

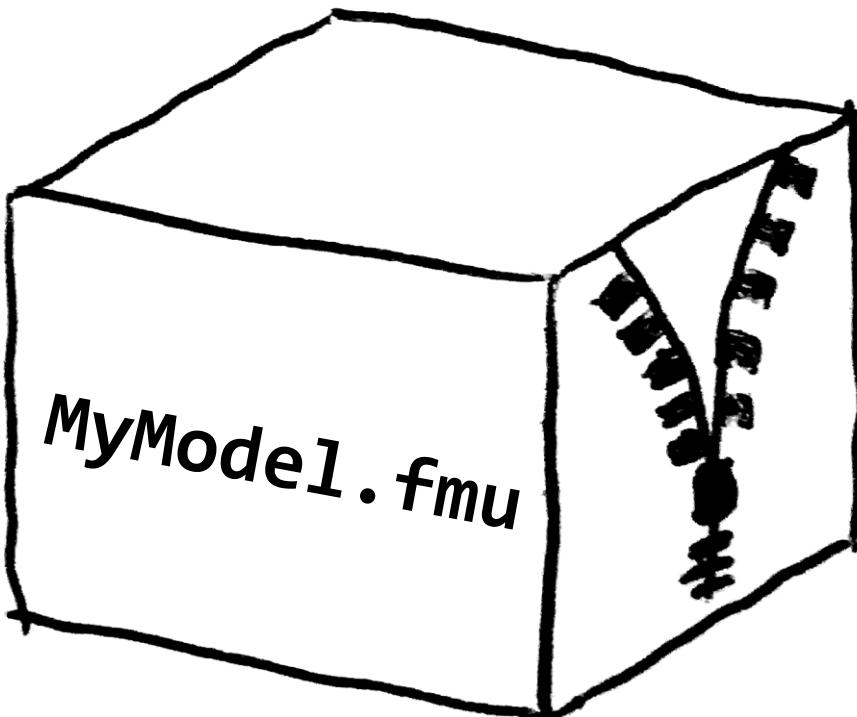
# fmi\_adapter

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<http://fmi-standard.org/>

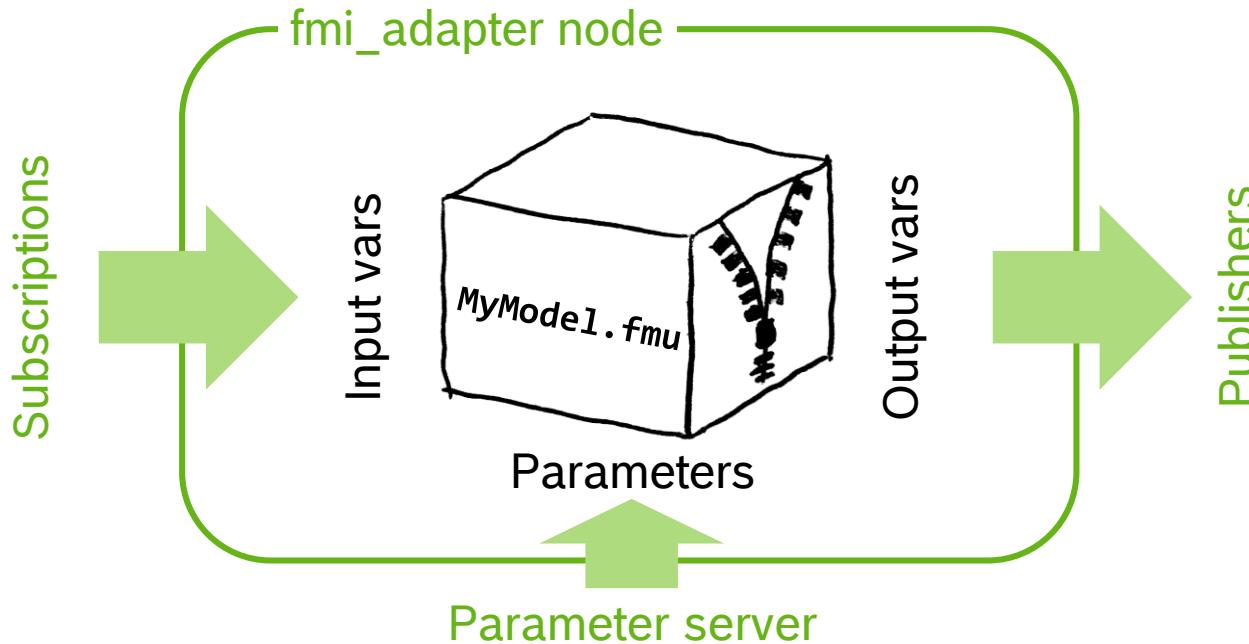
D-sim 4C · @Source · Adams · AGX Dynamics · AMESim · ANSYS DesignXplorer · ANSYS SCADE Displa  
CADE Suite · ANSYS Simplorer · AUTOSAR Builder · AVL CRUISE · AVL CRUISE M · AVL Model.CONNECT  
B&R Automation Studio · BEAST · Building Controls Virtual Test Bed · Cameo Simulation Toolkit (MagicDraw)  
ANoe · CarMaker · CarSim · CATIA · ControlBuild · Coral · CosiMate · CPPFMU · Cybernetica CENIT · Cy  
DACCOSIM · DAE Tools · DAFUL · DS - FMU Export from Simulink · DS - FMU Import into Simulink · DS-  
SCALEXIO · dSPACE SYNECT · dSPACE TargetLink · dSPACE VEOS · Dymola · DYNA4 · Easy5 · Ecosim  
· EnergyPlus · ETAS - ASCMO · ETAS - FMI-based Integration and Simulation Platform · ETAS - FMU Ge  
· ETAS - FMU Generator for Simulink® · ETAS - INCA-FLOW (MiL/SiL Connector) · ETAS - ISOLAR-EVE  
U) · ETAS - LABCAR-OPERATOR · Flowmaster · FMI Add-in for Excel · FMI add-on for NI VeriStand · FM  
set for Simulink · FMI Composer · FMI Library · FMI Target for Simulink Coder · FMI Toolbox for MATLAB/S  
· FMI4j · FMPy · FMU-proxy · FMUSDK · General Energy Systems (GES) · GT-SUITE · Hopsan · IBM Rati  
· ICOS Independent Co-Simulation · IGNITE · INTO-CPS Co-simulation Orchestration Engine (COE) · Jav  
odelica.org · LMS Virtual.Lab Motion · MapleSim · MESSINA · MoBA Lab · Morphee · MpCCI CouplingEnvi  
· NI LabVIEW · OpenModelica · OPTIMICA Compiler Toolkit · optiSLang · Overture · PROOSIS · Ptolemy I  
itor · RecurDyn · Scilab/Xcos FMU wrapper · Silver · SIMPACK · Simulation Workbench (SimWB) · Simulat  
ing Activate · Squish GUI Tester · SystemModeler · TLK FMI Suite · TLK TISC Suite · TRNSYS FMU Expo  
Simulation Framework · TWT FMU Trust Centre · VALDYN · Virtual Engine · WAVE-RT · XFlow · xMOD



# Shared library

- Equations
- Solver

modelDescription.xml  
(C sources)



```
$ rosrun fmi_adapter node fmu_path_:=MyModel.fmu
```

```
FMIAdapter adapter("MyModel.fmu");

vector<string> names =
    adapter.getParameterNames();

adapter.setInputValue("phi", 4.5);
adapter.doStepsUntil(ros::Time::now());
double y = adapter.getOutputValue("y");
```

## class fmi\_adater::FMIAdapter

# [wiki.ros.org/fmi\\_adapter](https://wiki.ros.org/fmi_adapter)

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# [github.com/boschresearch/fmi\\_adapter](https://github.com/boschresearch/fmi_adapter)