

# Modelica Association Project Application

## Project name

System Structure and Parameterization of Components for Virtual System Design  
(abbreviated as SSP)

## Project purpose

In many applications there is the need to design, simulate and execute a network of components (simulation models, software, hardware etc.). In order to be able to do this tool independently and seamlessly, the purposes of this project are:

- Define a standardized way to store and apply parameters to these components.
- Define a standardized format for the connection structure for a network of components.
- The developed standard / APIs should be usable in all stages of development process (architecture definition, integration, simulation, test in MiL, SiL, HiL).

The work in this project shall be coordinated with other standards and organizations (FMI, ASAM, OMG).

## License of project results

The specifications are published under the CC-BY-SA (Creative Common Attribution Attribution-ShareAlike 4.0 International) license, i.e., the license used by Wikipedia. A human-readable summary of the license text is available from <http://creativecommons.org/licenses/by-sa/4.0/>

Source code, such as C-header and XML-schema files, that accompany the specification documents are provided under the BSD license (<http://www.opensource.org/licenses/bsd-license.html>) with the extension that modifications must be also provided under the BSD license.

## Project rules

### Project meetings

Project meetings are open to the public. The project members decide which documents of the project progress are published.

The project rules are according to the rules of the Modelica Association Bylaws. In particular:

### Project members

Membership in this project is open to companies, institutes, universities and other organizations, which agree to support the purpose of this project and follow the project rules. There is no individual membership for this project. An organizational member has to appoint an individual person affiliated to the organization to represent the organization in all matters related to this project. This person is the organization's liaison member.

- Every member has one vote.
- Voting is performed by the members according to § 14 of the MA Bylaws but with a quorum of four members.
- An organization applying for project membership must have already actively contributed to this project. This requires usually to have attended at least two project meetings (face to face or online) in the last 12 months.
- Membership is approved at a project meeting with a simple majority of the votes submitted (according to § 14 of the MA Bylaws).
- Membership resignation from this project has to be done in a written form to the project leader and applies immediately.

- The project leader is elected for two years. The election is performed with the same rules as for a MA board member.

### **Project results**

New releases of project results (documents, libraries, code) must be approved by the project members with a qualified majority of the number of votes submitted, according to § 14 of the MA Bylaws. Voting can take place at a project meeting, or it can be performed electronically. Electronic voting is performed according to § 14 of the MA Bylaws where the term “MA members” is replaced by the term “project members” and the regulations regarding “Chairperson” and “Vice-Chairperson” do not apply.

New releases are to be sent to MA for approval according to § 2 of MA Bylaws.

### **Initial project members** (alphabetically ordered)

| <b>Name</b> | <b>First Name</b> | <b>Organization</b>             |
|-------------|-------------------|---------------------------------|
| Belmon      | Lionel            | Global Crown                    |
| Beuter      | Volker            | VI-Grade                        |
| Blochwitz   | Torsten           | ITI GmbH                        |
| Deppe       | Markus            | DSpace                          |
| Dion        | Bernard           | Esterel Technologies            |
| Ellgoth     | Hubert            | Airbus                          |
| Elmqvist    | Hilding           | Dassault                        |
| Friedrich   | Markus            | Simpack                         |
| Fritzson    | Peter             | Open Source Modelica Consortium |
| Heinkel     | Hans-Martin       | Bosch GmbH                      |
| Junghanns   | Andreas           | QTronic                         |
| Köhler      | Jochen            | ZF Friedrichshafen AG           |
| Krasser     | Jürgen            | AVL                             |
| Mai         | Pierre            | PMSF                            |
| Mitrohin    | Corina            | ETAS                            |
| Mühlbauer   | Monika            | Siemens                         |
| Nagasawa    | Mikio             | Cybernet                        |
| Nishimiya   | Kenji             | Honda                           |
| Nöding      | Michael           | TU Braunschweig                 |
| Otter       | Martin            | DLR                             |
| Pfeil       | Markus            | TWT-GmbH                        |
| Schmitke    | Chad              | Maplesoft                       |
| Schneider   | Stefan-Alexander  | BMW                             |
| Smith       | David             | Synopsis                        |
| Sommer      | Torsten           | Modelon GmbH                    |
| Soppa       | Andreas           | Volkswagen                      |
| Tummescheit | Hubertus          | Modelon AB                      |

### **Initial project leader**

Jochen Köhler (ZF)