NetSuite Web Services: Apache Axis Sample Application

Introduction

This archive contains the files necessary to install and run the Apache Axis based Java sample application. It assumes that the application will be run on a Windows platform that has an available Java Runtime environment.

Please visit our [Web Services Portal](#) to learn more about the NetSuite Web Services platform including detailed documentation, FAQs, and latest updates.

Prerequisites

In order to compile and run this sample application, you will need to install and configure the following software:

- **Java 2 Platform**: Standard Edition, version 1.4 or 1.5: Available at http://java.sun.com/j2se/.

- **Apache Ant**: version 1.5 or higher: Available at http://ant.apache.org/.

- **Apache Axis**: version 1.2, 1.3, 1.4: Available at http://ws.apache.org/axis/.

- **Apache Axis patch for cookie management:** Apache Axis requires a patch for cookie management. The patch can be downloaded from Apache (needs to be compiled), or pre-compiled versions of `axis.jar` for Axis that includes the patch can be downloaded from our Web services portal [here](#). Please see [FAQ](#) for details on downloading and installing.

Setup Environment

Setup the following environment variables. In Windows XP, you can do this in Control Panel > System > Advanced > Environment Variables.

- Update your system path variable with the following:
  - Add the complete path to the `bin` directory of your Java SDK installation
  - Add the complete path to the `bin` directory of your Ant installation
- Set the JAVA_HOME environment variable to your Java SDK installation root directory.
  - **For example**: set `JAVA_HOME= C:\java\j2sdk1.4.2_06`

- Set the AXIS_HOME environment variable to your Axis installation directory
  - **For example**: set `AXIS_HOME=C:\java\axis-1_2`

Configuration

Set the applicable configuration parameters in the `nsclient.properties` file in the root directory of the sample application installation. At a minimum, you must provide your NetSuite login information. The `nsclient.properties` file looks as follows:

```
<!-- Login field values -->
<add key="login.email" value="email" />
<add key="login.password" value="password" />
<add key="login.roleNSid" value="3" />
<add key="login.acct" value="account" />
```

Note:The internal ID **role** of 3 is an administrative role. This allows you to perform all of the operations included in this sample application. For your own applications, ensure that this role value is set to the appropriate permissions level for the operation being called. The **acct** value refers to the account number assigned to your organization by NetSuite. To locate this number, login to the NetSuite UI and go to Setup> Integration > Web Services. The account number is displayed.

Run the Application

After the application has been compiled successfully, use the `nsclient.bat` file located in the `bin` directory to run the application as follows:

1) Open a command prompt

2) Change the directory to the `bin` directory of the sample application

3) Type the following at the prompt:

> nsclient

This batch file will automatically set the class path to locate the appropriate libraries required to run this application.

Note: In the event you make any code level changes to the sample application, you will need to "Build" the application, as discussed in the following section.

Build the Application

The sample application comes with an Apache Ant build script named `build.xml` located in the `bin` directory. NetSuite strongly recommends that you use this script for compiling this application. Note that this script will automatically create any required directories.

The sample application can be built as follows:

4) Open a command prompt

5) Change the directory to the bin directory of the sample application

6) Type the following at the prompt:

```
ant deploy
```

Following is a listing of all available targets within the Ant script:

- **deploy**: Performs a new build from scratch including regenerating the source for the proxy classes from the WSDL

- **compile**: Compiles all java classes, including the generated proxy classes. This target should be used to compile any changes made to the sample application, but not have to generate the source for the proxy classes from the WSDL every time.

- **generate.proxy**: Generates the source for the client proxy classes from the WSDL using Axis WSDL2Java

- **clean**: Cleans the current build

Any of the above targets can be run by entering `ant <target>` at a command prompt from the `bin` directory.