

New Era of Networks

A Sybase Company

Installation Guide

New Era of Networks Adapter for Flat Files

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Introduction

This chapter includes the following sections:

- *About This Document*
- *Integration Server Support*
- *Transport Support*
- *Settings for Integration Servers*
- *Supported Platforms*
- *Disk Space and Memory Requirements*
- *New Era of Networks Adapter for Flat Files Documentation Set*
- *Product Support & Education*

About This Document

This document describes how to install New Era of Networks Adapter for Flat Files for the first time. To upgrade a current installation of New Era of Networks Adapter for Flat Files, contact Technical Support as shown in the section below, *Product Support & Education* on page 6.

The primary user of this document is the integration systems engineer who is responsible for the installation of New Era of Networks Adapter for Flat Files.

This guide is organized into the following chapters:

- *Chapter 1: Introduction* lists supported integration servers, platforms and databases, disk space and memory requirements, and provides documentation, technical support and product education information.
- *Chapter 2: Windows Server Installation* provides steps to prepare for and run an installation on Windows and verify the environment variables.
- *Chapter 3: Solaris Installation* details the steps to prepare for and run an installation on Solaris and verify the environment variables.
- *Chapter 4: HP-UX Installation* provides steps to prepare for and run an installation on HP-UX and verify the environment variables.
- *Chapter 5: AIX Installation* outlines the steps to prepare for and run an installation on AIX and verify the environment variables.
- *Chapter 6: Uninstalling New Era of Networks Adapter for Flat Files* provides the steps for uninstalling the product from the server.
- *Glossary* contains a Glossary listing terms used in describing adapters.

Integration Server Support

New Era of Networks Adapter for Flat Files is compatible with the following integration servers:

- e-Biz Integrator, versions 3.2, 3.6
- MQSeries Integrator, versions 2.0.1, 2.0.2
- WebSphere MQ Integrator, version 2.1
- e-Biz 2000, version 3.4.1

Transport Support

New Era of Networks Adapter for Flat Files uses Open Transport (OT) 2.3. Open Transport 2.3 supports the following transports:

- e-Biz 2000 Driver for Open Transport 2.3
- EMQ Driver for Open Transport 2.3
- File Driver for Open Transport 2.3
- MQSeries Driver for Open Transport 2.3
- MSMQ Driver for Open Transport 2.3

Settings for Integration Servers

The following table provides information that you need when setting up your configuration files. Knowing the driver, schema loader, and serializer that is used with your integration server guides you in selecting configuration keys for your configuration files.

Integration Server	Open Transport Driver	Schema Loader	Serializer
e-Biz Integrator 3.2, 3.6	EMQ MQSeries (use RFH2) MSMQ File	NNT54 Schema-Loader	NCFSerializer XMLSerializer
MQSI 2.0.1,2.0.2	MQSeries (use RFH2)	NNT54 Schema-Loader	NCFSerializer XMLSerializer
WMQI 2.1	MQSeries (use RFH2)	NNT54 Schema-Loader	NCFSerializer XMLSerializer
e-Biz 2000 3.4.1	e-Biz 2000	eBizSchemaPlugin	XMLSerializer

Supported Platforms

Server

Operating System	DBMS	Compiler
Windows NT 4.0 (Service Pack 5 or higher) Windows 2000 (Service Pack 2 or higher)	Microsoft SQL Server 6.5 Microsoft SQL Server 7 Microsoft SQL Server 2000 Oracle 8.0.x Oracle 8.1.6 Oracle 8.1.7 DB2 UDB 6.2	Microsoft Version 6.0 C++
Solaris 7	Sybase ASE 11 Sybase ASE 12	SparcWorks 4.2 C++
HP-UX 11	Oracle 8.0.x Oracle 8.1.6 Oracle 8.1.7	HP C++A 10.34
IBM AIX 4.3.2, 4.3.3	Oracle 8.0.x Oracle 8.1.6 Oracle 8.1.7 DB2 UDB 6.2	VisualAge C++Professional for AIX Version 5

Disk Space and Memory Requirements

Installation Media: CD-ROM

Server Requirements

Disk space: 50 MB for New Era of Networks Adapter for Flat Files executables

Memory: 256 MB.

New Era of Networks Adapter for Flat Files Documentation Set

This section describes the available documentation.

Cross-Platform Documentation

The New Era of Networks Adapter for Flat Files documentation set includes:

- *Installation Guide*
- *User Guide*
- *Feature Guide*
- *Release Bulletin*

Related Documentation

The following documents are referenced in this document set to supply you with specific information that supports this product:

- *MQSeries Driver for Open Transport Configuration Guide*
- *MSMQ Driver for Open Transport Configuration Guide*
- *EMQ Driver for Open Transport Configuration Guide*
- *File Driver for Open Transport Configuration Guide*
- *e-Biz 2000 Driver for Open Transport Configuration Guide*

Other related documentation is available from New Era of Networks, Sybase, and IBM. Refer to other documentation from each of these companies for more detail about use of applications relevant to this product.

To access the Technical Library Product Manuals Web site, go to Product Manuals at <http://www.sybase.com/support/manuals>.

Document Conventions

The following document conventions are used in this guide.

Text	Convention	Example
code	courier	<user ID> <password>
command line display	courier	The message successfully parsed.
command line entry	courier bold	NNFAD-t
command line prompt	courier	Enter the input file name:
book names	bold, italic	<i>User Guide</i>
chapter and section names	italic	<i>NT Installation</i>

Product Support & Education

For more information on Support Services, education, and consulting services, refer to the *Customer Services Reference Guide*.

Windows Server Installation

This chapter describes how to prepare for and run an installation on a Windows NT server. It includes the installation of all components. Once installed, New Era of Networks Adapter for Flat Files can be used with a New Era of Networks Rules and New Era of Networks Formatter repository.

This chapter includes the following:

- *Preparing for a Windows Installation*
- *Installing New Era of Networks Adapter for Flat Files*
- *Verifying Environment Variables*

The steps to follow after installing the server files are:

- Verifying the installation by ensuring all the necessary sub-directories are in place using the procedures documented at the end of the installation chapter.
- Configuring your adapter using the *New Era of Networks Adapter for Flat Files User Guide*.

Preparing for a Windows Installation

This section presents the steps you should take before you run the installation procedure:

- *Installing Required Software*
- *Verifying the Database Environment*
- *Uninstalling Previous Releases*

NOTE:

Review the printed *Release Bulletin* included with this package for any last-minute updates to this *Installation Guide*.

Installing Required Software

Supported Platforms on page 4 identifies the operating systems, DBMS applications, and compilers required for this product. Use that table to identify which software is required for this installation.

At the minimum you need the following software installed on your server:

- Windows operating system.
- DBMS software for storage of formats on the integration server.
- Compiler if you plan to write any of your own code.
- One of the integration servers listed in *Integration Server Support* on page 2.

Verifying the Database Environment

New Era of Networks Adapter for Flat Files accesses a designated database through the integration engine on the server where the integration server resides. Verify that you can connect to this database before installing the New Era of Networks Adapter for Flat Files software. For additional information about the integration server database environment, see the Installation Guide for the integration server.

Uninstalling Previous Releases

If you currently have a previous release of New Era of Networks Adapter for Flat Files installed, you may want to uninstall that version before installing the current release. Installation of the current release does not overwrite the previous installation and does not affect any files you may have added.

Installing New Era of Networks Adapter for Flat Files

It is recommended that you perform a typical installation, which automatically installs all components and their dependencies.

To install New Era of Networks Adapter for Flat Files using the InstallShield Wizard:

1. Insert the CD into the CD-ROM drive and do one of the following:
 - If your machine is configured to autorun from the CD-ROM, the InstallShield Wizard automatically starts.
 - If your machine is not configured to autorun from the CD-ROM, do the following:
 - a. Choose **Start**→**Run** from the Windows Start menu.
 - b. In the Run dialog box, browse to locate the following file:

```
<CD drive>:\n6nrf54_<*>\Setup.exe
```

The New Era of Networks Components Installer window appears.

2. Carefully read the License Agreement that appears and respond to it appropriately.
3. To begin the installation process, click **Next**.

The Install New Era of Networks Components window appears.

4. To select components for installation, choose one of the following:
 - To accept the default installation (all components), click **Next**.
 - To install only selected components, deselect the components you do not want to install, and click **Next**.

The Setup Type window appears.

NOTE:

Install all components to make full use of the product. If you are reinstalling one of the components, deselect the components that you do not want to install, and click **Next**.

5. The Setup Type window appears for each component being installed. The options are:
- Typical install for all components?
 - Customize selected component installs?

The default and preferred method to install the full group of packages is Typical.

If you select:	Then:
Typical install	<ol style="list-style-type: none"> 1. Click Next to begin the installation of all product components. 2. Click Next on the Select Components Root Path window to accept the default location for the installation and its dependencies. The default location is: C:\nnsy This is the default location for all New Era of Networks products. 3. The Setup Status window appears for each component installation. After component installation is complete, the following prompt appears: <i>Install default New Era of Networks database schema now?</i>
Custom install	<ol style="list-style-type: none"> 1. The Setup type window appears for each component being installed. The options are: <ul style="list-style-type: none"> ■ Typical - installing all of the required parts of the component. ■ Compact - installing the same as Typical except that the documentation is not installed. ■ Custom - allowing the user to decide what parts of the component to install. <p>The default and preferred method is Typical. Click Next to begin the installation of that component.</p> 2. Click Next to accept the selected setup type for each component when the window appears. 3. After each component is installed, the Select Components Program Folder appears for identification of the Start menu's program folder. It is suggested that all New Era of Networks products appear under the default folder of: New Era of Networks 4. Click Next to accept the default folder name.

To complete the installation process and restart your computer, click **Finish**.

Verifying the Installation

Verify that the following sub-directories are installed for New Era of Networks Adapter for Flat Files.

C:\nnsyl\

Subdirectory	Description
bin\	executable and shared libraries for New Era of Networks products
books\	user documentation
ffa38\examples\	sample makefile and configuration files
ffa38\nnscripts\	used for AWK scripts
share\	resources for XML serializer/deserializer
NNSYCatalogues\en_US	language designation and message catalogues

Verifying Environment Variables

The Windows installation process for New Era of Networks products automatically sets the system environment variables as described in the following table.

To verify that the environment variables are correctly set:

1. Go to **Settings**→**Control Panel**→**System**.
2. Select the Environment tab.
3. Use the information provided in the following table to verify that the values are correct.

Variable	Value
NNSY_ROOT	C:\nnsy
ICU_DATA	C:\nnsy\share\icu\data
PATH	Includes: <ul style="list-style-type: none">■ C:\nnsy\bin■ MQSeries bin directory, typically C:\MQM\BIN

Solaris Installation

This chapter describes how to prepare for and run an installation on Solaris. It includes the installation of all components.

The installation process includes the following procedures:

- *Preparing for a Solaris Installation*
- *Installing New Era of Networks Adapter for Flat Files*
- *Setting Environment Variables*

After installing the server files, the post-installation process includes:

- Verifying the installation by ensuring all the necessary sub-directories are in place using the procedures documented at the end of the installation chapter.
- Configuring your adapter using the *New Era of Networks Adapter for Flat Files User Guide*.

Preparing for a Solaris Installation

This section presents the steps you should take before you run the installation procedure:

- *Installing Required Software*
- *Verifying the Database Environment*
- *Uninstalling Previous Releases*

NOTE:

Review the printed *Release Bulletin* included with this package for any last-minute updates to this *Installation Guide*.

Installing Required Software

Supported Platforms on page 4 identifies the operating systems, DBMS applications, and compilers required for this product. Use the table in that section to identify which software is required for installation.

On the server, you need the following:

- Solaris operating system
- DBMS server database application
- Compiler (if you plan to write any of your own code).

Verifying the Database Environment

New Era of Networks Adapter for Flat Files accesses a designated database through the integration engine where the integration server resides. Verify that you can connect to this database before installing the New Era of Networks Adapter for Flat Files software. For additional information about the integration server database environment, see the Installation Guide for the integration server.

Uninstalling Previous Releases

If you currently have a previous release of New Era of Networks Adapter for Flat Files installed, you may want to uninstall that version before installing the current release. Installation of the current release does not overwrite the previous installation and does not affect any files you may have added.

Installing New Era of Networks Adapter for Flat Files

If you are installing the product for the first time, accept the default setting to install all packages. This selection installs all components and associated dependencies and allows you to make full use of the product. Use the option to install selected packages only if you are reinstalling a specific component.

To start pkgadd and install New Era of Networks Adapter for Flat Files:

1. Log in as root.
2. Change to the directory where the CD-ROM is mounted.
3. To begin the installation, type the following and press ENTER:

```
pkgadd -d ./nnsy
```

The package selection screen displaying the components available for installation appears.

4. At the prompt, do one of the following:
 - To accept the default (all packages), press ENTER.
 - To install selected packages, type the numbers of the packages you want to install. Separated each entry with a comma (for example: 3, 4, 7, 10, 14) and press ENTER.

NOTES:

If you are installing the product for the first time, install all components to make full use of the product.

If you are reinstalling a component, identify the specific component package.

The installation program begins processing and a verification screen appears for each component.

5. At the following prompt, type **Y** (Yes) or **N** (No) and press ENTER to confirm the installation of each component:

Do you want to continue with the installation of <component name>?

The following message appears to confirm the installation of each component:

Installation of <component name> was successful.

The package selection screen reappears after installation of all components is complete.

6. In the Package Selection screen, type **q** and press ENTER to quit the installation program.
7. Verify that the following sub-directories are installed for <product install>.

/opt/nnsy/

Subdirectory	Description
bin/	Executables and shared libraries for New Era of Networks products. Any specifically applicable to SQL will be located in the NNmssql65\ subdirectory of bin.
books/	User documentation in PDF format for online viewing. This documentation is formatted for best viewing on-screen but may be printed if desired.
share/	Resources for XML serializer/deserializer.
ffa38/examples/	sample configuration files
ffa38/nnscripsts/	Used for AWK scripts.
NNSYCatalogues/en_US	Message catalogues (by country) for log file entries.

Setting Environment Variables

After installation and before installing the database schema, you must create the environment variables identified in the following table.

To set the environment variables:

Choose one of the following:

- Add each variable to your profile using the command in the table.
- Enter the information on the command line each time you start and executable.

WARNING!

When you are making changes to the paths, type the following to prevent overwriting all data currently in the path:

For PATH:

```
export PATH=$NNSY_ROOT/bin:$PATH
```

New Era of Networks Product Environment Variables

Variable	Command Syntax
NNSY_ROOT	export NNSY_ROOT=/opt/nnsy
ICU_DATA	export ICU_DATA=/opt/nnsy/share/icu/data
PATH	export PATH=/opt/nnsy/bin:\$PATH
LD_LIBRARY_PATH	export LD_LIBRARY_PATH=/opt/nnsy/bin/ :\$LD_LIBRARY_PATH

Verifying the Environment Variables

Using the **env** command, verify that the system variables for your operating environment are set properly:

- New Era of Networks product environment variables identified in *New Era of Networks Product Environment Variables* on page 17.

HP-UX Installation

This chapter describes the steps to prepare for and run an installation on HP-UX.

The installation process includes the following procedures:

- *Preparing for an HP-UX Installation*
- *Installing New Era of Networks Adapter for Flat Files*
- *Setting Environment Variables*

After installing the server files, the post-installation process includes:

- Verifying the installation by ensuring all the necessary sub-directories are in place using the procedures documented at the end of the installation chapter.
- Configuring your adapters using the *New Era of Networks Adapter for Flat Files User Guide*.

Preparing for an HP-UX Installation

This section presents the steps you should take before you run the installation procedure:

- *Installing Required Software*
- *Verifying the Database Environment*
- *Uninstalling Previous Releases*

NOTE:

Review the printed *Release Bulletin* included with this package for any last-minute updates to this *Installation Guide*.

Installing Required Software

Supported Platforms on page 4 identifies the operating systems and DBMS applications required for this product. Use that table to identify which software is required for installation.

At the minimum you need the following software installed on your server:

- HP-UX operating system
- DBMS server database application
- Compiler (if you plan to write any of your own code).

Verifying the Database Environment

New Era of Networks Adapter for Flat Files accesses a designated database through the integration server. Verify that you can connect to this database before installing the New Era of Networks Adapter for Flat Files software. For additional information about the integration server database environment, see the Installation Guide for the integration server.

Uninstalling Previous Releases

If you currently have a previous release of New Era of Networks Adapter for Flat Files installed, you may want to uninstall that version before installing the current release. Installation of the current release does not overwrite the previous installation and does not affect any files you may have added.

Installing New Era of Networks Adapter for Flat Files

If you are installing the product for the first time, accept the default setting to install all components. This selection installs all associated component dependencies and allows you to make full use of the product. Use the option to install selected components only if you are reinstalling a specific component.

To install New Era of Networks Adapter for Flat Files using `swinstall`:

1. Log in as root.
2. Insert the CD into the CD-ROM drive and mount it to the appropriate directory.

Example:

```
mount -r-o cdcase -F cdfs/dev/fsk/clt2d0 /cdrom
```

Or simply:

```
mount /cdrom
```

3. If you are running in an X11 environment, set the DISPLAY environment variable.

Example:

```
export DISPLAY=xxx.xxx.xxx.xxx:0.0
```

4. To begin the installation operation, type the following and press ENTER:

```
swinstall
```

The SD Install Software Selection and the Specify Source windows appear.

5. In the Specify Source window, select **CDROM** and type the Source Host Name and Source Depot Path at Source Depot Type.

Source Depot Path example:

```
/{cdrom}/nnsy
```

where {cdrom} is the CD-ROM mounted in step 1.

6. Click **OK**.

The Specify Source window closes, and the SD Install - Software Selection window becomes active.

7. Choose one of the following:

- To install all the components of New Era of Networks Adapter for Flat Files, select **Actions**→**Mark for Install**.
- To install only selected components of New Era of Networks Adapter for Flat Files, do the following:
 - Double-click New Era of Networks Adapter for Flat Files. The SD - Install Software selection window indicates that you are viewing *Subproducts or Filesets: New Era of Networks Adapter for Flat Files* and components are displayed.
 - Select the components that you want to install.
 - From the menu bar, select **Actions**→ **Mark for Install**.
 - Double-click (go up) to return to the top. The SE Install - Software Selection window indicates you are viewing *Top (Bundles and Products)*.

TIP:

To simplify the component selection process, select all components, double-click New Era of Networks Adapter for Flat Files, deselect the components you do not want installed, and choose **Actions**→ **Unmark for Install**.

8. To change an install option, choose **Options**→**Change Options**.
9. To display the progress of the installation analysis, choose **Actions**→**Install (analysis...)**.
When the analysis is complete, the status displays *Ready* in the Install Analysis window.
If the analysis is not successful, an error window appears displaying the specific error. Do one of the following:
- To close the window, click **OK**.
 - To adjust the component selections or other install options, click **Cancel**, close the Install Analysis window, and adjust your component selections using step 7 in this procedure.
10. To review installation details:
- Click **Logfile** to view a log of the analysis.
 - Click **Disk Space Analysis** to view the disk space statistics.

11. Click **OK** to continue.

The Confirmation window appears.

12. Click **Yes** to start the installation.

When the installation completes, the status displays *Completed* in the Install Window.

13. From the Install window, do any of the following to review installation details:

- Click **Product Summary** to view the installation status of components.
- Click **Logfile** to view a log of actions that occurred.

14. Click **Done** to close the Install Window.

15. Choose **File**→**Exit** to close the SD Install - Software Selection window.

16. Verify that the following sub-directories are installed for e-Biz Integrator.

/opt/nnsy/

Subdirectory	Description
bin/	Executables and shared libraries for New Era of Networks products. Any specifically applicable to SQL will be located in the NNmssql65\ subdirectory of bin.
books/	User documentation in PDF format for online viewing. This documentation is formatted for best viewing on-screen but may be printed if desired.
share/	Resources for XML serializer/deserializer.
ffa38/examples/	sample configuration files
ffa38/nnscripsts/	Used for AWK scripts.
NNSYCatalogues/en_US	Message catalogues (by country) for log file entries.

Setting Environment Variables

After installation and before installing the database schema, you must create the environment variables identified in the following table.

To set the environment variables:

Choose one of the following:

- Add each variable to your profile using the command in the table.
- Enter the information on the command line each time you start and executable.

New Era of Networks Product Environment Variables

Variable	Command Syntax
NNSY_ROOT	<code>export NNSY_ROOT=/opt/nnsy</code>
ICU_DATA	<code>export ICU_DATA=/opt/nnsy/share/icu/data</code>
PATH	<code>export PATH=/opt/nnsy/bin:\$PATH</code>
LD_LIBRARY_PATH	<code>export LD_LIBRARY_PATH=/opt/nnsy/bin/:\$LD_LIBRARY_PATH</code>

WARNING!

When you are making changes to the paths, type the following (Korn Shell examples) to prevent overwriting all data currently in the path:

For PATH:

```
export PATH=$NNSY_ROOT/bin:$PATH
```

For SHLIB_PATH:

```
export SHLIBPATH=$NNSY_ROOT/BIN:$SHLIBPATH
```

Verifying the Environment Variables

Using the `env` command, verify that the system variables for your operating environment are set properly:

- New Era of Networks product environment variables identified in the *New Era of Networks Product Environment Variables* table.

AIX Installation

This chapter describes how to prepare for and run an installation on AIX. It includes the installation of all components.

The installation process includes the following procedures:

- *Preparing for an AIX Installation*
- *Installing New Era of Networks Adapter for Flat Files*
- *Setting Environment Variables*

After installing the server files, the post-installation process includes:

- Verifying the installation by ensuring all the necessary sub-directories are in place using the procedures documented at the end of the installation chapter.
- Configuring the system as described in the *User Guide*.

Preparing for an AIX Installation

This section describes the steps you should take before you run the installation procedure:

- *Installing Required Software*
- *Verifying the Database Environment*
- *Uninstalling Previous Releases*

NOTE:

Review the printed *Release Bulletin* included with this package for any last-minute updates to this *Installation Guide*.

Installing Required Software

Supported Platforms on page 4 identifies the operating systems and DBMS applications required for this product. Use this table to identify which software is required for installation.

At the minimum you need the following software installed on your server:

- AIX operating system
- DBMS server database application

Verifying the Database Environment

New Era of Networks Adapter for Flat Files accesses a designated database through the integration server. Verify that you can connect to this database before installing the New Era of Networks Adapter for Flat Files software. For additional information about the integration server database environment, see the Installation Guide for the integration server.

Uninstalling Previous Releases

If you currently have a previous release of New Era of Networks Adapter for Flat Files installed, you may want to uninstall that version before installing the current release. Installation of the current release does not overwrite the previous installation and does not affect any files you may have added.

Installing New Era of Networks Adapter for Flat Files

If you are installing the product for the first time, accept the default setting to install all packages. This selection installs all components and associated dependencies and allows you to make full use of the product. Use the option to install selected packages only if you are reinstalling a specific component.

NOTE:

To avoid overwriting any adapter files, install your integration server before you install New Era of Networks Adapter for Flat Files.

Installing New Era of Networks Adapter for Flat Files on AIX is a two-part process: mounting a directory on AIX and starting installp.

To mount a directory on AIX:

1. Insert the CD into the CD-ROM drive and mount it to the appropriate directory.

Example:

```
/mnt/cdrom
```

2. Set the DISPLAY variable to use the System Management Interface Tool (SMIT) GUI.
3. From the command line, type **smit**.
The SMIT GUI appears.
4. Click **System Storage Management**.
5. Click **File Systems**.
6. Click **Mount A File System**.
7. Respond to each of the prompts listed in the following table:

SMIT Prompt	Response
<i>File System</i>	Type the name of the file system or Select a file system from the list box
<i>Directory over which to mount?</i>	Enter your installation source directory. Enter this directory again when you receive the installation prompt: <i>INPUT device/directory for software</i> Note: The default is blank.
<i>Type of File System?</i>	Type the name of the file system or Select a file system from the list box
<i>Force the mount?</i>	Type No (default) if the mount point already exists. Type Yes to force the mount. If the mount point already exists, it will be corrupted.
<i>Remote node containing the file system to mount?</i>	Type a value.

SMIT Prompt	Response
<i>Mount as a removable file system?</i>	Type Yes if you are using a removable drive. Type No if you are not.
<i>Mount as a Read Only system?</i>	Type Yes to mount as a read only system.
<i>Disallow device access via this mount?</i>	Type Yes to disallow device access. Type No to allow device access.
<i>Disallow execution of suid and sqid programs in this file system?</i>	Type Yes to disallow execution of suid and sqid programs. Type No to allow execution of suid and sqid programs.

8. To execute the mount command, click **OK**.
9. When the mount has succeeded, click **Done**.
10. Return to the SMIT System Management window.

To start installp:

To install New Era of Networks Adapter for Flat Files, the system administrator must add an mqm group and user name.

1. From the SMIT System Management window, choose from the following options:
 - Software Installation and Maintenance
 - Install and Update Software
 - Install and Update from LATEST available Software
 - INPUT device/directory for software
2. At the following SMIT prompts, do one of the following:
 - Accept a default response or type your response in the box.
 - Click **LIST** to customize your selection.

SMIT Prompt	Response
<i>SOFTWARE to install</i>	Type _all_latest to install all components.
<i>PREVIEW only?</i>	Click No . If you click Yes , the install operation will not occur.
<i>COMMIT software updates?</i>	Click Yes .
<i>SAVE replaced files?</i>	Click No .
<i>AUTOMATICALLY install requisite software?</i>	Click YES . To install New Era of Networks Adapter for Flat Files, choose Yes at this prompt. You must then select No at the <i>OVERWRITE same or newer versions?</i> prompt.

SMIT Prompt	Response
<i>EXTEND file systems if space needed?</i>	Click Yes . If you already chose Yes for the <i>AUTOMATICALLY install requisite software?</i> prompt, click No .
<i>OVERWRITE same or newer versions?</i>	Click No . You can not choose the same response as you chose for <i>AUTOMATICALLY install requested software?</i>
<i>VERIFY install and check file sizes?</i>	Click Yes .
<i>Include corresponding LANGUAGE filesets?</i>	Click No .
<i>Detailed output?</i>	Click Yes .
(For AIX Version 4.3) <i>Process multiple volumes?</i>	Click No .

3. Click **OK** to continue.
4. At the following prompt, click **OK**:
ARE YOU SURE?
As the installation program runs, the status is displayed in an installation log.
5. Do one of the following:
 - If the status changes to *OK*, the installation is successful. Click **Done** to continue.
 - If the status changes to *Failed*, correct the failure and repeat steps 1-5.
6. To quit SMIT, click Exit.
7. Verify that the following sub-directories are installed for New Era of Networks Adapter for Flat Files.

/usr/lpp/nnsy/

Subdirectory	Description
bin/	Executables and shared libraries for New Era of Networks products. Any specifically applicable to SQL will be located in the NNmssql65\ subdirectory of bin.
books/	User documentation in PDF format for online viewing. This documentation is formatted for best viewing on-screen but may be printed if desired.
share/	Resources for XML serializer/deserializer.
ffa38/examples/	sample configuration files
ffa38/nnscripits/	Used for AWK scripits.
NNSYCatalogues/en_US	Message catalogues (by country) for log file entries.

Setting Environment Variables

After installation and before installing the database schema, you must create the environment variables identified in the following table.

To set the environment variables:

Choose one of the following:

- Add each variable to your profile using the command in the table.
- Enter the information on the command line each time you start an executable.

New Era of Networks Product Environment Variables

Variable	Command Syntax
NNSY_ROOT	export NNSY_ROOT=/usr/lpp/nnsy
ICU_DATA	export ICU_DATA=/usr/lpp/nnsy/share/icu/data
NNSY_CATALOGUE	export NNSY_CATALOGUE=/usr/lpp/nnsy/NNSYCatalogues/<locale name>
PATH	export PATH=/usr/lpp/nnsy/bin:\$PATH
LIBPATH	export LIBPATH=/usr/lpp/nnsy/bin:\$LIBPATH

WARNING!

When you are making changes to the paths, type the following to prevent overwriting all data currently in the path:

For PATH:

```
export PATH=$NNSY_ROOT/BIN:$PATH
```

For LIB_PATH:

```
export LIBPATH=$NNSY_ROOT/BIN:$LIBPATH
```

Verifying the Environment Variables

Using the `env` command, verify that the system variables for your operating environment are set properly:

- New Era of Networks product environment variables identified in *New Era of Networks Product Environment Variables* on page 30.

Uninstalling New Era of Networks Adapter for Flat Files

This chapter describes how to uninstall a previous version of New Era of Networks Adapter for Flat Files from a Windows, Solaris, HP-UX, or AIX server.

Uninstalling from a Windows Server

Before uninstalling New Era of Networks Adapter for Flat Files, you must manually delete all user files. The InstallShield wizard removes only the files and directories that were put there by the InstallShield.

To uninstall New Era of Networks Adapter for Flat Files components on Windows

1. From the Windows Control Panel, choose **Add/Remove Programs**.
2. Select the **Install/Uninstall** tab.
3. Scroll down and select **New Era of Networks Component Installer**.
4. Click **Add/Remove**.

The Components Installer window of InstallShield appears.

5. Click **Next** on the New Era of Networks Components Installer Welcome window to select the New Era of Networks Adapter for Flat Files components to remove or reinstall.
6. Select the following components from the list:
 - New Era of Networks Adapter for Flat Files (n9ffa38)
 - New Era of Networks Adapter for Flat Files Documentation 380 (n0ffa38b)
7. **ONLY** if you have no other New Era of Networks products installed, delete all of the components in the directory.

NOTE:

If you have multiple New Era of Networks products installed on your machine, the Component Installer displays all the products.

Select All allows maintenance on New Era of Networks Adapter for Flat Files and any other New Era of Networks component listed. This may include adapters, New Era of Networks Formatter, and New Era of Networks Rules components.

If you do not select all components and other components rely on a selected component, a warning message appears.

"xxxx depends on yy."

If you choose to remove yy, xxxx will become inoperative.

The Setup Type window appears for each component being removed. The options are:

- Perform maintenance on components.

This option enables removal of parts of each component or reinstallation of program components.
 - Remove all selected components.

This option bypasses any modification or repair options and performs an immediate removal of the selected components.
8. Select **Remove all selected components** to uninstall the selected components of New Era of Networks Adapter for Flat Files and click **Next**.
 9. Respond to the following window prompts if you are performing Maintenance on components:
 - a. The Maintenance window appears to identify the action to remove or reinstall the first selected component. The options are:

- **Modify** - select some or all of the parts of the selected component to uninstall.
- **Repair** - reinstall the selected program components.
- **Remove** - uninstall the selected program components.

The default method is **Modify**.

- b. Select **Remove** to delete all of the selected components and click **Next**.
 - c. Click **OK** on the confirmation prompt to completely remove the selected application and all of its components.
 - d. After removal of the first component, the Maintenance window appears to identify the action for the next component.
 - e. Repeat steps b and c for each component.
10. When all selected components are uninstalled, click **Finish**.
 11. Close the Add/Remove Programs Properties window.
 12. Check the C:\WINNT\nnsycomp.ics file to make sure that all components and dependencies were removed.
 13. Go to Windows Explorer and verify that the files for the deleted components are removed from the nnsy directories.

If all New Era of Networks products have been removed, leaving the nnsy directory empty, you must physically delete the nnsy directory to remove it from the drive.

Uninstalling from Solaris

To uninstall New Era of Networks Adapter for Flat Files from Solaris:

1. Login as root.
2. Use one of the following methods to view all software that is installed on your machine:
 - At the command prompt, type **pkginfo <package name>** and press **Enter**.
 - At the command prompt, type **pkgrm <package name>** and press **Enter**.

NOTES:

If you have multiple New Era of Networks products installed on your machine, the Component Installer displays all the products.

Select All allows maintenance on New Era of Networks Adapter for Flat Files and any other New Era of Networks component listed. This may include adapters, New Era of Networks Formatter, and New Era of Networks Rules components.

3. Select the following components from the list for removal:
 - NNSY Flat File Adapter 380_n (n9ffa38)
 - NNSY Flat File Adapter Documentation 380_n (n0ffa38b)
4. ONLY if you have no other New Era of Networks products installed, delete all of the components in the directory.
5. The following message appears:
6. Type **Y** and press enter.

When the component is removed, the following message appears:

Removal of <package name> was successful.

Uninstalling from HP-UX

To uninstall New Era of Networks Adapter for Flat Files from HP-UX:

1. Log on as root.
2. Type **swremove**.

The SD Remove Software Selection window appears.

NOTES:

If you have multiple New Era of Networks products installed on your machine, the Component Installer displays all the products.

Select All allows maintenance on New Era of Networks Adapter for Flat Files and any other New Era of Networks component listed. This may include adapters, New Era of Networks Formatter, and New Era of Networks Rules components.

3. Select the following components from the list for removal:
 - New Era of Networks Adapter for Flat Files (n9ffa38)
 - New Era of Networks Adapter for Flat Files Documentation 380 (n0ffa38b)
4. **ONLY** if you have no other New Era of Networks products installed, delete all of the components in the directory.
5. From the menu bar, select **Actions**→ **Mark for Remove**.
6. Select **Actions**→ **Remove (analysis...)**.
The Remove Analysis window appears. When the analysis is complete, the status reads *Ready*.
7. To view a log of the analysis, click **Logfile**, and to view the product components, click **Product Summary**. Click **Done** to exit either window.
8. To begin the uninstall, click **OK**. The Confirmation window appears.
9. To uninstall, click **OK**.
The Remove Window appears displaying the status of the uninstallation. When the uninstall is complete, the status reads *Completed*.
10. To view a log of the uninstall, click **Logfile**. Click **Done** to exit.
11. To close the SD Remove - Software Selection window, choose **File**→ **Exit**.

Uninstalling from AIX

To uninstall New Era of Networks Adapter for Flat Files from AIX:

1. Log on as root.
2. Type **smit**.
The main SMIT window appears.
3. From the SMIT window, choose **Software Installation and Maintenance**.
4. Choose **Software Maintenance & Utilities**→**Remove Installed Software**.

The Remove Installed Software window appears. Verify that the following options are displayed:

Option	Value
Name of Software	To remove New Era of Networks Adapter for Flat Files, select New Era of Networks Adapter for Flat Files.
Preview only?	No Yes provides a preview of what you might remove if “No” is selected.
Remove Dependent Software	No (default)
Extend the File System if space needed?	No (default) It should not be necessary to specify Yes.
Detailed output?	Yes, if you want verbose remarks. No results in minimum messaging.

NOTES:

If you have multiple New Era of Networks products installed on your machine, the Component Installer displays all the products.

Select All allows maintenance on New Era of Networks Adapter for Flat Files and any other New Era of Networks component listed. This may include adapters, New Era of Networks Formatter, and New Era of Networks Rules components.

5. Select the following components from the list for removal:
 - New Era of Networks Adapter for Flat Files (n9ffa38)
 - New Era of Networks Adapter for Flat Files Documentation 380 (n0ffa38b)
6. **ONLY** if you have no other New Era of Networks products installed would you delete all of the components in the directory.
7. From the Remove Installed Software window, click **OK**.
A Confirmation window appears asking *ARE YOU SURE?*
8. Click OK.

After the uninstall is complete, remarks are displayed in the output section of the Remove Installed Software window. You can scroll to view remarks for all of the software removed. To exit this window, click **Done**, and then **Cancel**.

TIP:

Multiple packages can be removed simultaneously. In the Name of Software field, either type each package (separated by a space) that you want to remove or use the List option to select the packages.

Glossary

abend

Acronym for abnormal end. More commonly known as a crash.

accelerator keys

A combination of keystrokes that bypasses the menu system to carry out an action.

action

An action defines a function to perform in a subscription. The Reformat and Put Message actions are predefined and the user can provide generic actions as well. An action must contain at least one option name-value pair.

administration workstation

A form of “client” from which a user carries out New Era of Networks Rules, Formatter, and Messaging management duties.

alternative format

A special form of compound format where one format in a set of alternatives applies to a message. For example, if the alternative format is named A, it may contain component formats B, C, and D. A message of format A may actually be a variation of B, C, or D.

application group

A logical grouping of applications used to organize rules.

Application Program Interface (API)

The interface (calling conventions) by which an application program accesses services. An API is defined at source code level and provides a level of abstraction between the application and the kernel (or other privileged utilities) to ensure portability of the code. A New Era of Networks Rules, Formatter, and Messaging API refers to a set of object classes,

structures, and functions that can be used by an application program to invoke New Era of Networks Rules, Formatter, and Messaging services.
Plural: APIs.

argument

In the New Era of Networks Rules GUI, an argument is evaluation criteria made up of fields from a message and associated operators.

ASCII

Abbreviation for American Standard Code for Information Interchange.

asynchronous

In electronic messaging, a method of operation in which receiving applications are loosely coupled and independent. The receiver need not respond immediately to a message, and the sender does not have to wait for a response before proceeding with the next operation. Compare to synchronous.

Boolean operators

Boolean logic allows for compound conditional statements, using logical operators including AND and OR.

client

A system or process that requests a service from another system or process.

client-server

A paradigm for distributed computing under which the system is split between one or more server tasks which accept requests according to some protocol, and client tasks which request information or actions. Clients and servers can be placed independently on network nodes.

cross-platform

Used to describe programs that can execute in dissimilar computing environments.

data type

Describes how to interpret the data.

DBMS

Abbreviation for Database Management System.

delimiter

One or more characters marking either the beginning or end of a field of data.

daemon

In UNIX, a program that executes in the background. Also known as agents, daemons only activate when defined system conditions become true. For example, a daemon may activate when the system clock reaches 2:00 a.m. every other Saturday. Another daemon may activate when the system senses the arrival of e-mail.

field

The smallest possible container for information. You can use a field in more than one table. If the first_name field exists in one table, for example, you can use the same field in other tables.

get

A request for the next message in a queue. Compare to put.

GUI

Abbreviation for graphical user interface.

heterogeneous

Composed of different parts of different kinds. Having dissimilar constituents.

hex

Hexadecimal means 16. The base 16 numbering system is used to represent binary numbers.

literal

One or more symbols or letters in data that represents itself.

massive mirroring

Massive mirroring is a means of boosting processing power by replicating entire databases on different computers and running them in parallel (keeping the databases synchronized).

message type

A message type defines the layout of a string of data. The message type name in the New Era of Networks Rules GUI is the same as the input format name in New Era of Networks Formatter.

middleware

Software intended to work between software applications and the underlying computer operating system.

option

An option consists of a name-value pair of data related to an action. An option name can be predefined (for Reformat and Put Message) or user-defined.

parse

To analyze a message by breaking it down into its component fields.

permission

Rules and subscriptions are associated with user permissions that determine whether a user can change the item definition or any part of it. The PUBLIC user includes any user of the system. Read permission is always granted. The user creating the rule or subscription is the Owner. The Owner can change ownership to another user. Update permission is needed to modify component definition.

persistence

The ability of a computerized system to remember the state of data or objects between executions.

popup menu

A floating list of actions. To open a popup menu, right-click an object; the available actions depend on the object.

protocol

A set of rules that govern the transmission and reception of data.

put

A request to store a message in a queue. Compare to get.

regular expression

Strings which express rules for string pattern matching.

rule

A rule is uniquely defined by its application group, message type, and rule name. It contains evaluation criteria (a rules expression) and is associated with subscriptions to perform if the rule evaluates to true. Rules also have permissions that determine user access.

scalable, scalability

Changeable in size and configuration. The ability to expand, implying minimal procedural change to accommodate growth.

server

A computer that, through its network connections, carries out parts of computing tasks for other networked computers.

shared subscription

A subscription that is associated with more than one rule. This subscription will only be retrieved once by the Rules APIs even if multiple associated rules evaluate true.

subscription

A subscription is uniquely identified by its application group, message type, and subscription name. It contains actions with options and can be associated with one or more rules. Subscriptions also have permissions that determine user access to change the subscription definition.

synchronous

In electronic messaging, a method of operation in which sender and receiver applications are tightly coupled and dependent. The receiver must answer the sender's message immediately with a well-defined response; the sender must wait for the receiver's response before proceeding to the next operation. Compare to asynchronous.

table

A database remembers relationships between pieces of information by storing the information in tables. The columns and rows in each table define the relationships in a highly structured way. We can classify tables by function into two types: support tables and data tables. Most tables fit into only one category, but some can serve as both support and data tables.

A support table stores information that changes infrequently and functions as a list from which you make selections.

tag

A set of bits or characters that identify various conditions about data in a file. In New Era of Networks Formatter, a standard value indicating the field's name.

transaction

An activity or request. Additions, changes, and deletions are typical transactions stored in a computer.

transaction management

A method of handling electronic messaging such that only committed messages are sent and only messages received and committed are considered delivered.

transaction processing

A method of handling computer operations in which the operations take place immediately upon receipt of the processing request. Also called real-time or online system. Compare to batch processing.

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