

Foundations AB SIG

- **Highlights from this Meeting:**

- Group met on Monday, 19 September 2022, this was the first meeting of this SIG
- Manfred Koethe explained the role of SIGs, and in particular AB SIGs
- Presentation about the MOF family of specification, their abilities and limitations, and why KerML is a good candidate for a future foundation for interoperable specification (by Manfred Koethe)
- Initial foundation requirements and meeting planning discussion
- Announcement that election of “real” co-chairs is necessary
- (Manfred Koethe, Sean McCormick and Jim Logan are interim co-chairs)

Scope: As many of the OMG specifications share fundamental concepts (e.g. models and ontologies), as expressed in common descriptions, definitions, and syntax (collectively ‘common technologies’), and as there is a stated goal of interoperability within the OMG specification ecosystem at multiple levels, the following goals will be within the scope of the Foundations AB SIG.

Examples of current ‘common technologies’ within the OMG specification ecosystem include, but are not limited to: XMI, MOF, OWL, RDF, UML Profiles, SysML, IDL, and potentially KerML.

- To undertake analysis of common technologies used within the OMG specification ecosystem and catalog;
- To identify gaps of capability and possible barriers with regards to harmonization, interoperability, modularity, and reusability and advise on potential solutions;
- To consider common technologies in the pursuit of harmonization, interoperability, modularity, and reusability of specification definitions;

Foundation Requirements

A powerful common modeling infrastructure, which:

- is based on ONE basic metamodel
- Provides mathematically/ontological grounded core semantics
- Supports modeling in time and space (4D)
- Is easily extensible through metadata annotations and model libraries
- Provides a rich set of fundamental modeling constructs and expressions
- Provides rich model libraries of fundamental capabilities as building blocks of “higher abstraction” to be used intensively in user models

- **Deliverables from this Meeting:**
 - none
- **Future Deliverables (In-Process):**
 - Foundations Roadmap
- **Liaisons**
 - TBD
- **Agenda Items for the Next Meeting:**
 - Roadmap Discussion
 - Co-Chair Election