

Application for a Modelica Association Project

Project name

Modelica Libraries

Project purpose

Development and promotion of open source Modelica libraries to provide Modelica model components in many domains based on standardized interface definitions. The libraries developed in this project include package “Modelica” (also called “Modelica Standard Library”) and package “ModelicaReference”.

License of project results

New releases of Modelica Libraries have to be sent to MA for approval according to §2 of MA Bylaws. The Modelica libraries of this project are published under the Modelica License 2 (or a follow-up version of this license). The license text is available from: <https://www.modelica.org/licenses/ModelicaLicense2>

Project rules

Personal and Organizational Library Officers

For every Modelica library or sublibrary, one or more library officers are assigned that are responsible for the maintenance and for the further organization of the development. Other persons may also contribute, but the final decision for library improvements and/or changes is performed by the responsible library officers. If a library is maintained by several library officers, it is up to them to organize their decision process. In case there is no special agreement, library officers of a library shall perform a decision by voting. A positive vote requires a qualified majority of the respective officers of this library or sublibrary according to § 14 of the Modelica Bylaws.

In order that a library or sublibrary is ready to be released, the responsible library officers have to report the changes to the project members (usually via the release notes). Feedback and improvement suggestions shall be taken into account. The library shall be made available for beta testing to interested parties before a final decision. Modelica libraries of this project shall only use language elements of the published Modelica language specifications. A new release is formally decided by a qualified majority of the project members according to § 14 of the Modelica Bylaws. Electronic voting is possible and is performed according to §14 of the Modelica Bylaws where the term “MA members” is replaced by the term “project members”.

A library officer can be either defined by person, independently from the person’s affiliation or it can be an organizational library officer. In the latter case, the library officer is appointed by his/her organization and the organization can at any time perform a new appointment. An organization can appoint several library officers. A library officer need not be a member of the Modelica Association. Library officers are assigned in one of the following ways:

- (1) When a new library or sublibrary is provided, a copyright transfer contract has to be signed between the contributor(s) and the Modelica Association, or the contributor(s) assigns an appropriate license to the Modelica Association. In this contract the initial library officers might be defined, as well as the head of the library officers.
- (2) New library officers can be assigned by the current ones for the same library/sublibrary, with a qualified majority of the current library officers, and provided no other decision stands against it.
- (3) Initial library officers may be defined (if not defined in a copyright transfer or license contract), library officers may be removed and/or new library officers may be appointed, if library officers resign and/or library officers do not work well for the further development of the library and/or do not work in the interest of this project. All such decisions shall be approved by a project meeting with a

qualified majority.

Project members

Project members are individuals and organizations according to §3 of the MA Bylaws. Every library officer is also a project member. A person applying for project membership must have (a) either actively contributed to this project, usually by contributing code for one of the Modelica libraries, or (b) actively using one of the Modelica libraries and having an interest on further library improvement. Membership is approved at a project meeting with simple majority (according to §14 of the MA Bylaws). Membership resignation from this project applies immediately after written application to the project leader. The project leader is elected for two years at the MA Assembly Meeting where the MA board is elected and with the same rules as for a MA board member. Project meetings are open to the public.

Initial project members

The initial project members are the library officers of package Modelica version 3.2 and of package ModelicaReference and associated packages (organizational library officers are given in parenthesis):

Austrian Institute of Technology (AIT), Vienna, Austria (Christian Kral)
Thomas Bödrich, Dresden, Germany (Dresden University of Technology, Institute of Electromechanical and Electronic Design)
Dassault Systèmes AB, Lund, Sweden (Hans Olsson)
DLR Institute of Robotics and Mechatronics, Oberpfaffenhofen, Germany (Martin Otter)
Rüdiger Franke (ABB)
Fraunhofer Institute for Integrated Circuits, Dresden, Germany (Christoph Clauss)
Anton Haumer, Consultant, St. Andrae-Woerden, Austria.
Modelon AB, Lund, Sweden (Johan Andreasson, Hubertus Tummescheit)
Politecnico di Milano (Francesco Casella)
Dietmar Winkler, Telemark University College, Porsgrunn, Norway
XRG Simulation, Hamburg, Germany (Stefan Wischhusen)

Furthermore, initial project members are Modelica Association members that decide to join this project until May 7, 2012. For this, MA members need to register by sending an email to the MA Chairman (martin.otter at dlr.de).

Initial project leader

Proposal for the initial project leader: Anton Haumer