

IBM Network Station Runtime Environment for RS/6000 Network Station Browser Guide

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Note

Information contained in this manual supports the IBM Network Station Runtime Environment for RS/6000 Network Station Browser. Before using this information and the product it supports, be sure to read the general information under Appendix C, "Notices" on page 21.

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About This Book

The *IBM Network Station Runtime Environment for RS/6000 Network Station Browser Guide* provides instructions for installing, configuring, and using Network Station Browser on IBM Network Stations in the RS/6000 environment.

This publication is intended to be used in combination with *IBM Network Station Runtime Environment for RS/6000 System Administrator's Guide*, which describes installation, configuration, administration, and troubleshooting for the base IBM Network Station Runtime Environment for RS/6000 product, and with *IBM Network Station Runtime Environment for RS/6000 User's Guide*, which provides general instructions for IBM Network Station users.

Who Should Use This Book

Part 1 is for system administrators responsible for installing and configuring Network Station Browser for IBM Network Stations in the RS/6000 environment. A working knowledge of AIX and the principles of networking is assumed. Some experience with TCP/IP, the Common Desktop Environment (CDE), and X Windows system administration will help in the successful use of this product.

Part 2 is for users of Network Station Browser on IBM Network Stations in the RS/6000 environment.

How To Use This Book

These chapters are included in the *Network Station Browser Guide*.

In Part 1, System Administration Information:

- Chapter 1, "Installation" on page 3 outlines system requirements and installation procedures.
- Chapter 2, "Configuration" on page 5 discusses configuration tasks associated with setting up Network Station Browser.

In Part 2, User Information:

- Chapter 3, "Using Network Station Browser" on page 11 tells how to start Network Station Browser and how to access the browser's help instructions.
- Chapter 4, "Configuration (optional)" on page 13 describes how users may set some environment variables and preferences.

Appendixes include:

- Appendix A, "Parameters Set by NSBconf" on page 17, which describes parameters set using the **NSBconf** script.
- Appendix B, "Parameters Set by Modifying pref" on page 19, which lists parameters set by editing the **pref** file.

Note: You may see references to IBM Network Station Manager (NSM) in the browser's menus and in the Help system. Please disregard these references; IBM Network Station Manager is not supported in the RS/6000 environment in this browser release.

Highlighting Conventions

These highlighting conventions are used in this book.

| | |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bold | Identifies commands, subroutines, files, structures, directories, and other items whose names are predefined by the system. Also identifies graphical objects such as buttons, labels, and icons that the user selects. |
| <i>Italics</i> | Identifies parameters whose actual names or values are to be supplied by the user. |
| Monospace | Identifies examples of specific data values, examples of text similar to what you might see displayed, examples of portions of program code similar to what you might write as a programmer, messages from the system, or information you should actually type. |

ISO 9000

ISO 9000 registered quality systems were used in the development and manufacturing of this product.

Related Publications

The *IBM Network Station Runtime Environment for RS/6000 Network Station Browser Guide* is provided in PostScript and HTML format. We recommend that if you want to print the *Network Station Browser Guide*, you print the **/usr/netstation/doc/NSBGuide.ps** file. If you want to read the documentation online, view the **/usr/netstation/doc/NSBGuide.html** file.

The documentation for IBM Network Station Runtime Environment for RS/6000 also includes:

- *IBM Network Station Runtime Environment for RS/6000 System Administrator's Guide*
- *IBM Network Station Runtime Environment for RS/6000 User's Guide*

The IBM Network Station Runtime Environment for RS/6000 documentation is available only on the installation media and from the following World Wide Web page :

<http://www.as400.ibm.com/networkstation/rs6000>

The documentation is not separately orderable.

You will also find these books useful.

For additional information about the IBM Network Station:

- *IBM Network Station Use (SA41-0036)*. Information about the IBM Network Station hardware, valid for all platforms.
- IBM Network Station documentation for the AS/400 platform:
 - *IBM Network Station Manager for AS/400 (SC41-0632)*
- IBM Network Station documentation for the S/900 platform:

- *IBM Network Station Manager for S/390* (SC31-8546)
- *IBM Network Station—Getting Started* (SG24-4954). While this book was written for IBM Network Station in the S/390 environment, much of the information applies to all platforms.

Books listed here provide useful information about working in AIX Version 4, X Windows, and the CDE environment.

For information about installing and managing the AIX operating system and TCP/IP:

- *AIX Version 4.2 Installation Guide* (SC23-1924)
- *AIX Version 4 System Management Guide: Operating System and Devices* (SC23-2525)
- *AIX Version 4 System Management Guide: Communications and Networks* (SC23-2526)

For information about printing in the AIX environment:

- *AIX Version 4 Guide to Printers and Printing* (SC23-2783)
- *Adapters, Device, and Cable Information for Micro Channel Bus Systems* (SC23-2764)

For information about X Windows:

- *AIXWindows Desktop Advanced User's and System Administrator's Guide* (SC23-2671)
- *Volume 8: X Window System Administrator's Guide* (Sebastopol, CA: O'Reilly & Associates, Inc.)

For information about the CDE:

- *AIX V4.1 CDE: User's Guide* (SC23-2793)
- *AIX V4.1 CDE: Advanced User's and System Administrator's Guide* (SC23-2795)
- *AIX V4.1 CDE: Application Builder User's Guide.* (SC23-2785)
- *AIX V4.1 CDE: Desktop Kornshell User's Guide* (SC23-2786)
- *AIX V4.1 CDE: Help System Author's and Programmer's Guide* (SC23-2787)
- *AIX V4.1 CDE: Programmer's Overview* (SC23-2789)
- *AIX V4.1 CDE: Programmer's Guide* (SC23-2790)
- *AIX V4.1 CDE: Style Guide & Certification Checklist* (SC23-2791)
- *AIX V4.1 CDE: Internationalization Programmer's Guide* (SC23-2788)
- *AIX V4.1 CDE: ToolTalk Messaging Overview* (SC23-2792)
- *AIX V4.X CDE: ToolTalk and Open Protocols* (SR23-7352)

Books identified with an order number (for example, SC23-2526) may be ordered as described below.

Ordering Publications

You can order publications from your sales representative or from your point of sale.

Use *AIX and Related Products Documentation Overview* for information on related publications and how to obtain them. The *AIX and Related Products Documentation Overview* is available:

- On the World Wide Web. Using your web browser, go to the IBM Home Page by opening the following URL:

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

On the IBM Home page, search on "AIX and Related Products Documentation Overview" to access the publication.

- In the Hypertext Information Base Library Version 1 for AIX. This online documentation is designed for use with the InfoExplorer hypertext retrieval system.
- As a hardcopy publication; use order number SC23-2456.

Part 1. System Administration Information

Chapter 1. Installation

This chapter includes system recommendations for running Network Station Browser on IBM Network Stations in the RS/6000 environment and instructions for installing the product on the RS/6000 server.

If you need information about general system requirements or installing the base IBM Network Station Runtime Environment for RS/6000 product, please refer to Chapter 1 in *IBM Network Station Runtime Environment for RS/6000 System Administrator's Guide*.

System Recommendations

We recommend 16MB of memory for IBM Network Stations running Network Station Browser. If Java applets are to be run, we recommend 24MB of memory. Individual requirements will vary depending on how many applications are running on your IBM Network Station when the browser is invoked.

Installing Network Station Browser

1. Use the FastPath shortcut to open the System Management Interface Tool (SMIT) Install/Update From All Available Software menu:

```
smitty install_selectable_all
```

OR if you prefer to work in the graphical SMIT interface, type:

```
smit install_selectable_all
```

2. Select an input device or directory by choosing from the selections displayed when you use the List function.
3. To select the software you need to install, use the List function to display a list of all available software on the input device or directory. Use the Find function to search on `netstation.nsb`.
 - If you are installing the Worldwide 40 bit encrypted version of Network Station Browser (5648-B08), select and install **netstation.nsb**.
 - If you are installing the U.S.-only 128 bit encrypted version of Network Station Browser (5648-B18), select and install **netstation.nsb-us**.
4. It is not necessary to reboot the RS/6000 server following installation of Network Station Browser. However, the IBM Network Stations must be rebooted before users attempt to launch the browser.

Note: If both versions are installed, both **nsbe128.nws** and **nsbe40.nws** will be resident in the `/usr/netstation/mods` directory. The version installed last will be linked to `/usr/netstation/mods/nsbe.nws`, the executable that runs when a user launches the browser.

Chapter 2. Configuration

This chapter describes tasks to configure the IBM Network Station Runtime Environment for RS/6000 Network Station Browser on the RS/6000 server.

If you need information about configuring the base IBM Network Station Runtime Environment for RS/6000 product, please refer to *IBM Network Station Runtime Environment for RS/6000 System Administrator's Guide*.

Note: The IBM Network Station must be operating within a CDE or XDM host environment for the Network Station Browser to function properly.

Setting Preferences

Customizing the preference files is done by four mechanisms:

- The `/usr/netstation/bin/nsconf` script is modified during installation; preferences that are known at boot time are set by `/usr/netstation/bin/nsconf`. ***This requires no intervention by the system administrator.***

Note: For additional information about the `/usr/netstation/bin/nsconf` script, see Chapter 2 of *IBM Network Station Runtime Environment for RS/6000 System Administrator's Guide*. For information about changing boot time preferences by modifying `/usr/netstation/configs/local.nsm`, see Chapter 3 of *IBM Network Station Runtime Environment for RS/6000 System Administrator's Guide*.

- Preferences that are not known until user login time, but do not have to be user configurable, are managed by modification of the `Xstartup/GiveConsole` script during installation. ***This requires no intervention by the system administrator.***
- Preferences that are user configurable are set by the `/usr/netstation/bin/NSBconf` script, which sets the environment variables listed in the "Setting preferences using NSBconf" section of this chapter. The system administrator creates global default settings for these variables. Individual users may modify the settings for their own browser sessions only.
- Some preferences related to printing, cache size, and other browser-related variables are set by modifying the `/usr/netstation/nsm/SysDefaults/NSB/pref` file. See "Setting preferences using pref" on page 6 for details. Only a system administrator can set these preferences; `pref` file variables are set globally.

Setting preferences using NSBconf

Preferences that are user configurable are set by the `/usr/netstation/bin/NSBconf` script. As system administrator, you set the variables for all IBM Network Station users. Users may modify their own preferences by running the same script; each user may only modify his or her own preferences.

When the `/usr/netstation/bin/NSBconf` script is run, a `.nsbrc` file is created and resides in the user's home directory on the server. The preferences defined in this file take effect when the user logs in.

This is the procedure to use `/usr/netstation/bin/NSBconf` to set user configurable variables:

1. At the command line, type:
`/usr/netstation/bin/NSBconf`
2. Choose a specific user from the displayed list by typing `/home/user_ID` at the prompt, or select all users by typing `all`.
3. The following menu is displayed.

```
Would you like to:
1. Set/Change Browser HTTP PROXY preferences
2. Set/Change Browser FTP PROXY preferences
3. Set/Change Browser GOPHER PROXY preferences
4. Set/Change SOCKS preferences
5. Set/Change Browser HOME PAGE
6. Set/Change Browser EMAIL preferences
7. Allow Browser encryption (required only if you utilize SSL, Mailto or
   gopher)
8. Exit this Program.

Please select one of the above (1-8):
```

4. Select the menu choices one at a time and enter information in response to the prompts. Some menu choices require more than a single response.

You are not required to enter information if none is needed in your network configuration. For example, if you have a SOCKS server, you probably don't need to provide PROXY information.

See Appendix A, "Parameters Set by NSBconf" on page 17 for additional information about the parameters set by `/usr/netstation/bin/NSBconf`.

5. Once you've provided all the preference information that's needed in your environment, type 8 to exit the program.

The user must log out and log back in for the preferences set by the `/usr/netstation/bin/NSBconf` script to take effect.

Note: If you want to assign preferences to a group of users (but not to all users on your server), you can use the `/usr/netstation/bin/NSBconf` script to create a `.nsbrc` file for one user, then copy that file from the user's home directory to the home directories of other users in the group.

Setting preferences using pref

Some preferences are set by creating a **pref** file in the `/usr/netstation/nsm/SysDefaults/NSB` directory. These correspond to specifications sometimes set by users from the browser — for example, cache size, printing parameters, image download defaults, and Javascript enablement. In a Network Station Browser session, select **Edit** from the menu bar, then select **User Preferences**. In this environment, the "grayed out" items are set by the system administrator modifying the **pref** file.

The default settings for these preferences are set at installation and are in the `/usr/netstation/SysDefaults/NSB/pref` file. If you want to modify these settings, copy the **pref** file to the `/usr/netstation/nsm/SysDefaults/NSB` directory and edit it in the new directory; you cannot write to the **pref** file in the original directory.

See Appendix B, "Parameters Set by Modifying pref" on page 19 for additional information about the parameters set by modifying the `/usr/netstation/nsm/SysDefaults/NSB/pref` file.

Exporting \$HOME

For security reasons, although \$HOME export is required for Network Station Browser to work on IBM Network Stations, a user's home directory is not automatically exported to the network station when **Xstartup** is run. The system administrator must export \$HOME for each user as part of setting up users to launch Network Station Browser on IBM Network Stations.

This is the procedure:

1. Use the FastPath shortcut to open the System Management Interface Tool (SMIT) Add a Directory to Exports List screen:

```
smitty mknfsexp
```

OR if you prefer to work in the graphical SMIT interface, type:

```
smit mknfsexp
```

2. Enter \$HOME for the user in the PATHNAME of directory to export field. While it's not necessary to change the default information in the screen's other fields, you may make changes to any field except MODE to export directory; this must be set to the default read-write.

Repeat for all users who have a home directory on the server and who want to run Network Station Browser on their IBM Network Stations.

Warning: If you'll be launching Network Station Browser as root, the browser will require that / be exported as \$HOME for root; this is a potential security exposure.

The following error message displays if a user tries to launch Network Station Browser before his or her \$HOME is exported:

```
$HOME must be exported in order for the NSB to work properly. Please
notify your Systems Administrator.
```

The IBM Network Station attempts to mount the user's \$HOME directory upon logging in to the RS/6000 through CDE or XDM.

Part 2. User Information

Chapter 3. Using Network Station Browser

This chapter includes information about starting Network Station Browser and using the browser's help system.

Starting Network Station Browser

Note: This is the supported environment for running the Network Station Browser in the RS/6000 environment:

- A local window manager (wm) is not running on the RS/6000 server.
- The IBM Network Station user is logged in to an RS/6000 using CDE or XDM.

Running the browser outside this environment may cause an IBM Network Station kernel panic.

To start Network Station Browser on your IBM Network Station, type at the command line:

```
nsb client_name
```

where *client_name* is the name of your IBM Network Station.

It is possible that the following message will display the first time you try to launch the browser:

```
$HOME must be exported in order for the NSB to work properly. Please  
notify your Systems Administrator.
```

If this message displays, your system administrator needs to export your home directory so that you can launch Network Station Browser.

Note: Invoking the session as follows allows the Network Station Browser to be displayed on another IBM Network Station or server:

```
rsh client_name nsb -display host
```

where *client_name* is the name of your IBM Network Station and *host* is the display X Server on which to open a connection.

If you need general information about starting clients on the IBM Network Station or other general information about using the IBM Network Station, please refer to *IBM Network Station Runtime Environment for RS/6000 User's Guide*.

Using Help

Once you've started the Network Station Browser, you can access the browser's help information by selecting **Help** from the menu bar, then selecting **Help page** to display the IBM Network Station Browser Help Home Page.

Note: You may see references to IBM Network Station Manager (NSM) in the browser's menus and in the Help system. Please disregard these references; IBM

Network Station Manager is not supported in the RS/6000 environment in this browser release.

Chapter 4. Configuration (optional)

Your system administrator will perform all the setup tasks required for you to use the Network Station Browser. If you wish, you may modify some additional preferences.

Setting preferences from the Edit menu

Some preferences are changed through browser menus. Launch Network Station Browser and select **Edit** from the browser's menu bar, then select **User Preferences**. You can change any variable that's not "grayed out" — for example, you can set fonts and colors.

"Grayed out" (unselectable) variables are set globally and may only be modified by your system administrator.

Notes:

1. Although you are able to select Edit >User Preferences >Miscellaneous >Preferred Languages, English only is supported in this browser release.
2. When you select the Edit menu, the last item in the menu is **IBM Network Station Manager Preferences**. IBM Network Station Manager is not supported in the RS/6000 environment in this browser release.

Setting preferences using NSBconf

Other preferences may be changed using a menu invoked from the command line. The environment variables that may be modified using the script are listed below and described further in Appendix A, "Parameters Set by NSBconf" on page 17.

1. At the command line, type:
`/usr/netstation/bin/NSBconf`
2. A list of the home directories of all users on the system is displayed, and you are prompted to choose a user from the list. You can only modify the preferences for yourself, so type at the command line `/home/your_user_ID`.
3. The following menu is displayed.

```
Would you like to:
1. Set/Change Browser HTTP PROXY preferences
2. Set/Change Browser FTP PROXY preferences
3. Set/Change Browser GOPHER PROXY preferences
4. Set/Change SOCKS preferences
5. Set/Change Browser HOME PAGE
6. Set/Change Browser EMAIL preferences
7. Allow Browser encryption (required only if you utilize SSL, Mailto or
gopher)
8. Exit this Program.

Please select one of the above (1-8):
```

4. Select the menu choice you want to modify and enter information in response to the prompts. Some menu choices require more than a single response.

See Appendix A, "Parameters Set by NSBconf" on page 17 for additional information about the parameters set by **/usr/netstation/bin/NSBconf**.

5. Once you've made your changes, type 8 to exit the program.
6. Log out and log back in to your IBM Network Station Runtime Environment for RS/6000.

You'll only need to make the changes once; the information will be stored in a file called **.nsbrc** in your home directory on the server, and will take effect each time you log in.

If you need general information about configuring environment variables, refer to *IBM Network Station Runtime Environment for RS/6000 User's Guide*, Chapter 3, X Server Preferences.

Part 3. Appendixes

Appendix A. Parameters Set by NSBconf

When you invoke the `/usr/netstation/bin/NSBconf` script and select a user, the following menu is displayed.

```
Would you like to:
1. Set/Change Browser HTTP PROXY preferences
2. Set/Change Browser FTP PROXY preferences
3. Set/Change Browser GOPHER PROXY preferences
4. Set/Change SOCKS preferences
5. Set/Change Browser HOME PAGE
6. Set/Change Browser EMAIL preferences
7. Allow Browser encryption (required only if you utilize SSL, Mailto or
gopher)
8. Exit this Program

Please select one of the above (1-8):
```

1. Set/Change Browser HTTP PROXY preferences

HTTP PROXY is used to access the World Wide Web through a firewall.

If you choose menu option 1, three responses are prompted:

- Enter HTTP PROXY HOST Name:
- Enter HTTP PROXY HOST TCP/IP PORT Number:
- Enter HTTP PROXY Domain that overrides the Proxy:

2. Set/Change Browser FTP PROXY preferences

FTP PROXY runs the FTP server daemon.

If you choose menu option 2, three responses are prompted:

- Enter FTP PROXY HOST Name:
- Enter FTP PROXY HOST TCP/IP PORT Number:
- Enter FTP PROXY Domain that overrides the Proxy:

3. Set/Change Browser GOPHER PROXY preferences

GOPHER PROXY is used to support gopher network resource requests.

If you choose menu option 3, three responses are prompted:

- Enter GOPHER PROXY HOST Name:
- Enter GOPHER PROXY HOST TCP/IP PORT Number:
- Enter GOPHER PROXY Domain that overrides the Proxy:

4. Set/Change Browser SOCKS preferences

The SOCKS server runs the SOCKS daemon, which approves requests outside the local network to a remote network resource.

If you choose menu option 4, two responses are prompted:

- Enter SOCKS Host Name:
- Enter SOCKS Port:

5. Set/Change Browser HOME PAGE

Sets the default home page that loads when a user launches IBM Network Station. Must be entered as a URL (Uniform Resource Locator).

If you choose menu option 5, one response is prompted:

- Enter Home Page:

6. Set/Change Browser EMAIL preferences

Sets the e-mail server, the e-mail address, and the individual's actual name.

If you choose menu option 6, three responses are prompted:

- Enter SMTP Server:
- Enter email user id:
- Enter full name of email user:

Note: In this release, users may send mail from the browser; users may not receive mail through the browser.

7. Allow Browser encryption (required only if you utilize SSL, Mailto or gopher)

If you choose menu option 7, one response is prompted:

- Do you want to use encryption (TRUE/FALSE)?:

If you respond TRUE to this prompt, **/usr/netstation/mods/nsbe.nws** is run when a user launches Network Station Browser; if you respond FALSE, **/usr/netstation/mods/nsb.nws** is launched.

Note: Mailto and gopher are not supported in the nonencrypted browser. This is a limitation of the browser.

8. Exit this Program.

Choosing menu option 8 exits the **/usr/netstation/bin/NSBconf** program.

Appendix B. Parameters Set by Modifying pref

These parameters may be modified by creating and editing the `/usr/netstation/nsm/SysDefaults/NSB/pref` file, as described in “Setting preferences using pref” on page 6. Only the system administrator can modify this file.

| Environment Variable | Default Value | Description |
|------------------------------------------|---------------|------------------------------------------------------------------------|
| NSBAAAAutoLoadImages | TRUE | Automatically load images when loading a new web page |
| Disk_CacheAAAmain_cache_kb_size | 5,000 | Maximum size of disk cache in kilobytes |
| Unix_TCPAAAmax_connections | 5 | Maximum number of TCP/IP connections the browser can open concurrently |
| PrintCommandAAAPrint_Left_Margin | 0.5 | Left margin (inches) when printing content to printer |
| PrintCommandAAAPrint_Right_Margin | 0.5 | Right margin (inches) when printing content to printer |
| PrintCommandAAAPrint_Top_Margin | 0.5 | Top margin (inches) when printing content to printer |
| PrintCommandAAAPrint_Bottom_Margin | 0.5 | Bottom margin (inches) when printing content to printer |
| PrintCommandAAAPrint_Left_Header_String | &w | Format string for left header (20 char) |
| PrintCommandAAAPrint_Right_Header_String | &p | Format string for right header (20 char) |
| PrintCommandAAAPrint_Left_Footer_String | &D | Format string for left footer (20 char) |
| PrintCommandAAAPrint_Right_Footer_String | &t | Format string for right footer (20 char) |
| PrintCommandAAAPaper_Size | 0 | Default paper size. Letter is default (0-6) |
| NSBAAAjavascript_active | TRUE | Allow Javascript routines to be executed when web content is loaded |
| NSBAAAapplet_active | TRUE | Allow Java applets to be executed when included in web content |
| NSBAAAclient_override | FALSE | Do not change the default setting |
| NSBAAAShow_Tool_Bar | TRUE | Have the browser display the toolbar |

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