Overview on FMI, SSP, DCP

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13th International Modelica Conference, Regensburg, 2019, March 4th



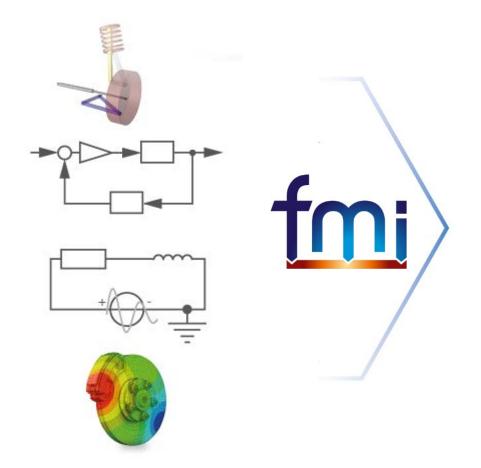




FMI: Functional Mock-up Interface

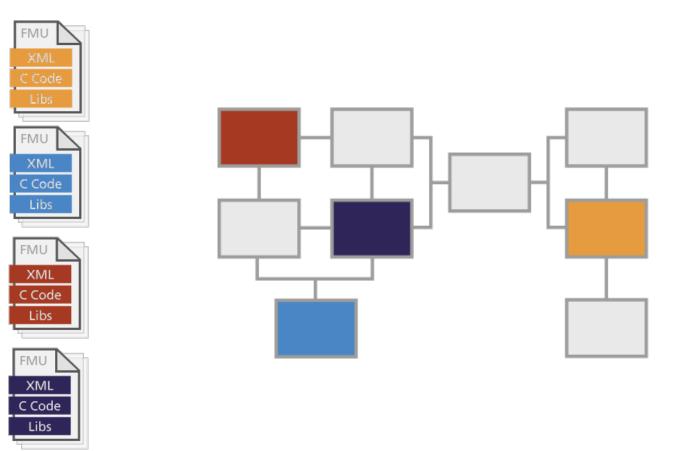


 Semantics, API and XML format for exchange of simulation models and co-simulation



SSP: System Structure and Parametrization

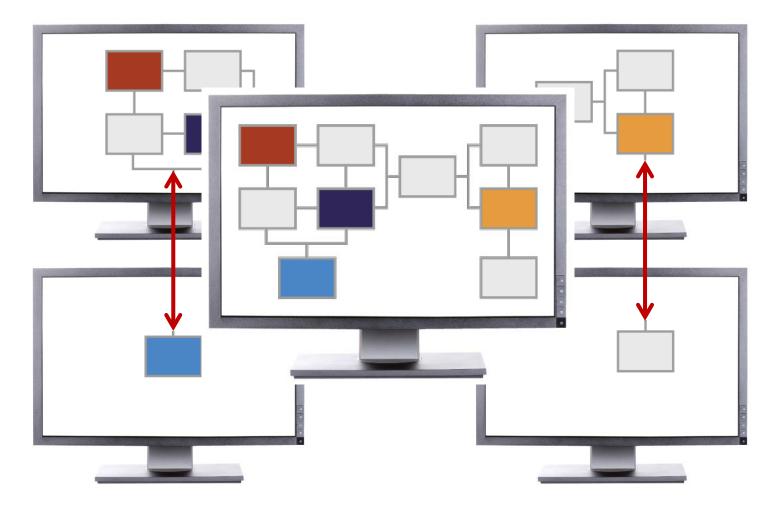
- MODELICA
- File format and XML schemas for description of architectures and sets of parameters



DCP: Distributed Co-Simulation Protocol



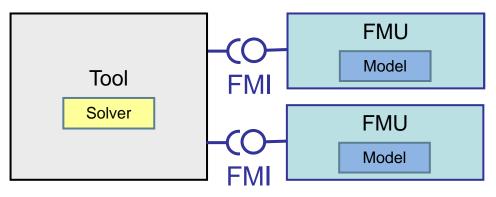
Semantics, protocol and XML schema for network based co-simulation



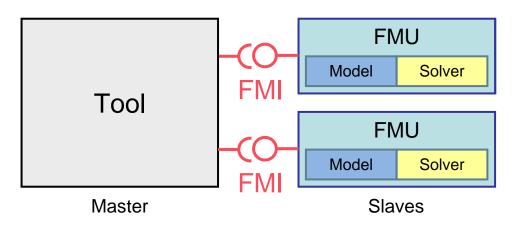
FMI



FMI for Model Exchange



FMI for Co-Simulation



FMI - Status



Available:

- FMI 1.0 and 2.0 released (2010 and 2014 respectively)
- FMI 1.0.1 as maintenance release available

Next Maintenance Releases:

- No new features, but corrections and clarifications
- FMI 2.0.1: in development

Next Full Releases:

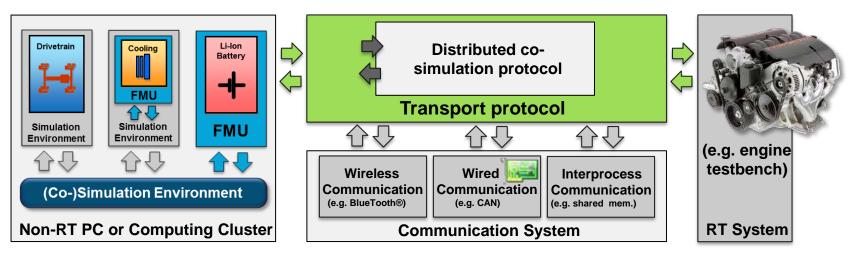
- 6 FMI Working Groups develop new features for 3.0
- Alpha Features List was published in December 2017
- Next FMI design meeting here in a few days

DCP

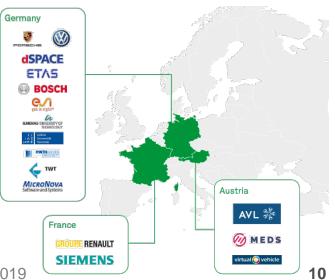
The Distributed Co-Simulation Protocol (DCP)

MODELI

What is it?



- Who developed it?
 - Main result of European ITEA3 research project ACOSAR
 - Strong automotive consortium



What is the current status?

The Distributed Co-Simulation Protocol (DCP)

- Granted MAP DCP in July 2018
- Released TODAY
 - DCP specification document version 1.0
 - Reference implementation, schema files,...)
- What are our plans?
 - Collect feedback
 - Align with other MAPs
- Contact
 - Website: www.dcp-standard.org
 - Mailing list available
 - Join my paper talk on Tue 11:50h!
 - MAP DCP Leader <u>martin.krammer@v2c2.at</u>



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