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# 04/21/2015 – Initial Meeting

## Attendees

1. Sandy Friedenthal
2. Chas Galey
3. Rick Steiner
4. John Watson

## Meeting Agenda Topics

Discuss “getting started” topics like goals, approach and meeting times.

## Meeting Notes

1. Set up Meeting Times
   1. Meet weekly Tuesday 11 AM to 12 ET, immediately following the Roadmap meeting
   2. **Action** – John will send out meeting notice, we will use Yves’s call-in number and virtual meeting link
   3. The meetings will be scheduled to reoccur weekly for 3 months
2. Group Names
   1. There are two distinct subgroups to develop the Systems Engineering Concept Model (SECM), one associated with the development of the Kernel model and one associated with developing the Domain model
   2. The name of this subgroup will be the “Systems Engineering Concept Model – Domain” or “SECM – Domain”
   3. The other subgroup will be referred to as the “Systems Engineering Concept Model – Kernel” or “SECM – Kernel”
   4. **Action** – Chas will create a diagram (figure) showing the SECM with the Kernel and Domain components.
3. The goals of the SECM-Domain
   1. A goal of this subgroup will be to capture the Systems Engineering Domain concepts
      1. With each of the concepts capture its name, definition and relationships with other concepts. Names may include aliases. In addition, there may be constraints and properties associated with each concept.
      2. This concepts will be captured in a MOF like model that can include metaclasses, meta-attributes, meta-associations, specializations, dependencies, model organization constructs, and comments.
      3. Other metadata for each term should include aliases to these terms used in various methodologies.
   2. The ultimate goal will be to use this contents of the SECM-Domain model to extract requirements for the SysML v2 RFP in a similar way that was done in section 6.5 and Appendix A2 of the original UML for SE RFP for the new SysML RFP.
4. Sources for SE vernacular
   1. As a starting point we will use the set of terms and definitions established in the original “UML for Systems Engineering RFP” that served as the initial requirements for the development of SysML v1.0. This will help us to maintain traceability back to the original requirements.
      1. A partial set of terms and their dependencies are in the RFP in the appendix A-2.
      2. This set of terms were used to establish the vernacular for the RFP document and were used extensively in section 6.5 of the RFP, Mandatory Requirements.
   2. Starting with this set of terms and their definitions, the team will modify, delete, and update concepts and document the rationale.
   3. Other sources will be used to refine and cross check against existing definitions and to draw new SE terms. Some of these sources include:
      1. The original Systems Engineering Conceptual Model
      2. The SE Workflow Use Case Model
      3. Others not mentioned at the meeting but we should discuss include the INCOSE SE Handbook and SEBoK
   4. The organization of terms
      1. The model will differentiate the concepts as core and elaborated.
      2. The core will contain basic SE terminology
      3. The elaborated will contain terminology associated with additional detail that may be used to help elaborate the core concept.
      4. For example, the core may contain the term “risk” and the elaborated may include concepts for probability of occurrence and potential impact.
      5. Some core concepts such as hazard may be included to provide a stub for further elaboration of specialty domain concepts
      6. It is anticipated the core concepts will be used as key requirements in the SysML v2 RFP.
      7. Rick suggested establishing a criteria for selecting terms to be identified as core or elaborated.
5. Roadmap Wiki Updates
   1. From the System Modeling Assessment and Roadmap wiki there is an existing link to another page called [Systems Engineering Concept Model Workgroup](http://www.omgwiki.org/OMGSysML/doku.php?id=sysml-roadmap:systems_engineering_concept_model_workgroup).
   2. On this wiki page create two sections, one called the “System Engineering Concept Model – Domain” and the other “System Engineering Concept Model – Kernel”.
   3. **Action** – Rick will do this wiki update
6. Issue tracking.
   1. The issues will be tracked.
   2. **Action**- Chas to coordinate setting up a JIRA project for the SECM

# 04/28/2015 Meeting

## Attendees

1. Yves Bernard
2. Sandy Friedenthal
3. Chas Galey
4. John Watson

## Meeting Agenda Topics

1. Need a virtual meeting and dial-up resource for May while Yves is away.
   1. May 5th can still be supported by Yves
   2. Yves will be away from May 7th until the May 28th
   3. We need to identify a resource for the meeting dates May of the 12th, 19th, and the 26th.
   4. **Action** – Chas will look into using a JPL meeting and dial-up resources to cover those meeting dates. Chas will forward the information to John.
   5. **Action** – John will update the meeting invitation to contain the new resource.
2. How will we capture this model, what language tool and focus responsibility –
   1. Use Magic Draw and produce HTML, also export from Magic Draw for use by Yves
   2. Yves - Use a minimal set of UML metaclasses to minimize the possibility of polluting the new model with some UML concepts. The initial selection will include:
      1. Class, attribute, association, specialization, constraint, comment, dependency
      2. Other metaclasses may be added as needed.
   3. Chas will be the principle modeler.
   4. We will try sharing the model using a publicly available GitHub resource.
   5. **Action** - Chas will take action to set up a public GitHub. Thanks again Chas.
3. Review actions in previous meeting notes
   1. Reviewed and all action from last week have been completed and closed.
4. Discuss other potential sources for SE terminology –
   1. Future Considerations – Start with the original RFP concepts and systematically integrate concepts from other reference material like 15288, SE Handbook, SEBoK.
   2. **Action** - Sandy will attempt to contact Julian Johnson to obtain a set of SE terms and definitions from different standards that he assembled for the original SE Concept model
   3. We need to ensure we integrate concepts that may be newer to SE that may have not be included in some of the reference material, like Variants.
5. Review wiki contents and organization
   1. Discussed the content
   2. **Action** – John will take a first attempt at refining the content and then ask others to take a look.
   3. **Action** - Chas will also take a pass after Joh is done.
6. Sandy suggested that next week we try working through an example of evaluating concepts by:
   1. Selecting a requirement in section 6.5 of the original RFP.
   2. Select at least one of the concepts referenced in the requirement
   3. Examine the same concepts in other sources, e.g. the original concept model, and test the definition, relationships, properties, etc.
   4. Make adjustments in the new concept model as necessary

# 05/05/2015Meeting

## Attendees

1. Yves Bernard
2. Sandy Friedenthal
3. Chas Galey
4. Rick Steiner
5. John Watson

## Meeting Agenda Topics

1. Review action items from last week.
2. Review the Wiki changes
3. Working through an example of evaluating concepts in the new concept model

## Meeting Notes

# XX/XX/2015Meeting Notes Template

## Attendees

1. Yves Bernard
2. Sandy Friedenthal
3. Chas Galey
4. Rick Steiner
5. John Watson

## Meeting Agenda Topics

1. Review Action Items from previous meeting

## Meeting Notes