasks necessary to verify that your system meets the minimum requirements and is prepared for the installation of Nways Manager for Windows NT Version 2.1.

Creating an Administrative User

Reference to Checklist: This section corresponds to list item 1 on page vi.

Note

If there is already a user created with administrative privileges, then verify the criteria listed in the "Username Guidelines" in step 4 below, enable that user to act as part of the operating system, and move to "Verifying Requirements" on page 6.

In order to create a user with Administrator privileges:

1. From the Windows NT desktop, click **Start -> Programs -> Administrative Tools -> User Manager**.
2. Select the *User* menu from the menu bar.
3. Select *New User*.
4. Enter a username, password, and password confirmation.

If you will be using the DB2 Database, then you must follow this criteria for your username:

- It must begin with A-Z, @, #, or \$ characters.
- It must be 1–8 characters in length.
- It cannot be the following: ADMINS, GUESTS, LOCAL, PUBLIC, or USERS.
- It cannot begin with the following character combinations: IBM, SQL, or SYS.
- It cannot include accented characters.

Windows NT is not case sensitive.

5. Check the appropriate password option.
6. Click **Groups**.
7. Select *Administrators* in the list box.
8. Click **Add** to add the username to the list.
9. Click **OK** twice to complete the process.

To enable a username to act as part of the operating system, follow these steps:

1. Click **Start -> Programs -> Administrative Tools -> User Manager** (if not open from the previous sequence).
2. Select the *Policies* menu.

3. Select *User Rights*.
4. Select the *Show Advanced User Rights* checkbox.
5. Select the *Right* drop-down menu button near the top of the dialog box.
6. Select *Act as Part of the Operating System* from the list.
7. Click **Add**.
8. Click **Show Users**.
9. Select the username to add from the list of names. Click **Search** if you do not see the name.
10. Click **Add**.
11. Click **OK** twice.
12. Close the User Manager window by clicking the X in the upper-right corner.

At this time, you must log out of Windows NT, and log back in as the username that you have just created.

Verifying Requirements

Reference to Checklist: This section corresponds to list item 2 on page vi.

This section contains instructions explaining how to verify that your system has the required hardware and software needed to install and use Nways Manager. When you start the installation of Nways Manager, the installation program will automatically recheck your system requirements and indicate the areas which may need attention. The procedures for obtaining some of the possible missing components can be found in this section.

System

From the desktop, select **Start -> Programs -> Administrative Tools -> Windows NT Diagnostics**.

Operating System

1. To verify that your operating system is compatible, select the *Version* tab.
2. Verify that you have Windows NT Version 4.0 and Service Pack 4 or higher (Tivoli NetView IT Director Edition Version 5.1 users will need Service Pack 5).

Processor

1. Click the *System* tab.
2. Verify that your processor is a minimum of a Pentium II, 300 MHz or AMD K-29.

Display

1. Select the *Display* tab.
2. Verify that the numbers displayed on the *Setting:* line are *1024x768x256* or higher resolution.

CD-ROM

1. Select the *Drives* tab.

2. Verify that there is a CD-ROM drive listed and note the letter assigned to the drive.

Free Disk Space

1. While you still have the *Drives* tab selected, Click on the "+" next to the *Local hard drives* listing.
2. Double click on the letter of the hard drive on which you will install Nways Manager.
3. Select the *File System* tab to determine what type of file partition system your unit uses.
4. Select the *General* tab to view the amount of free disk space.
5. Verify in the *Disk Space* section that at least:
 - 405 MB (424,673,280 bytes) are available if you are using a *New Technology File System* (NTFS) disk partition
 - or
 - 2 GB (2,147,483,648 bytes) are available when you are using a *File Allocation Table* (FAT) partition
6. Click **OK** to close the *c:\Properties* dialog, where *c* is the drive in which you will be installing Nways Manager.

RAM

1. Select the *Memory* tab.
2. Verify in the *Physical Memory* section that at least 256 MB (384 MB is recommended) is the minimum RAM space available.

Paging Space

1. Verify the *Paging Space*, also found when the *Memory* tab is selected.
2. In the *Pagefile Space* section, there should be a minimum of 200 MB of Total Paging space.

Click **OK** to close the Windows NT Diagnostics Window.

Web Browser

1. Open the browser application that you would like to use with Nways Manager.
2. Click on the **Help** menu and select the *About...* item.
3. Verify that the browser is either Navigator 4.05 or higher, or Internet Explorer 4.0 or higher.
4. Close the browser window.

DB2 and FixPak 10

Reference to Checklist: This section also corresponds to step 2 on page vi.

Note

This section only applies if you believe that DB2 Universal Database Enterprise Edition Version 5.2 is already installed on your machine and you elect to use this as your database for Nways Manager. If this is not the case, continue with "IP Address".

To verify that DB2 and the required FixPak 10 are properly installed on your system:

1. Select **Start -> Programs -> MS-DOS Prompt**.
2. Type `regedit`, and the Registry Editor window will open.
3. Expand `HKEY_LOCAL_MACHINE -> SOFTWARE -> IBM -> DB2 -> DB2 Universal Database Enterprise Edition`. If DB2 is not listed, then it is not installed.
4. Click on the *Current Version* folder.
5. Verify the following lines in the right panel:
 - Version `0x00000005 (5)`
 - Release `0x00000002 (2)`
 - Modification `0x00000000 (0)`
 - Service Level `WR21119`

If the Service Level does not match, then FixPak 10 is not installed.

6. Close the Registry Editor window.

If DB2, or the required FixPak 10 is not installed, then you will need to install it when you reach the proper step in this document. The automatic installation feature of FixPak 10 takes place at step 14 on page vi. The download method of installing FixPak 10 should be performed during step 7 on page vi. The automatic installation instructions can be found in "Installing DB2 FixPak 10 (Automatic)" on page 24, while the download method is explained in "Installing DB2 Universal Database Enterprise Edition Version 5.2" on page 15.

IP Address

Reference to Checklist: This section also corresponds to step 2 on page vi.

Due to the differences in Tivoli NetView IT Director Edition Version 5.1 or higher and HP OpenView Network Node Manager 5.02 or higher platforms, there are two sections. Read the section which applies to the platform you have installed or are planning to install and use with Nways Manager.

Tivoli NetView IT Director Edition Version 5.1 Users

Tivoli NetView IT Director Edition Version 5.1 does not currently support Dynamic Host Configuration Protocol (DHCP). DHCP enables you to obtain a temporary IP address

from a DHCP server when you connect. This means you are required to obtain a fixed IP address prior to continuing with the installation. If you are not sure if you have a fixed IP address, follow these steps:

1. Click **Start** -> **Settings** -> **Control Panel**.
2. Double click the *Network* icon on the desktop.
3. Select the *Protocols* tab.
4. Select *TCP/IP Protocol* from the list.
5. Click **Properties**.
6. Verify that the *Specify an IP address* radio button is selected and all IP information is filled in. The *Obtain an IP address from a DHCP server* radio button should not be selected.

HP OpenView Network Node Manager 5.02 or Higher Users

HP OpenView Network Node Manager 5.02 or higher supports either static IP addresses, or Dynamic Host Configuration Protocol (DHCP) addresses. A static IP address is assigned to your device exclusively, and is the same every time you connect with that device. DHCP enables you to obtain an IP address from a DHCP server when you connect, and it does not remain constant. To determine if you have a fixed IP address, follow these steps:

1. Click **Start** -> **Setting** -> **Control Panel**.
2. Double click the *Network* icon on the desktop.
3. Select the *Protocols* tab.
4. Select *TCP/IP Protocol* from the list.
5. Click **Properties**.
6. Verify that the *Specify an IP address* radio button is selected and all IP information is filled in. The *Obtain an IP address from a DHCP server* radio button should not be selected.

If the settings above indicate that you have a static IP address and you will be installing DB2 to use as your database for Nways Manager Version 2.1, continue with “DB2 and FixPak 10” on page 8. The remainder of this section explains important configuration information if you will be using DHCP with HP OpenView Network Node Manager.

Java communications uses the IP host name and not the IP address, therefore both the client and server need the correct host names to which they are communicating. If the client is assigned an IP address dynamically, then you need to ensure that this IP address is associated with the client’s IP host name. This process works correctly with HP OpenView Network Node Manager 5.02 or higher using Dynamic Host Configuration Protocol (DHCP).

If your client uses the PPP protocol to connect to the server, then the client will be dynamically assigned both an IP address and an IP host name. In this situation, Windows NT clients do not provide the correct IP host name to the Java applications running in the client. Hence, the Java-based applications will not provide the correct IP host name to the server, and the server will be unable to send asynchronous (unsolicited) events to the client. To correct this problem, change the IP host name on

the client to the value "localhost" for the PPP connection's TCP/IP protocol. The Java code in the Windows NT client will then provide the server with the correct (dynamically assigned) IP host name.

To change your host's name to "localhost" for the TCP/IP protocol, perform the following steps:

1. Select the **Network Neighborhood** icon on your desktop and click with the right mouse button.
2. In the popup menu that appears, select **Properties** at the bottom of the list.
3. Select the **Protocols** tab that appears at the top of the dialog.
4. Select the TCP/IP protocol in the list that is displayed, and click on the **Properties...** button at the bottom of the list.
5. Click on the **DNS** tab at the top of the next dialog that appears.
6. In the text entry field labeled "Host:," enter "localhost" (without quotes, all lowercase, with no spaces) as the new name of your machine.
7. Click on the **OK** button at the bottom of the two dialogs, and reboot the machine when instructed to do so.

Note that changing your host name in this manner will not modify the name of the computer in the Identification section of the Network Neighborhood properties, and will not change the name of the computer across dedicated LAN connections.

Important

These items pertain to steps 3 through 5 on page vi.

- Versions 2 and earlier of the IBM AntiVirus for Windows NT application are incompatible with this installation program. These versions of IBM AntiVirus must be uninstalled before installing Nways Manager. After installation completes, you can reinstall IBM AntiVirus and activate it. ***Deactivating these versions of IBM AntiVirus is not sufficient; you must uninstall them.*** If you do not remove IBM AntiVirus, the installation program does not create any product icons or folders in the Windows NT Start Menu.
- Shut down all Windows NT applications before installing Nways Manager. If any application is running that uses the contents or the existence of any file that is used during the install process, the installation may fail. If you experience problems when the installation attempts to create product icons, ensure that you do not have any antivirus applications installed.
- Any previous versions of Nways Workgroup Manager or Nways Manager for Windows must be uninstalled at this time according to the instructions provided in that application's documentation.

SNMP and Service Pack 4 or Higher

If these services are not currently installed on your system, continue preparing your system by following the instructions to install them.

Installing SNMP Services

Reference to Checklist: This section corresponds to step 6 on page vi.

Note

If SNMP services are already installed on your machine, then you should continue with "Installing Windows Service Pack 4 or Higher".

To install SNMP Services, follow this procedure:

1. Select **Start** -> **Settings** -> **Control Panel**.
2. Double click on the *Network* icon.
3. Select the *Services* tab.
4. Click **Add**.
5. Select *SNMP Service*.
6. Insert the Windows NT CD. Stop the process that automatically starts if autorun is enabled.
7. Click **OK**.
8. Type `e:\i386\` in the edit field, where *e* is your CD drive.
9. Click **Continue**.
10. Enter any necessary information on the Agents, Traps, and Security tabs.
11. Click **OK**.
12. Click **Close**.
13. Remove the CD from the drive.
14. Click **Yes** to restart.

Note: If you have just installed SNMP services on your system, then you must install or reinstall Windows Service Pack 4 or higher (Tivoli NetView IT Director Edition Version 5.1 requires a minimum Service Pack level of 5).

Installing Windows Service Pack 4 or Higher

Reference to Checklist: This section also corresponds to step 6 on page vi.

If you will be using Tivoli NetView IT Director Edition Version 5.1 as your platform, you will need a minimum of Service Pack 5. Service Pack 4 (sufficient to run HP OpenView Network Node Manager 5.02 or higher) or higher is available either on your Windows NT CD, or as an executable file available for download at:

<http://www.microsoft.com/windows/servicepacks>

Once you have downloaded it, follow these steps to install it:

1. Launch the Service Pack executable file (example: *filename.exe*).
2. Click the check box labeled *Accept License Agreement*.
3. Click **Install**.
4. Click **Yes**.
5. Click **Restart**.
6. Click **Yes** or **No** (appears after computer has restarted).

Chapter 3. Migration

This chapter contains information on upgrading to Nways Manager Version 2.1 from a previous version of Nways Manager products.

Migrating from Nways Workgroup Manager Version 1.x or Nways Manager for Windows

If you are migrating from Nways Workgroup Manager 1.x or Nways Manager for Windows, you must uninstall these versions of the program, and install Nways Manager Version 2.1.

Note!

You will lose any stored configurations you have saved using these versions when you uninstall them.

Migrating from Nways Manager Version 2.0

Nways Manager Version 2.0 can be upgraded to Version 2.1. Because this upgrade is not a complete uninstall and install, the installation program will save all user-defined settings and will require significantly less free disk space than a new install.

When beginning the installation, the installation program will query the registry to detect Nways Manager Version 2.0. If it finds Version 2.0, it will install the new program in the same drive and directory as the previous version. If the Version 2.0 program was a fully licensed version, then the installation will automatically update the license information and install a fully licensed version of 2.1. To migrate to Nways Manager Version 2.1 from Version 2.0:

1. Insert the Nways Manager for Windows NT Version 2.1 CD into the drive. Do not stop the process if autorun is enabled. If autorun is disabled, click on **Start -> Run...** Enter `e:\setup.exe`, where `e` is the CD drive.
2. Click **Next** at the Welcome box.
3. The installation program will query the registry and inform you where Nways Manager Version 2.0 is located, and will install Version 2.1 over it. Click **OK**.
4. Select which components to install, and click **Next**.
5. Click **Yes** at the Program License Agreement dialog box.
6. At this point, the Nways Manager installation program will check your system for the hardware prerequisites. It will inform you of any prerequisites which need attention.

Steps 7 through 12 will only appear if you are upgrading from a version 2.0 trial version. If you are upgrading from a fully licensed version of Nways Manager for Windows NT Version 2.0, then this information will automatically be transferred from your previous version.

7. Select the license you will be installing: Suite, Element Manager, or None (Installs demonstration versions of all components).
 8. Click **Next**.
 9. Enter node count if you are not installing a trial version (enter 9999 if you have a license for unlimited nodes).
 10. Click **Next**.
 11. Click **OK** when the program reports that the keys were copied successfully.
 12. Click **OK** in the box when it displays, "License Successfully Enrolled."
 13. Click **OK** in the next box, which begins the file copying process.
 14. When the files finish copying, select **Next** to run the Config Tool Locator.
 15. Select the drives you want the Config Tool Locator to search. Click **Start Search**, or **File** -> **Exit** to run it later.
 16. When the Config Tool finishes searching, select the desired files and click **Refit**.
 17. Select whether or not to launch the Readme file, and click **Finished**.
- At this point, the other applications which you have selected will be installed. After all other products install, you will see steps 18 and 19.
18. Select the button to restart the computer.
 19. Click **Finish**.

Migration Note: In order to include the support for devices that are supported for the first time in Nways Manager Version 2.1, there are two files which are replaced and may need to be reconfigured. If you changed the configuration of this file on your previous version, this file will need to be reconfigured to its previous form following the migration. These files are:

- nways\bin\nwaysjma.ini
- nways\java\properties\JdmServerProperties.txt

Chapter 4. Installing the Products

This chapter contains sections describing the steps needed to install the components of Nways Manager-Suite.

When you install Nways Manager-Suite, Element Manager, or Trial, a demonstration version of all these products on the CD-ROM is installed, even if you did not purchase a license for the other programs. Any of those demonstration versions can be upgraded to the fully licensed version at any time. See "Demonstration Version" on page 1 for more information.

For the most current installation information available since the printing of this publication, visit our Web site at:

<http://www.networking.ibm.com/netmgt>

Installing DB2 Universal Database Enterprise Edition Version 5.2

Reference to Checklist: This section corresponds to step 7 on page vi.

Note

If you have verified that you already have DB2 and FixPak 10 installed on your system, or will not be using DB2 as your database for Nways Manager Version 2.1, then continue with "Installing the Updated ODBC Drivers" on page 17.

Performance management for the Java-based device managers uses a Java Database Connectivity (JDBC)-compliant database. For your convenience, the Enterprise Edition of DB2 Universal Database is provided for use with this program.

Follow these instructions for installing the DB2 database:

1. Insert the DB2 CD. Allow the install to start if autorun is enabled. If autorun is disabled, click **Start** -> **Run** and type `e:\setup.exe`, where *e* is the CD drive.
2. Click **Next**.
3. Select the checkbox for *DB2 Universal Database Enterprise Edition*.
4. Click **Next**.
5. Select the type of install. Typical is recommended.
6. Choose one of these three options:
 - Accept the default
 - Browse
 - Enter a destination drive for DB2 Install.
7. Click **Next**.
8. Type in the Administrator's username that was created at the beginning of the process, or the Network Management username that meets the criteria listed in "Creating an Administrative User" on page 5.

9. Type in the password for that username.
10. Type in the same password again to confirm.
11. Click **Next**.
12. Click **Install** to start copying the files.
13. After the files finish copying (approx. 4 minutes), remove the CD from the drive.
14. Click **Finish** to restart Windows NT.

Installing the FixPak

Reference to Checklist: This section corresponds to step 7 (for manual download method only).

Note

FixPak 10 must be installed to use DB2 Version 5.2 with Nways Manager for Windows NT Version 2.1. FixPak 10 is designed to be used with DB2 Version 5.2. If 5.2 is not the version on your system, then be sure to read the Readme file that comes zipped with FixPak 10 download.

There are two ways of installing FixPak 10. The first method is an automatic installation from the Nways Manager CD. Mark the checkbox labeled *DB2 FixPak 10* when you insert the CD to install Nways Manager, and FixPak 10 will automatically install and update a downlevel version of DB2 Version 5.2. See "Installing DB2 FixPak 10 (Automatic)" on page 24 when you reach that section for more information on that method.

This section explains how to download and install FixPak 10 manually. Follow these steps:

1. Download the FixPak from IBM's Web site:
`ftp://ftp.software.ibm.com/ps/products/db2/fixes/english-us/db2ntv5/FP10_WR21119/`

Note: FixPak 10 is transferred as the zip file *fixpak10.zip*. If you do not have a zip file extractor, a public domain version of *pkunzip* is also available for download at this site.
2. Unzip the downloaded FixPak file.
 - Using *pkunzip*, type: `pkunzip -d fixpak10.zip your desired directory` at the MS-DOS prompt.
 - The files can be extracted into any directory, the final directory will be determined later during setup.
3. Close all other applications.
4. Stop DB2 database activity by typing these commands from the MS-DOS Prompt:
`db2stop`
`db2admin stop`
5. Change the directory of the prompt to the one where you unzipped the FixPak.

6. Type `setup.exe` at the prompt.
7. Click **Next**.
8. Verify the destination directory and click **Next**.
9. Select the options you wish to start automatically when the machine is booted.
10. Click **Next**.
11. Review the settings and click **Install**.
12. When prompted, click **Yes** to restart the computer.
13. Click **Finish**.

Installing the Updated ODBC Drivers

The ODBC drivers are only necessary when using the Tivoli NetView IT Director Edition Version 5.1.

Reference to Checklist: This section corresponds to step 8 on page vi.

Note

If you are installing HP OpenView Network Node Manager on Windows NT, then skip to “HP OpenView Network Node Manager 5.02 or Higher” on page 18.

Follow this procedure to install the updated ODBC drivers for use with Tivoli NetView IT Director Edition Version 5.1:

1. Insert the Tivoli NetView IT Director Edition Version 5.1 CD. Stop the setup that begins if autorun is enabled.
2. Click **Start** -> **Run...**
3. Type `e:\intel\microsoft_updated_odbc_drivers\mdac_typ.exe`, where *e* is the CD drive.
4. Click **OK**.
5. Click **Yes**.
6. Click **Continue**.
7. Choose either *Complete* or *Custom* installation. *Complete* is recommended.
8. Click **OK**.

Installing the Platform

The following sections apply to the installation of the platform used to run Nways Manager. If you plan on installing Tivoli NetView IT Director Edition Version 5.1, continue with “Tivoli NetView IT Director Edition Version 5.1” on page 18. If you plan on installing HP OpenView Network Node Manager, skip to “HP OpenView Network Node Manager 5.02 or Higher” on page 18. If you already have the specific versions of either of these platforms, skip to “Installing Nways Manager for Windows NT Version 2.1” on page 20.

Tivoli NetView IT Director Edition Version 5.1

Reference to Checklist: This section corresponds to step 9 on page vi.

If you are installing Tivoli NetView IT Director Edition Version 5.1, then follow these steps:

1. Insert the Tivoli NetView IT Director Edition Version 5.1 CD.
2. Click **Setup**, which will bring up the NetView Setup dialog box.
3. Enter your name.
4. Enter your company's name.
5. Click **Continue**.
6. Select the installation drive (*c:* is the default).
7. Click **Continue**.
8. Select either the single user or server installation mode.
9. Click **Continue**.
10. Enter the user password.
11. Confirm the user password by entering it again.
12. Click **Continue**.
13. Select **Local** or **All** based upon the network you would like to detect.
14. Click **Continue**.
15. Enter up to 6 community names.
16. Click **Continue**.
17. Click **Restart Now**.

HP OpenView Network Node Manager 5.02 or Higher

Reference to checklist: This section corresponds to step 9 on page vi.

HP OpenView Network Node Manager is not provided in this package. If you have purchased this product separately, this section explains how to integrate the installation process of HP OpenView Network Node Manager 5.02 or higher into Nways Manager's installation sequence. HP OpenView Network Node Manager Version 5.02 or higher can be used with Nways Manager for Windows NT. A list of required patches is provided at the end of this section, but be aware that the patch numbers and contents may change periodically. Make sure that you download all of the most current patches. For any further information or questions about HP OpenView Network Node Manager, see the specific product documentation.

To install HP OpenView Network Node Manager, follow these instructions:

1. Insert the HP OpenView Network Node Manager 5.02 or higher CD into the drive. Allow the application to run if autorun is enabled. If autorun is disabled, then type `e:setup.exe` at the MS-DOS command prompt, where *e* is the CD drive.
2. Click **Next**.
3. Click **Yes**.

4. Enter the username that you created at the beginning of the process.
5. Enter your company name.
6. Click **Next**.
7. In the *Confirm New Directory* dialog box, click **Yes**.
8. Select Setup Type (*Typical* is recommended if you are only interested in managing the local network. If you will be managing a remote network, then select *Custom*. Steps 9-17 apply to the *Typical* installation.
9. Select whether to install IPX support by clicking **Yes** or **No**. This only appears if IPX is not currently installed.
10. Specify the folder in which to install.
11. Click **Next**.
12. In the SNMP Configuration dialog box, enter the Community Name for the default gateway.
13. Click **Next**.
14. Click **Next** in the Start Copying Files dialog box.
15. Click **OK** if the *Cannot open input file* error message appears. This will be resolved when the patches are installed.
16. Select whether or not to view the error log.
17. Click **Finish**.

Important: Following the successful installation of HP OpenView Network Node Manager, you will need to download and install the following patches available for the platform from:

<http://www.ovweb.external.hp.com/cpe/patches>

These patches were current at the time this document was printed, but the names and numbers change frequently. Be sure to obtain the most current patches available.

HP OpenView Network Node Manager Version 5.02

- NNM_00131
- NNM_00301

HP OpenView Network Node Manager Version 6.01

- NNM_00309
- NNM_00322
- NNM_00324
- NNM_00341
- NNM_00342
- NNM_00349
- NNM_00378

Installing Nways Manager for Windows NT Version 2.1

Reference to Checklist: This section applies to step 10 on page vi.

Important

You should consider the following points before installing Nways Manager:

- Ensure that the Windows NT user ID you are using meets the requirements explained in “Creating an Administrative User” on page 5. The install program will exit if the username does not have Administrator privileges.
- If you have a previous version of Nways Workgroup Manager or Nways Manager for Windows, it must be removed prior to installing this version.
- You must exit all applications prior to installing Nways Manager Version 2.1.
- See the product Readme file for important notes on installation.

As part of the installation process, you will be asked whether or not you want to install a licensed product or a trial version of Nways Manager. If you elect to install a trial version of the product, all Nways Manager components will be installed with a demonstration license good for 60 days following installation. You can upgrade to a licensed version of Nways Manager at any time without losing your accumulated data.

If you select a licensed product, you will be prompted to enter your customer number and license key number, and then the number of nodes for which you have purchased a license.

The installation program for Nways Manager is highly automated. Pressing the F1 key when a dialog box requires a selection from you will display appropriate help for that box. Follow these steps to install Nways Manager for Windows NT Version 2.1:

1. Insert the Nways Manager for Windows NT Version 2.1 CD into the drive. Do not stop the process if autorun is enabled. If autorun is disabled, click on **Start** -> **Run...** Enter `e:\setup.exe`, where *e* is the CD drive.
2. Click **Next** when the Welcome box appears.
3. Select the checkbox for the components you would like to install: IBM Nways Manager for Windows NT, IBM Nways Remote Monitor (Demonstration Version), Adobe Acrobat Reader, Configuration Tools, and/or FixPak 10.
4. Click **Yes** to accept the Program License Agreement.
5. Select or confirm the installation drive for the Nways installation (the default drive is `c:\Nways`). You can click on **Disk Space** to see how much disk space is available on the drive. The installation program will display the required available space and the space available in your target drive. Verify that the number in the *Space Available* field is greater than the number in the *Space Required* field and click **Next**.

At this point, the Nways Manager installation program will assess your system for the required hardware, software, and settings. It will inform you of any areas which do not meet the requirements, but will continue with the installation if you click **Next**. You can also click **Cancel** to exit the installation.

6. Select the radio button for the type of license purchased from these choices:
 - Nways Manager-Suite
 - Nways Manager-Element Manager
 - None (installs demonstration versions of Nways Manager-Suite)

Click **Next**.

Steps 7-12 only apply when you have selected to install the licensed versions of the applications.

7. Enter node count and click **Next**.
8. Enter your Customer Number.
9. Enter your License Key.
10. Click **Verify Key**.
11. Click **OK** in each of the two Congratulations dialog boxes.
12. Click **OK** when the screen displays, "Files successfully unlocked."
13. Click **Next** in the Congratulations box.
14. Click **OK** when the installation confirms that your license information was successfully enrolled.
15. The installation program will inform you that the target folder is *IBM Nways Manager*.
16. **Click OK.**
The installation program will now copy the files to your system.
17. Click **Next** to run the Config Tool Locator.
18. If you want to run the Config Tool Locator now, select the drives on which to run the Config Tool Locator and click **Start Search**. If you decide at this point to run it later, click **File -> Exit**.
19. Select the displayed tools you would like to refit, and click **Refit**.
20. Select the box to view the readme file and click **Finish**.
At this point, the installation program will immediately install the other applications which you selected to install. After all other products install, you will see steps 21 and 22.
21. Select the button to restart the computer.
22. Click **Finish**.

The Nways Manager installation program creates a log file of the installation in the *c:\temp* directory. The filenames are created as **nwaysxx.log**, where *xx* is a number increment which increases by one each time the installation is run. If any problems occurred during the installation, consult the log file with the highest number to determine a possible cause.

Installing Nways Remote Monitor for Windows NT (Demonstration Version)

Reference to Checklist: This section corresponds to step 11 on page vi.

Note

Nways Remote Monitor Demonstration Version 2.1 is optional. If you have purchased a licensed version of Nways Remote Monitor or chose not to install it, then continue with "Installing Adobe Acrobat Reader".

If you chose to install the demonstration version of Nways Remote Monitor Version 2.1, then this installation will take place now. Follow these steps to install the demonstration version of Nways Remote Monitor Version 2.1:

1. Click **Next** in the Nways Manager Welcome dialog box.
2. Click **Yes** to agree to the Program License Agreement.
3. Read the installation message and click **Next**.
4. Select the desired destination location (the default is c:\Remon).
5. When the files finish copying, select whether or not to launch the Readme.
6. Click **Finish**.

At this point, the other applications which you have selected will be installed. After all other products install, you will see steps 21 and 22 on page 21 from the Nways Manager sequence of installation.

Installing Adobe Acrobat Reader

Reference to Checklist: This section corresponds to step 12 on page vi.

Note

This section applies to those who either need help with the installation of Adobe Acrobat following the Nways Manager installation sequence, or did not install Adobe Acrobat when Nways Manager was installed and want to install it now. If neither of these conditions apply, then continue with "Installing the Configuration Tools" on page 23.

If you selected Acrobat Reader to be installed with the Nways Manager, then the process begins immediately following the prior component's installation at step 5. If this is an installation of only Acrobat Reader, then follow all of the steps:

1. Insert the Nways Manager for Windows NT Version 2.1 CD in the drive. If autorun is enabled, it will automatically begin the process. If autorun is disabled, click **Start** -> **Run....** Enter e:\setup.exe, where e is the CD drive.
2. Click **Next** in the Welcome dialog box.
3. Select the components to be installed.

4. Click **Next**.
5. Click **Yes** to install Adobe Acrobat Reader.
6. Click **Next** at the Acrobat Reader Setup box.
7. Click **Yes** to agree to the software license agreement.
8. Confirm or modify the destination location and click **Next** (the default is c:\Acrobat3\Reader).
9. Select whether or not to launch the Readme file and click **Finish**.
10. Setup is complete. Click **OK**.

At this point, the other applications which you have selected will be installed. After all other products install, you will see steps 21 and 22 on page 21 from the Nways Manager sequence of installation.

Installing the Configuration Tools

Reference to Checklist: This section corresponds to step 13 on page vi.

Note

This section applies to those who either need help with the installation of the Configuration Tools following the Nways Manager installation sequence, or did not install the Configuration Tools when Nways Manager was installed, but want to install them now. If neither of these conditions apply, then continue with "Installing Nways Remote Monitor for Windows NT (Demonstration Version)" on page 22.

If you selected the Configuration Tools to be installed with the Nways Manager, then the process begins at step 5. If this is an installment of only the Configuration Tools, follow all of the steps to install the Configuration Tools provided with Nways Manager-Suite:

1. Insert the Nways Manager Version 2.1 CD into the drive. If autorun is enabled, it will automatically begin the process. If autorun is disabled, click **Start** -> **Run....** Enter e:\setup.exe, where e is the CD drive.
2. Click **Next** in the Welcome dialog box.
3. Select the components to be installed.
4. Click **Next**.
5. Select the checkbox for the configuration tools to install and click **Next**.
6. Click **Next**.
7. Click **Next** in the Configuration Program Installation dialog box.
8. Click **OK**. (Steps 6, 7, and 8 will repeat until all selected tools have been installed.)
9. When all tools have installed, if you did not select to install FixPak 10 automatically, you will see steps 21 and 22 on page 21 of the Nways Manager sequence of installation.

Installing DB2 FixPak 10 (Automatic)

Reference to Checklist: This section corresponds to step 14 on page vi.

At this point, if you selected to install FixPak 10 automatically, the installation program will query the registry to locate the DB2 Universal Database Enterprise Edition Version 5.2. If it finds the database, then a box will appear asking you if you want to install FixPak 10. Click **Yes** and the program will install now.

If the query does not find the DB2 Universal Database Enterprise Edition Version 5.2, then you must cancel the FixPak installation by clicking **No** in the box asking you if you want to install the FixPak. If you click **Yes**, then you will receive an error message that the database is not installed. You must install the database prior to installing the FixPak.

Installing Java-based Distributed Intelligent Agent

The Java-based Distributed Intelligent Agent (DIA) is installed on remote workstations in your network to reduce the performance impact of performance polling. The DIA code is contained in the `nways\java\dia` subdirectory, where `nways` is the directory where Nways Manager is installed. Refer to the README.TXT file in that directory for more information on installing the DIAs on PC and Unix-based workstations on your network.

Installing Nways Remote Monitor for Windows NT (Licensed Version)

Reference to Checklist: This section corresponds to step 15 on page vi.

Note

If you have purchased a licensed version of Nways Remote Monitor Version 2.1, then you will install that version now. If you will be installing the demonstration version, then refer to “Installing Nways Remote Monitor for Windows NT (Demonstration Version)” on page 22 for those instructions. If you choose not to install Remote Monitor, then continue with “Chapter 5. Post-Installation and Maintenance Procedures” on page 27.

Follow these steps to install the licensed version of Nways Remote Monitor Version 2.1 from the Remote Monitor CD:

1. Insert Nways Remote Monitor Version 2.1 CD.
2. Click **Next** in the Nways Manager Welcome dialog box.
3. Click on the Remote Monitor checkbox.
4. Click **Next**.
5. Click **Next** in the Nways ReMon Welcome dialog box.
6. Click **Yes**.
7. Click **Next** when you are finished with the Important Installation Information dialog box.

8. Select the destination location.
9. Click **Next**.
10. Select whether or not to launch the Readme.
11. Click **Finish**.
12. Select the button to restart the computer.
13. Click **Finish**.

For more information on this installation, see *Nways Remote Monitor for Windows NT Version 2.0 Installation Guide*, included in this package. The content of this publication is also applicable to Version 2.1.

Chapter 5. Post-Installation and Maintenance Procedures

This chapter provides the final steps necessary to configure Nways Manager to function properly. In addition, it explains how to make adjustments which will allow Nways Manager to continue to change along with your network.

Extracting the JDBC Drivers

Reference to Checklist: This section corresponds to step 16 on page vi.

Note

This section details the extraction of the JDBC drivers, which must be done after each update to the DB2 FixPak.

If you are not using DB2 as your database for Nways Manager, but are using Tivoli NetView IT Director Edition Version 5.1 as your platform, then skip to "Editing the Seed File" on page 29.

Prior to creating a DB2 Database, the Java DataBase Connectivity (JDBC) drivers must be unzipped into the Nways Manager `java\websvr\code` directory (folder). Follow these steps to extract the drivers:

1. Obtain an unzip program (You can use the *pkunzip* utility that you downloaded with the DB2 FixPak).
2. Extract `db2java.zip` file from the `Sqllib\java\` directory into the `Nways\java\websvr\code` directory.

Creating a DB2 Database for JPM and Starting Data Collection

Reference to Checklist: This section corresponds to step 17 on page vi.

Important

If you chose not to have DB2 started automatically when the machine is started, then you will have to issue the `db2start` command from the MS-DOS command prompt before creating a database.

After making sure that the JDBC drivers are installed and DB2 is started, follow these steps to create a database:

1. Select **Start -> Programs -> MS-DOS prompt**.
2. Change the directory to `nways\bin`.
3. Run the command `db2cmd CreateDatabase.bat -create`.

By default, a database will be created on the same disk that DB2 was installed. It is advised that this disk partition have at least 60 to 100 MB of free disk space. If you intend to store historical statistics for more than 20 devices over a period several weeks or longer, then you will need approximately 1 GB or more of available disk space.

4. Depending on your platform:
 - Start NetView by selecting **Start -> Programs -> NetView -> NetView Console.**
 - Start OpenView by selecting **Start -> Programs -> OpenView -> Network Node Manager.**
5. Select **Tools -> IBM Nways Java -> Performance Configuration.**
6. Click on the *Database* tab.

If you are using HP OpenView Network Node Manager on Windows NT, then you may be asked to enter your username and password. If so, enter the administrative password that you created at the beginning of this process.
7. Click **Start Collection.**

Potential Problems Connecting to a JDBC-enabled Database

If you encounter problems connecting to the JDBC-enabled database from Nways Manager, try the following solutions.

- | | |
|-----------------|---|
| Message: | Could not find JDBC driver classes. Closing connection. |
| Action: | Install or reinstall the JDBC drivers. <ul style="list-style-type: none">• For DB2, unzip the JDBC drivers (found in <code>Sqllib\java\db2java.zip</code> where <i>Sqllib</i> is the default directory into which DB2 was installed) into <code>nways\java\websvr\code</code>, where <i>nways</i> is the directory into which Nways Manager was installed. You may have to retrieve an unzip program from the Internet to perform this task.• For other databases, refer to the documentation for those databases. The JDBC drivers must exist in the Nways classpath (<code>nways\java\websvr\code</code>, where <i>nways</i> is the directory into which Nways Manager was installed) to allow connection to the database. |
| Message: | JDBC connect error. Check database URL and make sure your username and password are correct. Closing connection. |

Action:

- Check to make sure your database system and JDBC drivers are JDBC-compliant. The database must support ANSI-92 SQL.
- Check the JDBC URL and make sure it is the one that the database manufacturer suggests you use. This can usually be found in the database documentation under a section dealing with running Java applications. If you are using a third-party driver, then the URL and driver name should be included with that driver. the default URL is given for the DB2 running locally.
- Make sure you have created a database called IBMNMPDB.
 - If you are not using DB2, read your database documentation on how to do this.
 - If you are using DB2, change to the directory *nways\bin*, where *nways* is the directory into which Nways Manager was installed, and run the command: `db2cmd CreateDatabase.bat -create`
- Make sure that the disk on which you have created the database has at least 60 to 100MB of space. The exact amount of space required depends on how much historical information will be stored
- The following databases and JDBC drivers are known to be incompatible with Nways Manager and are not recommended:
 - Microsoft Access, JDBC-ODBC Bridge.

Clearing out the DB2 Database

After a period of use, it may be necessary to clear out the DB2 database. To clean out the database, change to the directory *nways\bin*, where *nways* is the directory into which Nways Manager was installed, and run the command:
`db2cmdCreateDatabase.bat -create`

Editing the Seed File

Reference to Checklist: This section corresponds to step 18 on page vi.

Note

This section only applies if you are using Tivoli NetView IT Director Edition Version 5.1.

Tivoli NetView IT Director Edition Version 5.1's default only discovers devices within one hop of the machine running NetView. In order to discover others, follow these steps to edit the seed file:

1. Start NetView by selecting **Start -> Programs -> NetView -> NetView Console**.
2. Select **Options -> Discovery....**
3. Select the *Discover with Seed File* check box.
4. Click **Edit**.

5. Add Seed IP address to the bottom of the file (the default seed file contains instructions).
6. Select **File** -> **Save**.
7. Close the Notepad window.
8. Click **Edit** to the right of the *Use Alternative Community Names in File* field.
9. Add any additional Community Names to the bottom of the file (the default community names file contains instructions).
10. Select **File** -> **Save**.
11. Close the Notepad window.
12. Change the Discovery Speed field from *Medium* to *High Initially*.
13. Click **Apply**.
14. Click **Yes**.
15. Click **OK**.
16. Double click the IP Internet icon in the Root map. Nodes will appear on the map as they are polled. Blue squares in the Network Polling Activity box indicates that polling is in progress, while red squares mean that a poll is pending.

To refresh the Nways Device Management map, select **Tools** -> **IBM Nways Java** -> **Refresh Nways Map**.

Managing Licenses

As part of the installation process, you are asked whether or not you want to install a licensed product or a trial version of Nways Manager. If you elect to install a trial version of the product, all Nways Manager components will be installed with a demonstration license good for 60 days following installation. You can upgrade to a licensed version of Nways Manager at any time without losing your accumulated data.

If you select a licensed product, you will be prompted to enter your customer number and license key number, and then the number of nodes for which you have purchased a license.

Enter this information and click **OK** to continue the installation.

Upgrading Licenses

To upgrade from the demonstration version to the licensed version of Nways Manager, you must restart the installation program to install the license.

Note: No new code will be installed and your existing configuration will be preserved.

Increasing the Number of Licensed Nodes

If you have purchased a license allowing you to manage additional nodes using Nways Element Manager or Nways Manager Suite, use the following procedure from the NetView console to update the node-count associated with your product license:

1. Select **Tools** -> **IBM Nways Java** -> **Open License Status** from the NetView menu bar.
 2. Select **Update** from the *License Status* panel to invoke the *Update* panel.
 3. Enter the value for the updated number of licensed nodes (enter 9999 if you have a license for an unlimited number of nodes).
 4. Select **Update Now** to save the new value.
 5. Click **Close** to return to the *License Status* panel.
 6. You can click **Refresh** at the bottom of the *License Status* panel to see the updated values.
- Click the **Close** button to exit the *License Status* panel.

Determining What Nodes to Monitor

Nways Manager determines what nodes to monitor by the contents of the file *nwaysjma.ini*. To remove nodes that you do not want to monitor and thus increase the number of other nodes you can monitor with your current license, you can edit this file and remove their entries. To edit the file, access the IBM Nways Manager group and select *Edit nwaysjma.ini*.

To add nodes that you do want to monitor, edit the file and create entries for them. To do this, you must know their System Object Identifier (SYSOID).

A copy of this file is created in the *c:nways/bin* directory, where *c* is the target drive of the installation. The file is created with the installation and is given the filename *original.nwaysjma.ini*. To revert to your original configuration, rename this file *nwaysjma.ini*.

Accessing Java-based Management Applications from a Web Browser

There are three components involved in Web browser-based access to the Java-based management applications:

The Nways Manager Workstation

The Nways Manager Workstation maintains the Nways Manager web pages that are sent from the web server to the web browser clients.

The Web Server

The Web server provides the Nways Manager web pages to the web browser clients when requested. The web server does not need Java support, it sees the Nways Manager web pages as data files. It is recommended that the web server be located on the same workstation as the Nways Manager workstation.

The JDK 1.1.6–compliant Web Browser Client

The web browser client requests the Nways Manager web pages from the Web servers.

In order to utilize all the functions of Nways Nways Manager, you will need a JDK 1.1.6–compliant browser. However, to view the JMA help or the reports generated by the Java Performance Manager, you can use any web browser.

The Web Server

In order to make the Nways Manager web pages available to the web browser clients, you will need to associate the Nways Manager web pages with a logical directory name in your web server. Most web servers allow you to specify the logical directory name (for example, *Nways*) using its administration program. The Nways Manager web pages are located in *nways\java\websvr* on the Nways Manager, where *nways* is the directory in which you installed Nways Manager.

Settings

All Web Servers must be configured to communicate with the client on port 80, which is the default port in most Servers. The following sections define the required settings for some common Web Servers.

Apache Web Server: Add the following lines, in this order, to the file `\Server_root\conf\srml.conf`:

```
Alias \nways      "\Nways\java\websvr"  
Alias \cgi\code   "\Nways\java\websvr\code"  
ScriptAlias \cgi  "\Nways\java\websvr"
```

Where *Server_root* is the directory in which Apache Websvr is installed, and *Nways* is the directory where the Nways product is installed.

Netscape Web Server:

1. Go to the server main page to verify that the server is on.
2. Select the **Programs** menu from the menu bar.
3. Select **CGI File Type**.
4. Select **Yes** to activate CGI as a file type.
5. Select **Content Management** from the menu bar.
6. Select **Additional Document Directories**, and add the following lines:

```
URL prefix: nways  
Map To Directory: \Nways\java\websvr
```

```
URL prefix: cgi  
Map To Directory: \Nways\java\websvr
```

Domino Web Server:

1. Go to `http://Machine/Frntpage.html`, where *Machine* is the directory in which you installed the Domino Web Server.
2. Select **Configuration and Administration Forms**, which will take you to `http://Machine/admin-bin/Cfgin/initial`.
3. Select **Request Routing**, which will take you to `http://Machine /admin-bin/Cfgin/mpfrule`.
4. Add the following lines in this order:

Action	Request Template	Replacement File Path
-----	-----	-----
Pass	\nways*	\Nways\java\websvr*
Exec	\cgi\CgiLauncher*	\Nways\java\websvr\CgiLauncher*
Pass	\cgi*	\Nways\java\websvr*

The JDK 1.1.5-Compliant Web Browser

Java support comes with your browser.

Note: If you are using Microsoft Internet Explorer Version 4.x or 5.x, then you must update the Java Virtual Machine by selecting *other options* at the Web site:

<http://www.microsoft.com/windows/ie/download/default.asp>

You will also need to download the RMI patch from the same site.

For information on configuring your browser for use with Nways Manager, detailed instructions are contained in the file:

`nways\java\websvr\help\ibm.nways.subsys.webtoc.html`. *Nways* is the directory where Nways Manager is installed.

After configuring your browser, you can access the Java-based management applications for your devices by specifying the URL for the Nways Manager HTML pages to the web browser.

Accessing the Java-based Management Application Helps

The Java-based management applications use a Web browser to display their HTML help panels. The Nways Manager install program will attempt to locate your default browser by looking in the NT registry. If it finds one it recognizes, it will tell Nways Manager to use it.

If it cannot locate a browser it recognizes, then it will issue a warning message requiring you to specify the path in the `nways\java\websvr\properties\BrowserApplet.txt` file. Specify the fully qualified name for the web browser on the "webBrowser.path=" line, where *nways* is the directory in which Nways Manager is installed.

About Device Configuration Programs

Some IBM networking devices include a configuration program. Nways Manager allows you to launch these configuration programs from the device's JMA.

In order to launch the configuration program from the JMA, Nways Manager must know the location of the configuration tool on the Nways Management Workstation. For configuration tools shipped after July 1998, this information is added to the program registry when the configuration tool is installed.

To locate older versions of configuration tools, Nways Manager includes the Config Tool Locator, which locates existing versions of configuration tools already installed on the

Nways Management Workstation. You should run the Config Tool Locator when you install Nways Manager, and again after each installation of a configuration tool that originally shipped prior to July 1998.

To run the Config Tool Locator from the Start menu, select **Programs -> IBM Nways Manager -> Config Tool Locator**.

If the Config Tool Locator is unable to find a configuration tool that is loaded on the Nways Management workstation, you can add the location of the program to the registry using the following procedure:

1. Locate the correct configuration tool (cfg.exe or cfg.app file) on the path *nways/java/fixcfg*, and note the file size.
2. Check the Config Tool Locator's *FixCfg.properties* file to ensure that the file size of this configuration tool is unique.
3. Add a new entry to the *FixCfg.properties* file, using existing entries as models.
4. Rerun the Config Tool Locator.
5. Restart the JMA.

Nways Deployment Manager

Nways Deployment Manager is one of the components installed with Nways Manager for Windows NT. When you initially start Nways Deployment Manager, you will have to create a DB2 database named CFGMAN. Follow these steps to create the database and open Nways Deployment Manager for the first time:

1. Click **Start -> Settings -> Control Panel**.
2. Double click the *Services* icon.
3. Find and select the *DB2 Security Server* entry in the Service column.
4. Confirm that the Status is *Started*. If the Status is not *Started*, then click the **Start** button.
5. In the same entry, confirm that the Startup is *Automatic*. If the Startup is not *Automatic*, then click the **Startup...** button and change the Startup Type to *Automatic*.
6. Click **Start -> Programs -> Command Prompt**.
7. Type `ovstop JMAintegrator`.
8. Click **Start -> Programs -> DB2 -> Administration Tools -> Control Center**.
9. Click **Systems -> [your computer name] -> Instances -> DB2 -> Databases**.
10. Right click on *Databases* and select *Create -> New*.
11. Follow the SmartGuide and create a database named CFGMAN
12. At the Command Prompt, type `ovstart JMAintegrator`.
13. Launch Nways Deployment Manager by clicking **Start -> Programs -> IBM Nways Manager -> Launch Deployment Manager**.

After the initial database creation, you can launch Nways Deployment Manager from the Tivoli NetView IT Director Edition Version 5.1 main menu, by selecting **Tools -> IBM**

Nways Java -> Open Deployment Manager. For more information on this component, see the *Nways Deployment Manager User's Guide*.

Chapter 6. Uninstalling Nways Manager

This chapter describes how to uninstall the application and describes special considerations for reinstalling the application.

Removing Nways Manager

You can uninstall Nways Manager for Windows NT by selecting the Add-Remove Programs icon on the Windows NT Control Panel. The Add/Remove Programs Properties dialog includes a list of the applications installed on your system. Select **IBM Nways Manager** and click **Add/Remove...** to remove the application from your system.

The uninstallation process will remove all files that were created during the install. It will also undo all registry changes and changes made to files of type `.ini` during the install. It will neither remove files that were created during the execution of the program, nor will it remove the full product directory tree.

After the uninstallation completes, you will need to perform the following steps to fully remove the application data files and directories:

1. Refer to the Nways Manager README file for additional instructions required to completely remove Nways Manager from your system
2. Execute the configuration program for your Web Server application. Remove the `nways\java\websvr` directory from the list of directories.
3. Delete the `nways` directory.
4. Update the *Path* settings in the *Environment Variables*:
 - a. Click **Start -> Settings -> Control Panel**.
 - b. Double-click the *System* icon.
 - c. Select the *Environment* tab.
 - d. Scroll through the *System Variables* field until you find Path.
 - e. Select the *Path* entry.
 - f. Find the path entries `c:\Nways\bin;` and `c:\Nways\lib;`, where `c` is the drive where Nways Manager was installed.
 - g. Select these sections and use the Delete key to remove them from the path (**Important: Do not click the *Delete* pushbutton, as you will delete the entire path!**).
 - h. Click **Set**.
 - i. Click **OK**.

Nways Manager for Windows NT is now fully removed from your system.

Appendix. Notices

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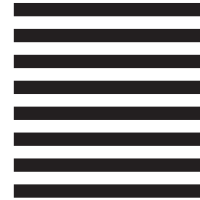
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