

Update: The paper titled " [DEVSMML 2.0: The Language and the Stack](#) " was presented at DEVS Symposium, Spring Simulation Multiconference 2012 at Orlando, FL and the latest version of DEVSMML 2.0 is [here](#) .

DEVSMML is an acronym for DEVS Modeling Language. This work is built on the JAVAMML research done by Vladimir for DEVSMML. It was pursued independently by Jose Luis Martin that resulted in DEVSMML with small behavioral support. The present work aims to integrate these two approaches and provide complete behavioral support to DEVSMML by implementing the proposed universal Atomic and Coupled DEVS schemas at Dunip. We look forward towards standardization of these schemas with DEVS Standardization committee so that models across the web can participate in Dynamic Modeling & Simulation over Net-centric web services.

DEVSMML is a novel way of writing DEVS models in XML language. This DEVSMML is built on JAVAMML, which is infact, XML implementation of JAVA. The current development effort of DEVSMML takes its power from the underlying JAVAMML(earlier work by Vladimir) that is needed to specify the behavior of atomic models. We now have the capability to write DEVS models in DEVSMML, both atomic and coupled through the developed DTDs. The DEVSMML models are tranformable back'n forth to java and to DEVSMML. It is an attempt to provide interoperability between various models and create dynamic scenarios. The key concept is shown in the figure below:

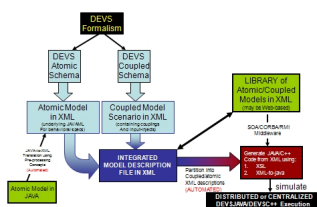


Figure 1: Basic concept with respect to Automation of DEVS models using DEVSMML

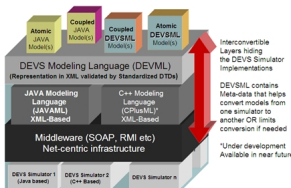


Figure 2: DEVS Transparency & Net-centric Model Interoperability using DEVSMML Layered Architecture



DEVS Integrative M&S Symposium DEVS' 07, Spring Simulation Multi-Conference, March 2007

- C.4: Saurabh Mittal, Amit Mitra, Amar Gupta, Bernard P. Zeigler, [Strengthening OV-6a Semantics with Rule-Based Meta-models in DEVS/DoDAF Based Life-cycle Architecture Development](#)

IEEE-Information Reuse and Integration (IRI06) Conference, Special section on DoDAF, Hawaii September 2006

- C.3: Bernard P. Zeigler, Saurabh Mittal, [Enhancing DoDAF with a DEVS-based System Lifecycle Development Process](#), In Proceedings of IEEE International Conference on Systems, Man and Cybernetics, SMC05, Hawaii 2005