Installing the Natural Web I/O Interface Client on Sun Java System Application Server

If you want to use the Natural Web I/O Interface client with Sun Java System Application Server, you must proceed as described in this chapter. The following topics are covered:

- Installation Steps
- Installation Verification

Installation Steps

The Natural Web I/O Interface client is installed using the Adminstration Console of Sun Java System Application Server.

The following is assumed:

- < host> is the name of the machine on which the application server is installed.
- <port> is the name of the port where the application server is installed. In a default installation, this is port 8080.
- < adminport> is the name of the port where the Adminstration Console is installed. In a default installation, this is port 4848.
- <sunas> is the path to the directory in which the application server is installed. In a default installation on Windows, this is C:/Sun/AppServer.

The following topics are covered below:

- First-time Installation
- Update Installation

First-time Installation

To install the Natural Web I/O Interface client

1. Download the Natural Web I/O Interface client for Sun Java System Application Server from Empower (https://empower.softwareag.com/) and unzip the contents to a directory of your choice on your hard disk.

Or:

Natural for UNIX, Natural for OpenVMS and Natural for Windows: Copy the complete contents of the *nwo/<platform>/j2ee/v<nnnn>/sun-apps* directory from the installation medium to a directory of your choice on your hard disk.

2. On UNIX platforms: Dearchive the TAR file using the following command:

```
tar -xvf nwonnnn.tar
```

3. Edit the file *<sunas>/domains/domain1/config/server.policy* and add the following setting in order to enable the Java Logging API:

Important:

If you do not add this setting, the resource adapter will not start and the Natural Web I/O Interface client will therefore be inoperative.

- 4. Make sure that the application server is running.
- 5. Open your web browser and enter the following URL:

```
http://<host>:<adminport>
```

This opens the Adminstration Console.

- 6. Deploy the resource adapter *naturalunicode.rar*:
 - 1. Open the tree node **Applications > Connector Modules**.
 - 2. Choose **Deploy**.
 - 3. Select *naturalunicode.rar* as the package file to be uploaded to the application server.
 - 4. Choose **Next**. "naturalunicode" is automatically included as the application name.
 - 5. Choose Finish.
- 7. Define the JNDI name for the resource adapter:
 - 1. Open the tree node **Resources** > **Connectors** > **Connector Connection Pools**.
 - 2. Choose New.
 - 3. Enter "NatPool" (the name is arbitrary) as the name.
 - 4. Select **naturalunicode** as the resource adapter.
 - 5. Each connection to a Natural host results in a new connection being made. Since each user requires a unique host session, connection pooling cannot be used. Therefore, you should make sure there are enough sessions for your users. The default maximum number is "32".

- 6. Choose Next.
- 7. Choose Next.
- 8. Choose Finish.
- 9. Open the tree node **Resources > Connectors > Connector Resources**.
- 10. Choose New.
- 11. Enter "eis/NaturalUnicodeRA" as the JNDI name.
- 12. Select **NatPool** (or whatever name you specified previously) as the pool name.
- 13. Choose **OK**.
- 8. Deploy the enterprise application *natuniapp.ear*:
 - 1. Open the tree node **Applications** > **Enterprise Applications**.
 - 2. Choose **Deploy**.
 - 3. Select *natuniapp.ear* as the file to upload.
 - 4. Choose Next.
 - 5. Choose **OK**. The deployment may take several minutes.
- 9. Restart the application server.

Update Installation

To update the Natural Web I/O Interface client

- 1. Make a backup copy of your *sessions.xml* file which is located in ../*AppServer/domains/domain1/applications/j2ee-apps/natuniapp/natuniweb_war/WEB-INF*. If you have changed any other files (such as style sheets), also make backup copies of these files.
- 2. Download the Natural Web I/O Interface client for Sun Java System Application Server from Empower (https://empower.softwareag.com/) and unzip the contents to a directory of your choice on your hard disk.

Or:

Natural for UNIX, Natural for OpenVMS and Natural for Windows: Copy the complete contents of the *nwo/<platform>/j2ee/v<nnnn>/sun-apps* directory from the installation medium to a directory of your choice on your hard disk.

3. On UNIX platforms: Dearchive the TAR file using the following command:

tar -xvf nwonnnn.tar

4. Edit the file *<sunas>/domains/domain1/config/server.policy* and make sure that the following setting has been defined:

Important:

This setting is required as of Natural Web I/O Interface Version 1.3.2. If this setting is missing, the resource adapter will not start and the Natural Web I/O Interface client will therefore be inoperative.

- 5. Make sure that the application server is running.
- 6. Open your web browser and enter the following URL:

```
http://<host>:<adminport>
```

This opens the Adminstration Console.

- 7. Undeploy the resource adapter *naturalunicode.rar*:
 - 1. Open the tree node **Resources > Connector S > Connector Connection Pools**.
 - 2. Mark the check box **Natpool** (or the check box for whatever name you specified previously).
 - 3. Choose **Delete**.
 - 4. Open the tree node **Applications** > **Connector Modules**.
 - 5. Mark the check box **naturalunicode**.
 - 6. Choose **Undeploy**.
- 8. Undeploy the enterprise application *natuniapp.ear*:
 - 1. Open the tree node **Applications** > **Enterprise Applications**.
 - 2. Mark the check box **natuniapp**.
 - 3. Choose **Undeploy**.
- 9. Deploy the resource adapter *naturalunicode.rar* as in a first-time installation.
- 10. Define the JNDI name for the resource adapter as in a first-time installation.
- 11. Deploy the enterprise application *natuniapp.ear* as in a first-time installation.
- 12. Copy your backup files back to the required places.
- 13. Restart the application server.

Installation Verification

It is assumed that *http://<host>:<port>* is the URL of your application server.

To verify the installation

1. Enter the following URL in your web browser:

http://<host>:<port>/natuniweb/natural.jsp

For example:

http://myhost:8080/natuniweb/natural.jsp

The Natural Web I/O Interface client is now started in your browser. The entries which appear in the resulting logon page depend on the settings in your configuration file. For further information, see *Configuring the Client*.