

## William Schindel

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**From:** st4se-project@googlegroups.com on behalf of William Schindel <schindel@icctt.com>  
**Sent:** Tuesday, August 24, 2021 4:58 PM  
**To:** st4se-project@googlegroups.com  
**Subject:** Minutes of ST4SE Project Team meeting of 08.24.2021  
**Attachments:** ST4SE Technical Report 2021 Project V1.2.1.pdf

Meeting notes from Aug 24, 2021, meeting of ST4SE Project Team, 3-4 PM EST  
Attendees: Blackburn, Cureton, de Koning, Jenkins, Lewis, Schindel

1. Mark B. pointed out a helpful overview presentation of Release 5 of the Open MBEE Model Management System Architecture, bringing a lot together:  
<https://openmbec.atlassian.net/wiki/spaces/OPENMBEE/pages/320765953/MMS+5+Architecture>  
from Blake Regalia, via Chris Delp, both JPL.
2. There was a good, if brief, discussion started by Mark, then others, of how models can inform early stage feasibility judgements against plausible mission requirements, versus later stage coupling of concurrent work by different allocated groups if they keep their subsystem “in their envelopes”. In this meeting, the discussion was in the spirit of establishing “provability” trace structures that a system should meet objectives. Also connected to model based heuristics.
3. Bill S. walked through the four inter-related publication writing projects occurring in the INCOSE MBSE Patterns WG, one of which is our ST4SE Project:
  - a. See attached; how our project is related to the other three publications in the attached.
  - b. Our project is viewed by INCOSE as piloting how to “publish” models/data structures, not just historical prose publications.
  - c. Quick skim of the content of some other INCOSE working groups’ “Primers”.
  - d. Turning next to creating outline for our report, good discussion by all, touching on:
    - i. Primers as starting points, including conceptual framework / terminology, where to go to learn more, who to ask, etc.
    - ii. What problem(s) does this solve? Value statement(s).
    - iii. Terse as possible theory for those who need it and can absorb/appreciate it.
    - iv. Since trust will be a central issue, some guidance on how trust is best rewarded/withheld.
    - v. Trusting reasoners; trusting the patterns they reason about; (notice this is also user asking reasoner if a candidate model can be trusted!)
    - vi. Strong connections to ASELCM Pattern, as to group learning, trust, discovery vs. application, adoption, roadmap, etc.
    - vii. Different roles and populations of readers/users.
    - viii. How small / large is the necessary population of theoretically informed versus the larger groups that extend trust through them.
    - ix. Roadmaps of how to get from the simple example to fuller exercise, test, deployment. Guidance on how to scale up. Readiness?
    - x. Experiments and updates with the document itself.
    - xi. Importance of focusing on strong content, not just coddling readers, even if we also aim to adapt if needed.

- xii. Getting feedback as we proceed.
- xiii. High experience value of this group in considering how to make this material most impactful, from your past experience.
- e. Next step: Subject outline. Bill will provide a straw man sectional outline suggestion for review, from the above input advice.
- f. Happy to have writers as well as reviewers in this as well as the other 3 writings if they are of interest.
  - i. It might be that several of this group will want to write parts of this project report, but also that this group is a natural reviewer of the other 3 documents, too.

4. Post meeting: Hans-Peter reminded need for the WG references web site link: <https://www.omgwiki.org/MBSE/doku.php?id=mbse:patterns:patterns>

Great engagement, much appreciated.

Bill

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