SeeBeyond™ eBusiness Integration Suite

e*Xpressway Integrator Server Setup and Maintenance Guide for Trading Exchanges

Release 4.5.1

SeeBeyond™

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Introduction

By purchasing e*Xpressway™ Integrator Server, you have elected to host the fastest solution for providing connectivity between Trading Exchanges and Trading Partners.

This chapter provides an overview of e*Xpressway Integrator Server and describes the hardware and software required for installing an instance of the e*Xpressway Integrator Web site for Trading Exchanges.

This Web site enables Trading Exchange hosting and also allows you to distribute e*Xpressway Integrator OnRamp. The e*XpressWay Integrator Onramp product promotes quick and easy integration of Trading Partners with your Trading Exchange.

This Chapter Includes:

1.1 Overview

e*Xpressway Integrator Server provides the mechanism for Trading Partners (buyers and sellers) to connect their existing systems with Trading Exchanges, while doing so with a significant reduction in the time and cost of setup and implementation.

e*Xpressway Integrator Server enables rapid Trading Partner connectivity and integration through a comprehensive B2B implementation methodology, graphical configuration Wizards and downloadable connectivity software. When your Trading Exchange Web site goes live, you can start approving, distributing to, and integrating with registered Trading Partners.

Trading Partners will follow an intuitive, step-by-step process to register their Partner profile, and once approved, will quickly install, configure and personalize their instance of e*Xpressway Integrator OnRamp software, which is downloaded from your Trading Exchange Web site.

1.1.1 Intended Reader

The reader of this guide is presumed to be:

- a Trading Exchange representative who is responsible for establishing, maintaining, and managing relations with Trading Partners.

- A software distributor who is responsible for acquiring, maintaining, and managing Trading Partner accounts who now use or will be using the e*Xpressway Integrator OnRamp software package to communicate with e*Xpressway Integrator Server-enabled Trading Exchanges.

1.2 Requirements

To setup and run e*Xpressway Integrator Server, you will need the following:

1 The e*Xpressway Integrator Server CD, version 4.5.1 or higher

2 A dedicated, clean PC (a clean PC has only the Operating System installed) with:

- Intel Pentium III or equivalent AMD Processor

- 512Mb RAM

- Windows 2000 with Service Pack 2 or above, or Windows NT4.0 with Service Pack 6a or above

- Microsoft Internet Explorer 5.0 or above with 128-bit encryption

- 1Gb free disk space for installation and operational data

3 A TCP/IP network connection

4 Highly available, high-speed Internet service (T1, etc.)

5 All-access System Administrator privileges

6 Experience with browsers and network e-mail system technology

7 Knowledge of Internet security technology (HTTPS, PKI)

8 Java Development Kit (JDK) Release 1.3 or above

9 JAVA_HOME variable set to the location of your JDK

10 Oracle 8i database, 8.1.6 EE or above

11 Oracle SQL client on the installation machine

12 Private key and security certificate files

Note: *Additional disk space may be required to queue and process data that is generated by multiple concurrent e*Xpressway processes. The amount will vary based on the properties of the data being processed and any external applications performing the processing.*

If you have satisfied all the requirements listed above, you are almost ready to install e*Xpressway Integrator Server. For more information, see **"About the installation" on page 5**.

Before you begin

This chapter describes technical aspects of e*Xpressway Integrator Server that must be considered before your Trading Exchange Web site can go live.

This Chapter Includes:

- **"Communicating with Trading Partners" on page 3**
- **"OnRamp Solution Packages" on page 3**
- **"Solution Providers" on page 4**
- **"OnRamp Customization Management page" on page 4**

2.1 Communicating with Trading Partners

After installing and testing e*Xpressway Integrator Server, you will go live and start collecting and evaluating Trading Partner registrations. Before going live, however, be prepared to accommodate multiple incoming file formats.

Trading Partners will use different software s to generate business transaction messages. Case-by-case, you must work directly with each Trading Partner to determine their transaction data format and integrate with it.

To establish communication compatibility with a Trading Partner's system, you must provide the Partner with an *OnRamp Solution t*hat is built from the *OnRamp Solution Package* and downloaded from your *OnRamp Solutions* page on your Trading Partner-facing Web site.

Note: *Creating, packaging, and uploading OnRamp Solution Packages requires the services of a Solution Provider. For more information see* **"Solution Providers" on page 4***.*

2.2 OnRamp Solution Packages

The OnRamp Package is the software environment and the base e*Gate schema that is included as part of e*Xpressway Integrator Server. The e*Gate schema in the OnRamp Solution Package is used for transferring transaction data to and from Trading Partners and the Trading Exchange via HTTP/HTTPS, without translation.

The e*Xpressway Integrator OnRamp can be modified by your Solution Provider to communicate with Trading Partners, regardless of what file format they use. Your designated Solution Provider will start with the contents of OnRamp to create customized, reusable OnRamp Solution Packages.

2.3 Solution Providers

A **Solution Provider** is a Systems Integrator, SeeBeyond Consultant, Trading Exchange Customer, or other individual with e*Gate skills whose task it is to create OnRamp Solution Packages for Trading Partners and upload them to your e*Xpressway Integrator server, where they are made available to Trading Partners on the **OnRamp Solutions** page.

Note: *Access to a Solution Provider is a key requirement. If you are an e*Gate Suite customer, you may already have the skills to act as a Solution Provider. However, if you do not now have access to a Solution Provider, you must arrange for one before going live.*

2.4 OnRamp Customization Management page

On your Trading Exchange Web site, the **OnRamp Customization Management** page is a repository for all the available OnRamp Solution Packages that have been created and uploaded by Solution Providers. This page allows registered Trading Partners to download the specific OnRamp Solution Package that will enable communication with your Trading Exchange. After downloading the OnRamp Solution Package, it is installed on the Trading Partner's server.

On your Trading Exchange Web site, this page also provides descriptive information on the available OnRamp Solution Packages, including:

- The Package name
- Package version
- Package description
- Source file format
- Destination file format
- Number of formats supported
- Security requirements

A release notes popup page is provided that displays any comments from the Solution Provider, so that the decision to upload, download, or delete an OnRamp Solution Package is an informed one.

Installing e*Xpressway Integrator Server

This chapter describes how to install e*Xpressway Integrator Server.

e*Xpressway Integrator Server provides the distribution environment for e*Xpressway Integrator OnRamp, allowing Trading Partners to integrate with your Trading Exchange quickly and easily.

This Chapter Includes:

- **"About the installation" on page 5**
- **"Installing e*Xpressway Integrator Server" on page 6**

3.1 About the installation

Installing the e*Xpressway Integrator Server for Trading Exchanges application consists of:

- Receiving the licensed product CD from SeeBeyond
- Making sure you have the following database information on hand (see your Oracle administrator for this information):
  - Server name
  - Database name
  - Port number
  - Administrator login ID
  - Administrator password
- Making sure you have your private key and security certificate
- Installing the application files on your local machine
- Personalizing your Web site with two logo images:
  - A Home page logo, GIF format, 170X80 pixels
  - A Help Center logo (for the Web site help pages), GIF format, 120X50 pixels
- Testing your Trading Exchange Web Site
- Going live

Apache Server and Tomcat

As part of the installation process, the installer will install *Apache Server* and *Tomcat.*

- **Apache** is a Web server that is distributed under an open source license. Apache Server runs on Windows 2000 and most UNIX-based operating systems, and is more widely used than all other Web servers combined.

- **Tomcat** is a Java Servlet container plus a Java Server Pages (JSP) Engine, which supports Apache Server.

e*Xpressway OnRamp

The installer will also load the e*Xpressway OnRamp image onto your computer, which will be made available to your Trading Partners to install. During the installation, make sure you select the e*Xpressway OnRamp component on the Installation Wizard.

Note: *The installation does not install an e*Gate schema on your computer. OnRamp is installed as a .zip file for download by your approved Solution Provider.*

3.2   Installing e*Xpressway Integrator Server

Installing e*Xpressway Integrator Server is quick and easy.

Before you begin, make sure you are prepared. For more information, see **"Requirements" on page 2** and **"Communicating with Trading Partners" on page 3**.

3.2.1   To install e*Xpressway Integrator Server

1 Place the e*Xpressway Integrator Server CD in your CD ROM drive.

2 If your machine is not set to auto-start, do the following:

   A On your desktop, double-click **My Computer**.

   B Double-click your CD ROM drive icon.

   C Double-click **Setup.cmd**.

3 On the **License Agreement** dialog box, click **Yes** to accept the terms of the agreement.
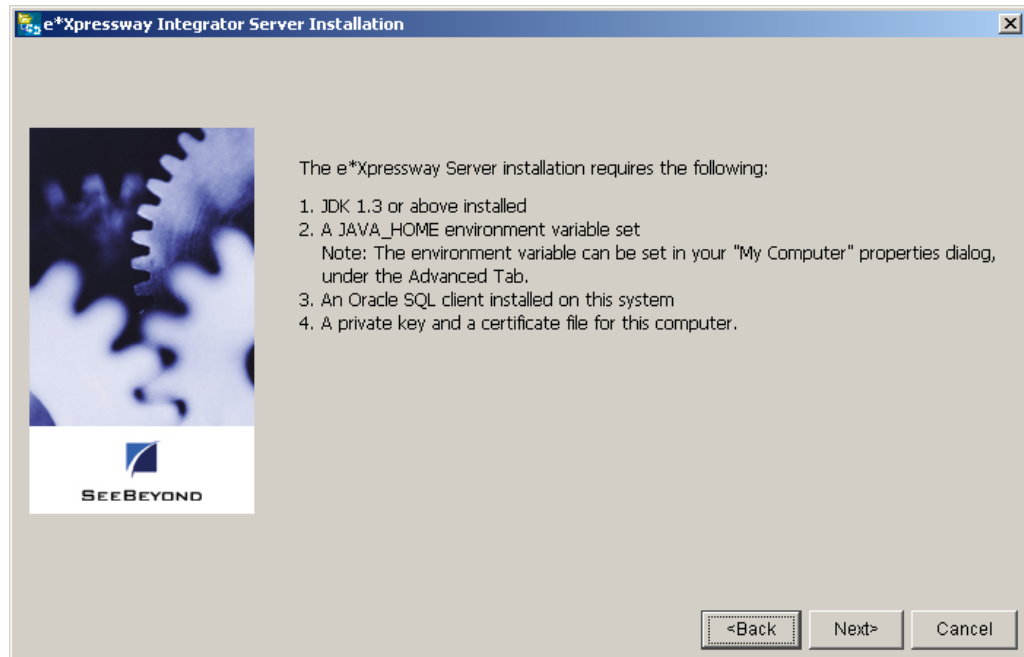
4   Read the Information on the **Server Installation** dialog box.

   ◆ Make sure you have all the necessary software.

   ◆ Make sure your JAVA_HOME environment variable is set to the location of your JDK (you can use the **My Computer** properties dialog, or you can type the path in a **Command Prompt.**

   ◆ Make sure you have Oracle SQL client installed on your machine.

   ◆ Make sure your private key and security certificate files are set up as indicated.

5   Click **Next**.

6   Specify the directory for the e*Xpressway Integrator files.

Note: *The installation utility detects and suggests the appropriate target directory. Do not change this directory setting unless you are directed to do so by SeeBeyond support personnel. If you must install into a different directory, do not use special characters (such as "#" or "*") or spaces in the path.*

7   Click **Next.**

   The **Select Components** dialog box appears.
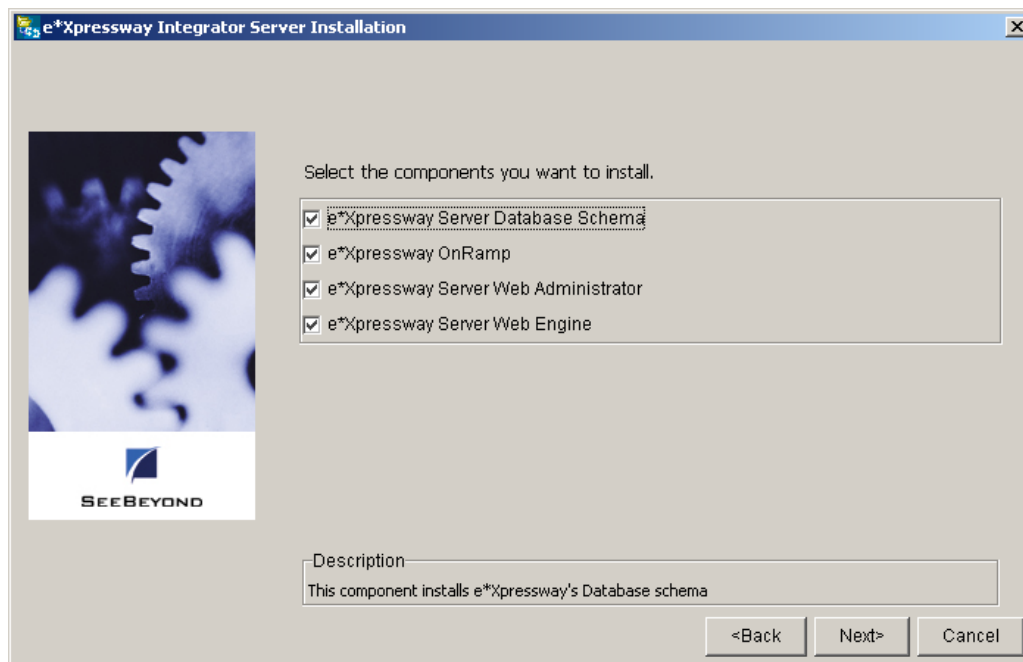
8 Check the components you want to install:

- ◆ e*Xpressway Server Database Schema (required for your database)
- ◆ e*Xpressway OnRamp (the downloadable Trading Partner software .zip file)
- ◆ e*Xpressway Server Web Administrator (installs Apache)
- ◆ e*Xpressway Server Web Engine (installs Tomcat)

9 Click **Next**.

The **Server Installation** dialog box appears.

10   In the **Server** box, type your Oracle server name.

11   In the **DB Name** box, type your Oracle database name.

12   In the **Port** box, type the port number of your Oracle database server.

13   In the **DB Administrator Login ID** box, type your Database Administrator's login ID (should be typed by your DB Administrator).

14   In the **DB Administrator Password** box, type your Database Administrator's password (should also be typed by your DB Administrator).

For more information, see your Oracle Database Administrator.

15   Click **Next**.

16   Specify the directory into which the Apache Web server is to be installed.

Note: *The installation utility detects and suggests the appropriate target directory. Do not change this directory setting unless you are directed to do so by SeeBeyond support personnel. If you must install into a different directory, do not use special characters (such as "#" or "*") or spaces in the path.*
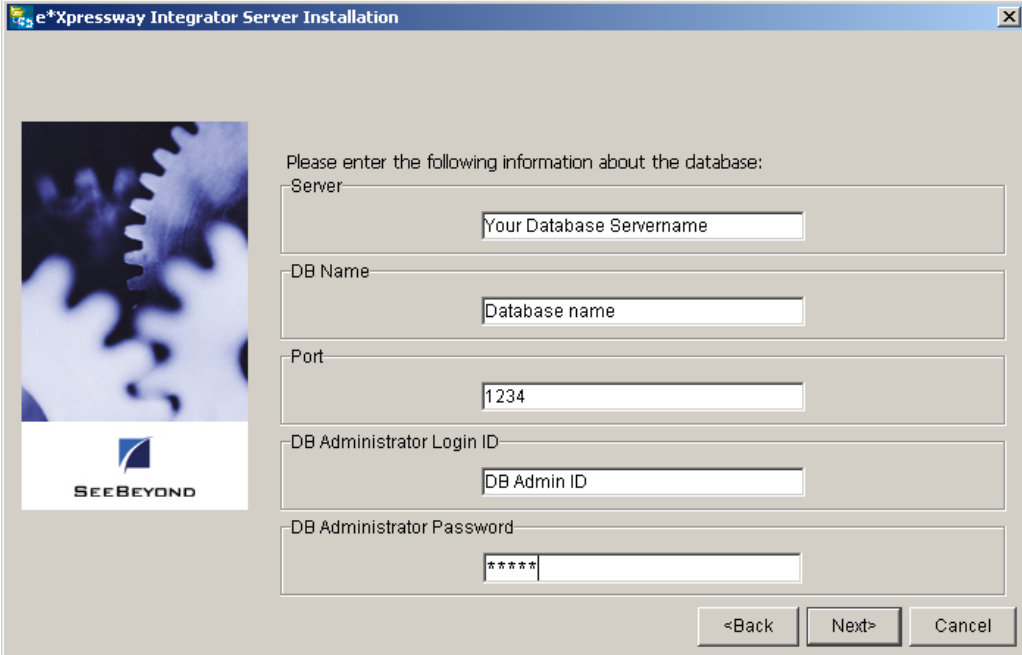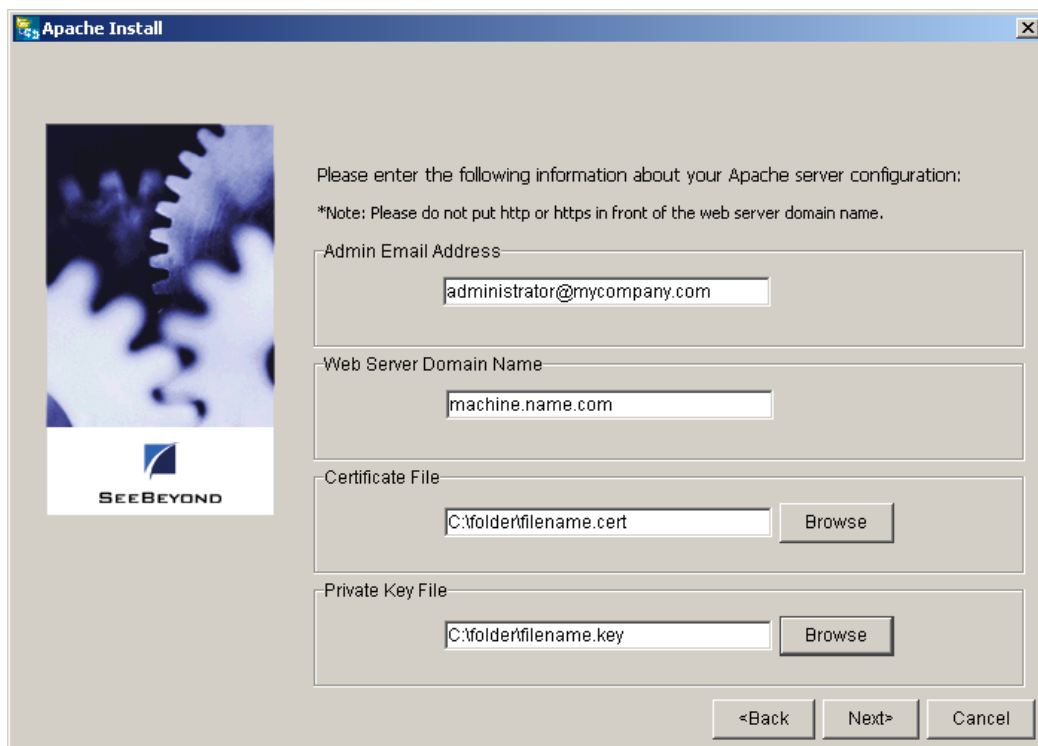
17   Click **Next**.

The **Apache Install** dialog box appears.

18 In the **Admin Email Address** box, type the e-mail address you want to use to correspond with SeeBeyond and your Trading Partners.

19 In the **Web Server Domain Name** box, type the URL that you will present to Trading Partners as the home page of your Trading Exchange.

20 To enable security, do the following:

A In the **Certificate File** box, type the location of your certificate file, or click **Browse** to locate and select the file.

B In the **Private Key File** box, type the location of your private key file, or click **Browse** to locate and select the file.

21 Click **Next**.
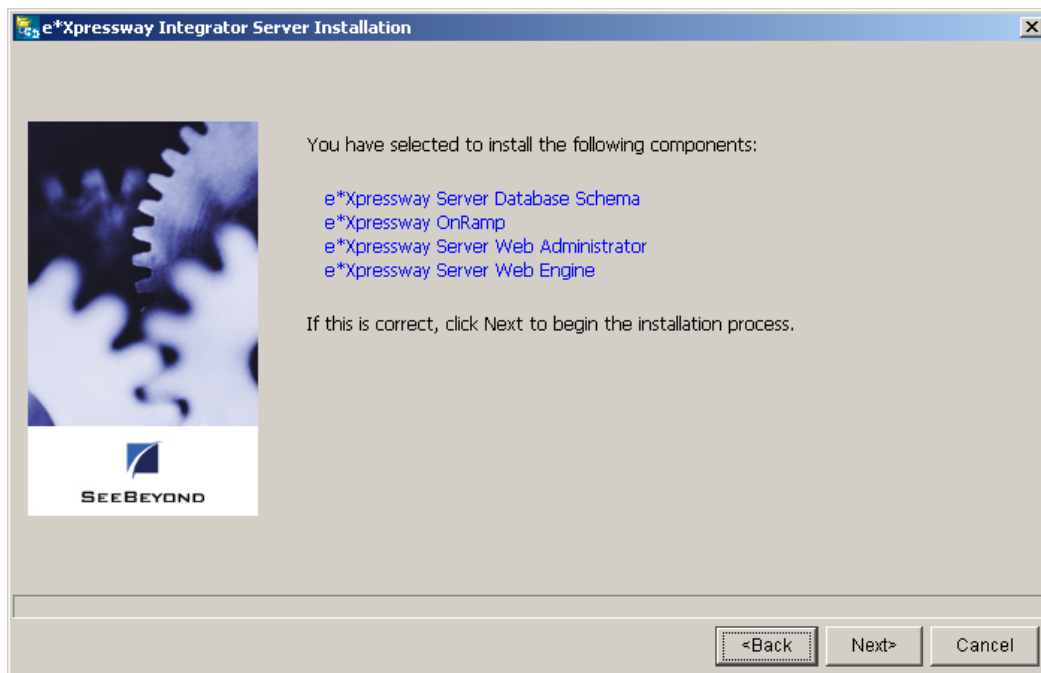
22 On the **Confirmation** dialog box, review the list of components that you have selected to install.

23 Do one of the following:

- If the listed components are correct, click **Next** to start installing the e*Xpressway Integrator Server files on your machine.

- If the listed components are not correct, click **Back** until you see the Components dialog box and select only the components you want to install (you do not have to cancel the process).

The files are installed.

24 To finish the installation, click **Finish.**

Setting up your Trading Exchange Web site

This chapter describes how to create your account and create your Trading Exchange Web site on the e*Xpressway Integrator Server.

This Chapter Includes:

- **"Overview" on page 12**
- **"Creating your account on the server" on page 13**
- **"Personalizing your Web site" on page 15**
- **"Customizing automatic e-mail response letters" on page 19**

4.1 Overview

Setting up your Trading Exchange Web Site consists of:

- Using your browser to log into e*Xpressway Integrator Server
- Creating and initializing a new Trading Exchange Web site account
- Using the Account Setup Wizard to set up your Web site
- Uploading your Company logo
- Adding your Trading Exchange URL to the Server
- Providing the URL that you will present to your Trading Partners as the home page of your Trading Exchange
- Customizing the e-mail response letters for Trading Partners

4.2   Creating your account on the server

The following instructions tell you how to create and initialize your account.

Note: *You must have Administrator privileges on the server.*

1   On your desktop, double-click the **Start e*Xpressway Server** icon:

2   Using your browser, go to the following URL:

HTTP://<*yourdomain*>/trade/msbadmin/admin_login.jsp

where:

<*yourdomain*> is the domain name that you provided when you installed e*Xpressway Integrator Server.

3   On the **Administration Login** page, log into the server:

4   In the **User Name** field, type **Administrator**.

5   In the **Password** field, type **STC** (STC is the required password).

The **Server Administrator** main page appears.

6   Click the **Create a new Trading Exchange account** link.

The **Server Administrator: Create new Trading Exchange account** page appears.

7   On the **Create new Trading Exchange account** page, type the following:

- In the **Trading Exchange Name** field, type your Company name, or the name of your Trading Exchange, if different.

- In the **Website URL** field, complete the URL for your e*Xpressway Integrator Server Web site.

    Add an appropriate string in the field provided to complete the URL, for example:

    http://www.*yourdomain*/com/trade/with/*mycompany*

8   In the **User Name** field, type your Trading Exchange Administrator's e-mail address.

9   In the **Password** field, type the password that you want to use to log into the e*Xpressway Integrator Server.

10   In the **Confirm Password** field, type the password again.

11   In the **Webmaster Email** field, type the e-mail address for your Webmaster.

12   Click **Submit**.

    Your account is created.

13   Log out from the Web site.

    When you log in to e*Xpressway Integrator Server again, you will go directly to the **e*Xpressway Integrator Server** home page where you will find the tools to set up and

manage Trading Partners, Personalize and maintain your Web site, and manage OnRamp Solution Packages. For more information, see **"Managing your Web site" on page 22**.

4.3 Personalizing your Web site

When your account is created and you log back into the e*Xpressway Integrator Server, go to the **Trading Exchange Account Setup** page and use the tools provided to personalize your account.

Personalization consists of:

- Adding your Company nickname
- Adding the name of your mail server
- Uploading two company logos in different sizes
- Providing your Trading Exchange URL

To add your nickname and mail server name

1 Log into the **Trading Exchange Account Setup** page.

   The URL is an extension of your home page, for example:

   http://www.*yourdomain*/trade/with/*yourcompany/*admin

   where:

   yourdomain is the name of your web server, and *yourcompany* is the Trading Exchange name you provided when you created your account.

2 Fill out the information request form that appears.

- In the **Company Nickname** field, enter your Company's nickname (abbreviation, acronym, initials, etc.), as you want it to appear elsewhere on your Web site.

- Add your mail server SMTP host name. This host name is the literal name of your site's mail server, for example:

  mailhost

3 Click **Next**.

   The page that appears lets you upload your logo for display on your home page.

4.3.1 Uploading your Company logo

In this step, you add your Company's logo to the home page of your Trading Exchange Web site.

Main logo specifications are:

- GIF format only

- Preferably 180 X 70 pixels; other sizes are acceptable, but not recommended.

- Web-optimized

- Must be named **mainlogo.gif**

Note: *Your company's logo will be best represented if you follow the 180 X 70 pixel guidelines. You should also consider including white space around the logo image as part of the design.*

To add your logo to your Trading Exchange home page

1 Click **Browse**.

2 Browse to the **mainlogo.gif** file that you prepared as your home page (main) logo.

3 Select the file.

4 Click **Upload**.

A confirmation page appears with your main logo.

5   Click **Next**.

The page that appears lets you upload your logo for display on your Web site's Help pages.

4.3.2 Uploading your Help Center logo

Many of the pages on your Trading Partner package are populated with online Help. These pages are stored in a Help Center. To personalize the Help pages, you can add a scaled-down version of your main logo, or another logo of your choice.

This procedure adds your Company's logo to your Trading Exchange's Help Center pages.

Help Center logo specifications are:

- GIF format only
- Preferably 120 X 50 pixels; other sizes are acceptable, but not recommended
- Web-optimized
- Must be named **helplogo.gif**

Note: *Your company's logo will be best represented if you follow the 120 X 50 pixel guidelines. You should also consider including white space around the logo image as part of the design.*

To add your logo to the Help Center

1   Click **Browse**.

2   Browse to the **helplogo.gif** file that you prepared as the Help Center logo.

3   Select the file.

4   Click **Upload**.

A confirmation page appears with your Help Center logo.

5   Click **Next**.

4.3.3 Adding your secure URL

Fill out the URL request page that appears.

6   On the displayed page, enter the secure URL to which your Trading Partners will send transaction data, for example:

https://www.tradingexchange.com

You must provide a secure URL. This URL will be added to your Trading Exchange's OnRamp software configuration so your Trading Partners can send transaction data to it.

7   Click **Next**.

The **Thank you** page appears.

8   On the **Thank you** page, click **Log Out**.

When you log back in again, you can access your newly configured Administrative Portal Web site.

4.4   Customizing automatic e-mail response letters

When you elect to either approve or deny membership in your Trading Exchange, the e*Xpressway Integrator Server system will automatically notify the Trading Partner of your decision via e-mail. You can customize the e-mail "letters" to read any way you want them to, or you can just edit them to add your company name for a more personalized response.

Make sure you include the secure URL you provided in step 6 under **"Adding your secure URL" on page 18** so new Trading Partners can find your Web site.

The automatic e-mail response letters are contained in two text file templates:

▪ **welcome.txt**

▪ **deny.txt**

Important: *Do not change the file names. For the e-mail response program to work properly, the file names must remain exactly as they are shown: lower case, spelled the same, with the .txt extension.*

When the e-mail response program initiates a *Welcome* letter to a Trading Partner, it first looks for the **welcome.txt** file in the *<yourTEname>* directory, where *<yourTEname>* is the name of your Trading Exchange URL. If it is not found in the *<yourTEname>* directory, the program next looks in the **base** directory. If the file cannot be found in either location, no letter is generated, and an error is written to a log file.

For example, the mail response program looks for the text file in the Trading Exchange directory that contains the Trading Partner folders, for example:

C:\eXpresswayServer\jakarta-tomcat-3.2.3\webapps\trade\exchange\base

If there are multiple Trading Partners on the system, and the e-mail templates are stored in the **base** directory, all Trading Partners will be sent the same letter.

4.4.1 Modifying the e-mail response templates

You can edit the mail response templates to personalize them to reflect your Trading Exchange information.

Sample Welcome letter template

The following is an example of the sample Welcome letter template, **welcome.txt**:

```
Dear New <trade-exchange-name> B2B Trading Member:

Welcome aboard!

The login information below, is all you need to access the
Member Web site and begin your B2B integration using industry-
leading SeeBeyond B2B software.

The Member Site is located at:

http://<your-domain-name-here>/trade/with/<te-name>

Your personal login information is:

Username: $(user-name)

Password: Please use the password you chose during
registration.

Once you log in, you will complete the following steps:

1. Review your Checklist and Setup Guide.

2. Download and install your OnRamp software.

3. Download, import, and configure your own custom OnRamp
Solution Package, which will translate messages between you
and your Trading Exchange.

4. Provide the Trading Exchange with your OnRamp URL.
```

```
5. Test and troubleshoot.

6. Go live.

Welcome!
```

To customize the Welcome letter template

1 Edit **welcome.txt**.

1 Change **<*trade-exchange-name*>** to the name of your Trading Exchange.

2 Change **<*your-domain-name-here*>** to your Trading Exchange Domain name.

3 Change **<*te-name*>** to the name you appended to your Member Web site URL.

4 Save the file.

Sample Denial letter template

The following is an example of the sample Denial letter template, **deny.txt**:

```
Dear New <trade-exchange-name> B2B Trading Member:

Unfortunately, your registration for the Trading Exchange has
been delayed.

Please call us at <phone-number> to discuss this matter.

Best,
```

<t*rade-exchange-nam*e> B2B

To customize the Denial letter template

1 Edit **deny.txt**.

2 Change both instances of **<*trade-exchange-name*>** to the name of your Trading Exchange.

3 Change **<*phone number*>** to your company phone number.

4 Save the file.

Managing your Web site

This chapter describes how to use the Administration Tools to manage your Web site.

This Chapter Includes:

5.0.1 Overview

e*Xpressway Integrator Server provides Web-based tools that let you manage your Trading Exchange Web site and develop solutions for the transaction file format differences that may exist between you and your Trading Partners.

5.0.2 e*Xpressway Integrator OnRamp Solution

The Trading Partner download package contains e*Xpressway Integrator OnRamp, a small-footprint e*Gate Schema (4.5.1) that enables communication from one HTTPS URL to another over the Internet, and a Configuration Manager utility.

5.0.3 OnRamp Customization Management

The **OnRamp Customization Management** page lets you view the OnRamp Solution Packages your Solution Provider has uploaded, the Trading Partner to which they are assigned, and the OnRamp Solution translation information. This page also lets you download and delete OnRamp Solution Packages.

5.0.4 OnRamp Solution Tools

The **OnRamp Solution Tools** page provides everything your Solution Provider needs to create OnRamp Solution Packages for your Trading Partners, including the OnRamp software environment and all executables that Solution Providers need to create custom OnRamp Solutions. The OnRamp Solution Tools consist of:

- The OnRamp Solution sample schema, which gives Solution Providers a head start on creating made-to-order OnRamp Solution Packages

- The Packager Tool, which your Solution Provider will use to create OnRamp Solution Packages for upload to your Web site

- in PDF format, the following documents for viewing, downloading, and printing:

  - *e*Xpressway OnRamp Customization Guide for Solution Providers*

  - *HTTPS e*Way Intelligent Adapter User's Guide*

  - *Batch e*Way Intelligent Adapter User's Guide*

  - *CGI Web Server e*Way Intelligent Adapter User's Guide*

5.0.5 Working with a Solution Provider

A Solution Provider must meet the following requirements:

- Unrestricted access to the e*Gate suite

- Expertise in customizing e*Gate schemas

Via your Web site, you will provide the Packager Tool to your Solution Provider. Without this tool, OnRamp Solutions cannot be packaged for upload to your Web site.

5.1 Setting up a Trading Partner

Setting up a Trading Partner consists of the following steps:

- The Trading Partner logs into your Trading Exchange Web site and registers.

- You approve or deny membership based on the information provided.

  - If denied, the registrant is notified via e-mail.

  - If approved, the Trading Partner is notified via e-mail, then logs into your Web site and sets up an account on your Trading Exchange server.

- Following the instructions on the Web pages, the Trading Partner downloads, installs, and configures the Trading Partner OnRamp software.

- You provide the OnRamp Solution and the Packager tool to your Solution Provider.

- Using e*Gate Enterprise Manager, the Solution Provider creates an OnRamp Solution for the Trading Partner.

- Using the Packager Tool, the Solution Provider creates the OnRamp Solution Package from the new schema.

- Using the Uploader tool, the Solution Provider uploads the OnRamp Solution Package to your e*Xpressway Integrator server Web site.

- The OnRamp Solution Package is made available for download by Trading Partners from your **OnRamp Solutions** page.

- The Trading Partner downloads and installs the OnRamp Solution.

- The Trading Partner signs up and submits their URL.

- You add the Trading Partner's URL to your Trading Exchange.

- The Trading Partner sends a test message to your Trading Exchange URL.

- When the message is received by the Trading Exchange server, the server automatically sends a response to the Trading Partner.

- When the response is received, the Trading Partner can go live and begin trading.

5.2 Managing OnRamp Solution Packages

5.2.1 Viewing available OnRamp Solution Packages

The **OnRamp Customization Management** page shows the OnRamp Solution Packages that are on your server and currently available for download by Trading Partners. OnRamp Solution details are also displayed on the page (package name, version, translations, etc.).

The following tools let you manage your OnRamp Solutions Packages:

- The **Download** button let you download OnRamp Solution Packages.

- The **Delete** button lets you delete OnRamp Solution Packages.

- The **Notes** button launches a window with information about the OnRamp Solution Package (comments added by the Solution Provider).

- The **Uploader** button takes you to the **Uploader** page for uploading OnRamp Solution Packages.

5.2.2 OnRamp Solution Tools

The OnRamp Solution Tools include:

- The OnRamp Solution Package (sample schema)

- The Packager Tool

- The e*Xpressway Integrator OnRamp Customization Guide for Solution Providers (PDF).

e*Xpressway Integrator OnRamp Solution Package

The e*Xpressway Integrator OnRamp consists of the complete OnRamp software environment, including all executables. Your Solution Provider will use this tool to develop OnRamp Packages for Trading Partners with different collaboration requirements. OnRamp debugging support programs are also included. For more information, see **"Cleanup programs for Trading Partners" on page 27**.

Packager Tool

The Packager Tool tool lets your Solution Provider "zip up", (package) new OnRamp Solution Packages for upload to the **OnRamp Customization Management** page for download by Trading Partners.

e*Xpressway Integrator OnRamp Customization Guide for Solution Providers

This guide, in PDF format, contains instructions for downloading, creating, packaging, and uploading OnRamp Solution Packages. In addition to the necessary tools, make sure your Solution Provider has access to this Guide.

5.3 Managing Trading Partners

5.3.1 Registration

On the **Trading Partner Management** page, you can review new registrations for membership and then approve or deny membership in your Trading Exchange via e-mail.

5.3.2 Trading Partner URLs

You can view a list of approved Trading Partners who are ready to integrate with your Trading Exchange and test their Trading Partner software.

Resetting a denial record in your database

If you deny Trading Exchange membership to a potential Trading Partner, and then reconsider and approve them, you must go into your database and modify the denial record.

To reset a denial record

1 Using your Oracle editor, open the **Partner Table**.

2 Locate the Partner's status record.

3 Set **Review_Status** to **zero** (0)

4 Set **Review_Date** to **null**.

For more information, see your Oracle database administrator.

5.3.3 Tracking Trading Partners

You can view an alphabetical list of your current Trading Partners and their current status with your Trading Exchange. For example:

- Registration Pending: The Trading Partner's registration information has been received, but is not yet approved or denied.

- Registration Approved: The Trading Partner has been approved, and the Trading Exchange is waiting for their URL.

- Registration Denied: Membership in the Trading Exchange has been denied.

- Signup Pending: The Trading Partner has been approved, their URL has been submitted, but they are not yet added to the Trading Exchange.

- Exchange Member: The Trading Partner's URL has been added to the Trading Exchange. The Trading Partner is ready to test communications.

You can also view an individual Trading Partner's registration information by clicking the Partner's name.

5.3.4 Viewing a Trading Partners' log file

Each Trading Partner's OnRamp creates and maintains a log of transactions and exceptions. The contents of this file will help you and your Trading Partners locate and repair errors, should they occur. You can remotely view the contents of this log file by doing the following:

1   Start your browser.

2   In the **Address** field, type **https://<*domainname*>.com:2050**

   where:

   <*domainname*> is the domain name of the Trading Partner.

   An index page is displayed in your browser.

3   Click the <*e*Way*>**.log** link,

   where:

   <*e*Way*> is the name of the e*Way that generated the log file.

   A printable list of transaction and exception activity is displayed in your browser.

5.4   Updating your Web site

The **Personalization Management** page lets you update:

- Your Company information

- Your main logo (originally uploaded when you installed e*Xpressway Integrator Server)

- Your Help Center logo (uploaded after your main logo)

- Your Transport protocol (the Trading Exchange's URL to which your Trading Partners send transaction data)

5.5 Cleanup programs for Trading Partners

There are two utilities located in the **\client\bin** directory where e*Xpressway Integrator Onramp is installed at the Trading Partner site: **CleanUpQueues.cmd** and **CleanUpLogs.cmd**.

- The **CleanUpQueues.cmd** program purges all pending IP transactions and temporary files.
- The **CleanUpLogs.cmd** program purges all log files in the **\client\logs** directory.

These programs help maintain a clean environment at the Trading Partner site if OnRamp debugging is ever necessary, and are intended to aid you in supporting your Trading Partners.

Installing the sample TE schema

This chapter describes how to install the sample Trading Exchange (TE) schema.

The sample TE schema was installed on your system as a value-added component of e*Xpressway Integrator Server.

This Chapter Includes:

6.1 About the installation

To test communications with Trading Partners via HTTPS, install the sample schema and customize it using e*Gate Enterprise Manager.

To install the sample schema

1 Go to the directory where you installed e*Xpressway Integrator Server.

2 Open the **samples** folder.

3 Using your archive utility, open the **eXI_Sample_Java_TE.zip** file.

4 Extract the sample schema files into the current directory or another directory of your choice (for example **c:\temp**).

5 Start e*Gate Enterprise Manager.

6 Log into e*Gate as Administrator.
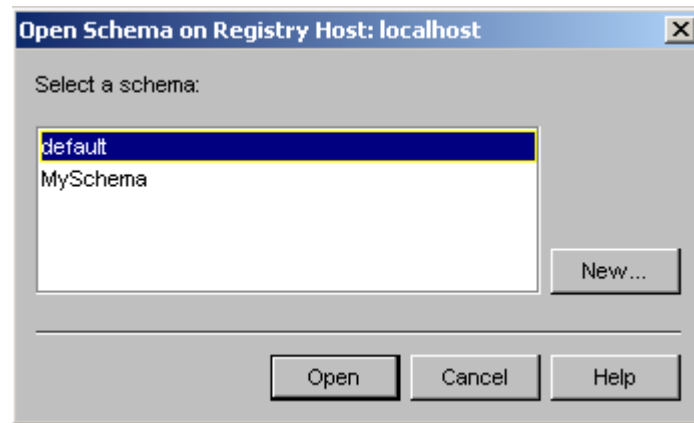
7   In the **Open Schema on Registry Host** dialog box, click **New**.

8   Type in the new schema name.
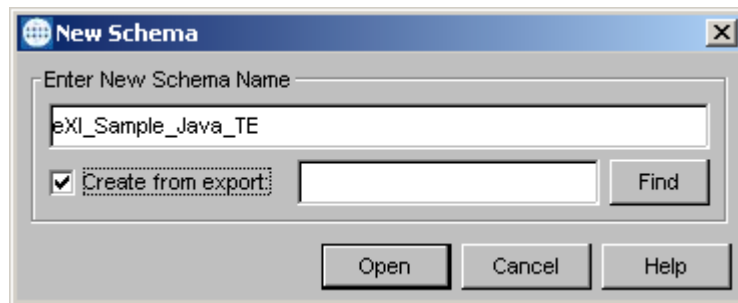
9   Select **Create from export**.

10 Click **Find**.

11 Go to the directory into which you placed the sample schema (for example, **c:\temp**).

12 Select the schema with the .exp (export) extension, for example, **eXI_Sample_Java_TE.exp**.

13 To import the schema, click **OK**.

14 Exit e*Gate Enterprise Manager.

15 Create a folder named **eXI_Sample_Java_TE** in the **<eGate>\server\registry\repository** directory.

16 Copy the runtime folder from the sample schema's directory (for example, **c:\temp**) into the **eXI_Sample_Java_TE** folder.

17 From the **runtime\etd** folder in the sample schema's directory, copy **myutil.jar** into **<eGate>\client\etd** .

18 From the sample schema's directory (for example, **c:\temp**)., copy **start_sample_te.bat** into the main **<eGate>** folder.

For more information, refer to the *HTTPS e*Way Intelligent Adapter User's Guide.*

6.2 Setting up security

After you finish importing and modifying the sample schema, you need to set up your e*Gate security apparatus by creating a keystore for your certificates and a truststore to identify your certificate authority, where:

- Your private key file = *filename*.key

- Your certificate file = *filename*.cert

Setting up security consists of three procedures:

- Creating your keystore

- Copying your truststore

- Modifying your configuration file

To create your keystore

1 On your desktop, open a **command prompt.**

2 Go to the directory where your private key and certificate files are stored, for example:

   c:\eGate\security

3 Type the following command:

   ```
   type <filename>.key <filename>.cert > <filename>.pem
   ```

   where:

   <filename>.key is the name of your private key and ***<filename>.cert*** is the name of your certificate file.

4 Press **Enter**.

5 Type the following command:

   ```
   <path>openssl pkcs12 -export -in <filename>.pem -out
   <filename>.pkcs12 -name <filename> -noiter -nomaciter
   ```

   where:

   <path> is the path to the **openssl** command and ***<filename>.pkcs12*** is the name of your keystore file.

6 Type the keystore password: **123456**

7 Press **Enter**.

8 Copy <***filename*>.pkcs12** to **c:\eGate\client\pkicert**.

To copy your truststore

9 In the sample schema directory, locate the **e*Xpressway.store** file.

10 Copy **e*Xpressway.store** into **c:\eGate\client\pkicert**.

To modify your configuration file

1 Using a text editor, edit the **HTTP_to_TE.cfg** file (see below).

```
# ------------------------------------------------------------------------
#               Section:SSL
# ------------------------------------------------------------------------

SSL|UseSSL|value=YES|set=NO,YES
SSL|HttpsProtocolImpl|value=com.sun.net.ssl.internal.www.protocol|set=com.sun.net.ssl.internal.www.protocol
SSL|Provider|value=com.sun.net.ssl.internal.ssl.Provider|set=com.sun.net.ssl.internal.ssl.Provider
SSL|X509CertificateImpl|value=|set=
SSL|SSLSocketFactoryImpl|value=|set=
SSL|SSLServerSocketFactoryImpl|value=|set=
SSL|KeyStore|value=c:\eGate\client\pkicert\<filename>.pkcs12|set=c:\eGate\client\pkicert\<filename>.pkcs12
SSL|KeyStoreType|value=PKCS12|set=
SSL|KeyStorePassword|value=063E53EC4A249D|set=
SSL|TrustStore|value=c:\eGate\client\pkicert\expressway.store|set=c:\eGate\client\pkicert\expressway.store
SSL|TrustStoreType|value=JKS|set=
SSL|TrustStorePassword|value=066A03FC8C45D4|set=
SSL|KeyManagerAlgorithm|value=|set=
SSL|TrustManagerAlgorithm|value=|set=
```

2 Set **UseUSSL** to **YES**.

3 Set **KeyStore** to the location and name of your keystore, for example:

   c:\eGate\client\pkicert\<filename>.pkcs12

4 Set **Truststore** to the location and name of your truststore file, for example:

   c:\eGate\client\pkicert\expressway.store

5 Save the configuration file.

6.3   Starting the sample TE schema

When the sample schema has been edited and your keystore and truststore have been set up, start the sample schema.

1 On your desktop, click the **Start eXpressway Server** icon.

2 In the **<eGate>** directory, do the following:

   A Locate the **start_sample_te.bat** batch file.

   B To start the schema, double-click **start_sample_te.bat**.

6.4   Support information

For support on e*Xpressway Integrator Server issues, contact SeeBeyond Customer Support.

SeeBeyond Customer Support
e-mail: support@seebeyond.com
Telephone: (800) 798-0448 (available on in the U.S.)
                (626) 471-6011

Glossary

Admin Site: Web site used by a Trading Exchange Administrator to personalize and manage a Trading Exchange account.

CA: *Certificate Authority.* Issues and manages security credentials and public keys for message encryption.

See also, *Certificate.*

Certificate: Electronic document that establishes credentials when performing transactions over the Internet. Issued by a Certificate Authority.

Config File: Used by Trading Partners to configure e*Ways. Included with each e*Way in an OnRamp Solution Package. Read by the Configuration Tool.

Config Tool: See *e*Xpressway OnRamp Configuration Manager*

eXI Server: See *e*Xpressway Integrator Server*

eXI OnRamp: See *e*Xpressway Integrator OnRamp*

Export File: Created by the Packager Tool to export an e*Gate schema.

e*Xpressway Integrator OnRamp: A small-footprint, downloadable component consisting of an e*Gate schema, that provides the base platform, base schema objects, Apache Web Server and the e*Xpressway OnRamp Configuration Manager. e*Xpressway OnRamp enables the exchange of transaction data with the Trading Exchange using HTTPS communication, PKI encryption, and File- based back-end systems at the Trading Partner site.

e*Xpressway Integrator OnRamp Configuration Manager: Used by Trading Partners to customize the configuration of an OnRamp Solution Package installed on e*Xpressway OnRamp. Enables customization of HTTPS, Security, and the File/FTP-based connections by importing an OnRamp Solution Package downloaded from the eXI Server, and setting values through a Graphical User Interface. Also called the Config Tool.

e*Xpressway Integrator Server: A server-based product that is hosted by a Trading Exchange that:

- Lets Solution Providers upload OnRamp Solution Packages.

- Lets Trading Partners download software and OnRamp Solution Packages.

- Provides customization and update tools for both the Trading Exchange administrator and the Trading Partner.

  Note: eXI Server does not provide transactional capabilities and is not to be confused with a Trading Exchange.

e*Xpressway Integrator Server Administrator (eXI Admin): Individual with Administrative-level privileges on the e*Xpressway Integrator Server who can organize Trading Exchanges and set up, personalize, and administer the Trading Exchange environment.

HTTPS: *Secure Hypertext Transfer Protocol.* A Web protocol that encrypts and decrypts data sent via the Internet by a client (like a web browser), as well as data that are returned to the client by the Web server. HTTPS uses the Secure Socket Layer (SSL) as a sub-layer under standard HTTP.

Member Site: Web site accessed by a Trading Partner after approval by a Trading Exchange. The Member Site is accessible only after requesting and receiving approval via the Public Site and obtaining a logon from the Trading Exchange Administrator. The Member Site provides access to the e*Xpressway Integrator OnRamp and OnRamp Solution Packages to enable integration of the Trading Partner with the Trading Exchange.

OnRamp Solution: Core component of e*Xpressway OnRamp. A scaled-down version of e*Gate 4.5 with a Registry Host, light Participating Host, limited e*Ways, and a Control Broker.

OnRamp Solution Center: Area hosted on the e*Xpressway Integrator Server for uploading and downloading OnRamp Solution Packages. Provides information on available OnRamp Solution Packages, including version, source, destination, and installation notes

OnRamp Solution Package: Integration software package developed from the OnRamp Solution e*Gate schema by a Solution Provider. An OnRamp Solution Package provides data translation between different data formats used by a Trading Partner and a Trading Exchange. OnRamp Solution Packages are hosted on the e*Xpressway Server, and are made available to Trading Partners via the e*Xpressway OnRamp Packager Tool. A list of downloadable OnRamp Solution Packages is available in the OnRamp Solution Center.

See also, *OnRamp Solution.*

Packager Tool: A software packaging tool used by a Solution Provider to prepare custom OnRamp Solution Packages to be made available to Trading Partners via the e*Xpressway Server Trading Exchange Admin Site.

PKI: *Public Key Infrastructure.* Enables users of an unsecured public network like the Internet to securely and privately exchange data through the use of a public and a private cryptographic key pair that is obtained and shared through a trusted authority. Public Key Infrastructure provides for a digital certificate that can identify an individual or an organization and directory services that can store and revoke the certificates.

Private Key: An encryption/decryption key known only to parties that exchange encrypted messages.

Properties File: Created by the Packager Tool to store information required by the OnRamp Solution Center and the Configuration Tool. Used by Trading Partners.

Public Key: A value provided by a designated authority as a key that, when combined with a private key derived from the public key, can be used to effectively encrypt messages and digital signatures.

See also, *PKI.*

Public Site: Web site accessed by a Trading Partner to request membership in a Trading Exchange.

See also, *Member Site*

Software Package: See *e*Xpressway OnRamp*

SP: See *Solution Provider*

Solution Provider: Systems Integrator, SeeBeyond Consultant, Trading Exchange Customer, or other appropriate individual with e*Gate skills who creates and packages OnRamp Solutions and uploads the Packages to the Trading Exchange's OnRamp Solution Center.

SSL: *Secure Socket Layer.* A common protocol for managing the security of message transmissions over the Internet. SSL uses the public and private key encryption system from RSA, which also includes the use of digital certificates.

TE: See *Trading Exchange*

TP: See *Trading Partner*

Trading Exchange: On the Internet, a business-to-business (B2B) organization that serves as an electronic broker for goods and services. A Trading Exchange communicates with a network of member Trading Partners.

In e*Xpressway Integrator, a Trading Exchange implements e*Xpressway Integrator Server to provide integration and transactional services to Trading Partners via the Internet.

Trading Partner: On the Internet, a business-to-business (B2B) organization that is a member of one or more Trading Exchanges. A Trading Partner communicates with a trading Exchange to buy or sell goods and services. Trading Partners send and receive business transaction data over the Internet via Trading Exchanges.

In e*Xpressway Integrator, a Trading Partner deploys small-footprint software components downloaded from the e*Xpressway Integrator Server to communicate with a Trading Exchange.

Uploader Tool: A Web-based tool used by a Solution Provider to upload OnRamp Solution Packages created with the Packager Tool.

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