Installation Guide

iPlanet™ TradingXpert

Version 3.5.1 for Solaris 2.6

December 2001

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TradingXpert System About this Book

This Guide provides instructions for installing the components of iPlanet's TradingXpert System 3.5.1. It includes prerequisites, preinstallation, and postinstallation tasks that you must perform in order to ensure a successful installation.

iPlanet TradingXpert provides companies with a comprehensive software solution for setting up and operating a cost-effective and easy-to-use electronic commerce system that is built upon Internet technologies.

The following topics are covered in this section:

- Before You Begin
- Audience and Roles
- Organization
- Documentation Set
- Conventions

iPlanet TradingXpert is subject to the terms detailed in the license agreement accompanying it.

Before You Begin

Downloading the Latest Version of Any TradingXpert Document

We continuously update the TradingXpert documentation. You can download the latest version from:

http://docs.iplanet.com/docs/manuals/trade.html

Audience and Roles

This Guide is written for the system administrator who installs and administers TradingXpert.

What You Need to Know

The *iPlanet ECXpert Installation Guide* is written with the assumption that you understand the basics of the operating system on which you are running this software as well as iPlanet ECXpert and the iPlanet Application Server (iAS). In addition, the site administrator must have Administrator privileges.

The documentation also assumes you have the following basic background:

- a general understanding of the Internet and the World Wide Web
- experience in the setup and management of web services
- an understanding of your company's electronic commerce system architecture
- basic knowledge of the NAS architecture and functionality

Note For administrators planning to extend the utility ofTradingXpert by building customized forms, a strong background in Java and NAS is recommended.

Organization

The *iPlanet TradingXpert Installation Guide* is structured as follows:

- Chapter 1, "Preinstallation Tasks," describes system hardware and software requirements and preinstallation planning.
- Chapter 2, "Installing TradingXpert," describes the installation process step by step.
- Chapter 3, "Postinstallation Tasks," describes how to test the system to ensure it is fully operation.
- Appendix A, "TradingXpert Test Data Import Files,"describes how to import and delete optional test data provided on the installation disk.

Documentation Set

The following is a list of current iPlanet TradingXpert documentation:

- *iPlanet TradingXpert Installation Guide*
- *iPlanet TradingXpert Administrator's and Developer's Guide*
- Any accompanying Release Notes. (Release Notes contain documentation errata, software patches, and a known bugs list.)

ECXpert and Other Documentation

- *iPlanet ECXpert Administrator's Guide*
- *iPlanet ECXpert Developer's Guide*
- *iPlanet ECXpert Operations Reference Guide*
- *iPlanet ECXpert Installation Guide*
- *iPlanet Application Server (iAS) Overview and Installation Guide*
- *Developing iPlanet Application Server (iAS) Extensions*

If you are using TradingXpert for electronic data interchange (EDI), the following documentation is also useful:

- the UN/EDIFACT on-line documentation on the World Wide Web at URL http://www.unece.org/trade/untdid/, for detailed information about EDI standards.
- the *Electronic Data Interchange X12 Standards*, for a technical reference on EDI implementation (document no. ASC X12S/95-533, available from the ASC X12 Secretariat, Data Interchange Standards Association, Inc., 1800 Diagonal Road, Suite 200, Alexandria, VA 22314-2852, 703.548.7005), or at: http://www.disa.org.

Conventions

A number of typographic conventions are used throughout this manual to help you recognize special terms and instructions. These conventions are summarized in the following table.

Convention	Meaning	Example
boldface	items on the screen that you manipulate	Click the **Submit** button to save your changes.
	names of keys	Press **Enter** to clear the message.
boldface numbered steps	higher level descriptions of tasks you perform (more detailed instructions follow)	**1. Enter the group information.** Enter the name in the **Group Name** field, and a short description in the **Description** field.
italics	key words, such as terms that are defined in the text	The notices posted on an electronic BBS are called *articles*.
	names of books	For more information, refer to the *iPlanet ECXpert Installation Guide*.
	file names	The associated data is stored in the Dispatcher section of the *ecx.ini* file.
`courier font`	command line input or output	Enter the following command: `ls *.mle`
	text file content (HTML templates, config files)	<TITLE>Password Check</TITLE> <IMG SRC="/ui/icons/hd_svcs.gif">
	code samples	**Syntax** const char* getName() const
square brackets, [...]	In command syntax, items within square brackets are *optional*.	In the following example: nsusrgrp [**-v**] insert [**-l**] **-k** *key arguments* **-r act=***relation action,* **usrid=***ID* | **usrlogin=***login* • **-v** and **-r** are optional. • You may specify either **usrid** or **usrlogin**. • You must substitute valid values for italicized items.
vertical line (|)	In command syntax, items on either side are valid *alternatives*.	
courier italics	In command syntax, items in italics are *not* literals.	
em dash (—)	"none" or "nothing"	**Arguments** —

Chapter

1

Preinstallation Tasks

This section includes information you should know and tasks you must perform before you can install iPlanet TradingXpert 3.5.1.

The following topics are covered in this section:

- Supported Version Combinations of TradingXpert and ECXpert
- Planning Your Configuration
- Installing Supporting Software
- Address Configuration Issues
  Cache Requirements for the User Interface
- TradingXpert Directory Structure

Supported Version Combinations of TradingXpert and ECXpert

TradingXpert 3.5.1 works with ECXpert 3.6.

Planning Your Configuration

Before you begin the installation of TradingXpert, take some time to plan your system configuration relative to ECXpert. TradingXpert works very closely with ECXpert. You may install TradingXpert on the same machine as ECXpert (Figure 1.1), or you may install TradingXpert on a different server (Figure 1.2).

Note When TradingXpert and ECXpert are installed on different servers, both servers *must* be operating on the same platform: Sun Solaris, or Windows NT.

Figure 1.1 TradingXpert, NAS,and ECXpert on the same machine

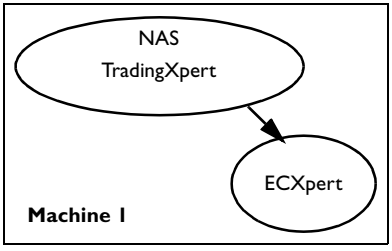
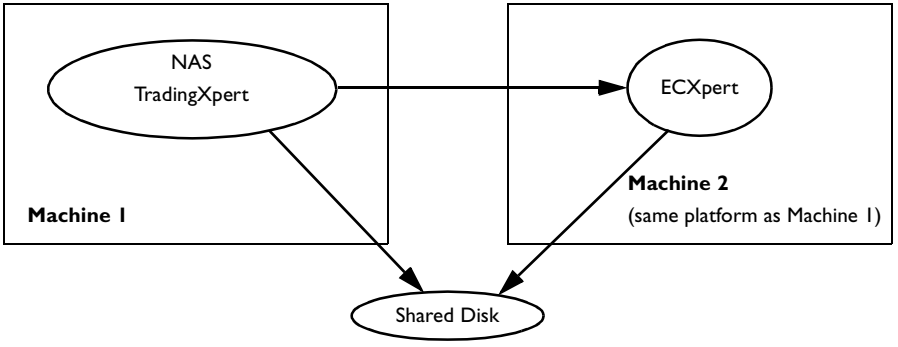


Figure 1.2 TradingXpert and NAS on different machine from ECXpert



Installing Supporting Software

Important When you install NAS, be sure that you are logged on as the ECXpert administrator user—typically "actraadm."

Before you can install TradingXpert 3.5.1, you must first install and configure:

- **Netscape ECXpert 3.0 or 3.0 with Service Pack 1, and Oracle**

  For detailed instructions, see the *iPlanet ECXpert Installation Guide*.

- **Netscape Application Server (NAS), either version 4.0 or 4.0 with Service Pack 2**

  For detailed installation instructions, see "Installing NAS" on page 20.

- **Netscape Application Server (NAS) ECXpert Extension**

  For detailed instructions on installing the NAS ECXpert extension—as well as the Netscape Extension Builder (NEB) Runtime Layer necessary to use it—and the TradingXpert application in one step, see "Installing the ECXpert Extension to NAS and TradingXpert Together" on page 38.

  For detailed instructions on installing the extension separately, see "Installing the ECXpert Extension to NAS Separately" on page 39 .

Address Configuration Issues

Depending on how your system is configured, you will have to perform certain tasks as part of installing TradingXpert 3.5.1. Use the information in Table 1.1 to determine which steps you must perform.

Note Throughout this table, *$NASDIR* represents the directory under which iPlanet Application Server (iAS) is installed, and *$NSBASE* represents the directory under which ECXpert is installed.

Table 1.1 Configuration Issues

If...	Then you must...
TradingXpert and ECXpert will reside on **the same** machine	See "Installing TradingXpert Separately" on page 40 for details of these tasks: •Share the ECXpert configuration file with NAS in one of two ways:Link the configuration file to `BDGHOME`: —Set `BDGHOME` to the location of the ECXpert install, i.e., `setenv BDGHOME /<disk1>/actraadm/NS-apps/ECXpert` NAS will use the same *ecx.ini* file that ECXpert uses. *or* •Copy the configuration file to NAS: —Assuming NAS 4.0 is installed in */disk1/nas40/nas*, create another directory, */disk1/nas40/config*. Note: NAS will create a directory */disk1/nas40/nas/config* during installation, but NAS will only be able to see *ecx.ini* in */disk1/nas40/config*. —Unset `BDGHOME` and copy */disk1/actraadm/NS-apps/ECXpert/config/ecx.ini* to */disk1/nas40/config/ecx.ini*. If you update the ECXpert configuration file, be sure to copy any changes over to */disk1/nas40/config/ecx.ini*. If `BDGHOME` remains set to the ECXpert install, NAS will continue to use the *ecx.ini* pointed to by `BDGHOME`, i.e., */disk1/actraadm/NS-apps/ECXpert/config/ecx.ini*. Note: One side effect of unsetting `BDGHOME` is the ECXpert command line `submit` utility will not work. • Give the TradingXpert owner privileges to access (read) the ECXpert *$NSBASE/NS-apps/ECXpert/data* directory.

Table 1.1 Configuration Issues (Continued)

If...	Then you must...
TradingXpert and ECXpert will reside on **different** machines	See "Configuring TradingXpert on a Different Machine from ECXpert" on page 44 for details of these tasks: • Make changes in the ECXpert configuration file as specified in "Configuring TradingXpert on a Different Machine from ECXpert" on page 44. • If you have not done so already, install NFS. NFS is required to allow TradingXpert to display certain portions of the remote ECXpert directory structure. • Give the TradingXpert owner privileges to access (read) the ECXpert *$NSBASE/NS-apps/ECXpert/data* directory. • Make sure that the user you log on as when you administer TradingXpert eitherhas `root` privileges or is a member of the `dba` group that owns the Oracle client files.
TradingXpert and **Oracle** will reside on **different** machines.	• Install Oracle client software on the local TradingXpert machine. This is necessary because TradingXpert must have access to all Oracle client libraries. See your Oracle documentation for instructions for installing the Oracle client software.

Cache Requirements for the User Interface

For the optimum performance of the TradingXpert user interface, we recommend that users maintain their web browser's default disk cache and memory cache sizes.

The default disk cache and memory cache sizes for Netscape Communicator 4.6.1 NT are each 1024 KB.

TradingXpert Directory Structure

The directory structure created in the TradingXpert install process is diagrammed in Figure 1.3.

Figure 1.3 TradingXpert directory structure

Directory	Description
$NASDIR/APPS/FX	The directory in which TradingXpert is installed
FX.gxr	NAS registration info file for TradingXpert 3.5.1
common	Core Java files (avoid modifying these), *FXproperties* file, and `txsetpasswd` utility
document	Document-related Java files
unsubmitted	Temporary directory in which TradingXpert works
events	Event-related Java files
formsen_us	Form-related files
default	Default templates, order and rules files
from_scratch_data	Default data for documents from scratch
login	Login-related Java files
maps_etc	Map-related files
Customization	cinfo templates
import	Optional import data files for adding or deleting memberships, partnerships, and service lists for the test scenario
map_sources	Zip files of all map source files
maps	Default map files
newmember	Optional login page with new member self-registration
reports	Actuate Report-related files
DocumentStatus.rox	Executable to generate optional document status reports in Actuate
source	
DocumentStatus.rod	Source file for DocStatus.rox
sampledata	Sample data files
profile	Profile-related Java files

Directory	Description
templatesen_us	NAS templates
document	
error.html	
events	
inbound	
login	
messages.txt	
outbound	
profile	
tradeCenter	
tradeCenter	TradeCenter-related Java files
weben_US	Static HTML files (will be linked to the NAS HTTP docs directory)
banner	
events.html	Event Login page
frameset.html	
help.html	
images	
menu	
help	
index.html	
javascript	
menu	
styles	tradingxpert.css file

Chapter

2

Installing TradingXpert

This chapter describes how to install, configure, and test the components of the iPlanet TradingXpert Version 3.5.1 with NAS.

The following topics are discussed in this section:

- Installing iPlanet TradingXpert with Netscape Application Server (NAS)
- Installing TradingXpert Separately
- Configuring TradingXpert on a Different Machine from ECXpert
- Migrating from TradingXpert 3.0 to 3.5.1

Installing iPlanet TradingXpert with Netscape Application Server (NAS)

Important Install all TradingXpert modules as the same owner:group who installed ECXpert and the Netscape Enterprise Server (NES) instance associated with NAS.

Install the TradingXpert modules in the following order:

1. **Netscape Application Server (NAS)**

   For detailed installation instructions, see "Installing NAS" on page 20.

2. **Netscape Application Server (NAS) ECXpert Extension**

   For detailed instructions on installing the NAS ECXpert extension—as well as the Netscape Extension Builder (NEB) Runtime Layer necessary to use it—and the TradingXpert application in one step, see "Installing the ECXpert Extension to NAS and TradingXpert Together" on page 38.

   For detailed instructions on installing the extension separately, see "Installing the ECXpert Extension to NAS Separately" on page 39.

3. **iPlanet TradingXpert**

   For detailed instructions on installing the NAS ECXpert extension and the TradingXpert application in one step, see "Installing the ECXpert Extension to NAS and TradingXpert Together" on page 38.

   For detailed instructions on installing the TradingXpert application separately, see "Configuring TradingXpert on a Different Machine from ECXpert" on page 44.

Installing NAS

Note iPlanet Application Server (iAS) must be installed by the same owner:group who installed ECXpert and the Netscape Enterprise Server (NES) instance associated with NAS.

1. **Log on using the ECXpert Administrator userid, generally "actraadm."**
2. **Remove the ECXpert *$NSBASE/lib* directory from LD_LIBRARY_PATH, if it is set in the administrator's *.profile* or *.login* file.**

3. **Insert the NAS 4.0 CD-ROM in your system's CD-ROM drive.**

   Use the CD-ROM in your NAS 4.0 package.

4. **Change to the NAS 4.0 Install directory.**

   Change to the install directory specified in your NAS 4.0 documentation. For example,

   ```
   # cd /cdrom/solaris/
   ```

5. **Run the installation script.**

   ```
   # ./setup
   ```

   Figures 1-31 show each installation screen. When you are prompted for information, enter the values shown in the corresponding figure.

Note For more detailed information about each installation screen, as well as other issues related to installation, refer to the *iPlanet iPlanet Application Server (iAS) 4.0 Overview and Installation Guide* included with NAS 4.0.

6. **Add the ECXpert *$NSBASE/lib* directory back to LD_LIBRARY_PATH.**

   Use the following syntax to modify the environment variable in the administrator user's *.profile* or *.login* file:

   For the C shell:

   ```
   setenv LD_LIBRARY_PATH $NSBASE/lib:$LD_LIBRARY_PATH
   ```

   For the Bourne shell:

   ```
   LD_LIBRARY_PATH=$NSBASE/lib:$LD_LIBRARY_PATH
   export LD_LIBRARY_PATH
   ```

Note In order to modify or develop Java programs for NAS, you must first set up the *$CLASSPATH* variable. See "Testing Your TradingXpert Installation" on page 52 for instructions on setting the *$CLASSPATH* variable.

Next Step Once the script has successfully completed, continue to either "Installing the ECXpert Extension to NAS Separately" on page 39 or "Installing the ECXpert Extension to NAS and TradingXpert Together" on page 38.

Figure 2.1 Netscape Server Products Installation Screen 1

```
Netscape Communications Corp.

Netscape Server Products Installation/Uninstallation

Welcome to the Netscape Server Products installation program.

This program will install Netscape Server products and the
Netscape Console on your computer.

It is recommended that you have "root" privilege to install the
software.

Tips for using the installation program:
- Press "Enter" to choose the default and go to the next screen
- Type "Control-B" to go back to the previous screen
- Type "Control-C" to cancel the installation program
- You can enter multiple items using commas to separate them.
  For example: 1, 2, 3


Would you like to continue with installation? [Yes]: <ENTER>
```

Figure 2.2 Netscape Server Products Installation Screen 2

```
Netscape Communications Corp.

Netscape Server Products Installation/Uninstallation

BY INSTALLING THIS SOFTWARE YOU ARE CONSENTING TO BE BOUND BY
AND ARE BECOMING A PARTY TO THE AGREEMENT FOUND IN THE
LICENSE.TXT FILE. IF YOU DO NOT AGREE TO ALL OF THE TERMS
OF THIS AGREEMENT, PLEASE DO NOT INSTALL OR USE THIS SOFTWARE.


Do you agree to the license terms? [No]: Yes
```

Figure 2.3 Netscape Server Products Installation Screen 3

```
Netscape Communications Corp.

Netscape Server Products Installation/Uninstallation

Select the items you would like to install:

   1. Netscape Servers
       Installs Netscape Servers with the integrated Netscape Console
      onto your computer.

   2. Netscape Console
       Installs Netscape Console
      as a stand-alone Java application on your computer.

To accept the default shown in brackets, press the Enter key.


Select the component you want to install [1]: <ENTER>
```

Figure 2.4 Netscape Server Products Installation Screen 4

```
Netscape Communications Corp.

Netscape Server Products Installation/Uninstallation

Choose an installation type:

   1. Express installation
       Allows you to quickly install the servers using the most
       common options and pre-defined defaults. Useful for quick
      evaluation of the products.

   2. Typical installation
      Allows you to specify common defaults and options.

   3. Custom installation
      Allows you to specify more advanced options. This is
     recommended for experienced server administrators only.

To accept the default shown in brackets, press the Enter key.


Choose an installation type [2]: 1
```

Figure 2.5 Netscape Server Products Installation Screen 5

```
Netscape Communications Corp.

Netscape Server Products Installation/Uninstallation

This program will extract the server files and install them
into a directory you specify. That directory is called the
server root in the product documentation and will contain
the server programs, the Administration Server, and the server
configuration files.

To accept the default shown in brackets, press the Enter key.


Install location [/usr/netscape/server4]: /disk01/nas40
```

Figure 2.6 Netscape Server Products Installation Screen 6

```
Netscape Communications Corp.

Netscape Server Products Installation/Uninstallation

Netscape Server Products components:

Components with a number in () contain additional subcomponents
which you can select using subsequent screens.

    1. Netscape Server Family Core Components (3)
    2. Netscape Directory Suite (2)
    3. Administration Services (2)
    4. Netscape Application Server Suite (4)


Specify the components you wish to install [All]: <ENTER>
```

Figure 2.7 Netscape Server Products Installation Screen 7

```
Netscape Communications Corp.

Netscape Server Products Installation/Uninstallation

Choose a Unix user and group to represent the Netscape server
in the user directory.  The Netscape server will run as this user.
It is recommended that this user should have no privileges
in the computer network system.  The Administration Server
will give this group some permissions in the server root
to perform server-specific operations.

If you have not yet created a user and group for the Netscape
server,create this user and group using your native UNIX
system utilities.

To accept the default shown in brackets, press the Return key.


System User [actraadm]: <ENTER>
System Group [actraadm]: <ENTER>
```

Figure 2.8 Netscape Directory Installation Screen 1

```
Netscape Communications Corp.

Netscape Directory Installation/Uninstallation

Please enter the administrator ID for the Netscape configuration
directory server.  This is the ID typically used to log in to the
console.  You will also be prompted for the password.


Netscape configuration directory server
administrator ID [admin]: <ENTER>
Password:
Password (again):
```

Note Do not include spaces in the password.

Figure 2.9 Netscape Directory Installation Screen 2

```
Netscape Communications Corp.

Netscape Directory Installation/Uninstallation

Certain directory server operations require an administrative user.
This user is referred to as the Directory Manager and typically has a
bind Distinguished Name (DN) of cn=Directory Manager.  Press Enter to
accept the default value, or enter another DN.  In either case, you
will be prompted for the password for this user.  The password must
be at least 8 characters long.


Directory Manager DN [cn=Directory Manager]: <ENTER>
Password:
Password (again):
```

Figure 2.10 Application Server Installation Screen 1

```
Netscape Communications Corp.

Application Server Installation/Uninstallation

Start of the Netscape Application Server (NAS) installation.


Enter HOSTNAME for this machine [hostname.company.com]: <ENTER>


Do you want to use the Directory Server installed locally in
'/disk01/nas40' to connect to NAS ? yes
```

Figure 2.11 Application Server Installation Screen 2

```
Netscape Communications Corp.

Application Server Installation/Uninstallation

Global configuration parameters for this NAS installation are stored
in
the configuration Directory Server in a named location.  Other NAS
installations using this Directory Server can have their own
parameters
if they use a different global configuration name.

Multiple NAS installations can share the same configuration
information
if they use the same name on the same Directory Server.


Please provide a name for your NAS global configuration parameters
==>  [nasconfig]: <ENTER>
```

Figure 2.12 Application Server Installation Screen 3

```
Netscape Communications Corp.

Application Server Installation/Uninstallation

Enter the product key which is available on the welcome letter
you received with your Netscape Application Server (NAS) package.


Product Key:
```

Figure 2.13 Application Server Installation Screen 4

```
Netscape Communications Corp.

Application Server Installation/Uninstallation

Netscape Application Server supports Netscape Enterprise Server 3.6.


Enter the FULL PATH of the Web Server Instance to be used,
or enter 'cgi' if you are using cgi.
For example:  /usr/ns-home/https-my_web_server


: /disk01/es362export/https-nas40_7779
```

Figure 2.14 Application Server Installation Screen 5

```
Netscape Communications Corp.

Application Server Installation/Uninstallation

Configuring the Netscape Web Server


Press ENTER to continue: <ENTER>
```

Note If you are installing NAS as a different owner than the web server owner, Figure 2.15 will appear. Press ENTER as prompted.

Figure 2.15 Application Server Installation Screen 5

```
Netscape Communications Corp.

Application Server Installation/Uninstallation

You belong to a different group than the one used to install the web
server!

Do you want to enable the Web Server user to access the registry and
plugin libraries ?  [y] <ENTER>
```

Figure 2.16 Application Server Installation Screen 6

```
Netscape Communications Corp.

Application Server Installation/Uninstallation

Choose the TCP/IP communication ports for NAS Administrator,
Executive Server, and CGI to KXS communication.


Port number for NAS Administrator (KAS)  [10817]: <ENTER>

Port number for Executive Server (KXS) to NAS communication [10818]
<ENTER>

Port number for CGI to KXS communication [10819] <ENTER>
```

Figure 2.17 Application Server Installation Screen 7

```
Netscape Communications Corp.

Application Server Installation/Uninstallation

Enter the number (0-32) of Java Servers (KJS) to install.


Number of Java Servers [1]: <ENTER>

Port number for Java Server (KJS) 1 to KXS communication [10820]
<ENTER>
```

Figure 2.18 Application Server Installation Screen 8

```
Netscape Communications Corp.

Application Server Installation/Uninstallation

Enter the number (0-32) of C++ Servers (KCS) to install.


Number of C++ Servers [1]: 0
```

Figure 2.19 Application Server Installation Screen 9

```
Netscape Communications Corp.

Application Server Installation/Uninstallation

Access to the Administration Server using the Netscape Application
Server Administrator (NASA) is password-protected.  When you access
the Administration Server, you will be prompted for the username and
password.


Username [admin]: <ENTER>
Password:
Password (again):
```

Figure 2.20 Application Server Installation Screen 10

```
Netscape Communications Corp.

Application Server Installation/Uninstallation

NAS requires the following information for database connectivity. You
will be asked whether to configure NAS for each of the supported
databases.

If you answer yes, you will be prompted for the home directory and
other information that NAS requires to work with your database(s).


Database Client Setup - Oracle

Do you want to configure NAS with Oracle connectivity ?  (y/n) [n]:
<ENTER>
```

Figure 2.21 Application Server Installation Screen 11

```
Netscape Communications Corp.
Application Server Installation/Uninstallation

Database Client Setup - Sybase


Do you want to configure NAS with Sybase connectivity ?  (y/n) [n]:
<ENTER>
```

Figure 2.22 Application Server Installation Screen 12

```
Netscape Communications Corp.
Application Server Installation/Uninstallation

Database Client Setup - Informix


Do you want to configure NAS with Informix connectivity ?  (y/n) [n]:
<ENTER>
```

Figure 2.23 Application Server Installation Screen 13

```
Netscape Communications Corp.
Application Server Installation/Uninstallation

Database Client Setup - IBM DB2


Do you want to configure NAS with IBM DB2 connectivity ?  (y/n) [n]:
<ENTER>
```

Figure 2.24 Application Server Installation Screen 13

```
Netscape Communications Corp.

Application Server Installation/Uninstallation

Warning :  No database is configured.  Some sample applications will
not work without configurating a database.  You can update the
registry later on to specify which database to work with sample
applications by configuring SOFTWARE\Netscape\Application
Server\4.0\CCS0\DAE\DATASOURCES "ksample" <your database>


Press ENTER to continue <ENTER>
```

Figure 2.25 Application Server Installation Screen 14

```
Netscape Communications Corp.

Application Server Installation/Uninstallation

Choose the Database Priority for use by Netscape Application Server
by entering the FIRST LETTER of the database with highest priority,
from the following list of databases.


==>  [ Oracle Sybase Informix DB2 ]: O

Choose the database with the next highest priority [ Sybase Informix
DB2 ] S
Choose the database with the next highest priority [ Informix DB2 ] I

Ranking by priority:  Oracle  Sybase  Informix  DB2

Press ENTER to continue: <ENTER>
```

Figure 2.26 Application Server Installation Screen 15

```
Netscape Communications Corp.

Application Server Installation/Uninstallation

Transaction Manager coordinates global transactions within a Java
Server (KJS).

Specify a mirror directory for storing the Transaction Manager
restart.bak file for each Java Server.

It is recommended that the MirrorDirectoryRoot be located on a
different hard drive than your NAS installation.


Enter the full pathname for MirrorDirectoryRoot

==> [/disk01/nas40/nas/CCS0/TXNMGR_MIRROR]:  <ENTER>
```

Figure 2.27 Application Server Installation Screen 16

```
Netscape Communications Corp.

Application Server Installation/Uninstallation

Transaction Manager LogVolumeDiskName

Specify where the Transaction Manager log file will be stored.

It is recommended that the LogVolumeDiskName(s) be located on a
different hard drive than your NAS installation, and that you use a
'raw device' if possible.


Enter the full pathname for the next LogVolumeDiskName

==> [/disk01/nas40/nas/CCS0/TXNMGR/ENG1/logVol]: <ENTER>
```

Figure 2.28 Application Server Installation Screen 17

```
Netscape Communications Corp.

Application Server Installation/Uninstallation

Configure NAS Resource Manager

This section allows you to configure Resource Manager for use with
the Transaction Manager.  Resource Manager will allow you to connect
to a database backend for global transactions.


Do you want to configure Resource Manager ?  [y]: n
```

Figure 2.29 Application Server Installation Screen 18

```
Netscape Communications Corp.

Application Server Installation/Uninstallation

Cluster Configuration for Data Synchronization


NAS supports Distributed Data Synchronization (DSync).
DSync maintains data across multiple Netscape Application Servers,
an important aspect of partitioned and distributed applications.

To configure DSync, you must know the IP addresses and Executive
Server(KXS) port numbers of ALL participating servers.


Will this server participate in DSync ?  [n]: <ENTER>
```

Figure 2.30 Application Server Installation Screen 18

```
Netscape Communications Corp.

Application Server Installation/Uninstallation

Indicate if you want to run NAS at the system startup


Do you want to run NAS automatically at system startup ?  [n]: <ENTER>
```

Figure 2.31 Application Server Installation Screen 19

```
Netscape Communications Corp.

Application Server Installation/Uninstallation

Finished with gathering of information.

Next, the Netscape Application Server files will be extracted.  After
that, the NAS configuration and registration based on your responses
will begin.


Press ENTER to continue: <ENTER>
```

Figure 2.32 Netscape Server Products Installation Screen

```
Netscape Communications Corp.

Netscape Server Products Installation/Uninstallation

Netscape Server Products Installation/Uninstallation

Extracting Netscape core components...
Extracting Netscape Server Family Core Components...
Extracting Netscape Core Java classes...
Extracting Java Runtime Environment...
Extracting Netscape Directory Server...
Extracting Netscape Directory Server Console...
Extracting Netscape Administration Server...
Extracting Netscape Console...
Extracting NAS Web Connector Component...
Extracting NAS Core Server Component...
Extracting NAS Administrator Component...
Extracting NAS Deployment Manager...
Extracting Netscape Application Server 4.0 Core Binaries...
```

```
Netscape Communications Corp.

Netscape Server Products Installation/Uninstallation

[slapd-hostname]: starting up server ...
[slapd-hostname]: [04/Oct/1999:10:43:19 -0700] - listening on all
interfaces port 12069 for LDAP requests
[slapd-hostname]: [04/Oct/1999:10:43:19 -0700] - slapd started.
Your new directory server has been started.
Created new Directory Server
Start Slapd  Starting Slapd server configuration.
Success Slapd Added Directory Server information to Configuration
Server.
Configuring Administration Server...
Your parameters are now entered into the Administration Server
database, and the Administration Server will be started.



Setting up Admininistration Server Instance...
Configuring Administration Tasks in Directory Server...
Configuring Global Parameters in Directory Server...
Netscape-Administrator/4.0 B98.323.0402



startup: listening to http://hostname, port 22914 as actraadm

Info: Cache expiration set to 600 seconds

Info: Cache expiration set to 600 seconds

Proceeding with installation of Netscape Application Server (NAS)...

Reading userinput log file .....done
Configuring web server plugin ..... done

     Steps to complete for the NAS install,
    along with the percent completed for each step:

 1.  Register NAS Deployment Manager
 2.  Make Database Access Parameter registry entries
 3.  Register NAS, Java & C++ engines
 4.  Register NAS dynamically loadable modules
 5.  Update Application Server startup scripts
 6.  Register NAS DLM
 7.  Extract Java JDK 1.1.6 into
     /disk01/nas40/nas/usr/java
 8.  Register NAS sample applications
 9.  Register Transaction Manager
10.  Register NAS in the Directory Server
11.  Configure Administrative Assistant (NASA)
12.  Application Server ACL registration
```

```
Netscape Communications Corp.

Netscape Server Products Installation/Uninstallation

 ---------------------------------------------------

     0%  10%  20%  30%  40%  50%  60%  70%  80%  90%  100%

     |    |    |    |    |    |    |    |    |    |    |

     **************************************************


Start Netscape Application Server
Start Netscape Web Server
Netscape-Enterprise/3.6 SP2 B99.113.0837
startup: listening to http://hostname.company.com, port 7779 as
actraadm


NOTE:  If you intend to run a NAS 2.1 application using JDBC 1.2 on
       this installation of NAS 4.0, please execute this script:

      /disk01/nas40/nas/bin/JDBCSWITCH_NAS21.sh

      Refer to the readme.html for detailed instructions.


Netscape Application Server installation COMPLETED

Press Return to continue... <ENTER>

Go to /disk01/nas40 and type startconsole to begin
managing your servers.
```

Installing the ECXpert Extension to NAS and TradingXpert Together

The installation disk includes a script that installs both the NAS ECXpert Extension and the TradingXpert application in one step. It also enables the Netscape Extension Builder (NEB) Runtime Layer, which by default is disabled in a new NAS installation.

Note If you choose to install the NAS ECXpert Extension and TradingXpert application separately, skip this section and proceed with "Installing the ECXpert Extension to NAS Separately" on page 39 and "Configuring TradingXpert on a Different Machine from ECXpert" on page 44.

Follow these steps to install both the NAS ECXpert Extension and the TradingXpert application:

1. **Log in as the same user under which you installed NAS.**

2. **If the NAS 4.0 slapd server is not already running, start it.**

   NAS 4.0's slapd server must be running for installation to succeed. When you install NAS 4.0, the installation starts the slapd server for you. If a user reboots the system, however, the slapd server must be started manually before NAS will start. To start it, execute the following command from the command line:

   $NASDIR<*NASDIR*>`/slapd-`<*server name*>`/start-slapd`

3. **Change to the TradingXpert directory.**

   ```
   # cd /cdrom/tradingxpert/
   ```

4. **Run the installation script.**

   ```
   # ./install_all
   ```

   This script will prompt you to enter the directory in which NAS is installed. This is the directory in which the */APPS/bin*, and */config* subdirectories exist—for example, */disk1/nas40/nas*. It will verify that the specified NAS directory is valid and will create subdirectories, if needed, in your $*NASDIR*/*APPS* directory.

   It will then install the NAS ECXpert Extension in the */$NASDIR/APPS/ecx* directory, and add files and subdirectories for the TradingXpert application under the */$NASDIR/APPS* directory. It will also enable the Netscape Extension Builder (NEB) Runtime Layer, which by default is disabled in a new NAS installation, and register the ECXpert Extension with NAS.

Next Step After installation is complete, configure the TradingXpert application. For detailed instructions, see "Installing TradingXpert Separately" on page 40.

Note If you use the *install_all.bat* script, you do not need to run the separate *extension/setup_exe* and *application/setup_exe* scripts to install the NAS ECXpert Extension or the TradingXpert application. Skip "Installing the ECXpert Extension to NAS Separately" on page 39 and "Configuring TradingXpert on a Different Machine from ECXpert" on page 44.

Installing the ECXpert Extension to NAS Separately

Note If you choose to install the NAS ECXpert Extension and the TradingXpert application in one step, per the instructions in "Installing the ECXpert Extension to NAS and TradingXpert Together" on page 38, skip this section.

If you choose to install the ECXpert Extension to NAS separately from the TradingXpert application, follow these steps:

1. **Log in as the same user under which you installed NAS.**

2. **If the NAS 4.0 slapd server is not already running, start it.**

   NAS 4.0's slapd server must be running for installation to succeed. When you install NAS 4.0, the installation starts the slapd server for you. If a user reboots the system, however, the slapd server must be started manually before NAS will start. To start it, execute the following command from the command line:

   $NASDIR<*NASDIR*>`/slapd-`<*server name*>`/start-slapd`

3. **Change to the TradingXpert extension directory.**

   ```
   # cd /cdrom/tradingxpert/extension
   ```

4. **Run the installation script.**

   ```
   # ./setup_exe
   ```

   This script installs the NAS ECXpert Extension in the *$NASDIR/APPS/ecx* directory; enables the Netscape Extension Builder (NEB) Runtime Layer, which by default is disabled in a new NAS installation; and registers the ECXpert Extension with NAS.

Next Step After installation is complete, install the TradingXpert application. For detailed instructions, see "Configuring TradingXpert on a Different Machine from ECXpert" on page 44.

Installing TradingXpert Separately

Note If you choose to install the NAS ECXpert Extension and the TradingXpert application in one step, per the instructions in "Installing the ECXpert Extension to NAS and TradingXpert Together" on page 38, skip this section.

Warning The NAS ECXpert Extension must be installed before you continue. Refer to "Installing the ECXpert Extension to NAS Separately" on page 39 for detailed installation instructions.

If you choose to install the TradingXpert application separately from the ECXpert Extension to NAS, follow these steps:

1. **Log in as the same user under which you installed NAS.**

2. **If the NAS 4.0 slapd server is not already running, start it.**

   NAS 4.0's slapd server must be running before NAS will start. When you install NAS 4.0, the installation starts the slapd server for you. If a user reboots the system, however, the slapd server must be started manually before NAS will start. To start it, execute the following command from the command line:

   $NASDIR`/slapd-`<*server name*>`/start-slapd`

3. **Insert the TradingXpert CD-ROM in your system's CD-ROM drive.**

4. **Install the NAS ECXpert Extension, if you have not yet done so.**

   Refer to "Installing the ECXpert Extension to NAS Separately" on page 39 for detailed installation instructions.

5. **Change to the TradingXpert application directory.**

   ```
   # cd /cdrom/tradingxpert/application
   ```

6. **Run the TradingXpert installation script.**

   ```
   # ./setup_exe
   ```

This setup script prompts you to enter the directory in which NAS is installed. This is the directory in which the */APPS*, */bin*, and */config* subdirectories exist—for example, */disk1/nas40/nas*.

The script then creates subdirectories under the */$NASDIR/APPS* directory and copies files into these subdirectories. It also registers all the applogics with NAS.

Next Step After installation is complete, configure the TradingXpert application. For detailed instructions, see "Installing TradingXpert Separately" on page 40.

Configuring TradingXpert with NAS

This section provides detailed instructions for configuring the components of your TradingXpert System when you are using it with NAS.

Note If TradingXpert and ECXpert are installed on different machines, you will *also* need to follow the additional instructions in "Configuring TradingXpert on a Different Machine from ECXpert" on page 44.

1. **Create a symbolic link from your NAS HTTP docs directory to the NAS web directory.**

   Change to the NAS HTTP document root directory.

   Then enter the following command:

   ```
   # ln -s $NASDIR/APPS/FX/web TX
   ```

   where *$NASDIR* is the directory under which NAS is installed.

Note If your HTTP server is installed on a different machine than NAS, simply copy the contents of the *$NASDIR/APPS/FX/web* directory into your NAS HTTP document root directory.

2. **Share the ECXpert configuration file with NAS in either one of two ways:**

   Link the configuration file to `BDGHOME`:

   — Set `BDGHOME` to the location of the ECXpert install, i.e., `setenv BDGHOME /<disk1>/actraadm/NS-apps/ECXpert`. NAS will use the same *ecx.ini* file that ECXpert uses.

   or

Copy the configuration file to NAS:

— Assuming NAS 4.0 is installed in */disk1/nas40/nas*, create another directory, */disk1/nas40/config*. Note: NAS will create a directory */disk1/nas40/nas/config* during installation, but NAS will only be able to see *ecx.ini* in */disk1/nas40/config*.

— Unset `BDGHOME` and copy */disk1/actraadm/NS-apps/ECXpert/config/ecx.ini* to */disk1/nas40/config/ecx.ini*. If you update the ECXpert configuration file, be sure to copy any changes over to */disk1/nas40/config/ecx.ini*.

If `BDGHOME` remains set to the ECXpert install, NAS will continue to use the *ecx.ini* pointed to by `BDGHOME`, i.e., */disk1/actraadm/NS-apps/ECXpert/config/ecx.ini*.

One side effect of unsetting `BDGHOME` is the command line `submit` utility will not work.

Note If TradingXpert and ECXpert are installed on different machines, skip this step and follow Step 6 in "Configuring TradingXpert on a Different Machine from ECXpert" on page 44.

3. Give the TradingXpert owner privileges to access (read) the ECXpert *$NSBASE/NS-apps/ECXpert/data* directory.

Note If TradingXpert, NAS, and ECXpert were all installed by the same user, this is not necessary.

4. Modify *$NASDIR/APPS/FX/common/FXproperties* as follows.

```
# root dir
FX.rootdir: /<disk1>/nas40/nas/APPS/FX/
```

Edit `FX.rootdir` to point to the TradingXpert directory under which directories like *common*, *document*, and *events* appear. Please note that the path ends with a slash.

```
# Base HREF
FX.basehref: http://<hostname>:<port>/<base>/
```

Edit `FX.basehref` to point to the base URL that you type to get to TradingXpert login screen, e.g., *http://host.company.com:5555/TX/*. Please note that the URL ends with a slash.

```
# Debugging flag
FX.debug: true
```

`FX.debug`, when set to true, prints a large number of messages to *kjs* logs to enable you to debug problems easily. Set this to false in a production environment.

```
# Location of ini file
FX.ecxini.file: /<disk1>/nas40/config/ecx.ini
```

Edit `FX.ecxini.file` to point to the path to the *ecx.ini* file. The NAS ECXpert Extension requires that you have a copy of *ecx.ini* in the */<disk1>/nas40/config* directory.

```
# session timeout value in minutes. Change to 30 for production
FX.session.timeout: 8
```

`FX.session.timeout` is the number of minutes between the last user interaction and the TradingXpert session timeout. If TradingXpert times out, the user will be requested to log in again. We recommend you set this value to 30 in a production environment.

```
# Set this to true if remote submission is to be used.
FX.remoteSubmission: false
```

If both TradingXpert and ECXpert are on a single machine, `FX.remoteSubmission` should be set to false. If TradingXpert is set up in a remote client configuration, with ECXpert on one machine and TradingXpert on a different machine, `FX.remoteSubmission` should be set to true.

```
# Prefix to be added to filenames when ECX is on remote machine
# For example, /h/ECXmachine is the mountpoint for ECX disk
# on TradingXpert machine. This is used ONLY if remoteSubmission
# is set to true
FX.remoteECXPathPrefix: </h/ECXmachine>
```

This prepends a path to files that is needed when ECXpert is installed on a different machine from TradingXpert. This is only used if `FX.remoteSubmission` is set to true.

The remainder of this file does not need to be edited unless you are using any of the optional features outlined in the *iPlanet TradingXpert Administrator's and Developer's Guide*. It is configured to work with TradingXpert as installed.

5. **Give write permissions to the directory *$NASDIR/APPS/FX/document/unsubmitted* to the user as whom you are installing TradingXpert.**

Note Turnaround document submissions will fail if you do not perform this operation.

```
# chmod +w  $NASDIR/APPS/FX/document/unsubmitted
```

6. **Stop and restart NAS.**

   Enter the following command to stop NAS:

   # *$NASDIR*/bin/KIVAes.sh stop

   where *$NASDIR* is the directory under which NAS is installed.

   Enter the following command to start NAS:

   ```
   #  $NASDIR/bin/KIVAes.sh start &
   ```

   where *$NASDIR* is the directory under which NAS is installed.

7. **Start up TradingXpert.**

   To access TradingXpert, use your browser to go to the following URL:

   http://<*hostname*>:<*port*>/<*base*>

Configuring TradingXpert on a Different Machine from ECXpert

This section provides details on the additional tasks you must perform, assuming the following scenario:

- "Machine 1" is the host for TradingXpert, NAS, the ECXpert Extension to NAS, and an Oracle client.
- "Machine 2" is the host for ECXpert and an Oracle client.
- "Oracle DB" is the host for the Oracle database server.

These instructions apply to an initial installation of TradingXpert on a separate machine, *or* to a migration of TradingXpert away from the same machine as ECXpert onto a different machine.

1. **Give the TradingXpert owner privileges to access (read) the ECXpert *$NSBASE/NS-apps/ECXpert/data* directory.**

Note If TradingXpert, NAS, and ECXpert were all installed by the same user, this is not necessary.

2. **Give the TradingXpert owner either `root` privileges or membership in the `dba` group that owns the Oracle client files.**

3. **If you have not done so already, install NFS.**

   NFS is required to allow TradingXpert to display certain portions of the remote ECXpert directory structure.

4. **Configure Machine 1 (TradingXpert) to access the database used by ECXpert on Machine 2.**

   — Edit the *tnsnames.ora* file.

   — Ensure that the Oracle client environment is properly set up.

5. **Modify the `[tcpip-connector]` section of the *ecx.ini* file on Machine 2 (ECXpert).**

```
[tcpip-connector]
...
port_location = static
admin_port_type = manual
admin_port = <any unused port>
listener_port_type = manual
listener_port = <any unused port>
```

6. **Share the ECXpert configuration file on Machine 2 (ECXpert) with Machine 1 (TradingXpert) in one of two ways:**

   Link the configuration file on Machine 2 to `BDGHOME` on Machine 1:

   — Set `BDGHOME` on Machine 1 to the location of the *ecx.ini* file on Machine 2. The *ecx.ini* file can be located anywhere on Machine 2, but it must be in a *config* directory. For example, if *ecx.ini* is at */usr/username/config/ecx.ini*, then `setenv BDGHOME /user/username/config/ecx.ini`.

   or

   Copy the configuration file to Machine 1:

   — Assuming NAS 4.0 is installed on Machine 1 in */disk1/nas40/nas*, create another directory, */disk1/nas40/config*, on Machine 1. NAS will create a directory */disk1/nas40/nas/config* during installation, but NAS will only be able to see *ecx.ini* in */disk1/nas40/config*.

— Copy the *ecx.ini* file from the ECXpert system to */disk1/nas40/config/ecx.ini* on Machine 1. If you update the ECXpert configuration file on Machine 2, be sure to copy any changes over to Machine 1.

7. **Modify the *ecx.ini* file on Machine 1 (TradingXpert).**

   — Copy the `[tcpip-connector]` section from Machine 2's (ECXpert) *ecx.ini* file.

   — Copy the following lines from the `[DB_SECTION]` of Machine 2's (ECXpert) *ecx.ini* file:

   ```
   DB_SERVER = <Oracle DB alias>
   DB_USER = <Oracle username>
   DB_PASSWORD = <password>
   ```

8. **Modify the *FXproperties* file on Machine 1 (TradingXpert).**

   — Turn on remote submission (`FX.remoteSubmission: true`).

   — Change the ECX path prefix (`FX.remoteECXPathPrefix: </h/ECXmachine>`).
   This is the prefix necessary to access the ECXpert directory tree from the remote machine where TradingXpert is installed. For example, if the ECXpert install directory is */disk1/NS-apps/ECXpert/...*, you might need to prepend this with something like */h/ECXhost* in order for the files to be located correctly—when TradingXpert attempts to access the ECXpert files from the TradingXpert machine, this (*/h/ECXhost*) would be prepended the ECXpert install directory (*/disk1/NS-apps/ECXpert/...*) in order to locate the files (*/h/ECXhost/disk1/NS-apps/ECXpert/...*).

9. **Restart ECXpert on Machine 2 (ECXpert).**

10. **Restart TradingXpert on Machine 1 (TradingXpert).**

11. **Restart Web server for NAS on Machine 1 (TradingXpert).**

Migrating from TradingXpert 3.0 to 3.5.1

Follow these steps to migrate from TradingXpert 3.0 to 3.5.1:

1. **Upgrade to ECXpert 3.0.**

   For detailed instructions for upgrading to ECXpert 3.0 from version 2.0 or version 1.1.1, see the *iPlanet ECXpert Installation Guide* included in your ECXpert package.

   In addition to performing the basic installation, create the Mercator maps, custom services, and ECXpert database schema you will need to do business with trading partners. For more information about these tasks, see the *iPlanet ECXpert Administrator's Guide* included in your ECXpert package.

2. **Back up your current customized TradingXpert application.**

3. **Upgrade from NAS 2.1 to NAS 4.0.**

   For detailed instructions and issues for upgrading NAS 2.1 to version 4.0, see the *iPlanet iPlanet Application Server (iAS) 4.0 Overview and Installation Guide* included with NAS 4.0.

   When you install NAS 4.0, we recommend that you perform the express installation, according to the instructions in "Installing NAS" on page 20. This will ensure the optimum performance of NAS with TradingXpert.

4. **Install the TradingXpert 3.5.1 application.**

   For detailed instructions, see "Installing iPlanet TradingXpert with Netscape Application Server (NAS)" on page 20.

5. **Compare your original *.java* and *.html* files with the newly-installed ones and modify the new files as necessary.**

   If you customized existing Java and HTML files in your TradingXpert 3.0 installation, update the TradingXpert 3.5.1 files with the customized information. Recompile all modified Java files.

   If you created new files Java and HTML files to your TradingXpert 3.0 installation, add those files to the appropriate directory under <*NASDIR*>*Apps**Fx*. Recompile all custom Java files.

Chapter

3

Postinstallation Tasks

This chapter explains how to download recommended patches to the Solaris operating system, how to test your iPlanet TradingXpert installation to be sure it worked, and the steps you must perform in order to modify and develop Java programs for NAS 4.0:

The following topics are discussed in this section:

- Downloading Solaris Patches
- Testing Your TradingXpert Installation
- Setup for Compiling Java Code

Downloading Solaris Patches

From time to time, Sun Microsystems, Inc., releases patches to the Solaris operating system that address system, user, or security-related bugs. Download and install the latest Sun 2.6 OS patches from the following URL:

http://sunsolve.sun.com/pub-cgi/show.pl?target=patches/patch-access

Figure 3.1 Sample recommended patch list for Solaris 2.6

```
                    Solaris 2.6 Recommended Patch Cluster, Oct/06/99

...
PATCHES INCLUDED:
-----------------
106125-08  SunOS 5.6: Patch for patchadd and patchrm
106828-01  SunOS 5.6: /usr/bin/date patch
105401-20  SunOS 5.6: libnsl and NIS+ commands patch
105181-16  SunOS 5.6: kernel update patch
105604-08  SunOS 5.6: ebus/pci/rootnex driver patch
105562-03  SunOS 5.6: chkey and keylogin patch
105210-24  SunOS 5.6: libc & watchmalloc patch
105216-03  SunOS 5.6: /usr/sbin/rpcbind patch
105356-09  SunOS 5.6: /kernel/drv/ssd patch
105357-04  SunOS 5.6: /kernel/drv/ses patch
105375-16  SunOS 5.6: sf & socal driver patch
105379-05  SunOS 5.6: /kernel/misc/nfssrv patch
105621-17  SunOS 5.6: libbsm and cron patch
105395-06  SunOS 5.6: /usr/lib/sendmail patch
105407-01  SunOS 5.6: /usr/bin/volrmmount patch
105552-02  SunOS 5.6: /usr/sbin/rpc.nisd_resolv patch
105615-05  SunOS 5.6: /usr/lib/nfs/mountd patch
105665-03  SunOS 5.6: /usr/bin/login patch
105786-08  SunOS 5.6: /kernel/drv/ip patch
105741-05  SunOS 5.6: /kernel/drv/ecpp patch
105720-08  SunOS 5.6: /kernel/fs/nfs patch
106049-01  SunOS 5.6: /usr/sbin/in.telnetd patch
106235-03  SunOS 5.6: lp patch
106257-04  SunOS 5.6: /usr/lib/libpam.so.1 patch
106271-06  SunOS 5.6: /usr/lib/security/pam_unix.so.1 patch
105755-07  SunOS 5.6: libresolv, in.named, named-xfer, nslookup, nstes
105926-01  SunOS 5.6: /usr/sbin/static/tar patch
106301-01  SunOS 5.6: /usr/sbin/in.ftpd patch
106439-05  SunOS 5.6: /usr/sbin/syslogd patch
106448-01  SunOS 5.6: /usr/sbin/ping patch
105490-07  SunOS 5.6: linker patch
```

Figure 3.1 Sample recommended patch list for Solaris 2.6 (Continued)

```
                    Solaris 2.6 Recommended Patch Cluster, Oct/06/99

105580-13  SunOS 5.6: /kernel/drv/glm patch
105797-06  SunOS 5.6: /kernel/drv/sd patch
105600-10  SunOS 5.6: /kernel/drv/isp patch
106226-01  SunOS 5.6: /usr/sbin/format patch
105642-05  SunOS 5.6: prtdiag patch
106040-12  SunOS 5.6: X Input & Output Method patch
105800-05  SunOS 5.6: /usr/bin/admintool, y2000 patch
106193-03  SunOS 5.6: y2000 sysid unzip patch
107434-01  CDE 1.2: Spell checking occasionally kills mail
105558-04  CDE 1.2: dtpad patch
105669-09  CDE 1.2: libDtSvc Patch
105837-03  CDE 1.2: dtappgather Patch, including SDE 1.0 installations
106242-02  CDE 1.2: libDtHelp.so.1 fixes
105566-07  CDE 1.2: Calendar manager patch
105703-17  CDE 1.2: dtlogin patch
105464-02  OpenWindows 3.6: Multiple xterm fixes
106222-01  OpenWindows 3.6: filemgr (ff.core) fixes
105284-30  Motif 1.2.7: Runtime library patch
105802-08  OpenWindows 3.6: ToolTalk patch
106495-01  SunOS 5.6: truss & truss support library patch
105529-08  SunOS 5.6: /kernel/drv/tcp patch
105667-02  SunOS 5.6: /usr/bin/rdist patch
105722-03  SunOS 5.6: /usr/lib/fs/ufs/ufsdump and ufsrestore patch
105780-04  SunOS 5.6: /kernel/fs/fifofs patch
106123-04  SunOS 5.6: sgml patch
106522-03  SunOS 5.6: /usr/bin/ftp patch
106569-01  SunOS 5.6: libauth.a & libauth.so.1 patch
106592-02  SunOS 5.6: /usr/lib/nfs/statd patch
106625-04  SunOS 5.6: libsec.a, libsec.so.1 and /kernel/fs/ufs patch
106834-01  SunOS 5.6: cp/ln/mv patch
106894-01  SunOS 5.6: /usr/bin/uux patch
107618-01  SunOS 5.6: Permissions problem in /vol.
107758-01  SunOS 5.6: Pax incorrectly change mode of symlink target fi
107766-01  SunOS 5.6: ASET cklist reports unchanged 6month older files
107774-01  SunOS 5.6: inetd denial-of-service attack
107991-01  SunOS 5.6: /usr/sbin/static/rcp patch
105338-23  CDE 1.2: dtmail patch
106027-03  CDE 1.2: dtsession: patch for screenlock
106112-04  CDE 1.2: dtfile patch
106437-03  CDE 1.2: Print Manager Patch
106437-03  CDE 1.2: Print Manager Patch
105633-29  OpenWindows 3.6: Xsun patch
106415-03  OpenWindows 3.6: xdm patch
106648-01  OpenWindows 3.6: libce suid/sgid security fix
106649-01  OpenWindows 3.6: libdeskset patch
106650-03  OpenWindows 3.6: mailtool attachment security patch
107336-01  OpenWindows 3.6: KCMS configure tool has a security vulnera
```

Testing Your TradingXpert Installation

This section details the setup for a sample trading partner to receive purchase orders from your ECXpert installation and to submit invoices, as well as file attachments, back to your ECXpert system. For this example, your membership name will be *TXhost* and your sample trading partner will be *webuser1*.

You can set up the necessary memberships, service lists, and partnerships either:

- by setting up the test data manually per the instructions in the following section

  or

- by importing the test data that is provided on your installation disk into your database. (See Appendix A, "TradingXpert Test Data Import Files").

After you set up all necessary data, you will test the document exchange in both directions.

Setting up Test Data for Document Exchange

If you choose to set up the necessary memberships, service lists, and partnerships for this test scenario manually, rather than import them as detailed in "Importing Test Data for Document Exchange" on page 84, perform the following tasks:

1. Set up member **TXhost** (yourself) with EDI trading address of ZZ:TXhost.
2. Set up member **webuser1** (your trading partner) with EDI trading address of ZZ:webuser1.
3. Set up a service list for sending POs to webuser1 (Figure 3.2).
4. Set up a partnership for sending POs to webuser1 (Figure 3.3, Figure 3.4, Figure 3.5).
5. Set up a service list for receiving invoices back from webuser1 (Figure 3.6).
6. Set up a partnership for receiving invoices back from webuser1 (Figure 3.7, Figure 3.8, Figure 3.9, Figure 3.10).

7. Set up a service list for receiving file attachments back from webuser1 (Figure 3.11).

8. Set up a partnership for receiving file attachments back from webuser1 (Figure 3.12, Figure 3.13).

Setup for Partner to Receive Purchase Orders

Figures 3.2-3.5 and the accompanying tables of screen details show how to set up ECXpert to allow "webuser1" to receive and view purchase orders in TradingXpert.

Figure 3.2 Service List Details for using TradingXpert to receive purchase orders <slEDIt2w>

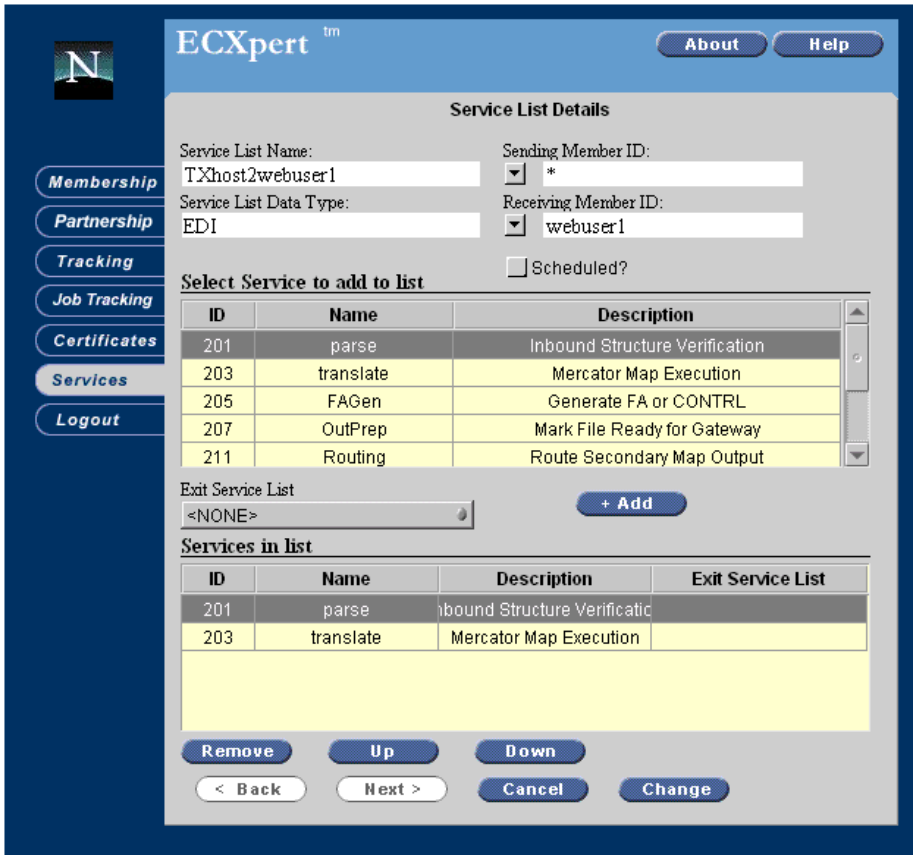


Table 3.1 Required Service List Details for receiving purchase orders

Item	Description
	Service List Details
[Parameters]	Modify to meet your specific needs.
	Select Service to add to List
Parse	Logically breaks incoming EDI into its constituent parts.
Translate	Converts submission unit documents from one format to another.

Note You must *not* include Gateway in this service list. In effect, TradingXpert replaces the Gateway function. If Gateway is in this service list, ECXpert attempts to send purchase orders directly to the trading partner.

Figure 3.3 Partnership Info for using TradingXpert to receive purchase orders

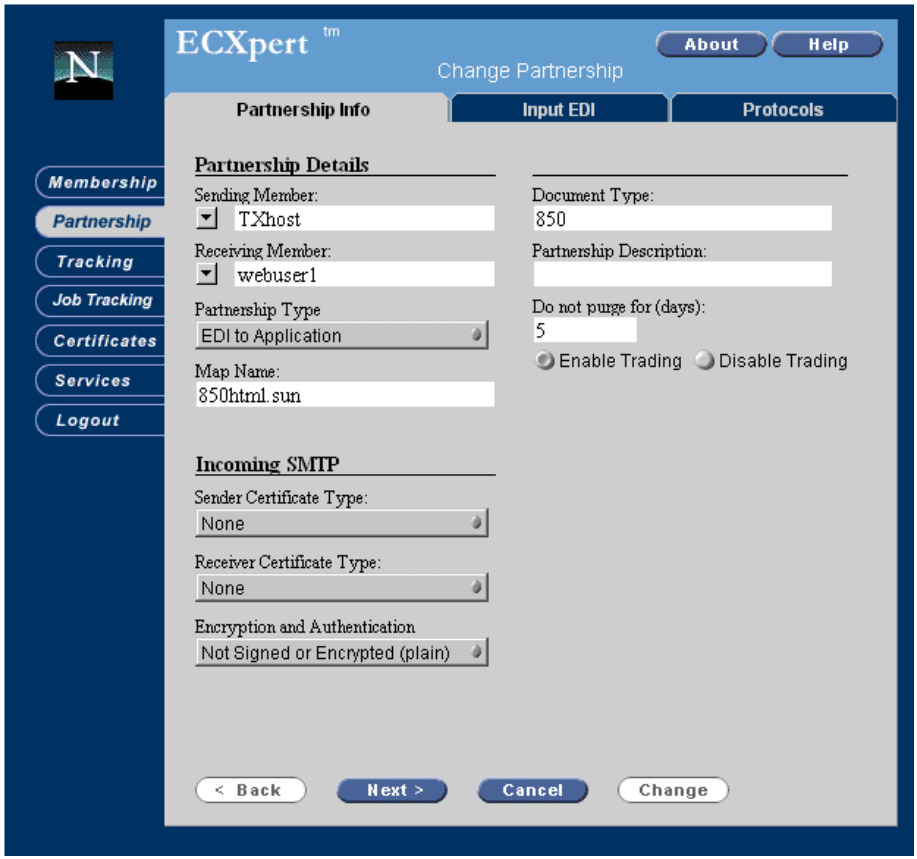


Table 3.2 Required Partnership Information for receiving purchase orders

Item	Description
Partnership Details	
Sending Member	**TXhost**—ECXpert member set up to communicate with TradingXpert
Receiving Member	**webuser1**—trading partner who will be receiving your purchase orders through TradingXpert via a browser
Document Type	**850**

Item	Description
Partnership Details	
Partnership Type	**EDI to Application**
Map Name	**850html.sun**
Incoming SMTP	
[Parameters]	Use the default values, or modify them to meet your specific needs.

Figure 3.4 Input EDI for using TradingXpert to receive purchase orders

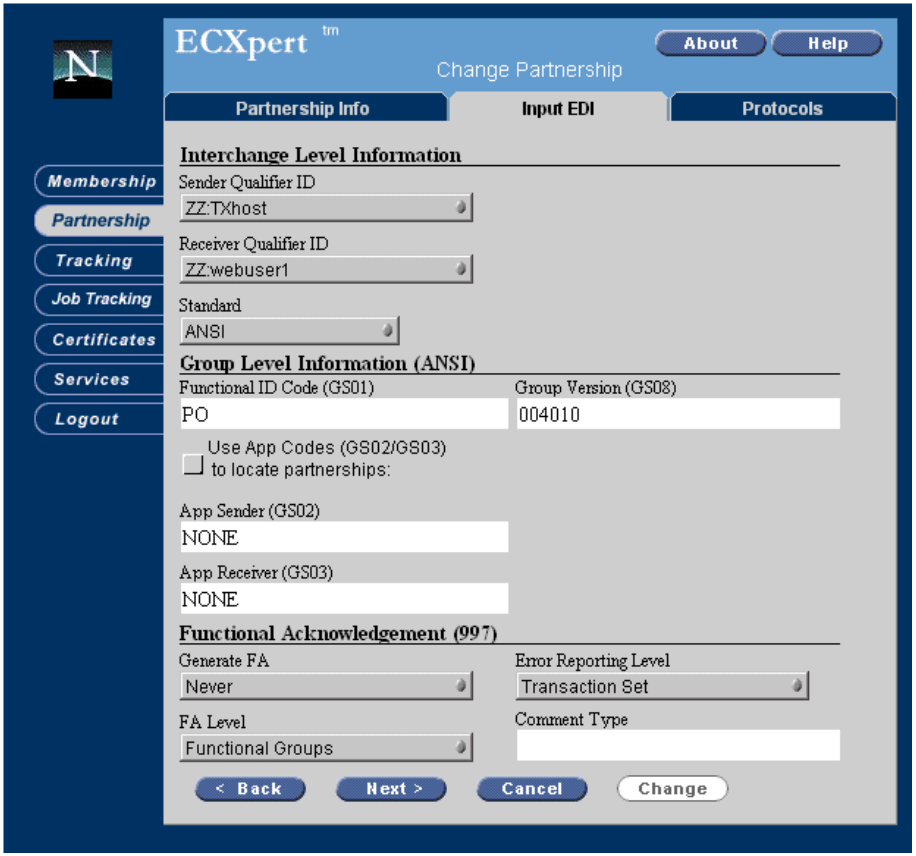


Table 3.3 Required Input EDI Information for receiving purchase orders

Item	Description
Interchange Level Information	
Sender Qualifier ID	**ZZ:TXhost**
Receiver Qualifier ID	**ZZ:webuser1**
Standard	**ANSI**
Group Level Information	
Functional ID Code	**PO**
Group Version	**004010**
[Remaining Parameters]	Use the default values, or modify them to meet your specific needs.
Functional Acknowledgments	
[Parameters]	Use the default value, or modify them to meet your specific needs.

Figure 3.5 Protocols for using TradingXpert to receive purchase orders

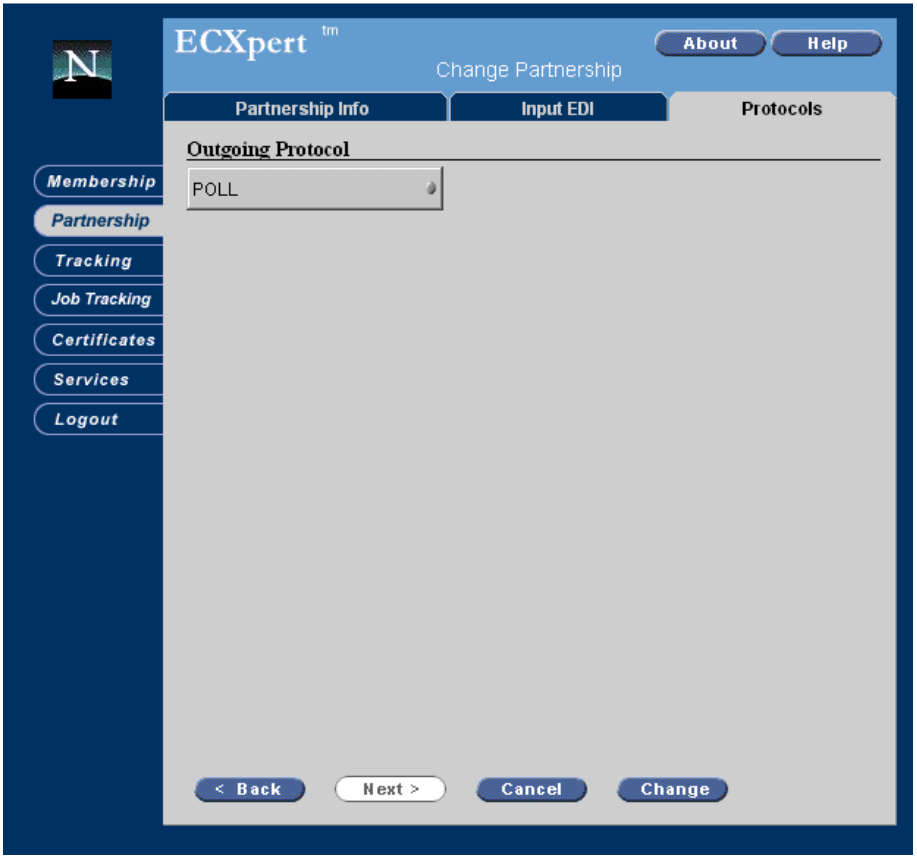


Table 3.4 Required Protocols for receiving purchase orders

Item	Description
Outgoing Protocol	
Drop-down protocol list	**POLL**

Setup for Partner to Submit Invoices

Figures 3.6-3.10 and the accompanying tables of screen details show how to set up ECXpert to allow "webuser1" to submit invoices, based on purchase orders viewed, through TradingXpert.

Figure 3.6 Service List for using TradingXpert to submit invoices

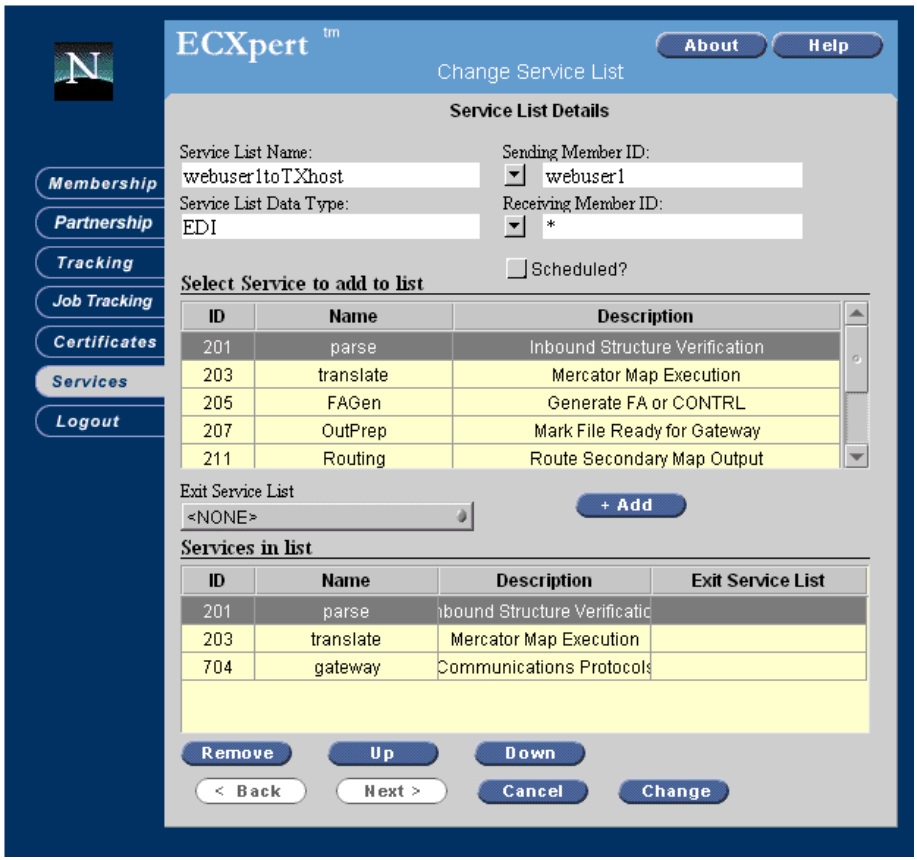


Table 3.5 Required Service List Details for submitting invoices

Item	Description
	Service List Details
[Parameters]	Modify to meet your specific needs.
	Select Services to add to List
Parse	Logically breaks incoming EDI into its constituent parts.
Translate	Converts submission unit documents from one format to another.
Gateway	Triggers the sending of finished submission units.

Figure 3.7 Partnership Info for using TradingXpert to submit invoices

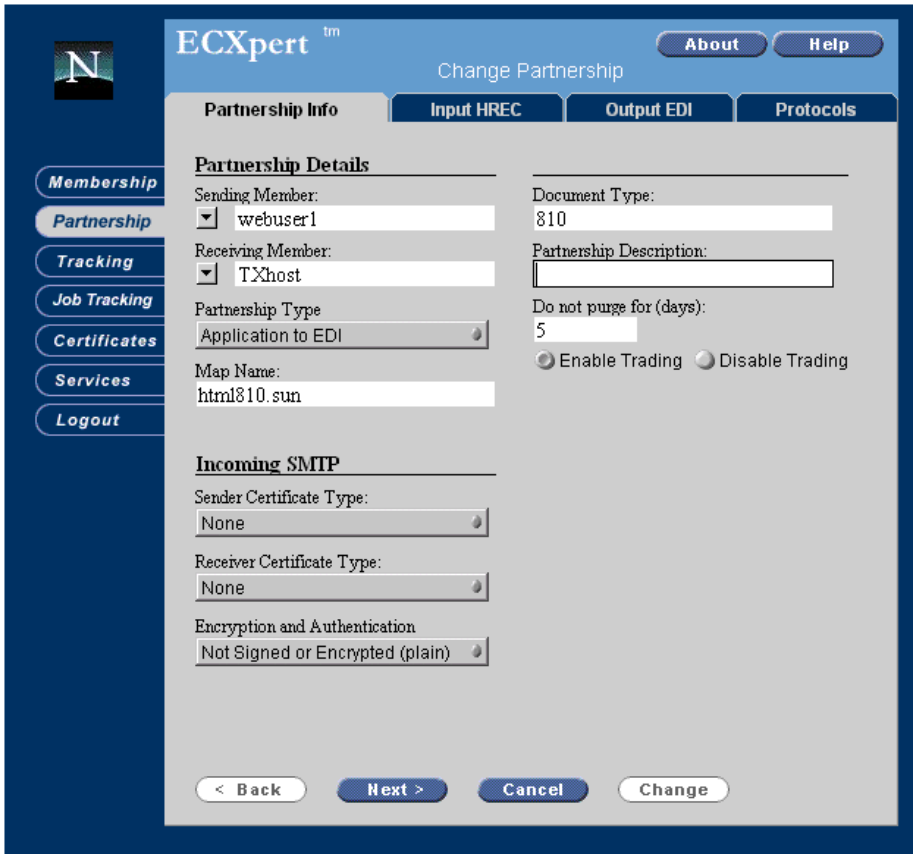


Table 3.6 Required Partnership Information for submitting invoices

Item	Description
Partnership Details	
Sending Member	**webuser1**—trading partner who will be sending you invoices through TradingXpert, based on your purchase orders to the associated company viewed through TradingXpert
Receiving Member	**TXhost**—ECXpert member set up to communicate with TradingXpert
Document Type	**810**

Item	Description
Partnership Details	
Partnership Type	**Application to EDI**
Map Name	**html810.sun**
Incoming SMTP	
[Parameters]	Use the default values, or modify them to meet your specific needs.

Figure 3.8 Input HREC for using TradingXpert to submit invoices

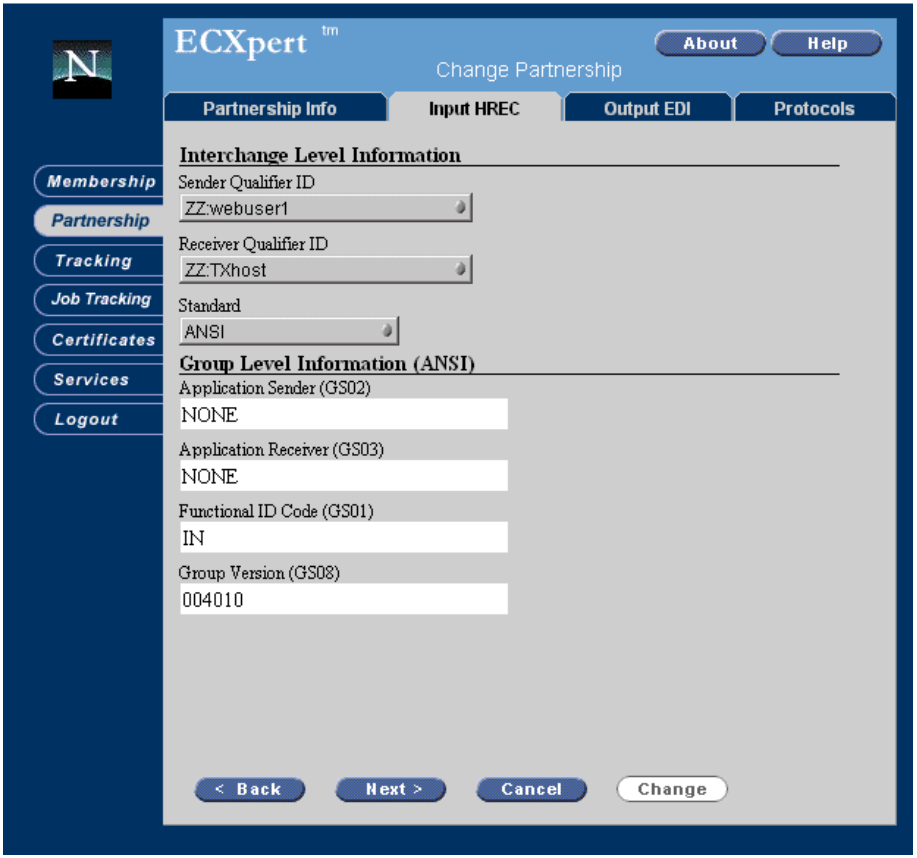


Table 3.7 Required Input HREC Information for submitting invoices

Item	Description
Interchange Level Information	
Sender Qualifier ID	**ZZ:TXwebuser1**—trading partner who will be sending you invoices through TradingXpert, based on your purchase orders to the associated company viewed through TradingXpert
Receiver Qualifier ID	**ZZ:TXhost**—ECXpert member set up to communicate with TradingXpert
Standard	**ANSI**
Group Level Information	
Application Sender	**<BLANK>**; ECXpert fills in this field with NONE.
Application Receiver	**<BLANK>**; ECXpert fills in this field with NONE.
Functional ID Code	**IN**
Group Version	**004010**

Figure 3.9 Output EDI for using TradingXpert to submit invoices

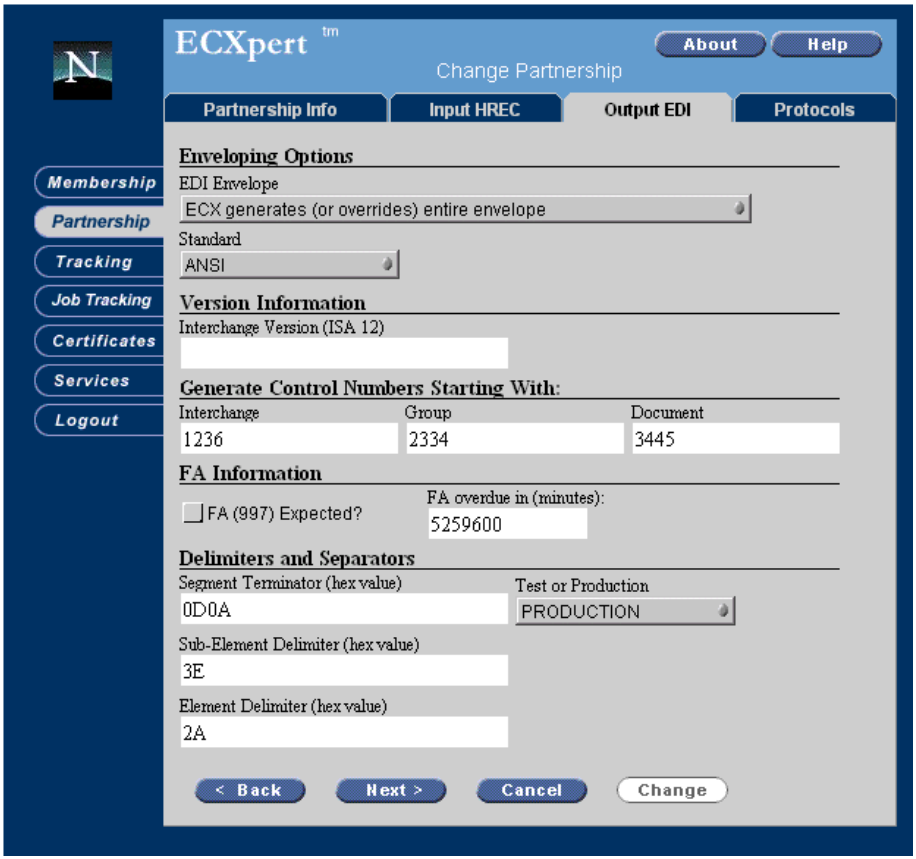


Table 3.8 Required Output EDI Information for submitting invoices

Item	Description
Enveloping Options	
EDI Envelope	**ECXpert generates (or overrides) entire envelope**
Standard	**ANSI**
[Remaining parameters]	Use the default values, or change them to meet your specific needs.

Figure 3.10 Protocols for using TradingXpert to submit invoices

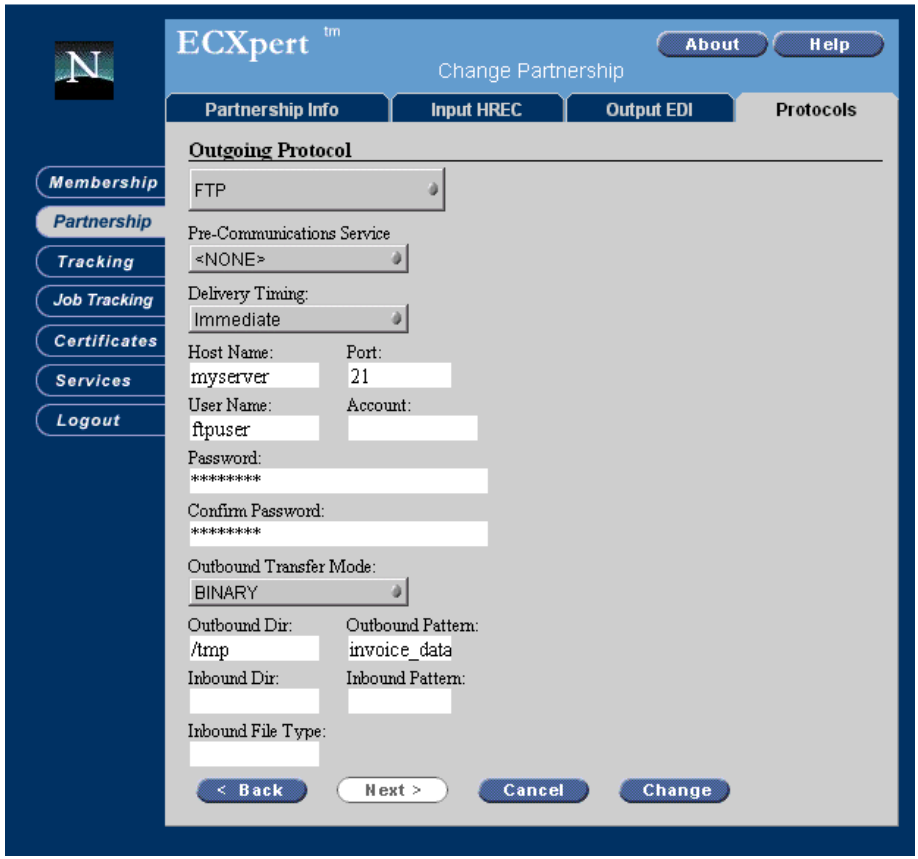


Table 3.9 Required Protocols for submitting invoices

Item	Description
Outgoing Protocol	
Pull-down protocol list	**FTP**
Precommunications Service	**<NONE>**
Delivery Timing	**Immediate**
Host Name	The name of the machine on which the invoice will be deposited.

Item	Description
Outgoing Protocol	
Port	The ftp port of the machine on which the invoice will be deposited, typically 21.
Username	The username you will use to log on to the machine on which the invoice will be deposited.
Password	The password for the user you entered in the Username field.
Confirm Password	The password for the user you entered in the Username field, entered a second time for confirmation.
Outbound Transfer Mode	**Binary**
Outbound Dir	The directory where the file will be deposited. In Figure 3.10 this is */tmp*, but it can be any directory you choose.
Outbound Pattern	**invoice_data**
[Remaining parameters]	You do not need to fill in the remaining fields on this screen.

Note You should also go to the ECXpert Server Administration interface to check that the ECXpert FTP server is on. For instructions, see your *iPlanet ECXpert Administrator's Guide*, Chapter 3.

Setup for Partner to Submit File Attachments

Figures 3.11-3.13 and the accompanying tables of screen details show how to set up ECXpert to allow "webuser1" to submit file attachments through TradingXpert.

Figure 3.11 Service List for using TradingXpert to submit file attachments

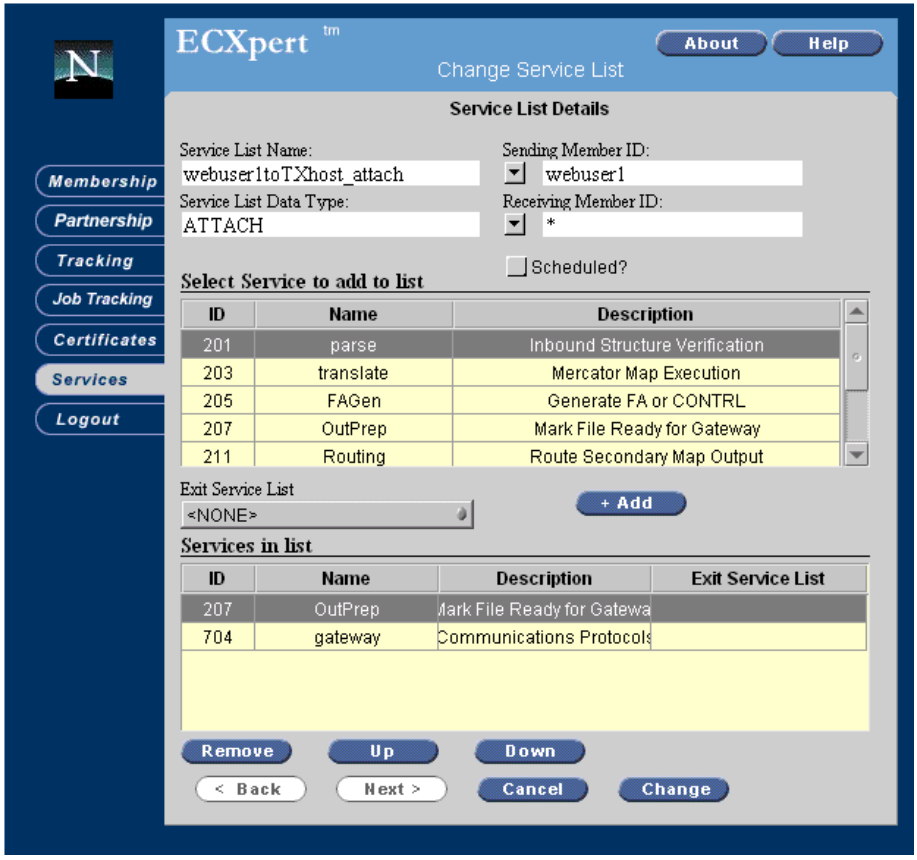


Table 3.10 Required Service List Details for submitting file attachments

Item	Description
	Service List Details
[Parameters]	Modify to meet your specific needs.
	Select Services to add to List
OutPrep	Marks files that do not need processing as ready for the Gateway service.
Gateway	Triggers the sending of finished submission units.

Figure 3.12 Partnership Info for using TradingXpert to submit file attachments

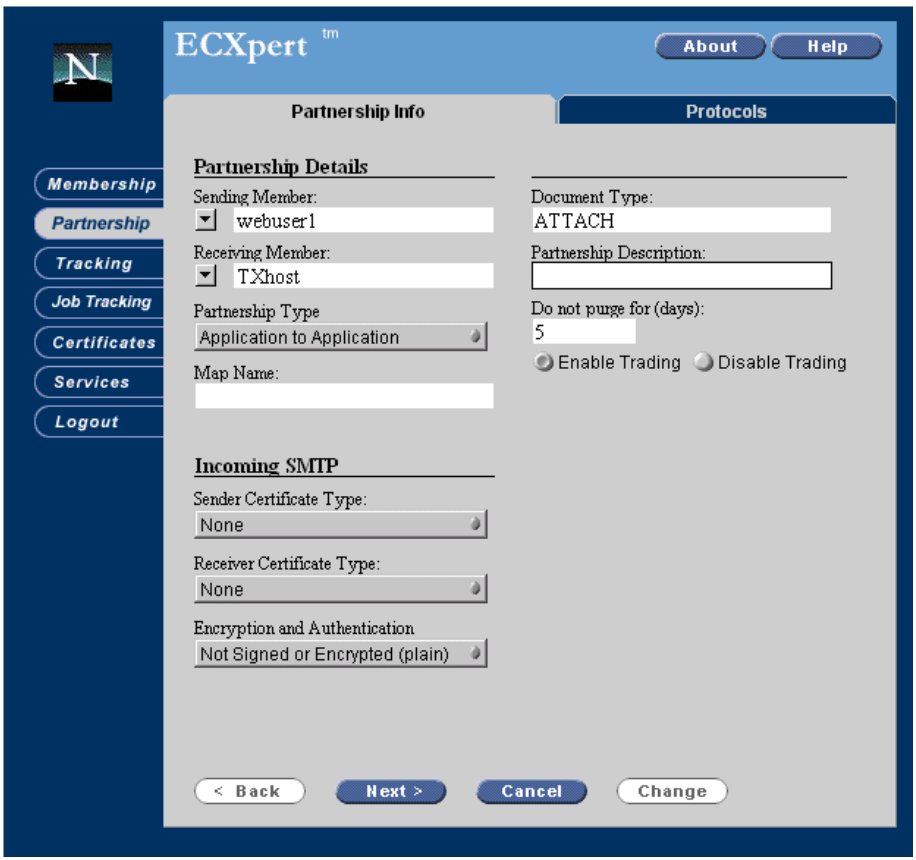


Table 3.11 Required Partnership Information for submitting file attachments

Item	Description
Partnership Details	
Sending Member	**webuser1**—trading partner who will be sending you file attachments through TradingXpert
Receiving Member	**TXhost**—ECXpert member set up to communicate with TradingXpert
Document Type	**ATTACH**
Partnership Type	**Application to Application**
Incoming SMTP	
[Parameters]	Use the default values, or modify them to meet your specific needs.

Figure 3.13 Protocols for using TradingXpert to submit file attachments

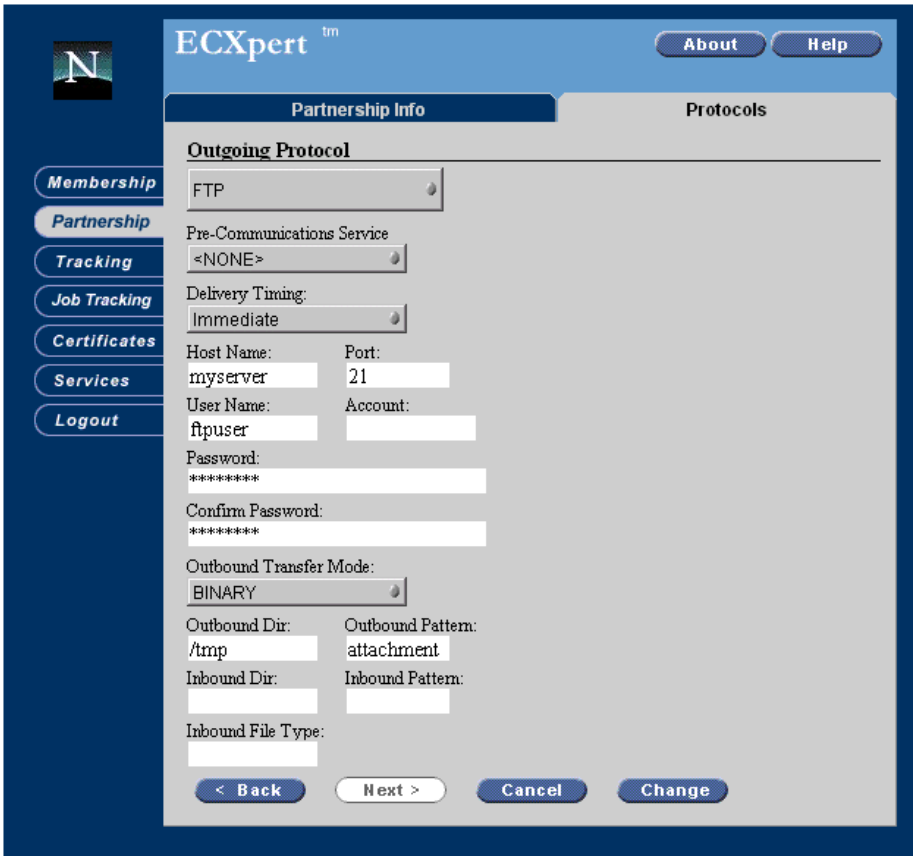


Table 3.12 Required Protocols for submitting file attachments

Item	Description
Outgoing Protocol	
Port	The ftp port of the machine on which the invoice will be deposited, typically 21.
Username	The username you will use to log on to the machine on which the invoice will be deposited.
Password	The password for the user you entered in the Username field.
Confirm Password	The password for the user you entered in the Username field, entered a second time for confirmation.

Item	Description
Outgoing Protocol	
Outbound Transfer Mode	**Binary**
Outbound Dir	The directory where the file will be deposited. In Figure 3.10 this is */tmp*, but it can be any directory you choose.
Outbound Pattern	**attachment**
[Remaining parameters]	You do not need to fill in the remaining fields on this screen.

Note You should also go to the ECXpert Server Administration interface to check that the ECXpert FTP server is on. For instructions, see your *iPlanet ECXpert Administrator's Guide*, Chapter 3.

Testing your Document Exchange Setup

Follow the steps below to use the ECXpert Document Submission Form to test your TradingXpert setup.

1. **Open the ECXpert user interface.**

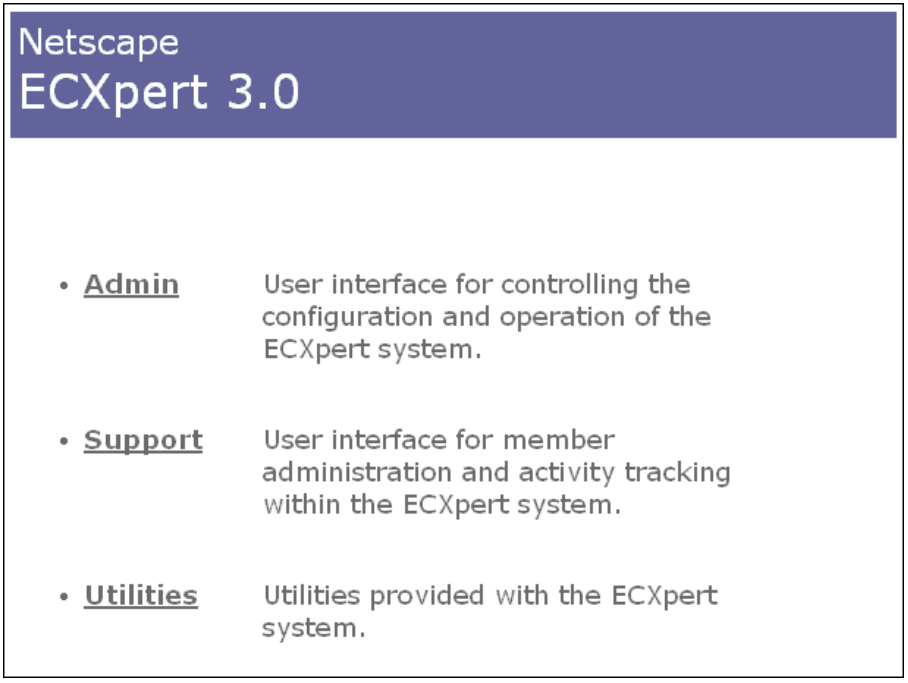
   Enter the following URL in your browser:

   http://<*ECXhostname*>:<*port*>/

   where <hostname> is the name of the host machine where ECXpert is installed, and <port> is the port number ECXpert is using.

   The ECXpert home page (Figure 3.14) appears.

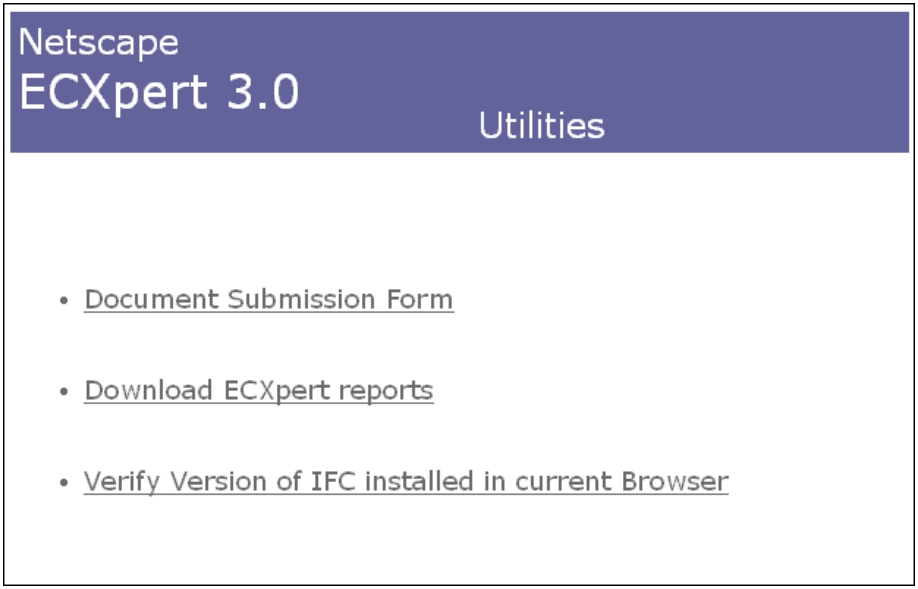
Figure 3.14 ECXpert home page



2. **Click the Utilities button.**

   The ECXpert Utilities Menu (Figure 3.15) appears.

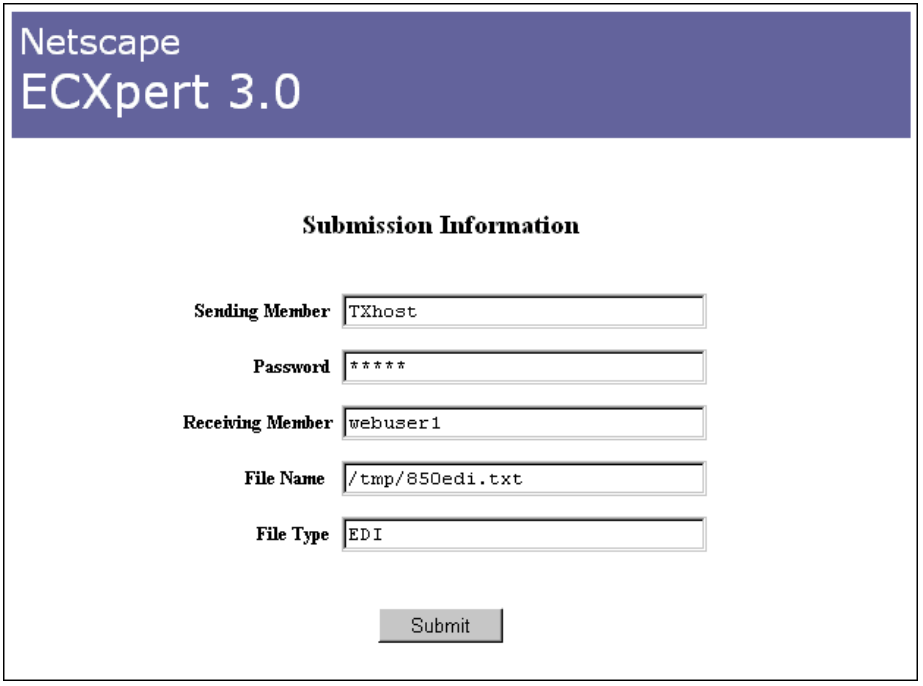
Figure 3.15 ECXpert Utilities Menu



3. **Click the Document Submission Form link.**

   The Document Submission Form (Figure 3.16) appears.

Figure 3.16 Document Submission Form



4. Enter parameters for the `submit` command.

Refer to Table 3.13 for detailed information about the parameters.

Table 3.13 Parameters for `submit` command

Parameter	Description
Sending Member	The member ID of the sending member defined in the associated partnership—**TXhost**.
Password	Password for the sending member—the password that you have set up for TXhost.
Receiving Member	The member ID of the receiving member defined in the associated partnership—**webuser1**.

Table 3.13 Parameters for `submit` command (Continued)

Parameter	Description
File Name	The name of a file to be submitted to TradingXpert (i.e., the submission unit). The demo file, which is included in the */maps_etc/sampledata* directory, is named **850edi.txt** to represent a purchase order. You should also supply the full path to the location to which you have copied this file from the CD. In the picture above, the file is in the */tmp* directory.
File Type	The Document Type for the file being passed to TradingXpert, as defined in the associated partnership—**EDI**.

5. Click the Submit button.

A message appears providing feedback on the command. If any errors are encountered they are displayed first.

6. Optionally, view the tracking information for your submission.

- Log into the TradingXpert Product Administrative Interface.
- Click the Tracking button on the left.

  The Enter Search Constraints tab appears.
- Set **Search Level** to **Document**.
- Enter today's date.
- Click the **Search** button.

7. Open the TradingXpert user interface.

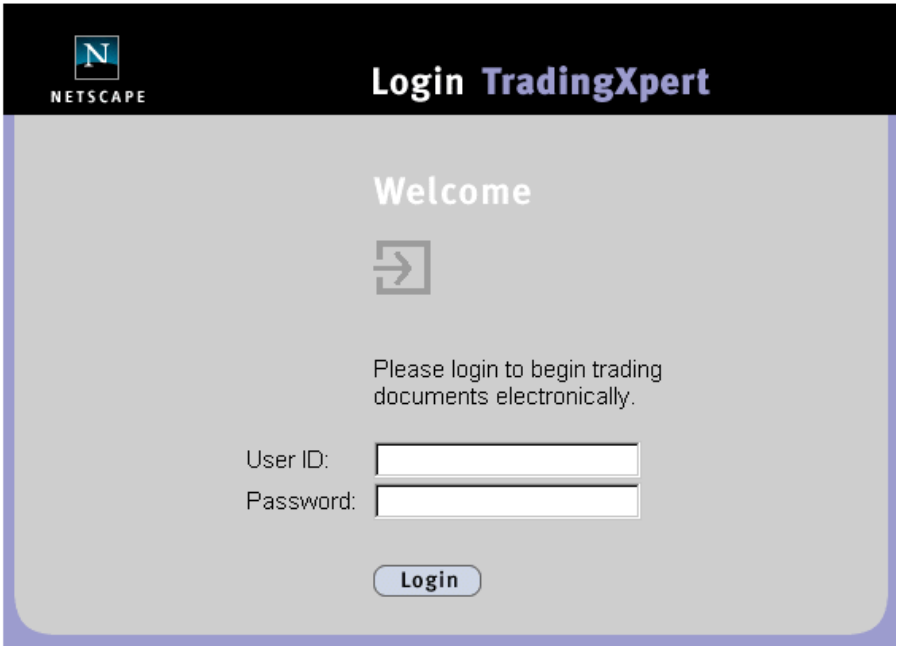
Enter the following URL in your browser:

http://<*TradingXperthostname*>:<*port*>/<*base*>

where <hostname> is the name of the host machine where TradingXpert is installed, and <port> is the port number TradingXpert is using.

The TradingXpert login screen (Figure 3.17) appears.

Figure 3.17 TradingXpert Login screen

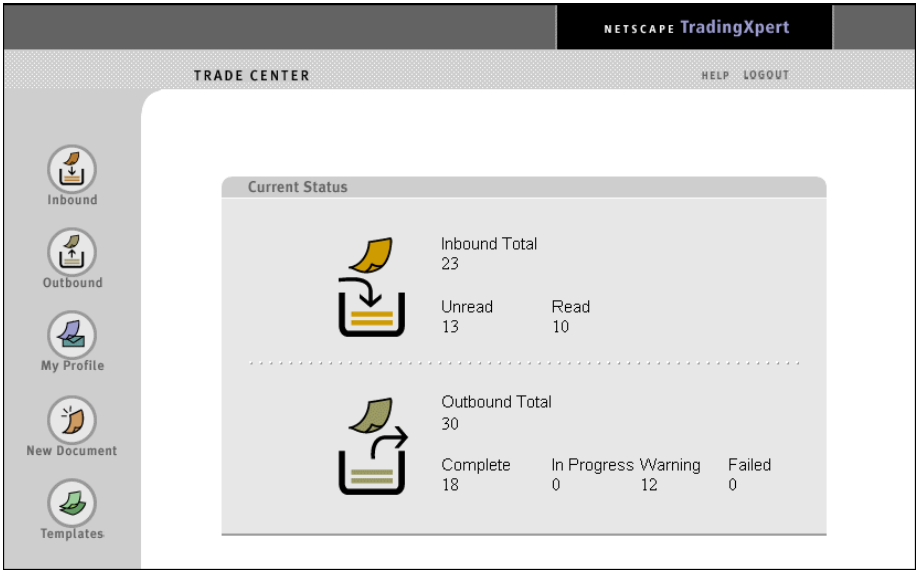


8. **Log into TradingXpert as webuser1.**

   Use the User ID *webuser1* and the Password *webuser1* and click **Login**.

   The Trade Center screen (Figure 3.18) appears.

Figure 3.18 Trade Center screen

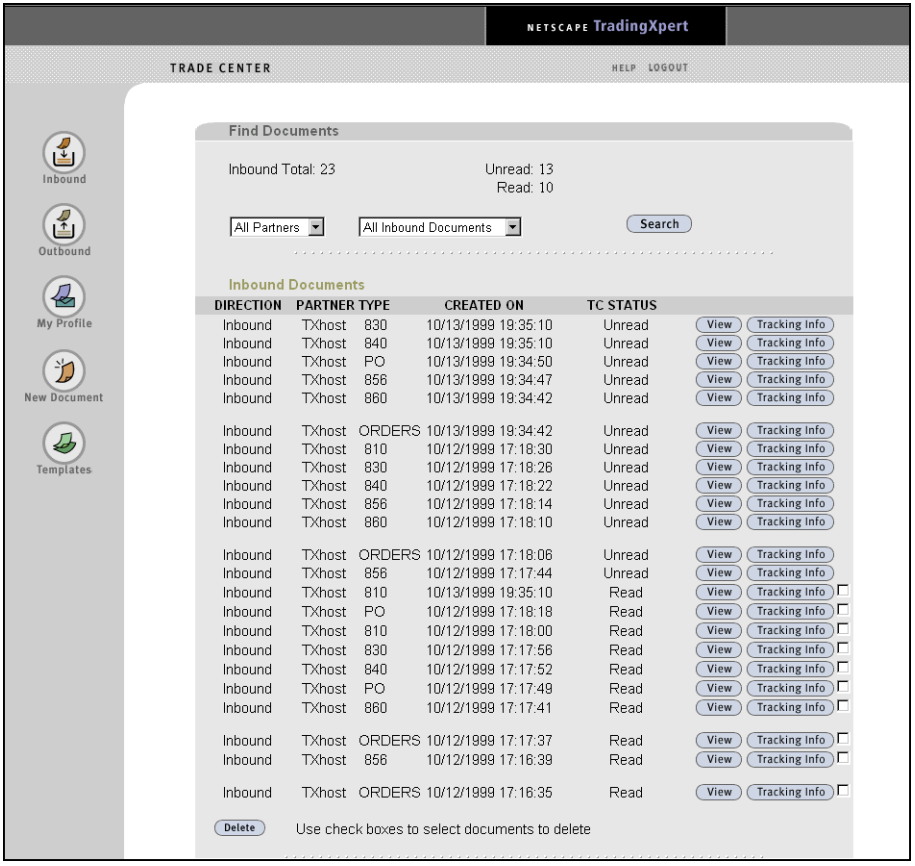


9. View the incoming purchase order.

Click the **Inbound** icon to view incoming documents.

In the screen (Figure 3.19) that appears, search for all incoming documents from TXhost, then view the purchase order just sent from TXhost.

Figure 3.19 Top of the Inbound Documents screen

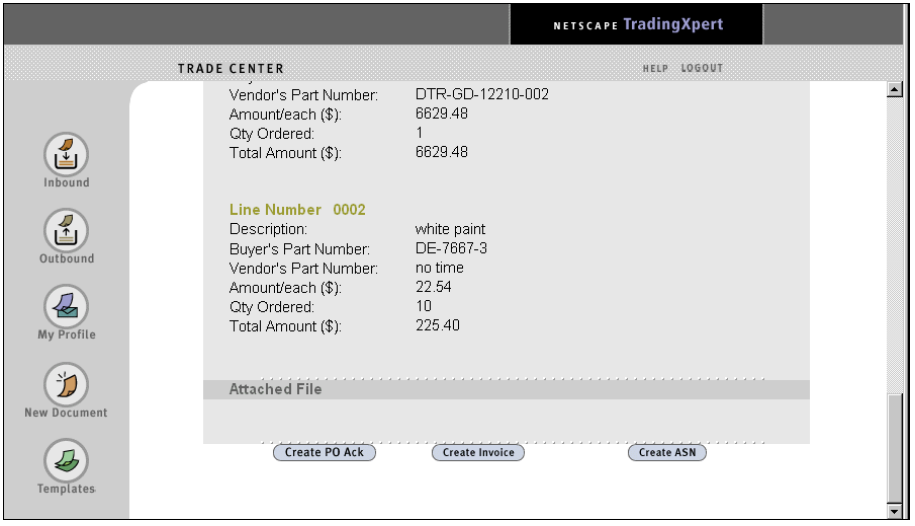


10. Create an invoice from the purchase order.

At the bottom of the purchase order, click the **Create Invoice** button. (See Figure 3.20)

An invoice form will appear; the data fields will be pre-filled with data from the purchase order.

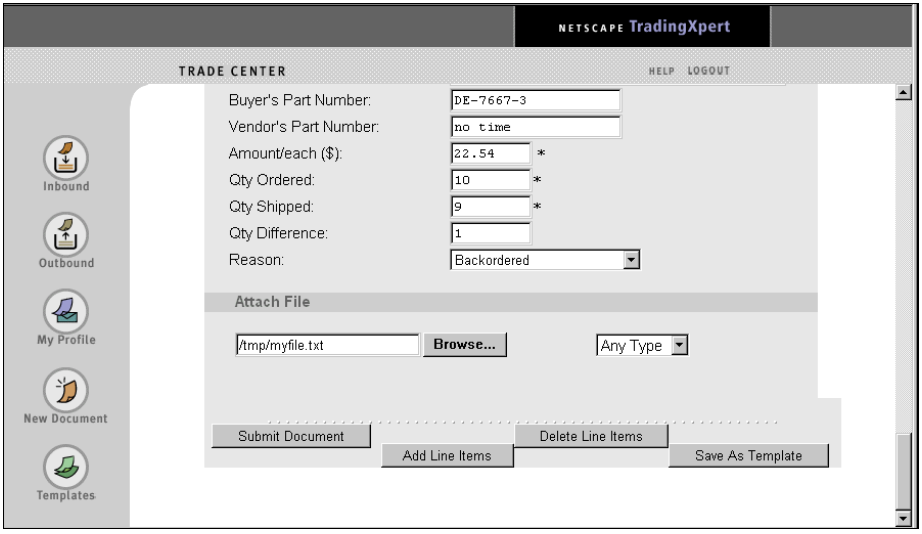
Figure 3.20 Bottom of a Purchase Order



11. Attach a file to the invoice.

At the bottom of the invoice screen is an Attach File section. Attach any file on your hard drive by first either entering the full path of the file or clicking Browse to select a file, and then selecting Any Type from the drop-down menu.

Figure 3.21 Attachment options at the bottom of an Invoice



12. **Submit the invoice with attachment to TXhost.**

    Click the **Submit Document** button. A screen will appear confirming that the document was submitted successfully.

13. **Verify receipt of the invoice and attachment in ECXpert.**

    - Return to the ECXpert home page at http://<*hostname*>:<*port*>/

      where <hostname> is the name of the host machine where ECXpert is installed, and <port> is the port number ECXpert is using.
    - On the ECXpert home page (Figure 3.14), click **Support**.
    - Enter the ECXpert administrator user name and password and click **Enter**.
    - Click the **Tracking** button, then enter search constraints to find the 810 sent by webuser1 to TXhost.
    - View tracking information for the inbound document and attached application file.

Setup for Compiling Java Code

The NAS 4.0 installation includes the Java Development Kit (JDK) 1.1.6, which allows you to modify and develop Java programs for NAS. In order to do Java development, you must first set up the *$CLASSPATH* variable. Perform the following steps to set up the *$CLASSPATH* variable:

1. **Create a directory in which to untar *jdk116.tar.Z*, which is found in the directory in which NAS is installed.**

   Assuming NAS is installed in <*disk1*>/*nas40*/*nas*, the following example creates the directory *jdknas40* under the *nas40* directory:

   ```
   cd <disk1>/nas40/nas
   mkdir ../jdknas40
   ```

2. **Untar *jdk116.tar.Z.***

   ```
   tar -xvf /nas40/nas/jdk116.tar.Z ../jdknas40
   ```

3. **Set the environment variable `$JDKNAS40` to represent the directory path *<disk1>/nas40/jdknas40/usr/java1.1*.**

   Use the following syntax to modify the environment variable in the administrator user's *.profile* or *.login* file:

   For the C shell:

   ```
   setenv JDKNAS40 <disk1>/nas40/jdknas40/usr/java1.1:$JDKNAS40
   ```

   For the Bourne shell:

   ```
   JDKNAS40=<disk1>/nas40/jdknas40/usr/java1.1:$JDKNAS40
   export JDKNAS40
   ```

4. **Set the environment variable $NASJAVA to represent the directory path *<disk1>/nas40/nas/classes/java*.**

   Use the following syntax to modify the environment variable in the administrator user's *.profile* or *.login* file:

   For the C shell:

   ```
   setenv NASJAVA <disk1>/nas40/nas/classes/java:$NASJAVA
   ```

   For the Bourne shell:

   ```
   NASJAVA=<disk1>/nas40/nas/classes/java:$NASJAVA
   export NASJAVA
   ```

5. **Create an alias `nasjavac`.**

   ```
   alias nasjavac ($JDKNAS40/bin/javac -g -classpath
   $JDKNAS40/lib:$JDKNAS40/lib/classes.zip:
   <disk1>/nas40/nas/APPS:$NASJAVA/jars/nas40/jar:
   $NASJAVA:$NASJAVA/javax.jar:$NASJAVA/kfcjdk11.jar:
   $NASJAVA/SWING.JAR:$NASJAVA/swingall.jar:
   $NASJAVA/jdbc12.jar:$NASJAVA/jdbc20.jar:
   $NASJAVA/kadmin.jar:$NASJAVA/ktjdk11.jar:
   $NASJAVA/motif.jar:$NASJAVA/naf.jar:
   $NASJAVA/nasdm40.jar:$NASJAVA/shadow.jar)
   ```

Note Everything between the parentheses is one string.

6. **Use this alias to compile java files within NAS.**

Appendix

A

TradingXpert Test Data Import Files

This appendix provides the following details about TradingXpert's optional import files for test data:

- Importing Test Data for Document Exchange
- Deleting Test Data for Document Exchange

Importing Test Data for Document Exchange

If you choose to import the necessary memberships, service lists, and partnerships for the test scenario using the import files provided on your installation disk, rather than set them up manually as detailed in "Setting up Test Data for Document Exchange" on page 52, perform the following tasks.

Note The import files provided on your installation disk are intended only to provide example data. The import files should not be modified except as instructed. Any further modifications to the file should performed at your own risk.

1. **Log in to the TradingXpert machine as the same user under which you installed NAS and TradingXpert.**

2. **Change to the *$NASDIR/APPS/FX/maps_etc/import* directory.**

   ```
   cd $NASDIR/APPS/FX/maps_etc/import
   ```

   where *$NASDIR* is the directory under which NAS is installed.

3. **Make backup copies of the *tx-mem.imp* and *del-tx-mem.imp* files.**

4. **Edit the *tx-mem.imp* and *del-tx-mem.imp* files.**

   Using a text editor, do a global search and replace of the strings "ftphost," "ftpusername," "ftpuserpwd," and "outputdir" with the appropriate hostname, username, password, and the location of the output directory. These variables are used by the ftp protocol.

5. **Make sure BDGHOME is set to the location of the ECXpert installation.**

   If it is not, type the following command:

   ```
   setenv BDGHOME /<disk1>/actraadm/NS-apps/ECXpert
   ```

   NAS will use the same *ecx.ini* file that ECXpert uses.

6. **Make sure ECXpert *$NSBASE/lib* directory is in the LD_LIBRARY_PATH.**

   If it is not, use the following syntax to modify the environment variable in the administrator user's *.profile* or *.login* file. *$NSBASE* is the directory in which ECXpert is installed.

   For the C shell:

   ```
   setenv LD_LIBRARY_PATH $NSBASE/lib:$LD_LIBRARY_PATH
   ```

   For the Bourne shell:

```
LD_LIBRARY_PATH=$NSBASE/lib:$LD_LIBRARY_PATH
export LD_LIBRARY_PATH
```

7. **Populate the database.**

   Use the ECXpert import utility, which is located at *$NSBASE/bin/import*. For this TradingXpert demo, type the following command:

```
$NSBASE/bin/import ECX ECX
    $NASDIR/APPS/FX/maps_etc/import/tx-mem.imp
     /tmp/good /tmp/bad
```

   where *$NSBASE* is the directory in which ECXpert is installed; ECX is both the username and the password of the ECXpert administrator; *$NASDIR/APPS/FX/maps_etc/import/tx-mem.imp* is the location of the import file that will populate the TradingXpert members, partnership, and service lists; */tmp/good* is the log file that records successful data imports; and */tmp/bad* is the log file that records rejected data.

Note The import file is not perfect. You will see the following error messages after running the import command line:

```
BDGPNView::PutFA: Don't know FA type for NONE
BDGPNView::PutFA: Don't know FA type for NONE
```

You will also see that one record is rejected: the EDIFACT INVOIC partnership was not imported correctly. To remedy this, log in to the ECXpert Admin user interface and perform the following tasks:

- Select the partnership of Doc Type INVOIC.
- Select the Output EDI tab.
- Change the Standard from ANSI to EDIFACT.
- In the Version Number field, type "D."
- In the Release Number field, type "97A."
- Save the partnership.

Deleting Test Data for Document Exchange

To clean up the database and erase all the TradingXpert members, partnerships, and service lists that you just created, follow these steps:

1. **Log in to the TradingXpert machine as the same user under which you installed NAS and TradingXpert.**

2. **Erase the TradingXpert test data in the database.**

   Use the ECXpert import utility, which is located at *$NSBASE/bin/import*. Type the following command:

   ```
   $NSBASE/bin/import ECX ECX
       /$NASDIR/APPS/FX/maps_etc/import/del-tx-mem.imp
       /tmp/del-good /tmp/del-bad
   ```

   where *$NSBASE* is the directory in which ECXpert is installed; ECX is both the username and the password of the ECXpert administrator;*$NASDIR/APPS/FX/maps_etc/import/del-tx-mem.imp* is the location of the import file that will delete the TradingXpert members, partnership, and service lists; */tmp/del-good* /*tmp/good* is the log file that records successful data deletions; and */tmp/del-bad* is the log file that records rejected data deletions.

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