

Conveyance Estimator Setup

Last Revision on 10-Jul-2013

Checking out CE

The source code for CE can be checked out of the repository at [svn://devslo189/svnroot](http://devslo189/svnroot) in location `projects/ICODES/conveyance-estimator`

Usually you will check out the entire trunk.

Setting Up the Server

Verifying Eclipse is Configured Properly

1. Ensure that your eclipse workspace is using a jdk instead of a jre.
 1. Window -> Preferences -> Java -> Installed JREs
 2. Make sure the selected item is a JDK
2. Ensure that eclipse is using the correct maven installation
 1. Window -> Preferences -> Maven -> Installations
 2. Make sure you are using the local copy you should have already downloaded
3. Ensure that tomcat is properly configured.
 1. Window -> Preferences -> Tomcat
 2. Make sure the correct version and tomcat home are selected
 3. Expand the Tomcat option and select the JVM Settings options
 4. Make sure the following JVM parameters are present:

```
-Djavax.net.ssl.trustStore=conf\truststore.jks  
-Djavax.net.ssl.trustStorePassword=changeit  
-Xmx1024m  
-XX:MaxPermSize=384m  
-Dorg.apache.cxf.stax.maxAttributeSize=2147483647
```

4. Ensure that all of the project dependencies are built and downloaded. To do this, run the parent pom as a maven install. Under the conveyance-estimator project, right-click the pom.xml file. Select Run As -> Maven Install

Importing the Server Project

In Eclipse after checking out the entire project, find the 'ce-server' folder in the 'conveyance-estimator' project. Right-click and select "Import...". Select the "Existing Maven Projects" option and click "Next". Make sure the root directory ends with ce-server. Select the pom and click "Finish".

Configuring the Project as a Tomcat Project

There will now be a conveyance-estimator-server project in eclipse.

1. Right-click the conveyance-estimator-server project. Select properties.
2. Select the tomcat option
3. Check the box for Is a Tomcat Project
4. For the Context name, enter: *ConveyanceEstimator*
5. For the Subdirectory to set as web application root, enter: */target/ConveyanceEstimator*
6. Click Apply. Click OK
7. Right-click the conveyance-estimator-server project -> Tomcat project -> Update context definition

Database Configuration

Conveyance Estimator uses its own relational database to persist certain objects. Follow the following steps to setup your database:

1. If you do not have a database account, ask someone in your team to help you get one. Until your account is created, use a team member's DB account and use their DB username in all places where you would normally use yours.
2. Ensure the correct persistence unit and libraries exist in your tomcat settings and library.
 1. Navigate to your tomcat home directory. Open the **conf** directory and edit the **server.xml** file
 2. Ensure the following code is within the **server.xml** file inbetween the **<GlobalNamingResources>** tags:

```
<Resource name="jdbc/cePu" auth="Container"
  type="javax.sql.DataSource"
  driverClassName="oracle.jdbc.driver.OracleDriver"
  url="jdbc:oracle:thin:@devslo149:1521:CODES"
  username="<YOUR DB USERNAME>" password="<YOUR DB USERNAME>"
  initialSize="1"
  maxActive="30"
  maxIdle="30"
  minIdle="0"
  maxWait="30000"
  removeAbandoned="true"
  removeAbandonedTimeout="150"
  testOnBorrow="true"
  validationQuery="select 1 from dual"/>
```

Or if you're using a local postgresql database:

```
<Resource name="jdbc/cePu" auth="Container"
  type="javax.sql.DataSource"
  driverClassName="org.postgresql.Driver"
  url="jdbc:postgresql://localhost:5432/<WHATEVER YOU NAMED YOUR
  POSTGRES DB>"
  username="<YOUR DB USERNAME>" password="<YOUR DB USERNAME>"
  initialSize="1"
  maxActive="30"
```

```

maxIdle="30 "
minIdle="0 "
maxWait="30000 "
removeAbandoned="true"
removeAbandonedTimeout="150 "
testOnBorrow="true"/>





```

3. Now edit the **context.xml** file in the same directory.
4. Ensure that the following code is in the **context.xml** file between the <Context> tags

```

<ResourceLink name="jdbc/cePu" global="jdbc/cePu"
type="javax.sql.DataSource"/>



```

5. Navigate back to your tomcat home directory then open the **lib** directory
6. Make sure that the **ojdbc14-10.2.0.4.0.jar** and **postgresql-9.0-801.jdbc4.jar** files are both in this directory. Download the files  ojdbc jar and  postgres jdbc jar
7. Download sqldeveloper from  <http://devcas024/dnsr/node/36> if you're developing with an oracle database or pgadmin from  <http://devcas024/dnsr/node/583> if you are using a postgres database
8. Open either of those applications and configure them to use the appropriate database
9. Within the sql application, open the appropriate COMPOUND.sql script located in conveyance-estimator-server/src/main/conf/oracle or conveyance-estimator-server/src/main/conf/postgres and run the script to create the database (A drop table script is also provided if the database needs to be cleared)

Cleanup and Verification

You may notice that the conveyance-estimator-server project has errors. It is a good chance that those are a result of a generated version class that is built as a result of maven installs. Make sure the problems in the project are a result of missing Version classes and incorrect Version references. This problem has a tendency to appear if you clean and install the entire project and may occur more frequently. To fix this issue:



1. Right-click the conveyance-estimator-server project. Run As -> Maven Install
2. Right-click the project again. Maven -> Update Project Configuration -> OK
3. Repeat steps 1 and 2 until the errors disappear.
4. Run one final maven install.

The server should be in a working state. Double check by starting tomcat and navigating to  <https://localhost:8443/ConveyanceEstimator> or  <https://localhost/ConveyanceEstimator> depending on your tomcat configuration.

Setting Up the Client

Importing the Client Project

1. Open Flash Builder (I prefer the project explorer view so I will be referring to that, but the package explorer and navigator views work the same way)

2. Right-click within the Project Explorer view and select Import... Select the Existing Maven Projects Option. Click Next.
3. Click Browse... and select the **ce-client** folder contained in the conveyance-estimator folder in your eclipse workspace. Click Finish.
4. Right-click the newly imported conveyance-estimator-client project in the project explorer and select properties -> Resource -> Linked Resources.
5. Click New... Enter CE_WEBAPP_DIR as the name, and click Folder... Browse to and select *<Your eclipse workspace>\conveyance-estimator\ce-server\target\ConveyanceEstimator* as the location folder. (This may also need to be done in Preferences -> General -> Workspace -> Linked Resources)
6. Select the Flex Build Path option in the Project Properties window. Make sure the output folder is \${CE_WEBAPP_DIR} and the output folder url is either  <https://localhost:8443/ConveyanceEstimator> or  <https://localhost/ConveyanceEstimator> depending on which port you are running your server on. Click OK.
7. Select the project in the Project Explorer, then select Project -> Clean... (Make sure you have the start a build immediately option selected with the Build only the selected projects option) Click OK.
8. If the unable to create HTML templates error appears, right-click the error in the problems view and select the re-create HTML templates option. The run a clean again.
9. The client is now ready to run, make sure the server is running, then click the debug tool, if prompted, select flash application. Your browser will open running your local client in debug mode. (So long as you have the debug version of flash installed for your browser)

CategoryHomepage

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