

Technical Bulletin #20

Installing Solaris Java Clients for Astoria

This bulletin addresses Astoria customers needing to use and/or install the Java API for Astoria on Sun Solaris. This bulletin does NOT apply to customers using Eclipse.

Installing Solaris Java Clients

Use the procedures in this bulletin to install Solaris Java clients for Astoria. This procedure does not apply to customers using Eclipse.

Note: The examples in these instructions presume that you have installed Astoria in its default directories (**/opt/astoria**). Tailor the examples provided to fit your directory selections. This installation also presumes your CD-ROM is mounted at **/cdrom/cdrom0**.

Part I: Complete all System Backups

- ✓ Complete all system backups prior to installing Solaris Java Clients for Astoria. This is a normal precautionary step that should be taken whenever new software is installed.

Part II: Confirm Operating System Version Levels and Patch Requirements

The following or more recent patches are required before proceeding.

- ✓ Apply the following patches for **Solaris Server 2.6**: **105490-07**, **105568-16**, **105210-27**, **106040-13**, **105633-36***, **106409-01***, **108091-03** (*required for Asian Locales and Chinese fonts)
- ✓ Apply the following patches for **Solaris 2.7**: **106980-10**, **107636-03**, **107081-11**, **108376-03**

Note: If additional Solaris patches are available and applicable to your installation, you should also apply those patches in addition to the patches listed in this bulletin.

Part III: Install the Astoria SDK Package

Note: For detailed information on installing the Astoria SDK for Solaris, see `\solaris\sdk\unixskd.txt`. This document contains installation instructions and release notes for the Astoria 3.5 Solaris version of the Chrystal SDK, as well as any associated cautions, limitations, and clarifications. If you are unfamiliar with the Astoria SDK, please read this document before installing the Chrystal SDK on Solaris.

Install the SDK package as follows:

- 1 Log in as `root`.
- 2 From the command shell, enter the following command to start the installation:

```
# sh /cdrom/cdrom0/solaris/astoriapkg ASTORsdk
```

If this package is installed, respond "Y" to the "Install Help Files" question. This will provide the five HTML help files in the `$ASTORIA/help/unixsdk` directory, where `$ASTORIA` is `/opt/astoria`. (Helpfiles in `/opt/astoria/help/unixsdk`)

Part IV: Install the Astoria JRE Wrapper

The `ASTORjre` package is Chrystal Software's wrapping of the Sun Java Runtime Environment, version 1.2.2_05a.

Install the ASTORjre package as follows:

- 1 Log in as `root`.
- 2 From the command shell, enter the following command to start the installation:

```
# sh /cdrom/cdrom0/solaris/astoriapkg ASTORjre
```

Part V: Unpack the Patch Files

Use the following procedure to unpack the necessary patch files.

Unpack the patch files as follows:

- 1 Unzip the patch file with the command:
 - `gunzip Astoria_35_SDK_Solaris_p1.tar.z`
- 2 Untar the resulting file, `Astoria_35_SDK_Solaris_p1.tar` with the command:
 - `tar xvof Astoria_35_SDK_p1.tar`
- 3 Copy the following files from `SDK/Solaris/Java` to `/opt/astoria/Solaris_JRE_1.2.2_05a/lib/ext`:
 - `eclipse.jar`
 - `xerces.jar`
 - `xercesSamples.jar`

- 4 Change the **.jar** file privileges and ownership by changing directories, e.g. **cd to /opt/astoria/Solaris_JRE_1.2.2_05a/lib/ext**, and entering the following commands for each new **.jar** file:
 - # **chmod 444 eclipse.jar**
 - # **chown username:group eclipse.jar**
- 5 Copy the following **.cat** file from **SDK/Solaris/cat** to **/opt/astoria/cat**:
 - **libxdecladd.cat**
- 6 Change the **.cat** file privileges and ownership by changing directories e.g., **cd to /opt/astoria/cat** and entering the following commands:
 - # **chmod 440 libxdecladd.cat**
 - # **chown username:group libxdecladd.cat**
- 7 Copy the following ***.so** files from **SDK/Solaris/lib** to **/opt/astoria/lib**:
 - **libxdecladd.so**
 - **libxdjumble.so**
 - **libxdnet.so**
- 8 Change the **.so** file privileges and ownership by changing directories e.g., **cd to /opt/astoria/lib** and entering the following commands for each new **.so** file:
 - # **chmod 750 libxdecladd.so**
 - # **chown username:group libxdecladd.so**

Note: “**username**” and “**group**” should be the same as the **USERNAME** and **GROUPNAME** variables defined in the **ASTORbas** package.
- 9 **cd to /usr/lib.**
- 10 Create symbolic links to the preceding **.so** files:
 - # **ln -s /opt/astoria/lib/libxdecladd.so**
 - # **ln -s /opt/astoria/lib/libxdjumble.so**
 - # **ln -s /opt/astoria/lib/libxdnet.so**
- 11 Place any custom **JAR** files in the **JRE** library directory, e.g., **/opt/astoria/Solaris_JRE_1.2.2_05a/lib/ext**
- 12 Copy the test java test script from **Solaris/Java** to **/opt/astoria/bin2**:
 - **xdjava**
- 13 **cd to /opt/astoria/bin**
- 14 Create a symbolic link to the above script:
 - # **ln -s /opt/astoria/bin/cmdlineshell xdjava**

Part VI: Client Setup

Complete the following initialization process **before** developing or running Astoria applications.

Note: This procedure must be run once for each user system developing or running Astoria applications.

Use the following procedure to setup each client. This creates the Astoria directories, ".astoria" (registry) file, and the **astoria.ini** file.

- 1 Run the **Astoria Setup** tool as that user:
% /opt/astoria/bin/astoriasetup
- 2 Provide information for **Astoria Server hostname** and **database** path.
- 3 Edit the **.astoria** file in the **\$HOME** directory (for example, **/home/steve/.astoria**)
Uncomment the license file line. Copy a license file to the path specified in the **.astoria** file.
- 4 Test that the client can connect to the server database. Use the console automator:
% /opt/astoria/bin/xdcsauto

(Automator provides startup messages)

```
> open database
> list cabinets
> quit
```

Note: If any of these steps fail, make corrections. The most common problem is not getting the license file set up correctly in the previous step.

Part VII: Confirming a Successful Installation

If all of the preceding steps are completed satisfactorily, you should now be able to test Java client code. Use the following command to confirm that the preceding steps have completed satisfactorily.

```
% /opt/astoria/bin/xdjava com.chrysal.eclipse.tools.ListCabs
```

This command lists the cabinets from the Java API.