

# Release Notes for iPlanet TradingXpert

Version 3.5.1 for Solaris 2.6, 2.7, or 2.8

Updated December 21, 2001

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These release notes contain important information available at the time of the Version 3.5.1 release of iPlanet TradingXpert. New features and enhancements, installation notes, known problems, and other late-breaking issues are addressed here. Read this document before you begin using this release of iPlanet TradingXpert. Version 3.5.1

An electronic version of these release notes is posted on the iPlanet documentation web site: <http://docs.iplanet.com/docs/manuals/>. Check the web site prior to installing and setting up your software and then periodically thereafter to view the most up-to-date release notes and manuals.

These release notes contain the following sections:

- [What's New in TradingXpert, Version 3.5.1](#)
- [Hardware and Software Requirements](#)
- [Installation Notes](#)
- [Bug Fixes and Enhancements](#)
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## What's New in TradingXpert, Version 3.5.1

This section describes the changes to the following product components:

- [FX Properties Changes](#)
- [User Interface Enhancements](#)
- [Java Enhancements for Developers](#)

## FX Properties Changes

Several new fields have been added to the FX Properties file, as shown in **Table 1**. These fields have been added to allow for user modifications, as specified in the *iPlanet TradingXpert Installation Guide*. The FX Properties file is located in:

```
$NASDIR/APPS/FX/common
```

Example:

```
/opt/iplanet/nasserver/nas/APPS/FX/common
```

**Table 1** Added Fields in FXproperties

Field	Description
FX.basedir	The base directory name in the FX.basehref field. For example, if FX.basehref is 'http://tree.red.iplanet.com:5050/TX', the FX.basedir should be indicated as 'TX'.
FX.dateFormat	Specifies the date setting. For details on how to set the date format, refer to: <a href="http://java.sun.com/j2se/1.3/docs/api/java/text/SimpleDateFormat.html">http://java.sun.com/j2se/1.3/docs/api/java/text/SimpleDateFormat.html</a>  Some examples: MM.dd.yyyy => 12.06.1966 MM/dd/yyyy at HH:mm:ss => 12/06/1966 at 23:59:59 hh:mm:ss a => 11:59:59 PM
FX.logDocEvents	Enables or disables detailed document tracking information. Valid values are TRUE or FALSE.
FX.unreadFilter	Determines the type and status of documents to retrieve, depending upon which button is selected. Refer to <b>Table 2</b> for details on how this field is used. Valid values are TRUE or FALSE.
FX.verboseTracking	Extends the tracking information screen to include all event log information for a given tracking ID.

**Table 2** FX.unreadFilter Flag Value and Button Behavior Descriptions

Flag Value	Button Behavior Description		
	Get Documents	Inbound	Outbound
true	All inbound (both read and unread) and outbound documents are retrieved	Inbound documents (read) will not be retrieved until the Get Doc button is selected.  After Get Doc button is selected, this button will retrieve both read and unread inbound documents.	All outbound documents are retrieved.
false	All inbound (both read and unread) and outbound documents are retrieved.	Both read and unread inbound documents are retrieved.	All outbound documents are retrieved.

## User Interface Enhancements

**Table 3** describes the enhancements to the user interface for this release.

**Table 3** Enhancements to the User Interface

Component	Existence	Functionality Description
Welcome page	New to this release	Following user login, TradingXpert does not load documents until one of the document load buttons is selected (i.e., the Get Documents, Inbound, or Outbound buttons)
Get Documents Button	New to this release	When selected, TradingXpert loads both inbound and outbound document information from the ECXpert database into the TradingXpert memory cache.
Inbound Button	Exists in TX 3.5	When initially selected, TX gets inbound documents from the ECXpert database, including the latest received documents. When subsequently selected, TX gets inbound documents from the TX server cache.

**Table 3** Enhancements to the User Interface (*Continued*)

Component	Existence	Functionality Description
Outbound Button	Exists in TX 3.5	When initially selected, TX gets outbound documents from the ECXpert database, including the latest sent documents. When selected subsequently, TX gets outbound documents from the TX server cache.
Inbound page	Exists in TX 3.5	When the ' <b>check for new messages</b> ' checkbox is selected, the 'Search' button gets inbound documents from the ECXpert database, including the latest received documents. Otherwise, the 'Search' button gets inbound documents from the TX server cache.
Outbound page	Exists in TX 3.5	When the ' <b>check for new messages</b> ' checkbox is selected, the 'Search' button gets outbound documents from the ECXpert database, including the latest sent documents. Otherwise, the 'Search' button gets outbound documents from the TX server cache.

## Java Enhancements for Developers

In this release, the ECX/iAS extension has been replaced by the ECXpert JNI API library so that the ECXpert 3.0, 3.5, and 3.6 databases can be accessed. This enhancement requires migration of existing Java files from TradingXpert 3.5.1. The migration includes the installation of two packages:

- `jni.base.*` - contains `JEcxInit` and `JEcxBase` classes
- `jni.db.*` - contains ECX DB Access classes
- `jni.submit*` - contains `JEcxSubmit` class

## Class Equivalence Diagram

Table 4 shows the class relationships between the iAS/ECX extension and the JNI API library.

**Table 4** Class Equivalence Diagram

iAS/ECX Extension	ECXpert Java JNI API
IEcxMgr	not used
IEcxBase	JEcxBase
IEcxAddresses	JEcxAddresses
IEcxCrypto	JEcxCrypto
IEcxDocId	JEcxDocId
IEcxDocument	JEcxDocument
IEcxLog	JEcxLog
IEcxLogin	JEcxLogin
IEcxMember	JEcxMember
IEcxPartnerId	JEcxPartnerId
IEcxPartnership	JEcxPartnership
IEcxService	JEcxService
IEcxServiceList	JEcxServiceList
IEcxSubmit	JEcxSubmit
IEcxTracking	JEcxTracking
not used	JEcxInit

## Enhanced Object Creation

In previous releases of TradingXpert, developers were forced to use the `IEcxMgr` interface to create other objects. The concept of an “object factory” does not exist with this release. Instead, all Java API objects can be directly instantiated. This allows more flexibility when customizing TradingXpert.

The following code fragments (derived from `FXProfile.java`) illustrate the difference between object creation in TradingXpert 3.5 and TradingXpert 3.5.1:

With iAS/ECX extension:

```
(1)IEcxMgr ecxMgr ;
(2)IEcxLogin ecxLogin ;
(3)IEcxMember ecxMember ;
(4)
(5)ecxMember = ecxMgr.createMember(ecxLogin);
```

With JNI API library:

```
(a)JEcxLogin ecxLogin ;
(b)JEcxMember ecxMember ;
(c)
(d)ecxMember = new JEcxMember();
(e)ecxMember.setLogin(ecxLogin);
```

With the iAS/ECX extension method, you use an instance of `IEcxMgr` to create the `ecxMember` object. To log in to the database, you use the `createMember()` method to establish a db context, create the `ecxMember` object, and associate the supplied login credentials with that object.

In the new JNI API library `IEcxMgr` does not exist. Instead, the `JEcxMember` object is directly instantiated, and the supplied `setLogin()` method binds the login credentials.

Establishing the db context occurs when the `retrieveFXSession()` method in `FXAppLogic` is called. As in the prior release of TradingXpert, `Applogics` calls this method to retrieve login information, session data, and other information. The `retrieveFXSession()` method was enhanced to instantiate a `JEcxInit` object, which in turn establishes a db context using the `ecxInit()` method.

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# Hardware and Software Requirements

If you are creating a new installation of iPlanet TradingXpert, refer to the “Preinstallation Tasks” chapter of the *iPlanet TradingXpert Installation Guide* for any hardware and software requirements, including such things as cache settings.

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## Installation Notes

This section explains how to install TradingXpert Version 3.5.1 as either a new product or an upgrade to a pre-existing TradingXpert 3.5 installation.

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**CAUTION** If you are installing TradingXpert on a machine that does NOT have ECXpert, the `ecx.ini` file must exist in the following configuration directory:

```
/opt/iplanet/nasserver/config/ecx.ini;
```

Do NOT put the `ecx.ini` file in a lower directory, for example, do NOT put the `ecx.ini` file in:

```
/opt/iplanet/nasserver/nas/config/ecx.ini;
```

If ECXpert is on the same computer as TradingXpert, the `ecx.ini` file can reside in the `$ECX_HOME/config/ecx.ini` directory.

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## New Installation

Follow the installation instructions provided in the *iPlanet TradingXpert Installation Guide*. There is one additional prompt requesting you to enter the ECXpert version used with this installation of TradingXpert. For that prompt, enter 3.0, 3.5, or 3.6 as appropriate.

## Migration

To upgrade an existing installation of TradingXpert 3.5, perform the following steps.

1. If you are planning to do an ECXpert migration, do it before migrating TradingXpert. Refer to *iPlanet ECXpert Installation Guide* Version 3.6 for instructions.
2. Back up your customized installation of TradingXpert. Create tar files of the `ecx` and `fx` directories, and verify that the `reg.dat` file is backed up.
3. Shut down iAS.
4. Verify that the LDAP server is running.
5. Verify that the `LD_LIBRARY_PATH` environment variable is set properly:
 

```
LD_LIBRARY_PATH = $ECX_HOME/lib
```
6. Logged in as either `root` or as the ECXpert installation user `actraadm`, navigate to the directory where the binaries are located. Locate and execute the following command:
 

```
upgrade_exe
```
7. During installation, you will be prompted for the iAS directory. Enter the following path:
 

```
/opt/iplanet/nasserver/nas
```
8. You will also be prompted for the version of ECXpert you will use with TradingXpert. The upgrade script renames directories that are modified to `xxxxx.preSP1`, where `xxxxx` is filename. New directories and files will also be copied to the same location.
9. Once the installation process completes (when the command line prompt returns), any customized files that were backed up need to be migrated from the '`xxxxx.preSP1`' files to the newly copied files. The following modified directories and files are installed with this release:

- o `$NASDIR/APPS/FX/common`
- o `$NASDIR/APPS/FX/document`
- o `$NASDIR/APPS/FX/events`
- o `$NASDIR/APPS/FX/login`
- o `$NASDIR/APPS/FX/maps_etc/Customization`
- o `$NASDIR/APPS/FX/profile`
- o `$NASDIR/APPS/FX/templates/en_US/document/listPartners.html`
- o `$NASDIR/APPS/FX/templates/en_US/document/track.html`
- o `$NASDIR/APPS/FX/templates/en_US/inbound/inbound_1.html`
- o `$NASDIR/APPS/FX/templates/en_US/outbound/outbound_1.html`



- o \$NASDIR/APPS/FX/tradeCenter
- o \$NASDIR/APPS/FX/web/en\_US/frameset.html
- o \$NASDIR/APPS/FX/web/en\_US/help.html
- o \$NASDIR/APPS/FX/web/en\_US/menu/menu.html

10. You can remove the following ECX/iAS extension project files when the installation process has completed:

ecx.gxm

ecx.gxr

11. You can also remove the ecx directory:

```
% rm -R /opt/ipplanet/nasserver/nas/APPS/ecx
```

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## Bug Fixes and Enhancements

Table 5 lists the bug fixes and enhancements included in this release. In addition, a more complete discussion of Bug ID 530969 follows the table.

**Table 5** Bug Fixes and Enhancements in TradingXpert 3.5.1

iPlanet Bug Tracking #(s)	Description
397571	A Get Document button now allows you to load data from the database into memory, to speed up data access and allow users to have more documents in their mailbox.
----	You can now quickly call up the log on a web page, by replacing <code>tradeCenter.html</code> (which makes calls to the database) with a simple welcome webpage.
----	The logon java bug was fixed, to eliminate the error “No document found” that is raised when the locale is missing from the URL.
----	You can now log into TradingXpert from within an iPlanet Portal session.
----	User name has been added to the top frame, to show which user is logged into TradingXpert.
347780	The initial entry to inboxes or outboxes has been fixed, so that the TradingXpert Partner selection is no longer empty.

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**Table 5** Bug Fixes and Enhancements in TradingXpert 3.5.1 (*Continued*)

iPlanet Bug Tracking #(s)	Description
433970	The date format parameter setting has been added in the FX properties file, to enable internationalization of dates specified and displayed when viewed in a returned Search list.
----	The JNI interface has been added to the ECXpert extension, allowing TradingXpert to work with either the ECXpert 3.0, 3.5, or 3.6 database.
----	Users are now prevented from making invalid selections of the combination of a Trading Partner and an invalid Document Type (or vice versa) while administering a New Document. The two individual parameters, each represented by a selection list, are now combined into one pull down list.
----	Incorrect field focus occurring within <code>\$FX/web/javascript/function.js</code> has been fixed. Previously, with Netscape Communicator 4.x only half the page would be selected. The behavior on Microsoft Internet Explorer 5.0 gave an error indicating "cannot give focus to a hidden field."
396071	This bug, involving a password change that caused iAS to dump core, has been fixed.
387920	A fix has been added to <code>turnaroundDocument.java</code> allowing sublineitems to be properly turned around.
370734	This bug has been fixed, to allow display of more than one Purchase Order at a time.
387436	Bug fix for 997 FAgent producing a doc type 'null' in the Inbound list.

## Refreshing the TradingXpert Connection (Bug ID: 530969)

There are two ways the ECXpert/TradingXpert administrator can refresh the TradingXpert connection to ECXpert:

1. From a browser:

Add a Refresh button to the ECXpert Server Management User Interface. See ["Adding a Refresh Button to the ECXpert Server Management User Interface"](#) on page 11 for further information.

2. From a command line or a batch shell program:

Write a utility Java Class that connects to refresh Applogic in TradingXpert. See ["Writing a Utility Java Class to Refresh the TradingXpert Connection to ECXpert"](#) on page 11 for further information.

## Adding a Refresh Button to the ECXpert Server Management User Interface

1. Modify the file `1-1Left.htm` in the ECXpert installation directory:

```
$BDGHOME/UI/html/admin/Management/1-1Left.htm
```

Production directory example:

```
/opt/iplanet/NS-apps/ECXpert/UI/html/admin/Management/1-1Left.htm
```

2. Add the following html just after "Update Screen" in the table.

```
<tr>
  <td bgcolor="white"> <font size="-1" face="PrimaSans BT, Verdana,
    sans-serif">
    <a href="http://<hostname>:<port>/cgi-bin/gx.cgi/GUIDGX-
      {7D446663-4E0E-1A8C-FA9D-080020B37846}" target="middle">
    <b>Refresh TradingXpert</b></a></font>
  </td>
</tr>
```

where:

`hostname` = Hostname of machine on which TradingXpert is installed

`port` = Port configured for TradingXpert

`GUID` = The GUID with which the refresh Applogic is registered

**Example:**

```
<a href="http://txdemo.iplanet.com/cgi-bin/gx.cgi/GUIDGX-{7D446663-4E0E-1A8C-FA9D-080020B37846}" target="middle">
```

## Writing a Utility Java Class to Refresh the TradingXpert Connection to ECXpert

The refresh Applogic can be invoked programmatically from a java program, using the following class to send an HTTP request through a URL connection:

1. Compile the `TXURLConnection` class:

```
javac TXURLConnection.java
```

**2. Execute TXURLConnection:**

```
java TXURLConnection [http://<host_name>:<port>]
```

**Example:**

TradingXpert is installed on the host `production.foo.com` on port 8000. In this case, the java TXURLConnection would be initiated from the URL:

```
http://production.foo.com:8000
```

**Java Utility Class Source Code****Code Example 1** Java Utility Class Code for Class TXURLConnection

```
import java.net.*;
import java.io.*;
import java.util.*;

public class TXURLConnection
{
    public static final int SUCCESS = 0;
    public static final int FAILURE = 1;

    private String baseHref, refreshAL;
    private HttpURLConnection urlConn; // generic connection object
    private URL url; // generic URL reference

    public TXURLConnection(Properties props){
        baseHref = props.getProperty("HREF");
        refreshAL = "/cgi-bin/gx.cgi/GUIDGX-{" + props.getProperty("GUID")
            + "}";
    }
    public int connect(){
        try {
            url = new URL(baseHref + refreshAL);
            buildConnection(url);
            writeToConnection();
            return SUCCESS;
        }
        catch (Exception e) {
            System.out.println(e.getMessage());
            return FAILURE;
        }
    }

    private void writeToConnection()
        throws IOException
    {
        DataOutputStream printout = new DataOutputStream
            (urlConn.getOutputStream ());
        printout.flush ();
        printout.close ();
        urlConn.getResponseCode(); // wait for server response
    }
}
```

**Code Example 1** Java Utility Class Code for Class TXURLConnection (*Continued*)

```

    }

    private void buildConnection(URL target) throws IOException
    {
        urlConn = (HttpURLConnection)target.openConnection();
        System.out.println(target.toString());
        urlConn.setDoInput (true);
        urlConn.setDoOutput (true);
        urlConn.setUseCaches (false);
    }
}

```

The client program using this class uses the properties file `props.txt` to get the hostname, port and the GUID for the refresh Applogic.

The main method of such a client program can be implemented in two ways:

- o It can be part of `TXURLConnection.java`
- o It can be part of another client class, for example, `TXClient`

For example:

```

public static void main (String args[]) {
    Properties props = new Properties(); // store HTTP parameters
    try
    {
        FileInputStream fis = new FileInputStream("props.txt");
        props.load(fis);
    }
    catch (IOException e)
    {
        e.printStackTrace();
        return;
    }
    TXURLConnection txURL = new TXURLConnection(props);
    if (txURL.connect() == TXURLConnection.SUCCESS)
    ;
    else
        System.err.println("Failure :: TXURLConnection.init()");
}

```

A sample `props.txt` file for a TradingXpert installation on a machine with the IP address 192.18.112.184 on port of 8080 for the Application Server, and a GUID for the refresh Applogic is:

```
7D446663-4E0E-1A8C-FA9D-080020B37846  
HREF=http://192.18.112.184:8080  
GUID=7D446663-4E0E-1A8C-FA9D-080020B37846
```

You need to refresh TradingXpert every time the ECXpert Admin server is restarted. If the Application Server is restarted after ECXpert refreshes TradingXpert is not necessary. TradingXpert should also be refreshed every time the ECXpert TCP/IP connector is restarted.

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## How to Report Problems

If you have problems with iPlanet TradingXpert, Version 3.5.1, contact iPlanet Customer Support:

- iPlanet online support web site at <http://www.iplanet.com/support/online/>  
From this location, use the CaseTracker and CaseView tools for logging problems.
- The telephone dispatch number associated with your maintenance contract

So that we can best assist you in resolving problems, have the following information available when you contact Customer Support:

- Description of the problem, including the situation in which the problem occurs and its impact on your operation
- Machine type, operating system version, and product version, including any patches and other software that might affect the problem
- Detailed steps for reproducing the problem
- Any error logs or core dumps generated as a result of the problem

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## For More Information

Useful iPlanet information can be found at the following Internet locations:

- iPlanet release notes and other documentation — <http://docs.iplanet.com/docs/manuals/>
- iPlanet product status — [http://www.iplanet.com/support/technical\\_resources/](http://www.iplanet.com/support/technical_resources/)
- iPlanet Professional Services information — [http://www.iplanet.com/services/professional\\_services\\_3\\_3.html](http://www.iplanet.com/services/professional_services_3_3.html)
- iPlanet developer information — <http://developer.iplanet.com/>
- iPlanet learning solutions — <http://www.iplanet.com/learning/index.html>
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