Software through Pictures®

Millennium Edition

Installing StP for Windows Platforms

UD/UG/ST1000-10106/005

Aonix

Software through Pictures
Installing StP for Windows Platforms
Millennium Edition
March 2002

Aonix® reserves the right to make changes in the specifications and other information contained in this publication without prior notice. In case of doubt, the reader should consult Aonix to determine whether any such changes have been made. The software described in this document is furnished under a license and may be used or copied only in accordance with the terms of such license.

World Headquarters
5040 Shoreham Place, Suite 100
San Diego, CA 92122
Phone: (800) 97-AONIX
Fax: (858) 824-0212
E-mail: info@aonix.com
http://www.aonix.com

Table of Contents

Chapter 3 Additional Information

Appendix A Files and Directories

1 First Steps

Welcome

Thank you for choosing Software through Pictures (StP) as your modeling tool.

This manual describes how to install and configure StP for the IBM family of PCs running Windows NT, Windows 2000, or Windows XP.

The StP installation contains the following components:

- **The StP program package**: All executables, libraries, and support files necessary for running StP
- **Example systems**: Ready-to-use examples for demonstrating the features and use of StP
- **Documentation**: PDF versions of the StP documentation set
- **Adobe Acrobat Reader**: Allows you to read and print the PDF documents without downloading from the Adobe website
- **Sybase client**: Provides access to the Sybase server database
- **Sybase server**: Acts as a database repository for StP. The sybase server is necessary when several users work on a project simultaneously.
- **StP message router**: Coordinates the access of StP editors to data and resources
- **FlexLM license manager**: Supervises the installation and secures the licensing of StP software

Once installed, the StP components reside in specific folders within the installation structure. See Appendix A, “Files and Directories” for more information.

First Steps: An Overview

Before installing StP, please read this manual carefully.

This chapter explains what you should do before you begin installing StP. You need to:

1. Determine system requirements.
2. Choose a database type (MS Jet or Sybase).
3. Choose the type of installation (evaluation or client / server).
4. Fill out an installation checklist.

It also explains how to contact Aonix Customer Support.

Additional topics in this manual include:

- Chapter 2, “Installing and Configuring StP”
- Chapter 3, “Additional Information”
- Appendix A, “Files and Directories”

1. Determine System Requirements

StP system requirements are summarized in the table below.

Processor speed	Minimum: 266 MHz (400 for XP) Recommended: 400 MHz
Operating system	◆ Windows 2000: Service Pack 2 recommended ◆ Windows XP (supported on client side only) ◆ Windows NT4 Service Pack 6a
RAM	Minimum: 64 MB (128 for XP) Recommended: 128 MB
Free disk space	Minimum: 100 MB Recommended: 650 MB

Repository	◆ MS Jet 4.0 SP 3 and MDAC 2.6 SP1 (provided on the StP CD) ◆ Sybase (optionally installed and configured with StP install): ◆ Open Client 12.0 ◆ Adaptive Server Enterprise (ASE) 12.0
Migration	All systems must be migrated to 8.3 Systems earlier than 2.6 must be migrated to 2.6 and then 8.3
Other	◆ CD-ROM drive ◆ TCP / IP protocol installed ◆ Internet Explorer 4.01 SP 2 or greater ◆ Adobe Acrobat Reader (5.0 is provided on the StP CD) ◆ FLEXlm 8.1 (automatically installed with StP)

2. Choose a Database Type

StP manages model elements by storing all information as objects in a database repository. StP supports the following databases:

- Sybase Adaptive Server Enterprise (ASE) version 12.0. (Sybase ASE 12.0 is included on the StP CD-ROM)
- Microsoft Jet version 4.0 SP 3 (included on the StP CD-ROM)

Before choosing which database is appropriate for you, determine your requirements:

- If the machine running StP is the only workstation accessing the StP repository, consider using Microsoft Jet.
- If multiple workstations require access to the same StP system, you need to store the StP repository on a Sybase server.

  This scenario requires installing Sybase ASE 12.0 on a single workstation and then installing Sybase Open Client 12.0 on the remaining workstations.

Microsoft Jet is available from all StP installations. If you also install Sybase, StP provides the option of choosing which database type to use for each StP system you create.

3. Choose the Installation Type

The StP installation provides two installation options; they are described in Table 1.

Table 1: StP Installation Options

Install Option	Installed Components	Description
Evaluation	Program and template files Online documentation Example systems	Provides standard StP installation, including access to Microsoft Jet. *Use this option for product evaluations.*
Client/Server	*Select from the following:* Program and template files Online documentation Example systems Sybase Open Client Sybase ASE (includes Open Client)	Provides selective installation of StP, including including access to Sybase (see below). If installing program and template files, provides configuration options for the StP message router, as well as access to Microsoft Jet. *Use this option for StP client or server installations.*

The Sybase ASE installation from the StP **Client/Server** option installs all necessary Sybase components.

During the Sybase ASE installation process, you are prompted for the Sybase SQL server name and the size of the data device and are given the option of installing the database in a specific directory on the server. Other Sybase options are configured automatically to satisfy StP requirements.

If you intend to install Sybase from the StP CD, you must get a password from Aonix. See “Contacting Aonix Customer Support” on page 1-6.

Note: The StP installation sets the Sybase ASE system administrator’s password to “welcome”. Use that password if you are logged in as a system administrator (“sa”).

4. Fill Out Checklist

The checklist below summarizes your choices about how you will install the StP software and Sybase server. Record your installation option choices for each category. This will help simplify the installation process and help you in later installations.

Installation directory (*<StP_root_dir>*): _____
This is the directory in which StP software will be loaded.

Install login: _____
The install login must have write access to installation directories. We recommend you log in as an administrator or as a user with administrator privileges.

License server machine: _____
This is the machine that will run the license software. If you have multiple workstations, it is the server where StP components are installed. If you have only one license, it is the name of the workstation.

Licenses (e-mailed or faxed)
You can obtain your license manually or after you install StP. See "Obtaining an StP License" on page 2-18.

- **E-mailed:** _____
  The file containing licenses that you receive via email must be copied to *<StP_root_dir>/templates/ct/license/license.dat* for licensing to be configured automatically during StP installation.
- **Faxed:** _____
  If you've received your licenses via fax, have this information available for entering when you install StP.

Sales order number: _____
This number appears on the sticker attached to the StP CD and on the "How to Request Your StP License Key" sheet provided in your StP package.

Sybase server machine: _____
This is the machine that will run the Sybase server software. The Sybase installation and configuration portion of the install must be run from this machine. If you install the Sybase server along with StP, the computer name and the Sybase sever name are identical.

Sybase install password: _____
To get the Sybase password, call Aonix customer support as described in "Contacting Aonix Customer Support" on page 1-6.

Sybase install options (Choose one):
1--Install Sybase 12.0 Open Client only and connect to existing server

- **Sybase server IP addr**: _____
- **Sybase server name**: _____
- **Port number**: _____

2--Install Sybase 12.0 and create a new Sybase server

Message router port (msgd_port): _____

Message router host (msgd_host): _____
Note: the default host is blank. For more information on *msgd*, see "Understanding the StP Message Router" on page 3-10.

Contacting Aonix Customer Support

If you have problems, contact the Aonix Customer Support department.

From North America, call:

- (800) 972-6649 (800-97AONIX)
- (858) 824-0209 (fax only)

Customer support websites and e-mail addresses are listed in Table 2.

Table 2: Aonix Websites and E-mail Addresses

Country	Website URL	E-mail Address
Canada	www.aonix.com	support@aonix.com
France	www.aonix.fr	customer@aonix.fr
Germany	www.aonix.de	stp-support@aonix.de
United Kingdom	www.aonix.co.uk	stp-support@aonix.co.uk
United States	www.aonix.com	support@aonix.com
Sweden		support@aonix.se

Users in other countries should contact their local Aonix sales office or StP distributor directly.

2 Installing and Configuring StP

This chapter explains how to install the StP Millennium Edition.

Before installing StP, read Chapter 1, “First Steps” to understand your database options, StP installation options, and system requirements.

If you intend to install Sybase, please obtain your Sybase installation password before you begin. See “Contacting Aonix Customer Support” on page 1-6 for contact information.

Installation Steps: An Overview

Before installing StP, log in as a user with administrator privileges.

To install StP, do the following (in order):

- Verify that you have a working TCP/IP protocol stack. If your machine does not have a network card, it may require a loopback adapter. (Step 1, page 2-2)
- Deactivate StP (if required).

  This is very important. If you have previous installations of StP and do not “turn everything off,” you may have problems installing StP. The deactivation process may require you to do one or more of the following, depending on how you are set up.
  - Remove older versions of Sybase (Step 2, page 2-3).

  - Remove previously installed versions of StP (Step 3, page 2-3). This involves:
    - Turning off StP
    - Turning off the message router
    - Removing the license server service
    - Using Add/Remove Programs to remove StP
    - Manually removing remaining StP components
- From the product CD:
  - Install Acrobat Reader (Step 4, page 2-3).
  - Install StP (Step 5, page 2-4).
- Install an StP license. (Step 6, page 2-18).
- Verify the installation by starting StP (Step 7, page 2-22).

These steps are described in detail in the sections that follow.

Note: This document does not describe every step and dialog that you will encounter during installation. You should proceed through each step accepting the default values, except where noted.

1. Create a Valid TCP/IP Connection

StP requires a valid TCP/IP connection. To determine if it is available on your machine, double-click the **Network** icon in the control panel and select the **Protocols** tab. If TCP/IP is available, it will be listed.

- If you have a valid TCP/IP connection, continue with "2. Remove Older Versions of Sybase" immediately below.
- If your machine does not have a valid TCP/IP connection, go to "Creating a TCP/IP Connection" on page 3-1.

2. Remove Older Versions of Sybase

If you are using older Sybase versions provided with StP versions earlier than 8.x, you have to remove them. In this case, go to “Removing Previous Versions of Sybase” on page 3-6 before continuing the installation.

3. Remove Previous Versions of StP

You must remove previous versions of StP before continuing the installation. Refer to “Removing Older Versions of StP” on page 3-3 for details.

4. Install Acrobat Reader

StP online documentation is provided in PDF (Portable Document Format) and requires Adobe Acrobat Reader for viewing.

If Acrobat Reader is not installed on your machine and you would like access to the StP online documentation:

1. Insert the StP CD-ROM.
2. Choose **Install Acrobat Reader**.
3. Follow the instructions in the Acrobat Reader installation process.

StP 8.3 comes with Acrobat Reader 5.0. You can download the latest version of Acrobat Reader from the Adobe website, *www.adobe.com*. If you download Acrobat Reader from the website, be sure to check the download option for searching PDF files and accessibility support on the download page. Otherwise, you will not be able to search through PDF files.

5. Install the MS-Jet/MDAC Upgrade

StP 8.3 requires Microsoft Jet 4.0 SP3 and Microsoft Access Data Components (MDAC) 2.6 SP1 drivers to be installed. These drivers should already be present on Windows 2000 and XP or on Windows NT4 with a Microsoft Office 2000 installation. If the appropriate drivers are not present, the StP installation will fail with a coresponding error message. In that case, you can install the drivers from the StP CD-ROM's autorun menu.

If MS-Jet 4.0 SP3 and the MDAC 2.6 SP1 drivers are not installed on your machine:

1. Insert the StP CD-ROM.
2. Choose **Install MS Jet drivers**.
3. Follow the instructions in the MS-Jet / MDAC installation process.

Note: During the installation of MDAC 2.6 you will be asked if you want to reboot now or later. Choose "later." This allows the MS-Jet installation (which follows immediately) to complete. If you reboot after MDAC installation, the MS Jet installation will not be successful.

Note: Any StP system created with an older version of Microsoft Jet will automatically be converted to 4.0 when it is opened for the first time with StP 8.3.

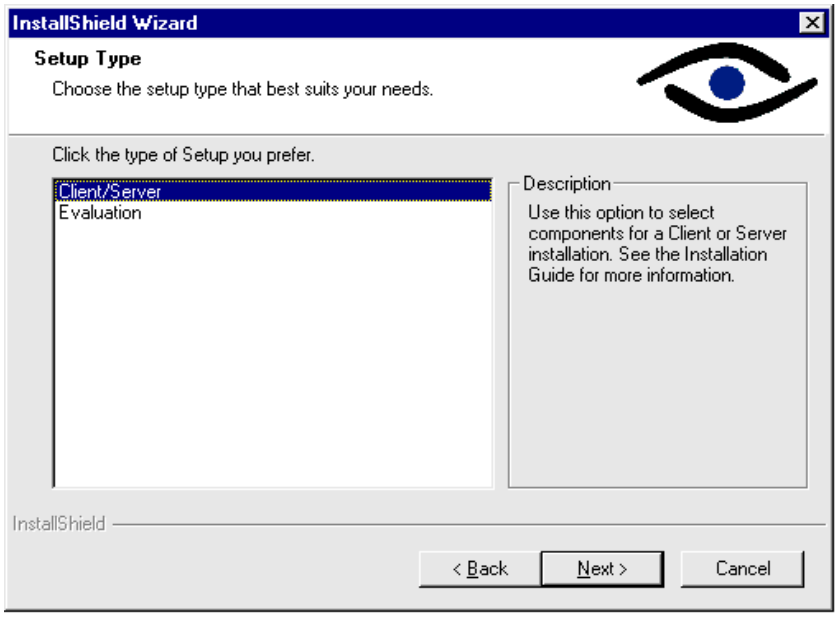
6. Install StP

To install StP, follow the steps below.

Start the Installation

1. Insert the StP CD-ROM. Wait for the welcome screen to appear. If it does not, search the contents of the CD-ROM drive and double click on the *autorun* executable.

2. Choose **Install StP**. The InstallShield Wizard welcome screen appears.
3. Click **Next**, then read the license information, follow the instructions, then press **Yes**. The **Setup Type** screen appears.

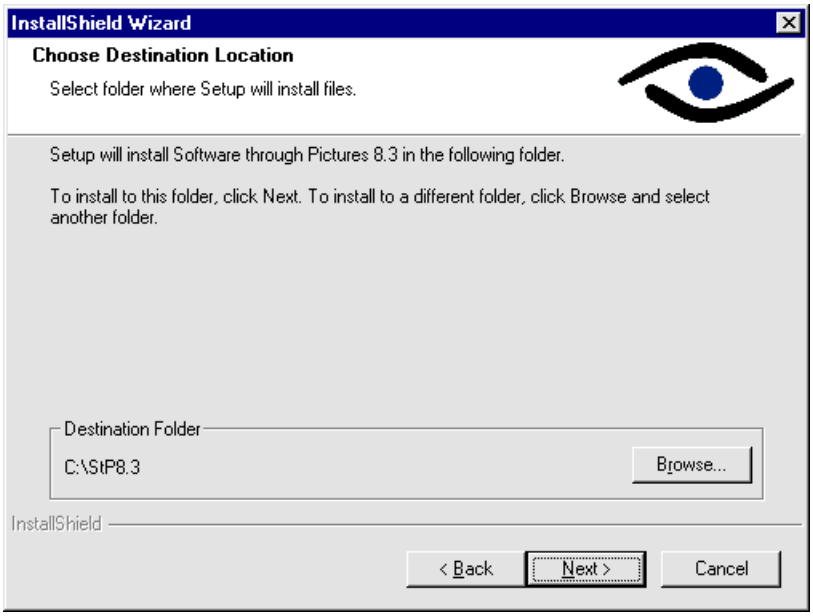


Note: If you have installed StP previously on your machine, you may not see the initial part of the setup. Instead, you may see a welcome screen with options **Modify**, **Remove**, and (possibly) **Repair**. This is because the installation program has detected fragments of a previous StP installation. If you see this screen, choose **Modify** and then click **Next** to display the **Select Components** dialog. Go to "For a Client / Server Installation" on page 2-9 to continue the installation.

4. From the **Setup Type** screen, choose your setup type: **Evaluation** or **Client/Server**. The options are described in "3. Choose the Installation Type" on page 1-4. Click **Next**. The **Choose Destination Location** screen appears.

   Choose a **Client/Server** installation if you are using the Sybase repository rather than Microsoft Jet or if you want to install specific StP components. In most cases, an evaluation installation is sufficient.

5. From the **Choose Destination Location** screen, select the folder in which StP is to be installed.



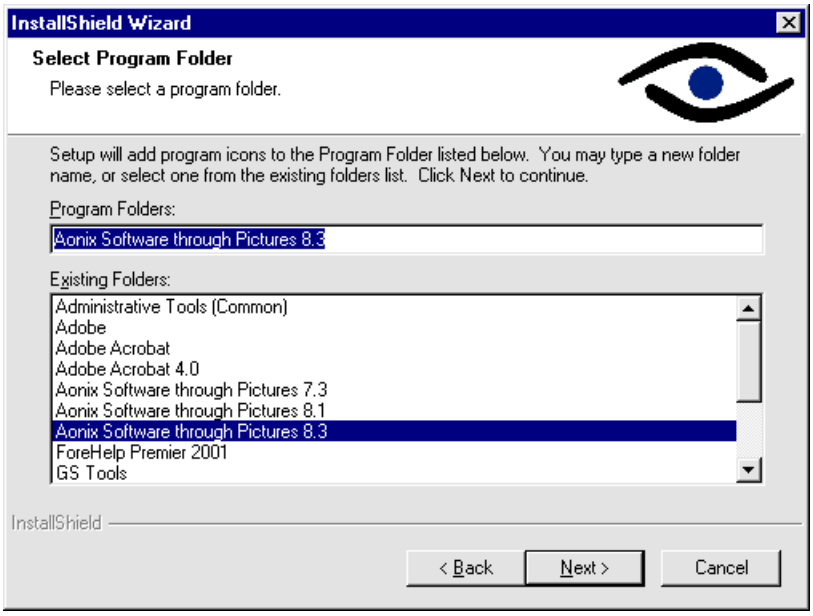
6. Click **Next** and continue with installation.

   For an **Evaluation** installation, the **Select Program Folder** dialog appears. Continue with "For an Evaluation Installation" immediately following.

   For a **Client/Server** installation, the **Select Components** dialog appears. Continue with "For a Client/Server Installation" on page 2-9.

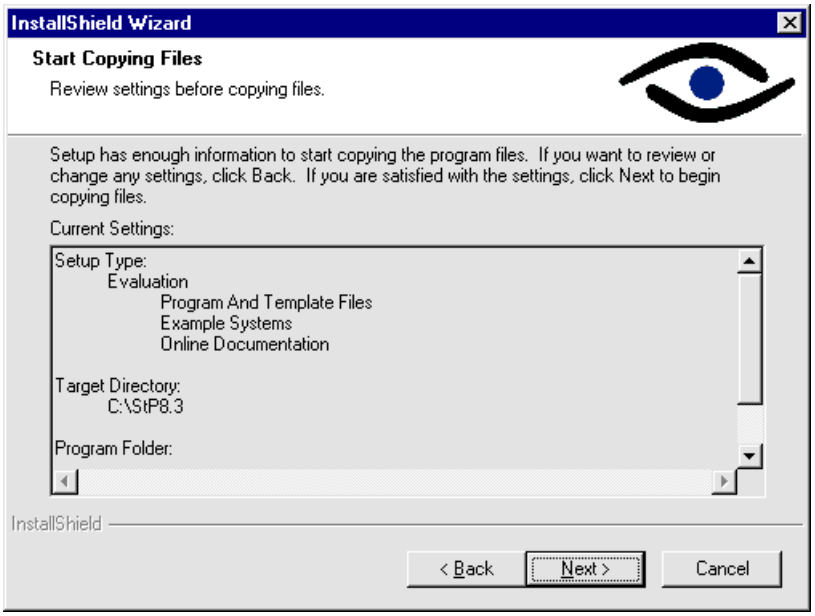
For an Evaluation Installation

1. In the **Select Program Folder** dialog, accept the default program folder or select a different folder from the **Existing Folders** list.



2. Click **Next** when you have made your selection. The **Start Copying Files** dialog appears.

3. In the **Start Copying Files** dialog, verify the information in the **Current Settings** list.



4. Click **Next** to begin copying files or click **Back** to adjust the current settings. When you click **Next**, the installation program starts copying files. The process will take several minutes. When the process is complete, the **Setup Complete** dialog appears.
5. In the **Setup Complete** dialog, indicate whether you wish to restart your computer immediately, or restart your computer later.

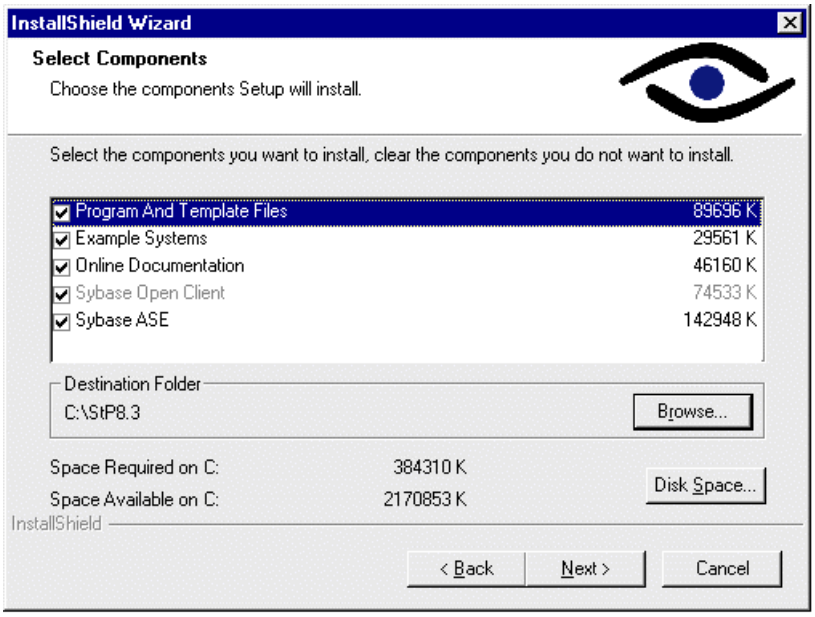
   After making your selection, click **Finish**.
6. Before starting StP, ***reboot your machine***. This is very important.

You have now completed the steps required for an **Evaluation** installation. Continue setting up StP at "7. Install an StP License" on page 2-18.

If you plan to use StP with DOORS, see the *StP/DOORS Integration User Guide* for information on integrating StP with DOORS.

For a Client/Server Installation

1. If you intend to install Sybase, you need to get a Sybase installation password from Aonix. To obtain the password, call Aonix Customer Support as indicated in “Contacting Aonix Customer Support” on page 1-6.
2. In the **Select Components** dialog, choose the destination folder for the StP installation. The default is *C:\StP<version>*.



   To change the location, click the **Browse** button and choose a folder. If you enter the name of a new folder, it will be created.

   Note: We recommend that you do not install StP (or the example systems) in a folder that contains blanks in the path, e.g., *c:\Program Files*.

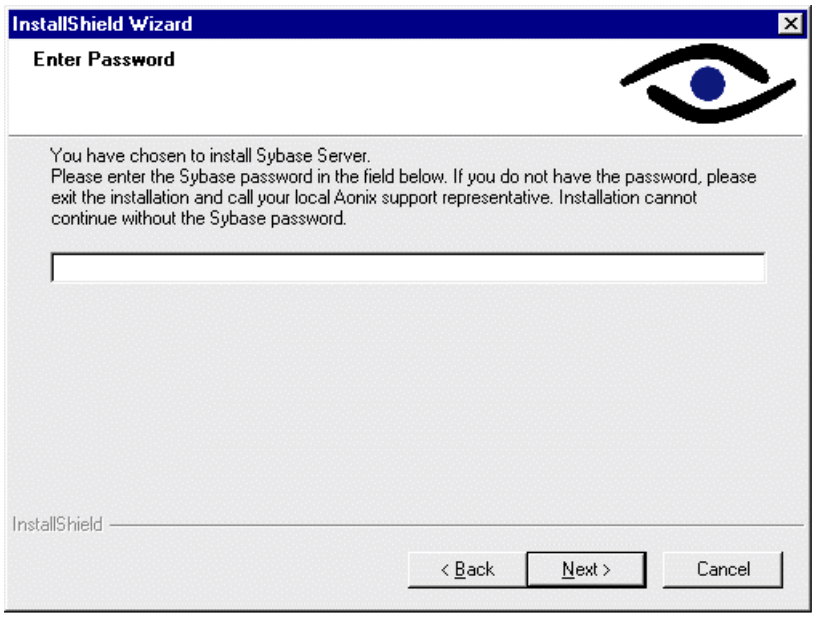
3. From the list in the **Select Components** dialog, select the components you wish to install. Click **Next** when finished.

Assuming that you intend to install everything shown on the screen above (the default), the **Enter Password** dialog appears. Continue with “a. Provide Sybase Information” below.

a. Provide Sybase Information

(This section applies only if you've chosen to install Sybase.)

1. In the **Enter Password** dialog, provide the Sybase installation password that you received from Aonix.



2. Press **Next**, then continue with "b. Provide Message Router Information."

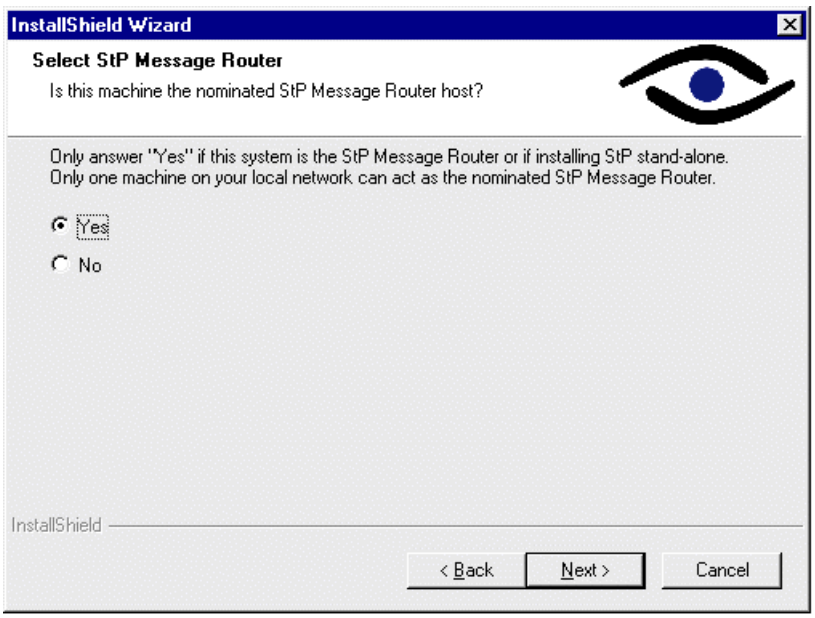
b. Provide Message Router Information

(This section applies only if you've selected **Program and Template files**.)

1. After you've selected **Program and Template files** from the **Select Components** list and pressed **Next**, a message box (not shown) appears asking if you want to accept the default StP message router settings or if you prefer to customize the StP message router.

   If you want to use the default settings (which in most cases is the recommended choice), click **No** and go to "c. Complete the Client/Server Installation" on page 2-13.

   If you want to customize the settings for the StP message router, click **Yes**. The **Select StP Message Router** (nominated host) dialog appears. Continue with Step 2.



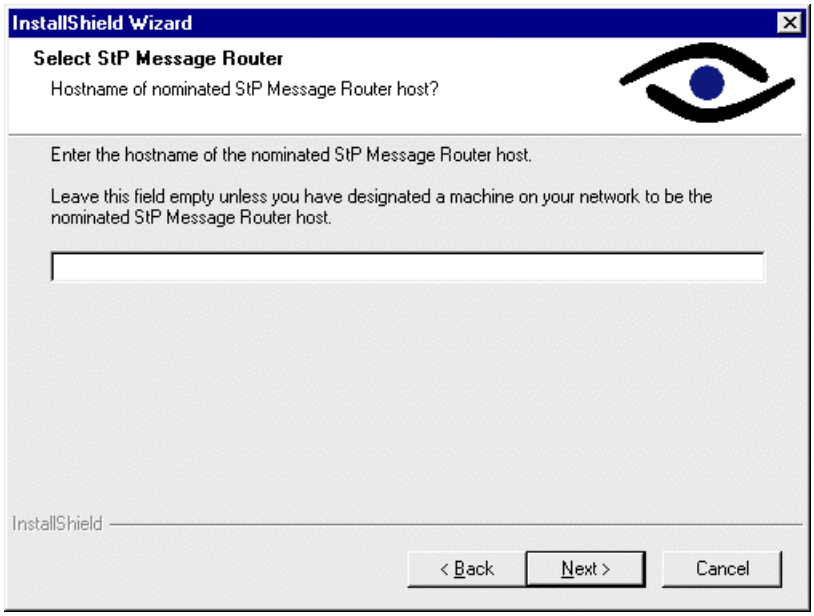
2. In the dialog, click **Yes** or **No**. Only one machine on your local network can be the nominated StP message router host. If you're installing StP on a server or on a standalone PC, click **Yes**; otherwise click **No**.

   Choosing **Yes** sets the `msgd_host` ToolInfo variable and disables the host's message router. The `msgd_host` variable is stored in *ToolInfo.W32NTX86*, the default ToolInfo file location being at the top level of <*StP_root_dir*>).

   If you have clicked **No**, continue with Step 3 on page 2-12.

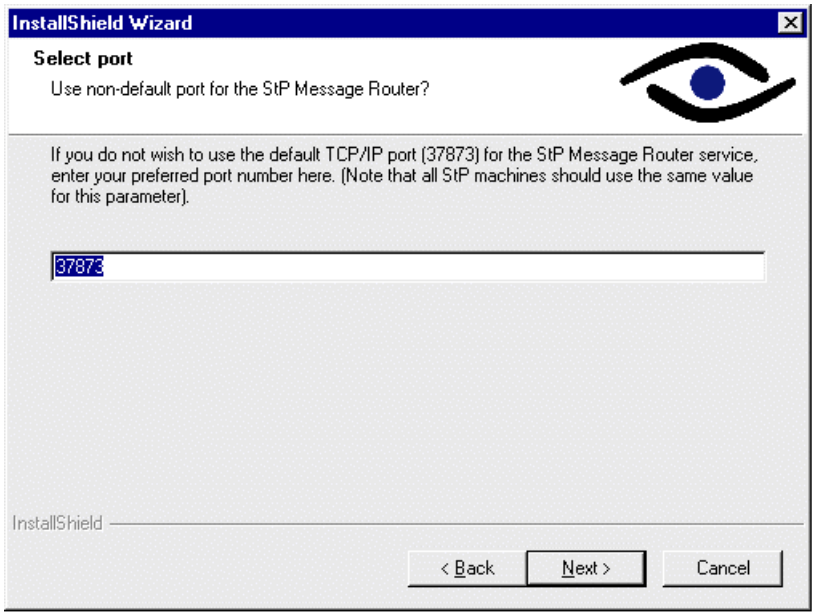
   If you have clicked **Yes** (the default), go directly to Step 5 on page 2-13.

3. In the **Select StP Message Router** (hostname) dialog**,** enter the hostname of the StP message router machine.



4. Click **Next**. The **Select Port** dialog appears.

5. In the **Select port** dialog, specify the TCP/IP port number used by the message router service, or use the default TCP/IP port number.



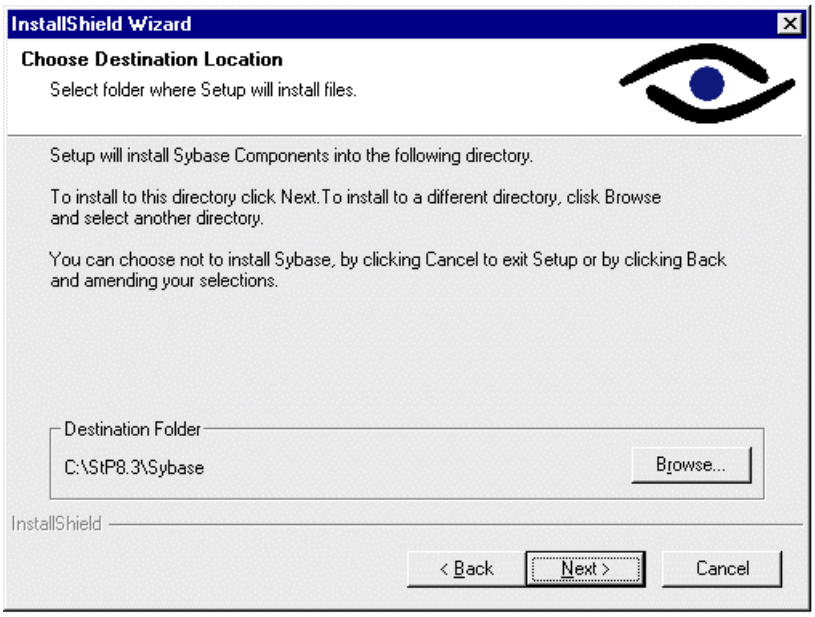
(All StP clients that work on common StP systems must have the same setting.) Click **Next**. The **Select Program Folder** dialog appears.

Note: For additional information on the StP message router, see "Understanding the StP Message Router" on page 3-10.

c. Complete the Client/Server Installation

1. In the **Select Program Folder** dialog (see page 2-7), accept the default program folder or select a different folder from the **Existing Folders** list. Click **Next** when you have made your selection.
2. If you are installing Sybase, follow the bulleted list below. Otherwise, go to Step 3 on page 2-17.

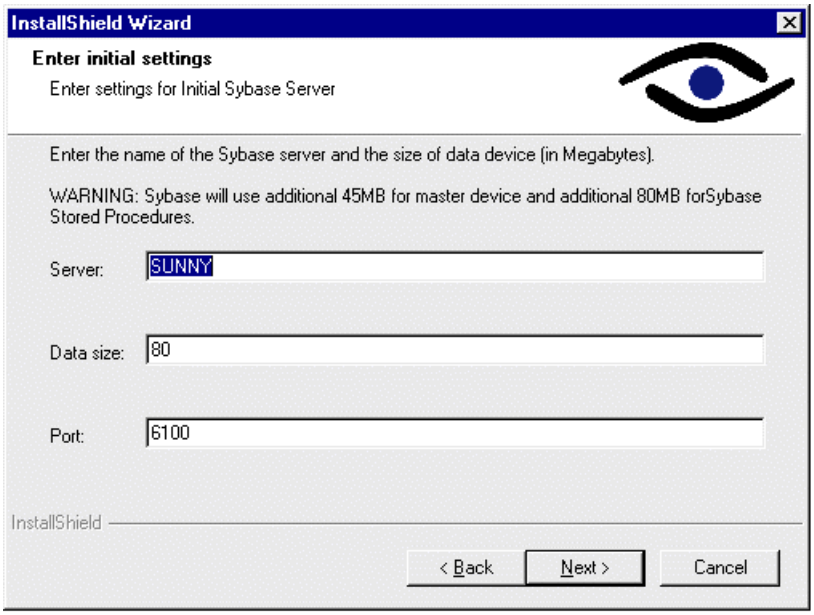
- In the **Choose Destination Location** dialog, choose the destination folder for the Sybase ASE installation. The default is *<StP_root_dir> \ Sybase*.



To change the location, click the **Browse** button and choose a folder. If you enter a new folder name, it will be created. Click **Next** when finished. The **Enter Initial Settings** dialog appears.

Important: You must specify a directory that ***does not*** contain blanks in the path, since the Sybase installation does not allow blanks in the name of the install directory.

- In the **Enter initial settings** dialog, enter the server name, the default data size, and the SQL server port number.

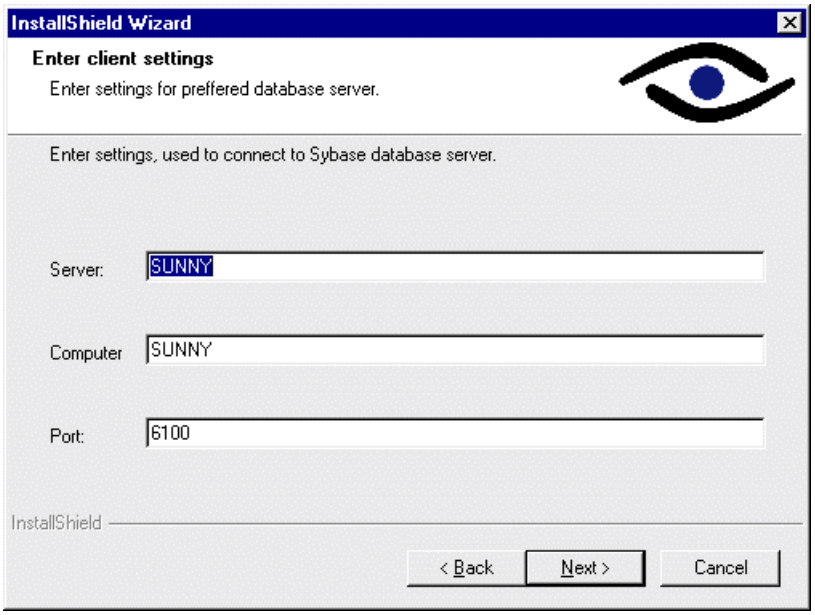


The default server name is the name of the machine. The default data size is 80 MB. However, we recommend more if there are multiple users or if your project is large.

The server name can be any string up to 32 characters long - as long as it does not contain blanks or special characters like ‘i’, ‘?’, etc. This name is used by the Sybase Client as an identifier in the table of known Sybase servers). Enter the server name (or IP address), data size, and port number as needed.

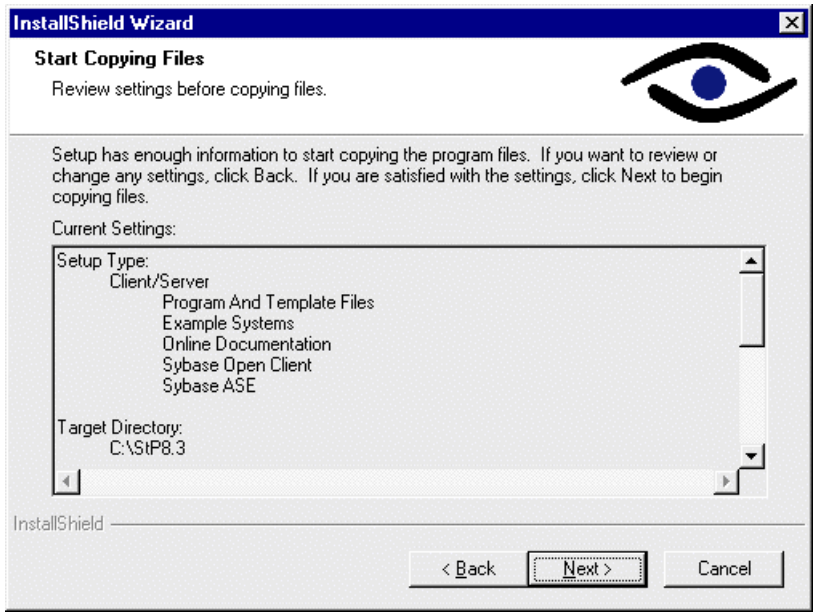
Click **Next**. A message appears, asking if you want to configure the client. If you do, press **Yes**. In this case the **Enter Client Settings** dialog appears.

- If you want to connect StP to a Sybase server that is installed on a different machine, enter the Sybase name, computer name, and port number as necessary in the **Enter Client Settings** dialog. Normally the server and computer name are the same.



Click **Next**. The **Start Copying Files** dialog appears.

3. In the **Start Copying Files** dialog, verify the information in the **Current Settings** list.



Click **Next** to begin copying files or click **Back** to adjust the current settings.

Note: If you are installing Sybase ASE, the process may take more than 15 minutes to complete. During the process you will see information appearing on one or more DOS screens. Ignore it; wait for the entire process to complete before attempting to close screens, etc.

4. In the InstallShield Wizard screen that appears**,** indicate whether you wish to restart your computer immediately, or restart your computer later.

   After making your selection, click **Finish**.

5. Before starting StP, ***reboot your machine***. This is very important.

You have now completed the steps required for a **Client/Server** installation. Continue setting up StP at "7. Install an StP License", below.

If you plan to use StP with DOORS, see *StP Administration* for information on integrating StP with DOORS.

7. Install an StP License

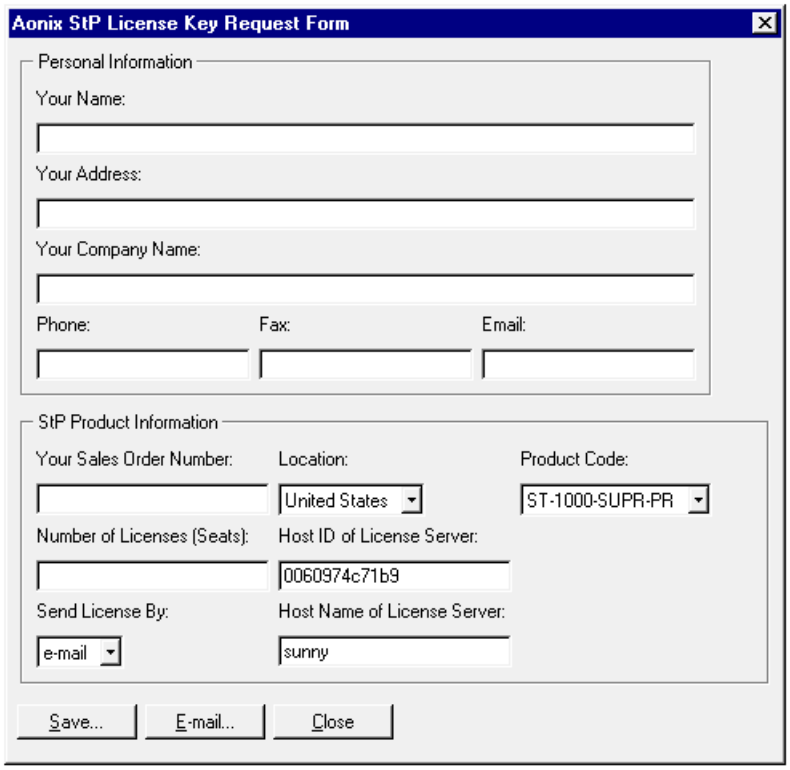
StP requires a running Flexible License manager (FLEXlm) server with an StP license.

Obtaining an StP License

You request a license file by sending e-mail to *support@aonix.com* or sending a fax to (858) 824-0209.

StP provides a utility for helping in the license requesting process:

1. From the **Start** menu, select **Programs > Aonix Software through Pictures** <*version*> and then **License > Request StP License**. A screen similar to the following appears.



2. Fill out the fields. The host ID and host name are determined automatically. For **Your Sales Order Number**, use the number that appears on the sticker attached to your StP CD or on the "How to Request your StP License Key" sheet.

When you have entered everything, you can send the form to Aonix by pressing **Email**. This will work if you are connected to the Internet and have installed a MAPI-compatible e-mail client such as MS Outlook. If you use some other e-mail client, **Save** the request as a file and later send it to *support@aonix.com* as an attachment.

Note: When saving the file with the license request, you may specify any file name you want (with any extension). The extension ".txt" is appended to the file name.

If you want to send the request via fax, save the license request, print it, then fax it to (858)824-0209. If you are outside North America, refer to "Contacting Aonix Customer Support" on page 1-6.

Installing the StP License File

To install the StP license file:

1. Save the license file you received from Aonix.
   - Save a copy outside of the StP environment in case you need to deinstall and reinstall StP later. If you save the license file as "license.email" and copy it to the default location, <*StP_root_dir*> \ *templates* \ *ct* \ *license*, the next time you start StP, the license will be installed automatically.
   - If you want to install the license on a standalone machine or on a server, save the license file on that machine as *license.dat* and put it in the StP license folder.
   - If you want to install the license on the FLEXlm server, save the license file on the server as *license.dat* and place it in the StP license folder there.
   - If you want clients to connect to the license manager locally, copy the license as *license.dat* to the same place on all client machines.

     You will need to modify *license.dat* to designate <*Daemon_Path*> and <*Port_Number*>. (See the FLEXlm documentation in the <*StP_root_dir*> \ *templates* \ *ct* \ *license* \ *flexuser* directory.) Use a standard text editor such as Notepad. If you make any changes to the *license.dat* file, copy the new file to all client machines, if appropriate.
2. Verify that the systems's `LM_LICENSE_FILE` environment variable is set correctly. It must include the full path name as part of its value. For example:

```
LM_LICENSE_FILE=C:\Latest_StP\templates\ct\license\license.dat
```

3. Start the license service. (The license service should be installed only on the license server machine.)

   From the **Start** menu, select **Programs > Aonix Software through Pictures** <*version*> and then **License > Add StP License Service**.
4. Reboot the system.

To verify that the license was installed correctly, go to the **Start** menu, select **Programs > Aonix Software through Pictures** <*version*>, and then **License > Licensing Tools**. When the **Lmtools** dialog is displayed, click on the **Diagnostics** button and click **OK**.

StP provides shortcuts from the license folder to the FLEXlm manager, which provides the ability to add, remove, or modify license services.

Additional FLEXlm mechanisms are supported for specifying a license file. See your FLEXlm documentation for additional details, if required.

License File Format

The format of an StP license file depends on the type of license: product license or trial license. There are five types of lines that can appear in an StP FLEXlm license file: `SERVER`, `DAEMON`, `FEATURE`, and possibly `UPGRADE` and `INCREMENT`.

The format for a SERVER line is:

<*keyword*> <*hostname*> <*host id*> <*port number*>

For example:

```
SERVER myhost 55001e10 1700
```

The format for a DAEMON line is:

<*keyword*> <*vendor daemon*> <*location*>

For example:

```
DAEMON IDE c:\<StP_root_dir>\bin\W32NTX86\IDE.EXE
```

Note: License information that was sent to you by fax will have hyphens (dashes) inserted into the encryption key. These characters are inserted purely to aid readability when manually entering the code from a fax, and must not appear in the completed key string (our installation scripts will remove these characters automatically). If possible, we recommend that you obtain your licenses by e-mail, because this method is less prone to errors.

8. Verify Installation: Start StP

You are now ready to launch the StP desktop.

Before you attempt to start StP, first verify that:

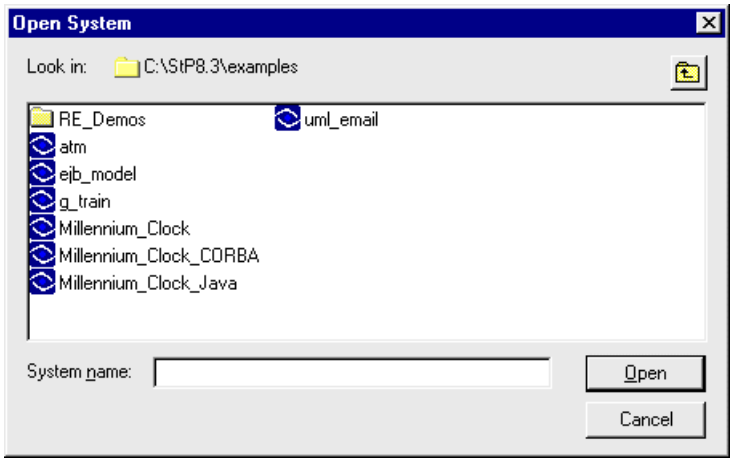
- The message router has started. To check, double-click the **Services** icon in the control panel and look for **StP Message Router** in the list. If the message router service is not running, select **StP Message Router** from the list and click **Start**.
- The StP FLEXlm has started. (Check "Installing the StP License File" on page 2-20 if you're not sure.)

Then continue with either **a** or **b** below, depending on whether your database repository is Microsoft Jet (**a**) or Sybase (**b**)

Important: If, as you are attempting to start StP or an StP editor, you get a "Could not find Message Router process" message, it is likely that the message router service is not set up properly. For a quick workaround, add the line "`msgd_host=`*<hostname>*" to the *ToolInfo.W32NTX86* file located at the top level of your StP installation (< *hostname*> is the StP server machine for multiple workstations or the local workstation name for a a standalone workstation).

a. With Microsoft Jet as your database repository:

1. Open the StP desktop.
   - Click **Start**, then choose **Programs > Aonix Software through Pictures** <*version*>.
   - Choose **StP UML** or **StP SE** (depending on which StP options you've purchased). The **Open System** dialog appears.



- **Cancel** the dialog, since we will be creating a new system.

2. Create a new system.
   - From the StP desktop, choose **File > New > System**.
   - Enter a system name, then press **OK**. A new system is created.
3. Open an editor.

   From the StP desktop, choose **File > New** and then select an item from the list (for example, **Use Case Diagram** for UML). Click **OK**. The appropriate editor opens.
4. Go to **c** on page 2-24 for additional information.

***b. With Sybase as your database repository*:**

1. Start the Sybase server. You must do this before you can create or open StP systems. For information on starting Sybase ASE, see "Starting Sybase ASE" on page 3-8.
2. Make sure that you have been set up with the appropriate Sybase user privileges. See "Additional Sybase-Installation Steps" on page 3-9 for information.
3. Open the StP desktop.
   - Click **Start**, then choose **Programs > Aonix Software through Pictures** <*version*>.
   - Choose **StP UML** or **StP SE**. The **Open System** dialog (see figure above) appears.

- Close the dialog, since we will be creating a new system.

4. Create a new system.
   - From the StP desktop, choose **File > New > System**.
   - Enter a system name and set **Repository Server** to **Sybase**. Click **OK**.
5. Open an editor.

   From the StP desktop, choose **File > New** and then select an item from the list (for example, **Use Case Diagram** for UML). Click **OK**. The appropriate editor opens.

Note: For information on setting up Sybase users or releasing a project for Sybase users, go to "Additional Sybase-Installation Steps" on page 3-9.

***c. With either repository*:**

If you were able to open an editor, you may close the editor and the desktop or continue working with StP. If you wish to open one of the example systems provided with StP, do so.

Note: When you try to open any of the example systems, and get an "Unable to open repository" message, you may have to rebuild the repository. Refer to "Creating/Rebuilding a Repository" on page 3-12 for more information.

If you were *not* able to open an editor, it is likely that the StP message router was not set up properly as mentioned in the note on page 2-22. Then restart StP. This causes StP tools to connect to the message router on <*hostname*>. See "Understanding the StP Message Router" on page 3-10 for additional setup information.

If you need more installation information than was provided in this chapter, read Chapter 3, "Additional Information".

3 Additional Information

This section provides additional StP installation information. It includes:

- Creating a TCP/IP connection
- Removing older versions of StP and Sybase
- Connecting to an existing Sybase server and starting Sybase ASE
- Understanding the StP message router and its default behavior, and designating a message router server
- Opening example systems
- Creating/rebuilding a repository

Check the table of contents to see a full list of what is covered here.

For information on starting Sybase SQL Server 12.0, refer to your Sybase documentation.

Creating a TCP/IP Connection

Disable DNS

Domain Name System (DNS) hostname resolution must be disabled if any of the following conditions apply to your machine:

- You have a network interface card installed, but your machine is not connected to a network.
- You are using or intend to use a loopback adapter (see ‘‘Install a Loopback Adapter,” below, for more information).
- You do not have a local DNS server.

Note: If you do not disable DNS hostname resolution in these situations, performance will be affected, perhaps severely.

To disable DNS:

1. Double-click the **Network** icon in the control panel.
2. Select the **Protocols** tab.
3. Double-click **TCP/IP Protocol**.
4. Select the **WINS Address** tab.
5. Deselect the **Enable DNS for Windows Resolution** box.
6. Click **OK**.
7. If prompted, reboot the machine.

Install a Loopback Adapter

If your machine does not have a network adapter, you still need a valid TCP/IP connection. You can achieve this by installing a loopback adapter such as MS Loopback Adapter.

To install a loopback adapter:

1. Double-click the **Network** icon in the control panel.
2. Select the **Adapters** tab.
3. Click **Add**.
4. In the **Network Adapter** list, select a loopback adapter, such as MS Loopback Adapter.
5. Click **OK**.

   Depending on the selected loopback adapter, you may be prompted to insert your Windows NT CD-ROM. After the loopback adapter is installed, return to the **Network** dialog.
6. From the **Network** dialog, select the loopback adapter you just installed.
7. Select the **Protocols** tab.
8. Select **TCP/IP Protocol**.
9. Click **Properties**.

10. Select **Specify an IP Address** and define:
    - IP Address
    - Subnet Mask
    - Default Gateway address

    By convention, the IP address for the loopback adapter is *127.0.0.1*, and the gateway is the interface itself, for instance, *127.0.0.1*.

    Note: In Windows NT, there is currently a bug in this dialog. As you tab into the **Netmask** field, the software correctly detects the Class A address, and gives you the correct netmask by default. However, it will *not* accept the correct netmask when you click **Apply** or **OK**. To work around the bug, specify the netmask bytes in the wrong order (for instance, *0.0.0.255*). The netmask bytes will be accepted and applied in the correct order.

11. Make sure that DNS is disabled by following the instructions in "Disable DNS" on page 3-2.
12. If prompted, reboot the machine.

Removing Older Versions of StP

Note: Do not remove StP components before you deinstall. This may interfere with the process.

StP 7.2 and Earlier

To remove StP software components from StP version 7.2 and earlier:

1. Make sure that you are not running StP or any of its components.
2. Stop any StP services that are running, namely: FLEXlm, the StP message router service, and Sybase.

   To check, double-click the **Services** icon in the control panel and look for the name of the service (for example, **StP Message Router)** in the list. If the service is running, select it from the list and click **Stop**.

3. If the FLEXlm service is installed, remove it as follows.

   For StP 7.x releases, go to the **Start** menu, select **Programs > Aonix Software through Pictures > License > Remove StP License Service**.

   For StP Core 2.x releases, go to the **Start** menu, select **Programs > Aonix Software through Pictures > Licensing > Remove FLEXlm Service**.
4. From the control panel, double-click the **Add/Remove Programs** icon.

   For StP 2.x releases, select **Aonix Software through Pictures**.

   For StP 7.x releases, select **StP** <*version*> **<***StP_component***>** from the list.
5. Click **Add/Remove** to delete.
6. *For StP 7.x releases*, repeat the process for any additional StP components.
7. MKS Toolkit was installed with StP Core 2.6. If you would like to remove MKS Toolkit, select **MKS Toolkit** from the list and click **Add/Remove** to delete it.
8. If any StP directories were left behind as a result of a sharing violation, remove them manually.

   Note: The deinstall program removes only those files or directories created during the StP installation process. Any files created after the installation was completed will not be removed and may cause directories to be left behind.

Note: If you are removing and reinstalling Sybase, manually remove all remaining Sybase directories before you attempt to reinstall. If you do not, the Sybase installation will fail. Also make sure you follow steps 2 and 3 above before attempting to remove Sybase.

Version 8.x (StP ME)

To add / remove StP ME software components from StP ME:

1. Make sure that you are not running StP or any of its components.

2. Make sure the StP message router service is not running.

   To check, double-click the **Services** icon in the control panel and look for **StP Message Router** in the list. If the message router service is running, select **StP Message Router** from the **Services** list and click **Stop**.

3. Remove the license server service.

   To do this, go to the **Start** menu, select **Programs > Aonix Software through Pictures** <*version*> **> License > Remove StP License Service**.

4. Begin removing StP components. To do this, go to the control panel, then:

   - Double-click the **Add/Remove Programs** icon.
   - Select **Aonix Software through Pictures** <*version*> from the list. The InstallShield wizard appears, followed by a welcome screen.
   - From the welcome screen, choose **Remove** to remove all installed StP software components. Click **Next**. A confirmation dialog appears. Click **OK** to continue or **Cancel** to exit the setup.

     Note: You can also select **Modify** from the setup program menu. This allows you to add / remove StP software components selectively.

5. Wait for the deletion process to complete. When it is, click **Finish**.

6. Remove any StP directories (including Sybase directories) that were left behind.

   The deinstall program removes only those files or directories created during the StP installation process. Any files created after StP was originally installed will not be removed and may cause directories to be left behind.

   Warning: If you are removing and reinstalling Sybase, manually remove all remaining Sybase directories before you attempt to reinstall. If you do not, the Sybase installation will fail. Also make sure you disable the StP message router service (Step 2 above) before attempting to remove Sybase.

7. Reboot your machine.

Removing Previous Versions of Sybase

If you plan to use Sybase ASE 12.0 (either as client or server) on the machine running StP ME, you must remove the older Sybase server (Sybase SQl Server 10.x or 11.x), if present.

"Remove" means: Deinstall Sybase **and** manually remove all Sybase directories. If you do not manually remove all Sybase directories, you may run into problems using StP. Also (*and this is very important*): Be sure to back up all projects and other important data before you begin to remove Sybase.

For more information on Sybase, or on connecting to an existing Sybase server on UNIX, see *StP Guide to Sybase Repositories.*

Removing Sybase SQL Server 11.0.x or 10.x

Use the StP Core 2.x CD-ROM, as follows:

1. Make sure Sybase is not currently running.
2. Insert the StP Core 2.x CD-ROM.
3. Choose **Install Sybase** from the Autorun program.
4. In the **Welcome** dialog, enter the following CAS string:
   `RKBKBY BYBYBY BYSORL BKBKKD HJDJZG PUDI`
5. In the **Sybase Release Directory** dialog, enter the path of the Sybase directory; the default is *C:\SYBASE*.
6. In the **Product Set Selection** dialog:
   - Select **Windows NT Products (32-bit versions).**
   - Deselect **Windows Products (16-bit versions).**
7. In the **Windows NT Product Selection Screen** dialog, select the products you installed:
   - **Language Modules**
   - **Open Client/C**

   If this is a Sybase SQL server machine, also select:
   - **SQL Server Manager**
   - **SQL Server**

8. Click **Deinstall** and follow the instructions until you return to the **Windows NT Product Selection Screen** dialog.
9. In the **Windows NT Product Selection Screen** dialog, click **Exit**.
10. In the **Exit** dialog, click **Exit**.
11. Remove the StP Core 2.x CD-ROM.
12. Reboot the machine.

Removing Sybase SQL Server 11.5.1:

1. Make sure the Sybase server is not running. Open the control panel, select the **Services** icon, and search for "SQLServer_<*server name*>". the status is "started," turn off the service.
2. Open the control panel and select the **Add/Remove Programs** icon.
3. Select **StP** <*version*> **(Sybase Components)** and click **Add/Remove**.
4. Reboot the machine.

Connecting to an Existing Sybase Server

If you installed Sybase Open Client and are connecting to an existing remote database Sybase server, you need to add the Sybase server information to your local *sql.ini* file.

To add the Sybase server information, copy the *sql.ini* file from the Sybase server machine to your Sybase installation directory. The default path on your local machine running StP ME is <*StP_root_dir*> \ *Sybase* \ *ini* \ *sql.ini*.

Alternatively, create entries using the `DSEDIT` dialog.

If you are using Sybase Open Client:

1. From the **Start** menu, select **Programs > Aonix Software through Pictures > Sybase Repository**.
2. Select **Edit Server Definitions**.
3. In the `DSEDIT` dialog, enter details about your existing Sybase Server.

If you are using Sybase ASE:

1. From the **Start** menu, select **Programs > Aonix Software through Pictures > Sybase Repository**.
2. Select **Sybase Central**.
3. Open the Utilities folder in Sybase Central and double-click **Directory Services Editor**.
4. In the **DSEDIT** dialog, enter details about your existing Sybase server.

Starting Sybase ASE

If your repository is stored on Sybase ASE, you must start the Sybase server before creating or opening an StP system from the desktop.

Starting Sybase ASE Automatically

To configure Sybase ASE to start automatically on machine start-up:

1. Double-click the **Services** icon in the control panel.
2. Select your Sybase Adaptive Server from the **Services** list.

   The Sybase Adaptive Server name appears as:

   Sybase SQLServer_<*server*>.
3. Click **Startup**.
4. Under **Startup Type** in the **Service** dialog, select **Automatic**.
5. Click **OK**.

Note: This service is not available until you restart the machine, or you start the service manually.

Starting Sybase ASE Manually

If Sybase ASE is not currently running and you've installed Sybase in the default StP location:

1. From the **Start** menu, select **Programs** > **Aonix Software through Pictures > Sybase Repository > Sybase Central**.

2. Double-click the Sybase server name icon (the light on the icon should be red). A log-on screen appears.
3. If prompted, enter your password (the default password on a new StP Sybase server installation is "welcome").

   After the server is started, the light on the icon turns green.
4. Close the Sybase Central screen.

Additional Sybase-Installation Steps

Setting Up Sybase Users

When StP is installed in a multiuser environment, users must be set up before they can use StP.

1. Set up Sybase users:
   - From the StP desktop, choose **Repository > Manage Users > Repository Manager > Add Sybase Users**. A dialog appears.
   - Enter the names of the users in **User Name** field. Click **OK**.

   Important! Enter the exact name the user uses when he/she logs in to the system. Sybase distinguishes between small and capital letters. Special characters, umlauts, and numbers are not allowed. To check the exact log-on name, open a DOS window and type "set" followed by a return. The log-on name is shown as `USERNAME=<`*log-on_name*`>`.
2. Set up Sybase user privileges to allow users to create new systems:
   - From the StP desktop, choose **Repository > Manage Users > Grant User(s) Sybase System Creation Privileges**. A dialog appears.
   - Enter the names of the appropriate users. The names must be exactly the same as those of the Sybase users.

Releasing a Project for Sybase Users

Users need the appropriate privileges in order to look at or change a project. There are "writers" and "readers." Writers have read/write privileges; readers may only read the project.

To add users to the project:

1. Choose **Repository > Manage Users > Current System > Add Sybase Users**. Click **OK**.
2. Restart StP so that the changes are put into effect.

Understanding the StP Message Router

The StP message router is the internal communication system of StP. When an StP application starts, it registers within an StP message router. The StP message router transfers messages between the StP desktop, StP editors, and other StP utilities. In a multiuser environment it is used for synchronization and notifications.

The first-opened StP application broadcasts on a default port number and waits for a reply from the StP message router. If StP does not receive a reply, it assumes that no message router is running and starts one on the local machine.

If StP starts a local copy because it did not receive a message router reply due to a temporary network condition, the running message routers will communicate when normal conditions are restored. Since only one message router can exist in the network, the running message routers will determine which one(s) should terminate activity.

Note: Be sure to check the "Product Limitations" section of the Release Notes for installation issues relating to StP message router issues in firewall environments and connections across routers that are not addressed in the following sections.

Message Router Defaults

By default, the message router is installed with the current machine designated as the default host by setting the value of the `msgd_host` ToolInfo variable. The value of the `msgd_port` ToolInfo variable is assumed to be the default port, and the *msgd* start mode is set to `AUTOSTART`.

If you do not choose the default settings, the following prompt will appear concerning the StP message router during installation:

Only answer "Yes" if this system is the StP Message Router or if installing StP as stand-alone. Only one machine on your local network can act as the nominated StP Message Router.

Answer "Yes" if you are installing StP on a stand-alone machine or on the machine designated as the message router host. Otherwise, answer "No."

You may have to set the `msgd_host` variable yourself. Add the line "`msgd_host=`<*hostname*>" to the *ToolInfo.W32NTX86* file to have StP connect the message router to your local machine; leave it undefined to specify broadcast mode.

Make sure that you have only one message router machine and that all clients are connected to the same message router.

For additional information on *msgd*, refer to the *StP Administration* manual.

Designating a Message Router Server

Unless special measures are taken to ensure that broadcast requests are propagated, the TCP/IP broadcast mechanism does not function over certain network topologies. Such topologies include those involving StP client machines separated by gateways, subnets, routers, firewalls, bridges and other such devices.

If any of these conditions exist, you should designate a machine to run the StP message router. The machine should have high availability in terms of connectivity, response, and uptime. A machine that runs an StP message router does not listen for, or respond to, message router broadcast requests. If broadcasting is disabled, all StP clients will attempt to connect to this machine. You can specify a dedicated message router during the StP installation (refer to "6. Install StP" on page 2-4).

If none of the specialized conditions described above apply to you, accept the installation defaults to install the message router service in its default mode. The default mode gives the best results in the majority of installations.

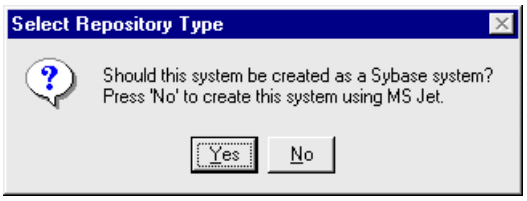
Creating/Rebuilding a Repository

To rebuild the repository for a specific system (e.g., *uml_email*):

1. From the desktop, choose **Repository > Maintain Systems > Destroy System Repository**. Select from the list of example systems then press **Destroy Rep**. You will be asked "Are you sure you want to delete system repository <*system*>?" Answer **Yes**.

   The message "Repository destruction succeeded" appears at the bottom of the StP desktop.

2. Choose **Repository > Maintain Systems > Recover System Repository**. Click **Choose** and select the system from the list. Click **OK**. The **Select Repository Type** message box appears.



3. Click **Yes** for Sybase; click **No** for Microsoft Jet. The process takes several minutes.

If all goes well, the appropriate repository is created for the example system.

A Files and Directories

There are many files and subdirectories on the StP distribution. The following is a subset of the files and directories found relative to the <*StP_root_dir*> folder. The default folder is c:\StP<*version*>.

Table 1: StP Files and Directories

Name/Location in <*StP_root_dir*>	**Description**
`bin\`	StP binaries folder
`<`*arch*`>\`	StP binaries folder for platform <*arch*>
`<`*arch*`>\msg_file`	File containing messages used by StP
`documentation\`	Online versions of StP documentation
`examples\`	Folder of sample systems that highlight the use of StP (optional)
`lib\`	Folder of StP libraries and support files
`<`*arch*`>\`	Folder of libraries for platform <*arch*>
`Sybase\`	Sybase installation and database folder (optional)
`ASE_<`*version*`>\`	Sybase ASE <*version*> folder
`OCS_<`*version*`>`	Sybase Open Client <*version*> folder
`templates\`	Folder of templates used by StP
`ct\`	Core technology templates folder
`ct\license\`	FLEXlm license folder
ToolInfo.<*arch*>	Configuration file for platform <*arch*>