

Team 4

Deliverable #1

Martus

<https://code.google.com/p/martus/>

<https://martus.org/>

Summary:

Martus is a secure information management tool that allows you to create a searchable and encrypted database and back this data up remotely to your choice of publicly available servers. The Martus software is used by organizations around the world to protect sensitive information and shield the identity of victims or witnesses who provide testimony on human rights abuses. Martus is the Greek word for witness.

Environment:

- Ubuntu Desktop 12.04
- Java 1.6
- Eclipse Indigo (3.7.2)
- MercurialEclipse plugin

Build:

Built using modified version of documentation found at:

<https://code.google.com/p/martus/wiki/DeveloperHOWTO>

1. In Eclipse, create a new workspace.
2. In the Package Explorer view, do a right-click/Import/Mercurial/Clone Existing Mercurial Repository.
3. For the URL, enter:

<https://code.google.com/p/martus.martus-amplifier/>

4. Hit OK

5. Repeat steps 2-4 for each of the following URLs:

- <https://code.google.com/p/martus.martus-bc-jce/>
**Appears this package may be skipped when running OpenJDK (causes test errors) – investigate further*
- <https://code.google.com/p/martus.martus-client/>
- <https://code.google.com/p/martus.martus-clientside/>
- <https://code.google.com/p/martus.martus-common/>
- <https://code.google.com/p/martus.martus-docs/>
- <https://code.google.com/p/martus.martus-hrdag/>
- <https://code.google.com/p/martus.martus-jar-verifier/>
- <https://code.google.com/p/martus.martus-csv2xml/>
- <https://code.google.com/p/martus.martus-logi/>
- <https://code.google.com/p/martus.martus-meta/>
- <https://code.google.com/p/martus.martus-mspa/>
- <https://code.google.com/p/martus.martus-server/>
- <https://code.google.com/p/martus.martus-swing/>
- <https://code.google.com/p/martus.martus-thirdparty/>
- <https://code.google.com/p/martus.martus-utils/>

6. Right-click on martus-csv2xml, and to a Refactor/Rename, and change the name to martus-js-xml-generator

Configuring the projects in eclipse

1. Go to Window/Preferences/Java/Installed JRE's.

Select the JRE and choose Edit

Choose Add External Jars..

Select the bc-jce.jar file from inside the bc-jce project you checked out earlier.

Select bc-jce.jar in the list, and use the Up button to move it above jsse.jar

**Appears this step may be skipped when running OpenJDK (causes test errors) – investigate further*

At this point, the project should compile without errors.

Test:

1. Hit Ctrl-Shift-T and enter "TestAllQuick".
2. When it comes up, hit Run/Run As... Junit Test. All tests should pass.

Experience:

We set up our environment and built as in the documentation above. The project compiled without errors, but encountered three errors out of 1221 tests. Two errors were eliminated by modifying the build instructions as above. The final error comes up in a SSL test and investigation of the responsible code indicates that there is no case where an exception will not be thrown. Code may be modified to pass, but further understanding of the code block's purpose is necessary.

TODO:

- Acquire better understanding of project and code.
- Investigate purpose of package "martus.martus-bc-jce" and determine if exclusion eliminates any required functionality.
- Try to find test cases not covered in existing project test suite .