

PragmaDev Studio V5.3 offers Cyber Physical System modeling capabilities with FMI support.

Paris - France - Feb. 7th, 2018 - *PragmaDev Studio* is a recognized modeling tool to describe complex communicating systems. Cyber Physical Systems combine event driven and clock driven elements, critical parts and non critical parts. For that purpose PragmaDev Studio V5.3 introduces the support of Functional Mockup Interface FMI V2.0.

"Event driven approach and clock based approach are fundamentally different. I often came across project leaders that had a tough trade-off to make between these approaches and none of the solution was fully satisfactory. Now if the models can be easily connected and simulated the user can have the best of both of worlds. That is what we have done with the support of FMI2.0." says Emmanuel Gaudin, PragmaDev Founder & CEO.

Among the main new features are:

- **FMI V2.0**
The tool imports a Functional Mockup Unit (FMU) and analyzes its inputs and outputs. A mapping between the SDL model and the FMU is then defined through a specific interface. Both co-simulation and model exchange modes are supported. PragmaDev Studio acts as a "master" / "importing" tool. The tool distribution contains an example with an OpenModelica FMU and an example with a Scade Suite FMU.
- **Support of requirements table in Reqtify integration**
On one hand PragmaDev Studio could import requirements files in csv format and keep links between the textual requirements, the model, and the test. On the other hand PragmaDev Studio had an integration with Reqtify traceability tool. Tracing information in the model could be read by Reqtify. PragmaDev Studio and Reqtify integration goes one step further and makes the link between PragmaDev requirements table and Reqtify.
- **New type declaration wizard**
As it is not always easy to remember how to declare a new type, PragmaDev Studio V5.3 introduces a declaration wizard. A right click in the declaration symbol drops a menu with all the possible type declarations.
- **Statement wizard**
As for a new type declaration, a wizard for textual statements helps users to model their system. A template statement is then inserted making model design quick and easy.
- **New gauge widget for the gui**
A gauge widget has been introduced in the prototyping gui. It is a very nice and realistic way of displaying a value between 0 and 100. And this is very useful when co-simulating a clock based model through the FMI interface.

- **Improved built in library**
PragmaDev Studio comes with a built in library called PragmaLib. That library extends SDL, the PragmaDev Specifier modeling language, to allow to manipulate files and create graphs. V5.3 now adds the support of an sprintf equivalent function to format the output in a file.
- **Generation of tables in OpenOffice documents**
Documents in PragmaDev Studio can contain tables that are described in the tool. V5.3 can export these tables in OpenOffice as well as in Word or HTML.

About PragmaDev

PragmaDev is a privately held company based in Paris France that provides since 2001 a set of model driven tools dedicated to the development and test of communicating systems: PragmaDev customers include Airbus, Nokia, Renault, the French Army, Wipro, ST-Microelectronics, Korean Telecom, the European Space Agency, Toshiba, and LG Electronics.

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