

Exporting to External Simulation Models

OMG SysPhS standard implementation

A new [OMG SysPhS specification](#) (SysML Extension for Physical Interaction and Signal Flow Simulation) defines SysML elements mapping into Modelica and Simulink (incl. Stateflow, Simscape) models.

It is implemented as one-way transformation of selected SysML blocks and supports both black-box or/and full implementation which includes parametrics, state machines, internal structures with ports, interfaces and connectors.

Pure non-annotated SysML models can be exported, using SysPhS profile or libraries is not required for basic cases as blackbox structures.

Exported models and diagrams are ready to be opened in Simulink or Modelica tools for further implementation refinements, debugging, simulation and code generation.

Related pages

- [Simulink export](#)
- [Exporting Humidifier example to Simulink model](#)
- [Modelica export](#)