Mathematical Formalism Domain Special Interest Group Charter

February 2, 2009

Sumeet Malhotra (Unisys) moves to charter the Mathematical Formalism Domain Special Interest Group. J.D. Baker (BAE SYSTEMS) seconds the motion. Andrew Watson says that the DTC is now discussing the motion to charter the SIG on the domain side with the current charter. Discussion revolves around the current charter and the discrepancy to what is said here at the meeting. Doug Tolbert asks what economic standards work the OMG has brought out that gives the proposed SIG something to work with. The current work on the "GRID" is mentioned as an example. Jishnu Mukerji says that the current charter contains too much "fluff". The charter needs to be more concrete. Jishnu Mukerji (Hewlett-Packard) proposes the following addition to the first bullet point to clarify what the group wants to work on as a friendly amendment:

- Describing mathematical formalisms, primarily for any Model Based standards and frameworks that have been brought out in the OMG by economists e.g. compliance models for Basel II brought out in the OMG GRID

Sumeet Malhotra (Unisys) accepts the amendment as friendly. Andrew Watson asks for a vote by hand from the contributing and domain members present at the meeting: In favor of the amended motion: 15, Opposed: 1 and Abstentions: 5. The amended motion to charter the Mathematical Formalism Domain Special Interest Group passes.

The goal of this special interest group is to work collaboratively with existing OMG sub-group members on:

- Describing mathematical formalisms, primarily for any Model Based standards and frameworks that have been brought out in the OMG by economists e.g. compliance models for Basel II brought out in the OMG GRID
- Reducing the complexity of system design by simplifying the complexity of model transforms using mathematical formalisms that will enable systems architects to more easily compose higher level model transforms from other more granular model transforms
- Potentially describing specific sections and types of source or target model semantics using mathematical formalisms in order to understand any conceptual gaps between models and model transformations.

- The Mathematical Formalism SIG will provide an integrating function across the OMG for various activities and interests in the use of mathematical formalisms. These activities and groups today tend to be isolated or fragmented.
- While this SIG relates to ongoing work at the OMG, it is the vision of the SIG to affect future standards and frameworks, bringing to them greater precision, clarity, and traceability, and bringing to the OMG itself a better capability to assess conformance to OMG standards.
- The initial scope of this SIG will be focused solely on the mathematical basis for model transforms and any necessary mathematical formalism for the semantics of the transform source and target models in order to facilitate a mathematical definition of model transforms. It is **not** within the scope of this working group to define a mathematical basis for comprehensively addressing all semantic properties of models in general.