

Master Thesis: Moving ModelicaML to a Professional Open-Source Project Level

ModelicaML plug-ins and the example can be downloaded from:

<http://openmodelica.org/index.php/developer/tools/134>.

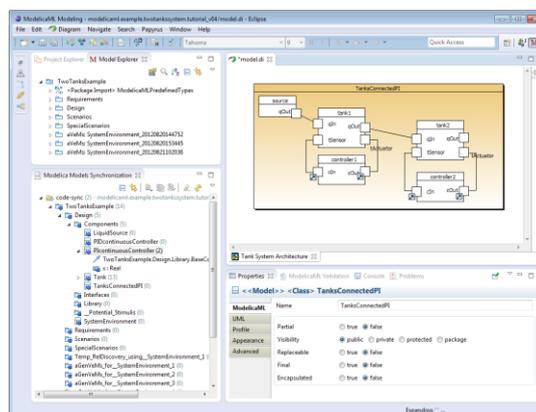
Please follow the installation instructions described in the “ModelicaML: Getting Started” document that is also available form:

<http://openmodelica.org/index.php/developer/tools/134>.

What?

The ModelicaML prototype, which has been developed for the last 4 years, was primarily used as a platform for prototyping new ideas. Today ModelicaML implementation has reached a good level of maturity. The main objective of this project is to move the ModelicaML implementation to a professional open-source project level. The tasks are summarized as follows:

- Analyze the state-of-the-art and best practice in software engineering for larger open-source projects
- Set-up a new or adopt the existing SVN repository structure if necessary
- Implement the **ModelicaML perspective** in Eclipse
- Implement an **Eclipse product for ModelicaML**, including corporate identity (logo and icons will be provided), update sites, etc.
- Set-up the environment for **testing** of new ModelicaML releases
- Set-up the **build system** for multi-platform builds (both: for releases and nightly development builds)
- Adopt the ModelicaML webpage on the OpenModelica website if needed
- Elaborate and document **guidelines for writing the ModelicaML Eclipse help** documentation
- Elaborate and document **process and guidelines for contributing** new functionality to ModelicaML in order to ensure that it is prepared for future contributions
- Ensure the **correct usage of third-party components** according to their license terms
- Prepare the ModelicaML Eclipse product to be shipped with the OpenModelica tools



The target Eclipse version is “Kepler” (will be released in June 2013).

How?

The Master thesis is done at Linköping University, Dept. for Computer Science and Information Science, in cooperation with EADS Innovation Works in Hamburg (Germany).

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The Master thesis work is for **one or two** students.