SN Development

The project structure

Synchronization component for FRMS is located in frms-platform GIT repository. To checkout from Arbonaut GIT server:

```
http://vserver3:9009/scm/git/frms-platform
```

```
build
datamodel
frms-context
frms-report-app
frms-syncclient
frms-test
scripts
```

Components are managed as Maven modules.

FRMS SymmetricDS

SymmetricDS component for FRMS is located in frms-symmetricds GIT repository. To checkout from Arbonaut GIT server:

```
http://vserver3:9009/scm/git/frms-symmetricds
```

```
symmetric-android
symmetric-assemble
symmetric-client
symmetric-client-clib
symmetric-client-clib-assemble
symmetric-client-clib-test
symmetric-client-native
symmetric-core
symmetric-csv
symmetric-db
symmetric-io
symmetric-jdbc
symmetric-parent
symmetric-server
symmetric-util
symmetric-wrapper
```

Build SymmetricDS

To build SymmetricDS and install artifacts to local Maven repository, run the following commands:

```
cd symmetric-assemble
./gradlew build publishToMaven
```

To setup Eclipse development environment run the following commands:

```
cd symmetric-assemble
./gradlew develop
```

Prepare Eclipse IDE development Environment

Configure and build projects

Load the following projects into Eclipse from frms-platform repository:

/frms-platform (parent Maven project)

/frms-platform/frms-syncclient (main FRMS Synchronization project)

FRMS SymmetricDS projects can be added into Eclipse.

Update Maven projects.

Execute Maven goals to prepare development of RA in Eclipse IDE:
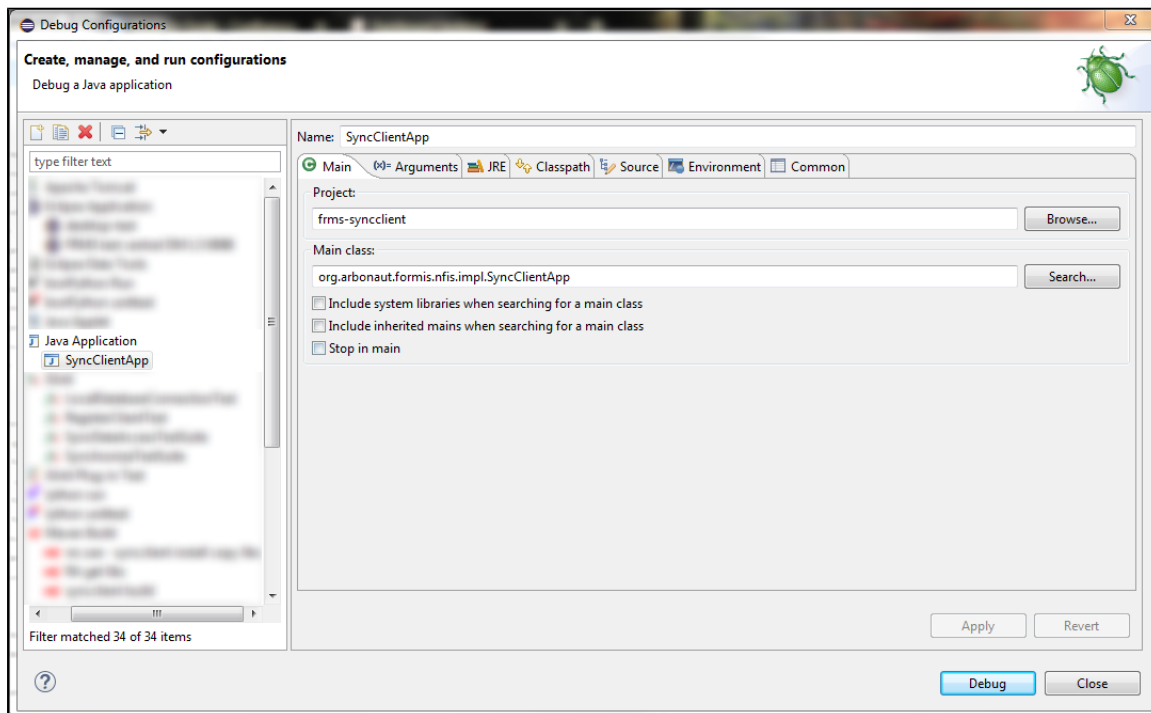
```
frms-platform> mvn --projects frms-context,frms-test --also-make clean install
```

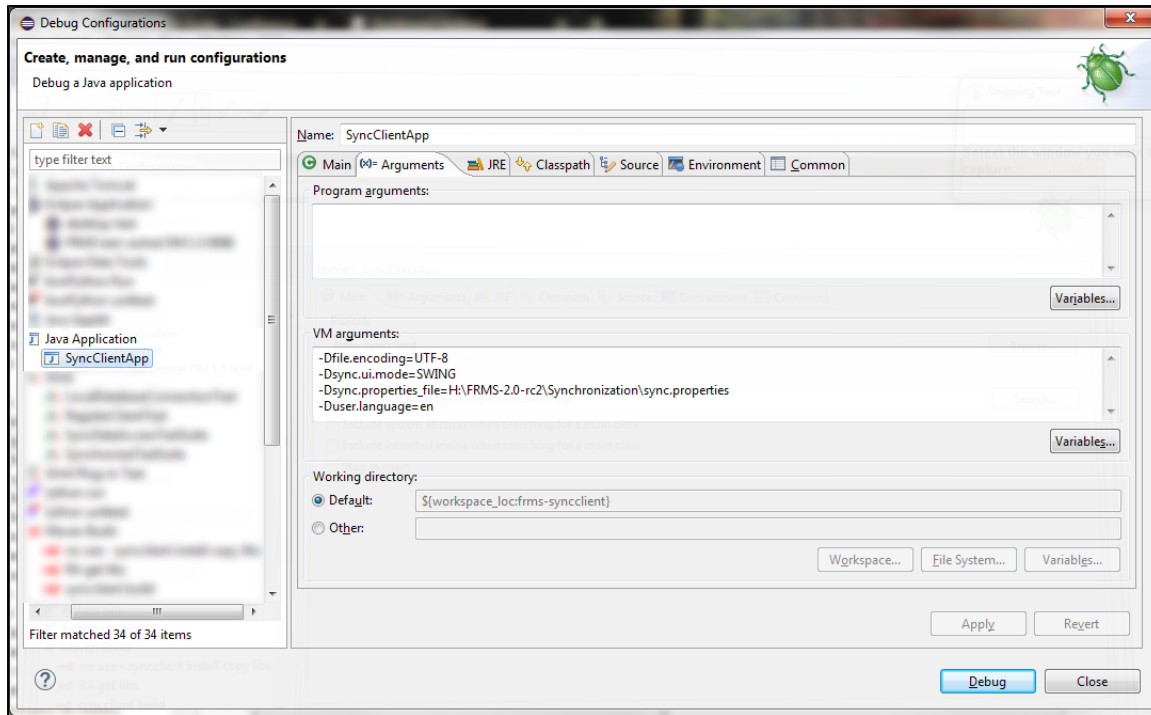Now build **frms-syncclient**

Launch configuration

Create launch configuration as follows:

Main

Arguments

Set argument **-Dsync.properties_file** to point to existing Synchronization configuration file

Run project. Of course, local database must be running :)

Build by Maven

In order to build the FRMS Synchronization component run following Maven commands within a working copy of **frms-platform** repository

```
frms-platform> mvn --projects frms-context,frms-test --also-make clean install
frms-platform> mvn clean install
```

FRMS Synchronization artifact is created in /frms-platform/frms-syncclient/target.

To collect required libraries, run command

frms-platform> mvn package

```
Libraries are copied to /frms-platform/frms-syncclient/target/lib.
```

If profile frms-component-deploy is given to package command, zip packages are created from libraries, startup script and configuration files and deployed to **\\dell-testi\Powerline2\FRMS Vietnam\FRMS-2.0\ClientPackage-Components\SN**. It is usually best ti leave this to CI server.

CI at Jenkins

FRMS SymmetricDS component is configure at Jenkins CI server to be built and installed into local Maven repository.

```
http://vserver3:8090/jenkins/job/FRMS-SymmetricDS/
```

FRMS SymmetricDS component is configure to be built weekly. FRMS Synchronization build will follow.

FRMS Synchronization component is configured at Jenkins CI server to be built and deployed to **\\dell-testi\Powerline2\FRMS Vietnam\FRMS-2.0\ClientPackage-Components\SN**

```
http://vserver3:8090/jenkins/job/FRMS-SN/
```

Nighly building process is configured. Separate packages are created configured for Vietnam test server and Arbonaut internal test server.