Eclipse SES Project Setup Guide

- You need to have Eclipse (http://www.eclipse.org/) and Java JDK 1.5+ (http://java.sun.com/javase/downloads/index.jsp) installed and running
  - set JAVA_HOME variable for your system
- Install „Subversive for Eclipse" (http://www.eclipse.org/subversive/)
  - install everything mandatory
  - don't forget to install the connectors
  - in Eclipse go to Window->Preferences->Team->SVN; choose the „SVN connector" tab on the right and select the „Default SVN Kit"
- Install „M2Eclipse" (http://m2eclipse.sonatype.org/)
  - only Embedder and Integration required
- Install Maven (http://maven.apache.org/)
  - add the path to you maven installation (e.g. ...\maven\bin\) to your system's PATH variable
  - edit your maven settings
    - go to <your_user_OS_settings>\.m2\settings.xml
    - follow these instructions: http://52north.org/maven/project-sites/getting-started.html
  - In Eclipse got to Window->Preferences->Maven->Installations and add the path to your settings.xml on the right in the „User Settings" line
- In Eclipse go to Window->Preferences->Java->Installed JREs and make sure your JDK is the only selected JRE to use
  - you can also adjust this setting per project if you need a different JRE for a different project
- Go to you Eclipse Installation folder and open the eclipse.ini
  - add the following lines BEFORE the line „-vmargs":
    ```
    -vm
    <path-to-your-java-JDK>/bin/javaw.exe
    ```
  - use forward-slashes even with Windows
- Now download the SES source code using subversive
  - switch to SVN repository view
  - add a new SVN location
  - connect to the 52North SWE repository: https://svn.52north.org/svn/swe
    - you just need this path, no authentication needed for read access
  - go to Incubation->SES->ses-1.0->trunk
  - right click on trunk → check out as...
    - use the „new project wizard"
- Install additional jars to your local maven repository
  - go to <your-eclipse-workspace>\<SES-project>\
    - open the folder external-lib\ and execute install_to_local_repo.bat or .sh

- open external-lib\muse-libs\ and execute install_to_local_repo.bat or .sh
- open ses-bindings\bindings\ and execute install_to_local_repo.bat or .sh
- In Eclipse enable the maven dependency management for your SES project
  - right click on your project->Maven->enable dependency management
  - right click on your project->Maven-> enable nested modules
  - you might need also to use ->Maven->update dependencies or to des- and enable the dependency management or the nested modules one or two times to get it running
- Create the compile script
  - right click on you project->run as-> maven install
    - you may skip the execution if it starts directly
  - go to the Run configurations (little arrow besides the green play button in the toolbar)
  - open Maven Build in the tree on the left
  - select the newly created run configuration (e.g. ses install)
  - on the right in the main-tab
    - select the ses-main folder in your SES project as base directory
      - e.g. ${workspace_loc:/ses-1.0}/ses-main
    - as goals use install
    - check only offline and skip tests
  - if you did not set the JDK as Eclipse default JRE go to the tab JRE and set the JDK as JRE
  - save the changes
- compile the SES
  - start the run configuration
  - if the build was successful you can find the .war file at <your-SES-project>\ses-main\target\
    - it is not inside of the war folder
  - please refer to the installation guide on help how to deploy the SES