

OPTIMICA STUDIO™

FOR PHYSICAL MODELING AND SYSTEMS DESIGN



► SCOPE

- Modeling and simulation of physical systems
- Systems design
- Creation of Functional Mock-up Interface compliant models

► KEY FEATURES

- Object-oriented, equation-based modeling with Modelica
- Intelligent Modelica editor
- Graphical editing of Modelica models
- Python scripting

► BENEFITS

- Rapid development of physical models
- Flexible integration with several simulation tools

OPTIMICA Studio™ offers modeling and simulation of Modelica models, and export of compiled dynamic models compliant with the Functional Mock-up Interface standard. This makes OPTIMICA Studio™ the ideal companion of the large and growing family of tools supporting import of FMI models.

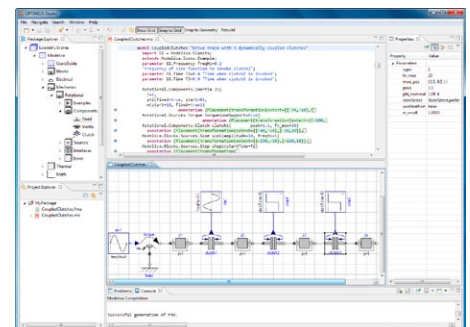
OPTIMICA Studio™ offers an intelligent Modelica code editor supporting syntax highlighting and browsing of model libraries. Using the graphical editor, physical models in a wide range of domains, including mechanical and electrical, can be quickly developed.

OPTIMICA Studio™ features scripting based on the powerful Python language, making it easy to automate model compilation, simulation, post processing and visualization. Python is also suitable

for rapid development of sophisticated computation applications based on FMI and Modelica.

OPTIMICA Studio™ is the perfect companion for engineers that need to develop simulation models of physical components, and can be used both as a stand-alone tool, or for integration with FMI compliant tools, including Isight, LabVIEW, MATLAB®/Simulink®, Python, Silver, SIMPACK and TestWeaver.

Combine OPTIMICA Studio™ with the the FMI Toolbox for MATLAB® by Modelon to get a complete tool chain adding Modelica and FMI compliance to the MATLAB®/Simulink environment.



MODELICA



The Modelica language is designed specifically with demanding modeling applications in mind. Modelica features object-oriented equation-based modeling and simplifies the task of building heterogeneous models containing sub-systems from different domains, such as electronics, thermodynamics, and control systems.

www.modelica.org

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Modelon