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:

```
grant {
        permission java.util.logging.LoggingPermission "control";
};
```

   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:

```
grant {
        permission java.util.logging.LoggingPermission "control";
};
```

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 > Connectors > 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*.