README-11 for Service Update 11
IBM Network Station Manager for PC Server.
Date: Thursday, October 5, 2000

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RELEASE 3.11 NOTES

IBM Network Station Manager Release 3.11 is the updated PC Server version of IBM Network Station Manager Release 3.1.

This cumulative release contains all of the Release 3.0 software, and software added in Service Updates 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 and 11. You can install this new release of IBM Network Station Manager in the following three situations:

1. A new installation.

   This release installs Release 3.11 software which includes all Release 3.0 software, and software added in Service Updates 1 through 11.

2. An update to a Release 3.0, Service Update 1, 2, 3, 4, 5, 6, 7, 8, 9 or 10 installation.

   This release preserves your existing user preference files and installs only the Service Update 11 software.

   You should apply this update to all of your Release 3.x servers. Refer to the manual for instructions on how to perform a Single-Server Update Method.

3. An update to a pre-Release 3.0 installation.

   This release preserves your existing user preference files and installs all Release 3.0 software; plus Service Updates 1 through 11

In all three situations, when you install this software it updates your system to the current IBM Network Station Manager software release. This installation also preserves any existing user preferences as explained in the update and migration section of the manual.

This new release also contains an updated manual. Identify the latest manual release by looking for the following title and date on the title page:

"IBM Network Station Manager Installation and Use" November, 1998

Look for the manual on the IBM website or in your IBM Network Station Manager CD.

The URL is: http://www.ibm.com/nc/pubs The CD path is: x:\ntnsm\en\pubs\en_us\QB3AOO01.pdf (English)

NOTE: The Internet-download copy of this release has installation limitations for an authentication server, a base code server, and a batch mode install (automatic installation). Refer to the IBM Network Station Manager Installation section in this readme file for more information.

OTHER READMES OF INTEREST

eNetwork On Demand NDIS Intermediate Device Driver
http://techsupport.services.ibm.com/nc/pcserver/step1.shtml
eSuite Product Information
http://techsupport.services.ibm.com/nc/pcserver/step1.shtml
IBM Network Station Manager - Supplemental Trial Products CD (look for this readme.txt file on the Supplemental Trial Products CD)
http://techsupport.services.ibm.com/nc/pcserver/step1.shtml

GENERAL NOTES

1. This readme file is available in English only. Its most important information is also contained in the latest version of the publication "IBM Network Station Manager Installation and Use."

A PDF file copy of this publication is on your CD. You can also find this publication at the IBM Network Station publications website at:

http://www.ibm.com/nc/pubs.

2. The CD contains several third-party products in addition to IBM Network Station Manager. You can install any of this third-party software in any language that the third-party software supports by directly installing it from the CD.

    The Internet download contains only the IBM Network Station Manager software plus eNetwork On-Demand (eNOD) software. You must obtain the third-party products separately by following the instructions on the Internet download page website at:

    http://techsupport.services.ibm.com/nc/index.shtml.

    When you begin to install this product, you may select the language for the installation. This language selection affects only the installation process; it is not necessarily the language of the product software once it is installed. The installed language of the IBM Network Station Manager software is the language that the default Windows system locale is set to at the time of installation.

3. For Non-US users and specifically Swedish Users:
    The Swedish version of Microsoft Windows NT Server creates the default administrative account as 'Administrator' with an umlaut over the 'o' character. IBM Network Station Manager (NSM) does not operate with any national language characters (for example, umlauts) in any NSM user IDs. Before installing NSM with the Swedish locale set, you must create another Windows NT user ID without any national language characters. This user ID must have the same administrative authority as the original Administrator.

4. IBM Network Station Manager now includes a Network Station reboot utility for rebooting a Network Station remotely. Look for detailed instructions in the x:\ntnsm\en\utility.nsreboot.txt file where x:\ is the CD ROM drive.

    You can find the utility on the IBM Network Station Manager CD.

5. IBM Network Station Manager now includes a Network Station migration utility that cleans up an IBM Network Station Manager release prior to Release 3.0. Look for detailed instructions in the manual. Look for the utility on the IBM Network Station Manager CD.

6. IBM Network Station Manager requires one of the following Windows NT Server Service Packs:

    Service Pack 3 for Windows NT Server 4.0

    Service Pack 4 for Windows NT Server 4.0

    Service Pack 5 for Windows NT Server 4.0

    Service Pack 6 for Windows NT Server 4.0

    NOTE: Service Pack 4 for Windows NT Server 4.0, Terminal Server Edition is specifically for Terminal Server Edition and is not required.

    NOTE: Service Pack 5 for Windows NT Server 4.0, Terminal Server Edition is specifically for Terminal Server Edition and is not required.

7. For additional IBM Network Station information, please read the information on the IBM Network Station Support Knowledge Base. This database includes information on configuration, solutions, and other support information for all IBM Network Station platforms.

    Access the IBM Network Station Support Knowledge Base at the following URL:

    http://www.ibm.com/nc

    Follow links to the Network Station Support website.

8. The Internet download for IBM Network Station Manager release 3.11 does not include a 128-bit Netscape browser. If you require the 128-bit Netscape browser for your Network Stations, order the CD from http://techsupport.services.ibm.com/nc/pcserver/cd_order.shtml.

9. To assign a failover boot host using DHCP, create DHCP Option 219. Refer to the "IBM Network Station Manager Installation and Use" publication for details on creating new DHCP options. You must create this option as a string. The Network Station requires the boot server IP address in an alphanumeric format similar to DHCP Option 66.

   The Network Station tries to start up from the IP address specified in Option 66. If this does not work, the Network Station switches to the IP address specified in Option 219.

[PREREQUISITES](#)

Before you install IBM Network Station Manager, you must meet several prerequisites. Refer to the IBM Network Station Manager Installation and Use manual for instructions on how to install the following prerequisites:

1. Microsoft Windows NT Server 4.0 or Microsoft Windows NT Server 4.0, Terminal Server Edition on your server.
   A. You must format your hard drive with the NTFS file system. IBM Network Station Manager installation fails if you use the FAT file system.
   B. You must have 800 mb of free space for Windows NT Server 4.0 and 1000 mb free for Windows NT Server 4.0, Terminal Server Edition. You need this space to install IBM Network Station Manager and the required software products.
   C. The regional settings for your server should reflect your language and locale.

2. Service Pack 3, Service Pack 4, Service Pack 5 or Service Pack 6 for Windows NT Server 4.0.

   NOTE: Service Pack 4 for Windows NT Server 4.0, Terminal Server Edition is specifically for Terminal Server Edition and is not required.

   NOTE: Service Pack 5 for Windows NT Server 4.0, Terminal Server Edition is specifically for Terminal Server Edition and is not required.

3. One of the following Web browsers:

   A. Netscape Navigator 4.04 (included in the IBM Network Station Manager CD) or newer.

(see, http://www.netscape.com/)

    B. Microsoft Internet Explorer 4.01 or newer.

(see, http://www.microsoft.com/)

4.
5. One of the following Web servers:

    A. Lotus Domino Go 4.6.2.2 for Windows NT (included in your IBM Network Station Manager CD).
    B. Microsoft's Internet Information Server 4.0 (IIS 4.0)

NOTE: Microsoft does not support IIS 4.0 on the Windows NT Server 4.0, Terminal Server Edition platform. If you are running IIS 4.0 on Windows NT Server 4.0, Terminal Server Edition you have two options:

Continue with IIS 4.0

If you are not experiencing any problems, you may continue to use IIS 4.0 without Microsoft support. IBM tested IBM Network Station Manger on IIS 4.0 on Microsoft Windows NT 4.0, Terminal Server Edition, and did not experience any problems.

Switch to Lotus Domino Go 4.6.2.2. Follow these instrucions:

    1. Uninstall IIS 4.0.
    2. Restart your Microsoft Windows NT server.
    3. Install Lotus Domino Go 4.6.2.2.
    4. Restart your Microsoft Windows NT server.
    5. Reinstall IBM Network Station Manger using the single server migration path to preserve your user environment.

If you wish to run IBM Network Station Manager in a supported environment, we recommend using Lotus Domino Go 4.6.2.2 on Microsoft Windows NT Server 4.0, Terminal Server Edition.

If you want more information on Microsoft's support of IIS 4.0 on Microsoft Windows NT Server 4.0, Terminal Server Edition, see article Q190157 at http://support.microsoft.com.

6. For DHCP choose one of the following options:
    A. IBM DHCP services that you may install during setup (on the IBM Network Station Manager CD).
    B. Microsoft DHCP services. (see, http://www.microsoft.com/)
    C. Another version of DHCP or no DHCP services at all.

IBM NETWORK STATION MANAGER INSTALLATION

If you plan to update from a previous version of IBM Network Station Manager read the update section in the IBM Network Station Manager Installation and Use publication.

To install IBM Network Station Manager from the web, download a copy of Release 3.11 from http://techsupport.services.ibm.com/nc/index.shtml. Depending on your network's internet download access, you can download and install either the whole file or the file segments that you need to create the whole file.

If you have a reliable internet connection, you can download the whole file by carrying out the following installation instructions:

    A. Select Start->Programs->Windows NT Explorer
    B. Double-click on x:\nsmsetup.exe where x:\ is the directory location which contains the whole file.

Running nsmsetup.exe extracts the IBM Network Station Manager Installation into your C:\Temp directory and automatically begins the default IBM Network Station Manager Installation.

You can also download the file segments to create the whole file. Carry out the following installation instructions:

    A. Select Start->Programs->Windows NT Explorer
    B. Double-click on x:\Setup.exe where x:\ is the directory location which contains the file segments needed to create the whole file.

Running Setup.exe creates the whole file from the file segments, and automatically begins the IBM Network Station Manager installation.

If you plan to use any command-line options described in the "IBM Network Station Manager Installation and Use" publication follow the above instructions, but do not begin the installation of the IBM Network Station Manager product.

    A. Exit from the automatic installation by closing the "Select Language to install" window.
    B. Select Start->Programs->Command Prompt
    C. Change to the Temp Directory, usually C:\Temp.
    D. Change to a directory Ixp*nnn*.tmp, where *nnn* is a specific three-digit number.

       This is the directory where the Internet download unpacks the IBM Network Station Manager installation program.

E. Follow the instructions from the "IBM Network Station Manager Installation and Use" publication to begin a special command-line installation from this directory.

Once you log off from Windows NT, the Ixpnnn.tmp directory is automatically deleted. If you plan to keep a copy of the unpacked IBM Network Station Manager Installation files, copy the directory tree to another directory in Windows NT Explorer before logging off from Windows NT.

Notes for users of Microsoft Windows NT Server 4.0, Terminal Server Edition (TSE):

1. To install any software on TSE, you must carry out the following steps to make the registry information and icons accessible to all users:
   A. At a command line prompt, type 'change user /install'.
   B. Install the IBM Network Station Manager software.
   C. After setup is complete, type 'change user /execute' at a command prompt.

2. Microsoft recommends that you do not install TSE as a Primary Domain Controller or Backup Domain Controller. Read the readme file on your TSE CD for further information.

   IBM recommends running IBM Network Station Manager on a Stand-Alone server or a Stand-Alone server attached to a domain.

3. When you install Option Pack on your Windows NT Server 4.0, Terminal Server Edition server, install the minimal installation. This Option Pack installs Internet Information Server 4.0 (IIS). If you selected IIS when you installed Windows NT Server 4.0, Terminal Server Edition, the IIS level may be at 3.0. Install Option Pack to update IIS to 4.0.

[AUTOMATIC INSTALLATION (BATCH MODE)](#)

You can now use the IBM Network Station Manager Setup program to silently install IBM Network Station Manager on more than one identical server. Setup creates a response file which you can use to install IBM Network Station Manager on additional, identical servers.

Refer to the IBM Network Station Manager Installation section in this readme file for [instructions on running command-line option installations](#) of IBM Network Station Manager program.

The automatic installation only works from a CD copy of IBM Network Station Manager. You cannot use this procedure if you downloaded IBM Network Station Manager from the internet.

BOOT SERVER

IBM Network Station Manager now allows administrators to create separate Boot servers and Authentication servers. This gives you centralized user administration and it allows you to boot from local Windows NT Servers and run applications from the closest Windows NT Server. All Network Station executable programs run locally from the local boot server, while users authenticate from the central server. This is especially useful for Enterprise networks because it greatly reduces WAN network traffic.

If you install a Boot server, you need to direct Netscape to access the IBM Network Station Manager configuration utility from the Authentication server rather than the Boot server. To do this you need to edit a preference file on your Boot server.

1. Make a backup copy of the pref file named pref.old.
2. Open x:\{float}\nstation\PRODBASE\mods\Nav\pref in a text editor. Where x:\{float}\ is the directory where you installed your IBM Network Station Manager software.
3. Find and replace the two instances of BOOTHOST to AUTHENTICATION_HOST. The two BOOTHOST values are nested within longer commands. Only change the two BOOTHOST values to AUTHENTICATION_HOST within the commands.
4. Save your file.

Refer to the IBM Network Station Manager Installation section in this readme file for instructions on running command-line option installations of IBM Network Station Manager.

INSTALLING CITRIX METAFRAME AND LOTUS SMARTSUITE 97 SOFTWARE

You can use a trial copy of Citrix MetaFrame software with IBM Network Station Manager. This software allows you to run Windows applications through the ICA protocol on your Network Station. The MetaFrame software requires Windows NT Server 4.0, Terminal Server Edition.

The Citrix MetaFrame CD also includes a trial copy of Lotus SmartSuite 97 software. You may automatically install this software during your Citrix MetaFrame installation.

After the installation, refer to the "IBM Network Station Manager Installation and Use" manual to configure Lotus SmartSuite 97 software for a Network Station user.

To install the trial Citrix MetaFrame software, follow these instructions:

1. Insert the Citrix MetaFrame CD into your CD-ROM drive. A dialog box appears.
2. Select Installing Citrix MetaFrame. When prompted, select Install Lotus SmartSuite 97.

Refer to the "IBM Network Station Manager Installation and Use" manual for additional information.

INSTALLING NCD WINCENTER UIS SOFTWARE

You received NCD WinCenter UIS software with your IBM Network Station Manager software. This software allows you to run Windows applications over the X11 Windows protocol on your Network Station. This software requires Windows NT Server 4.0, Terminal Server Edition.

To install your trial NCD WinCenter UIS software, insert the IBM Network Station Manager - Supplemental Trial Products CD into your CD-ROM drive. A dialog box appears.

Select NCD WinCenter UIS.

Refer to the "IBM Network Station Manager Installation and Use" manual for additional information.

CONFIGURING LOTUS SMARTSUITE 97 TRIAL VERSION SOFTWARE

Install your Lotus SmartSuite 97 software automatically when you install your Citrix MetaFrame software. After the installation, you need to configure the Lotus SmartSuite 97 software for a Network Station user.

The full version of Lotus SmartSuite 97 software is licensed on a per-processor basis, and not on a per-server basis. Contact your IBM Business Partner or Lotus reseller for details and pricing information for the full version of Lotus SmartSuite 97.

Refer to the "IBM Network Station Manager Installation and Use" manual for additional information.

1. The IBM Network Station Manager installation may not work with some antivirus software packages. If you have an antivirus product installed on your server, disable it until you completely install IBM Network Station Manager on your server. Restart your antivirus software after you complete the installation. IBM Network Station Manager has been verified to be free of viruses at the time of creation.

2. If your Network Station panics and your Windows NT Server displays a blue screen when you print from your Network Station during a MetaFrame ICA session, you need to apply hotfix ME100033 to your MetaFrame software. The ME100033 hotfix resolves the issue where an automatically created client network printer causes the print spooler to crash.

   To get the ME100033 hotfix, go to http://www.citrix.com/support/, select "ftp, hotfixes, service packs", then select the desired product and language combination. Download the ME100033 hotfix and install it as instructed in the ME100033 hotfix readme.txt file.

3. When you start a Citrix MetaFrame session with a Network Station, the colors for your Network Station menu bar may change. When you minimize or close the MetaFrame session, the Network Station menu bar colors return to normal.

4. If you uninstall IBM Network Station Manager and you plan to reinstall it, you must reboot the server before you begin to reinstall IBM Network Station Manager. If you do not reboot first, the reinstalled IBM Network Station Manager software may fail to authenticate with the Lotus Domino Go Webserver.

5. The following known problem only applies to Lotus eSuite Workplace users.

   IBM Network Station Manager Release 3 Service Update 3 (3.03) may install a Lotus eSuite WorkPlace 1.0 patch regardless of whether or not you installed Lotus eSuite WorkPlace 1.0. This patch prevents a successful Lotus eSuite WorkPlace 1.5 installation unless you installed Lotus eSuite WorkPlace 1.0.

This applies only under the following condition:

If you installed IBM Network Station Manager Release 3.03 or if you upgraded from Release 3.03 to Release 3.11.

1. If you installed Lotus eSuite WorkPlace 1.0, this problem does not affect your Lotus eSuite WorkPlace 1.5 installation.
2. If you did not install Lotus eSuite WorkPlace 1.0, you need to perform the following corrective action before you install Lotus eSuite WorkPlace 1.5. You need to delete the eSuite folder in the x:\{float}\nstation\Prodbase subdirectory where x:\{float}\ is the location of IBM Network Station Manager Release 3.03. Follow these instructions to delete the eSuite folder:
   a. From your Windows NT server desktop, click Start->Programs->Windows NT Explorer
   b. Open x:\{float}\nstation where x:\{float}\ is the location of IBM Network Station Manager Release 3.03.
   c. Open x:\{float}\nstation\Prodbase where x:\{float}\ is the location of IBM Network Station Manager Release 3.03.
   d. Right click on the eSuite folder.
   e. Select Delete.
   f. Select Yes.

You may safely remove the Lotus eSuite WorkPlace 1.0 eSuite folder if you do not use Lotus eSuite WorkPlace software.

6. If you installed Lotus eSuite WorkPlace Release 1.0 and the Lotus eSuite desktop does not appear on your Network Station, you may need to apply a Lotus eSuite WorkPlace Release 1.0 Fix. Look for the fix on the IBM Network Station Manager CD at x:\ntnsm\en\updates\eSuite\1.0\Es10fix.exe where x: is your CD-ROM Drive. Read the Es10fix.txt file for detailed installation instructions. This file is on the same directory location.

   NOTE: If you installed Lotus eSuite WorkPlace Release 1.0 before you installed IBM Network Station Manager Release 3 Service Update 3, you do not need to apply the fix. Your Service Update 3 installation automatically applies the eSuite fix.

7. If you experience troubles while installing Lotus products such as Lotus Notes or Lotus SmartSuite 97 on your server, check to see if you installed Service Pack 1 for Internet Explorer 4.0. You may need to uninstall Internet Explorer before you install your Lotus products. Reinstall your Internet Explorer afterwards.

8. If you have a multiple-processor server in a token-ring network, you should install the post Service Pack 3 Q156655 NDIS fix from Microsoft to improve your overall computing performance. Download the Q156655 NDIS fix from Microsoft's website. The NDIS fix may also improve performance on multiple-processor servers in other environments.

    Windows NT 4.0 Service Pack 4.0 and Windows NT Server 4.0, Terminal Server Edition Service Pack 4 include the Q156655 NDIS fix. You do not have to install the fix if you installed Service Pack 4.

9. IBM Turbo 16/4 Token-ring ISA adapters require the latest IBM device driver. If you use an earlier device driver, you may experience problems.

    Look for the latest driver at the following URL:
    http://www.networking.ibm.com/support/

10. The NDIS Intermediate Driver, also known as the IBM DHCP Driver, is incompatible with certain network adapter cards:
    A. Driver AMDPCN.SYS, which controls the onboard Ethernet card in the IBM PC 325, may be incompatible with the NDIS Intermediate Driver. Contact AMD for an updated driver.
    B. Driver IBMENIIN.SYS, which controls the Ethernet /A adapter for MCA, may be incompatible with the NDIS Intermediate Driver. A newer driver for this network interface card is not available.

11. Before you install IBM Network Station Manager on an Integrated Netfinity Server for AS/400 (formerly known as an Integrated PC Server), you must apply V4R2 PTF SF49473 or V4R3 PTF 51098 Service Pack 7 to your AS/400 server.

    At this time, the Integrated Netfinity Server for AS/400 does not support IBM DHCP.

    .   When you install IBM Network Station Manager on an Integrated Netfinity Server for AS/400, you will see the following dialog box:

        If you want to install IBM DHCP, select 'Yes'. If you want to install Microsoft DHCP or no DHCP services, select 'No'.

A. Select No.

12. If you use Microsoft Internet Explorer 5.0 to run IBM Network Station Manager, you should install the Microsoft Q235239 backspace fix. The Microsoft Q235239 backspace fix allows the backspace key to work properly when you are working with Javascript input form fields. Without this fix, users may experience problems while using the backspace key to delete characters from input fields in IBM Network Station Manager.

Download the Q235239 backspace fix from Microsoft's website. Refer to Microsoft's instructions for installing the Q235239 backspace fix.

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