OrderApp

Queries the BV and BVE database for all orders that are available to ship. Gets the details of the order, and uploads it to a FTP site.

Application Setup

This application is written in Java and is deployed as a JAR file that is run by a scheduler. The configurable data is setup in a properties file so that code changes are not needed. The Jar file can be deployed in any directory and run through a bat file. The bat file is called by the Windows Task Scheduler with any frequency that is needed.

Properties File

The properties file is in the src/com/order/src folder, it's named messages.properties. There a two versions of the properties file in there. The first is a blank version which has no data and the second is an encrypted version which has the values that are on the production server.

When you create the JAR file, decrypt the production properties file and use that instead of the blank properties file. You could also unJar the file on the production server and use that properties file.

Note: I suggest you use the properties file from the production server Jar file since the encrypted properties file may not be up-to-date. Or there may be multiple instances of the Jar file deployed, use the appropriate one.

Creating the JAR File

The Jar file has to contain the compiled source code and the META-INF folder. What I usually do is put the complied files and the META-INF folder in the same folder. Then compress the two directories into a Zip file and change the extension from .zip to .jar. You can also use the Jar utility that comes with the JDK but it's just easier to compress the directories and change the extension.

Note: Don't forget to use the correct messages.properties file.

Note: You can create an Ant script that will create the Jar file for you, if you don't want to bother with the above steps.

The Bat File

The Bat file runs the application. The reason for the Bat file is so that I can use the windows scheduler to call it multiple times during the day.

The contents of the bat file is a command line call to run the Jar file:

`"C:\Program Files (x86)\Java\jre6\bin\java" -jar OrderApp.jar ISW4BATLANTIA UDCATLANTIA false`

"C:\Program Files (x86)\Java\jre6\bin\java" – the path to java

-jar – States you want to run to run the Jar file that follows

OrderApp.jar – the Jar file you want to run

ISW4BATLANTIA – the BV database, ODBC name

UDCATLANTIA – the BVE database, ODBC name

false – this parameter answers the questions: Is it test? true will upload the resulting file to the test FTP site specified in the messages.properties file. false will upload the resulting file to the production FTP site specified in the messages.properties file.

Folder Setup

The application can run in any folder on the system and the XML output goes into the folder specified in the messages.properties file.

The folder that the application runs from has to contains all the Jar files that it needs in the same folder level as the OrderApp.jar and runApp.bat. The Jar files that the application needs to run is in the lib folder of the repository.

Scheduling

The application is run using Windows Tash Scheduler. It is setup to call the runApp.bat file in the directory that the application is setup in.

Currently the schedule is setup to run as follows:

At 7:30 AM every day – After triggered, repeat every 30 minutes for a duration of 05:00:00.

At 1:30 PM every day – After triggered, repeat every 1 hr for a duration of 05:00:00.

Note: If there is a password change to the account that runs the scheduler, you have to update the scheduled task with the new password.

Development

The development for the OrderApp can be done on any OS. I have it running on Linux and OSX, the IDE that I use is Eclipse. The server that it runs on is Windows.
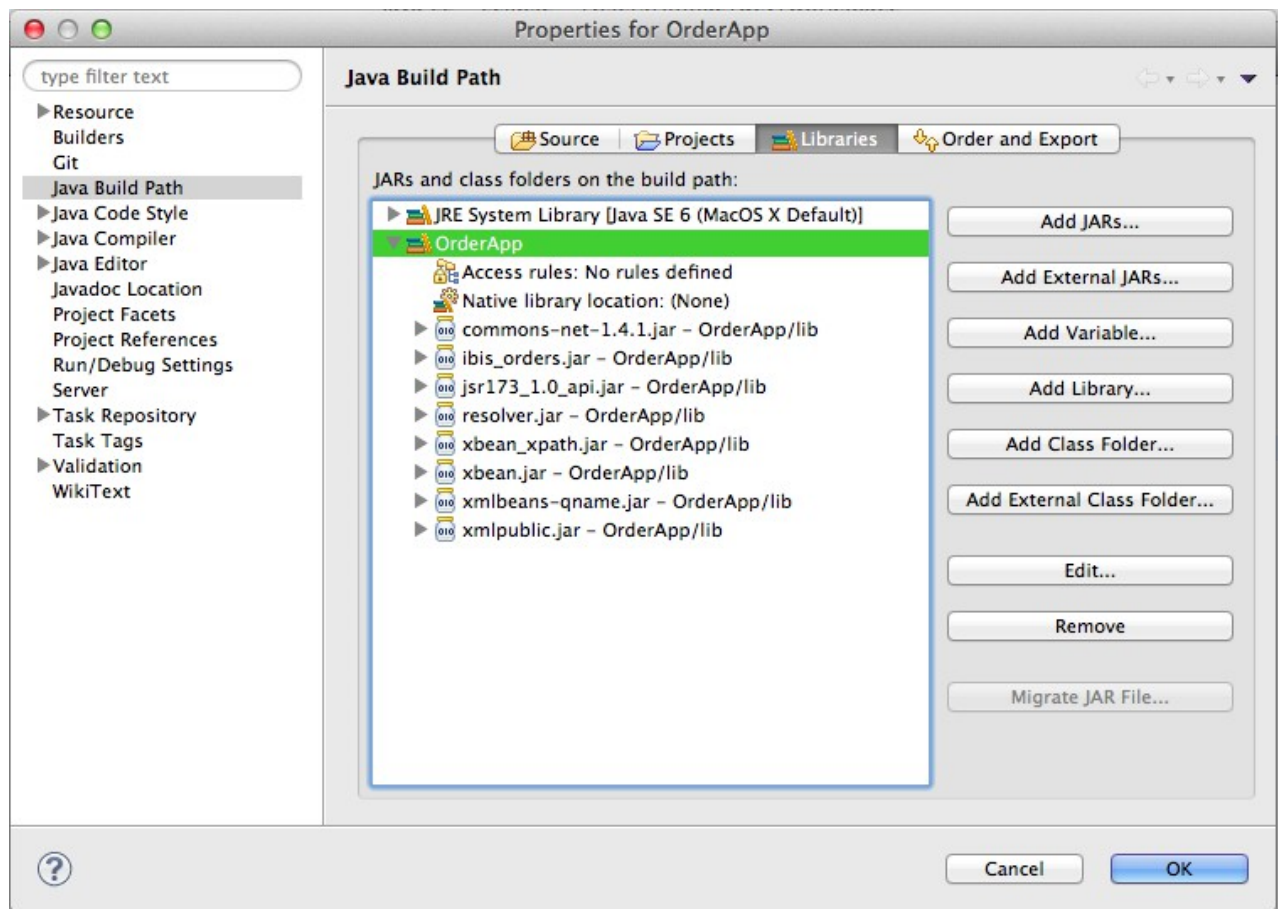
Technologies Used

Java 6, SQL, ODBC/JDBC, XML/XSD, XMLBeans (http://xmlbeans.apache.org/), FTP (http://commons.apache.org/net/), GIT (http://www.github.com), Eclipse (http://www.eclipse.org)

Eclipse IDE Setup

1. Install Eclipse
2. Setup Git – Create an account
   a) Install Git based on your OS (Instructions are on GitHub)
   b) or – Setup Git in Eclipse (The plugin I use is 'Egit', you can get it from the market place or http://www.eclipse.org/egit/)
3. Checkout/Download/Clone the repository from GitHub
   Note: If you're not the owner of OrderApp repository on GitHub then contact the person that is and get them to give you access
4. Import the repository into Eclipse
   a) If you don't have Egit install import it as a project
   b) If you do have Egit installed import it as a local Egit repository
5. The source code will not compile so you have to create a User Library called OrderApp with all the Jar files in the lib directory

6. Build the project. It should compile now and you're set.