Installing the Natural Web I/O Interface Client on JBoss Application Server

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

- Installation Steps

- Installation Verification

Installation Steps

Only one version of the Natural Web I/O Interface client can be installed on the same JBoss Application Server.

You can either install the Natural Web I/O Interface client or Natural for Ajax on the same JBoss Application Server, not both.

It is assumed that *<jboss>* is the directory of your JBoss Application Server installation.

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 JBoss 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>/jboss* 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. Install Apache Ant (you need Apache Ant to deploy the Natural Web I/O Interface client to the JBoss Application Server; see the *Prerequisities* above for the required version number):

1. Download and unzip Apache Ant (from *http://ant.apache.org/*) into an installation directory of your choice. Avoid a directory name that contains blanks.

2. Let the environment variable ANT_HOME point to the directory *<ant>* (where *<ant>* is the directory of your Ant installation).

3. Add *<ant>/bin* to your PATH environment variable.

4. Deploy the Natural Web I/O Interface client to JBoss Application Server:

    1. Copy the the Natural Web I/O Interface client distributables to a directory on a disk drive.

    2. In the directory that contains the the Natural Web I/O Interface client distributables, there is an Ant script named *jbossdeploynwo.xml*. Edit this script and change the setting

        ```
        <property name="jbosshome" value="C:/Program Files/Java/jboss-4.0.5"/>
        ```

        to

        ```
        <property name="jbosshome" value="<jboss>"/>
        ```

        where *<jboss>* is your JBoss Application Server installation directory.

        Important:
        Take care to use forward slashes (also on Windows) when specifying the directory path.

    3. Execute the script *jbossdeploynwo.xml* by entering the following command:

        ```
        ant -f jbossdeploynwo.xml
        ```

        Wait for the message "BUILD SUCCESSFUL". This indicates that the deployment was successful.

5. Edit the file *<jboss>/server/default/deploy/jbossjca-service.xml* and change the setting

    ```
    <!-- Enable connection close debug monitoring -->
    <attribute name="Debug">true</attribute>
    ```

    to

    ```
    <!-- Enable connection close debug monitoring -->
    <attribute name="Debug">false</attribute>
    ```

6. JBoss Application Server 4.0.5 only: Edit the file *<jboss>/server/default/deploy/natuniapp.ear/natuniweb.war/WEB-INF/web.xml* and uncomment the section

    ```
    <!--
    Uncomment the next lines, in case the configuration tool is installed on a JBOSS 4.0.5.GA
    <listener>
      <listener-class>org.apache.myfaces.webapp.StartupServletContextListener</listener-class>
    </listener>
    -->
    ```

so that it looks as follows:

```
<listener>
  <listener-class>org.apache.myfaces.webapp.StartupServletContextListener</listener-class>
</listener>
```

Important:
For JBoss Application Server 4.2, you must not remove this comment.

7. Start JBoss Application Server.

Update Installation

▶ To update the Natural Web I/O Interface client

1. Download the Natural Web I/O Interface client for JBoss 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>/jboss* 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. Shut down JBoss Application Server.

4. Deploy the Natural Web I/O Interface client to JBoss Application Server as in a first-time installation.

5. Make sure that the file *<jboss>/server/default/deploy/jbossjca-service.xml* contains the same settings as described for a first-time installation.

6. JBoss Application Server 4.0.5 only: Make sure that the file *<jboss>/server/default/deploy/natuniapp.ear/natuniweb.war/WEB-INF/web.xml* contains the same settings as described for a first-time installation.

7. Start JBoss 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*.