

Interface Patterns Project

Meeting Minutes

Date/Time: Thursday, March 08, 2018, 2:00 – 4:00 PM EST

Attendees:

X	Bill Schindel	ICTT System Sciences	schindel@ictt.com	812.232.2062
X	Frank Salvatore	Engility Corp.	frank.salvatore@engilitycorp.com	973.607.2068
X	Jon Torok	NSWC Crane	torokrj@gmail.com	812.854.5247
X	Jason Sherey	ICTT System Sciences	sherey@ictt.com	812.232.5968
X	Stephen Lewis	ICTT System Sciences	lewis@ictt.com	812.231.7930

Summary of This Meeting:

Meeting materials: http://www.omgwiki.org/MBSE/doku.php?id=mbse:patterns:meeting_03.08.2018

Work Stream 1 (Interface aspects of S*Metamodel):

1. We reviewed the slides from the IW2018 Patterns Working Group session on this, focusing on the System of Access (SOA) elements of the Interface metamodel.
2. The team members reconfirmed that they felt okay about the SOA principles that have been identified (internal versus intermediate SOA components, and combined SOA).

Work Stream 2 (Library of Interface Patterns):

3. We reviewed the (spreadsheet) “skeletons” of the proposed list of initial priority Interface Patterns (e.g., mechanical mounting, electrical power, etc.).
4. Interest was expressed in including RF Power transmission at an interface.
5. We discussed the need to determine who will work on each interface type’s pattern. Jon reported he wanted to work on the Mechanical Interface and Power Interface, as well as Messaging.

Work Stream 3 (Interface-Oriented Queries and Views):

6. We discussed interest, at least for the Data Interface, in views showing various (e.g., OSI) layers of the related interface protocol stack.
7. Frank reminded us that ICD views (or an ICD document view) were still wanted. (Frank had previously provided an ICD template example.)

Work Stream 4 (Identify interface-oriented tasks in system life cycle processes):

8. Jon discussed having identified the evolutionary content of an interface during its development, which he termed as functional, logical, and physical stages.
9. ISO15288 was discussed as a point of reference for system life cycle uses of Interface models.
10. Jon reported that he was starting up a project for Interface Control Model (ICM) based management of interfaces and contractors.

Work Stream 5 (Pattern Governance):

11. (Future subject)

Work Stream 6 (Tool specific items not specific to interfaces):

12. Jon suggested not imposing a profile or profiles on contractors, who prefer to use their own.
13. Everyone needs to try to get on Teamwork Cloud.

Next meeting will be on Thursday, May 24, 2:00 PM EST.

Additional Details:

Action Items:

Reference Materials:

Specific meeting materials from meeting web site:

1. [agenda.pdf](#)
2. [interface_patterns_project_slides_at_incose_iw2018_mtg_jan_2018.pdf](#)
3. [target_interface_patterns -- overview v1.5.1.xlsx](#)
4. [mechanical_bracket_and_interfaces.pdf](#)
5. [interface_pattern_support_from_s-mtm_v1.2.6.xlsx](#)
6. [systematica_4.0_glossary_v4.3.1.pdf](#)

General reference materials from the project web site:

7. Project web site:
http://www.omgwiki.org/MBSE/doku.php?id=mbse:patterns:interface_patterns_team
Pages easily added under that location. Files can be inserted there when appropriate (see same)
8. Interface Patterns Project Charter, INCOSE Patterns Working Group, V1.3.2
9. Abbreviated S*Metamodel Glossary, V4.3.1, ICTT System Sciences, 2017.
10. Extract from S*Metamodel: Interface Related Elements, 03.07.2017, V1.2.6, ICTT
11. Shames, Sarrel, Friedenthal, "A Representative Application of a Layered Interface Modeling Pattern", Proc. of INCOSE International Symposium 2016, Edinburgh, UK; paper + slides:
http://www.omgsysml.org/A_modeling_pattern_for_layered_system_interfaces-INCOSE%20IS15_paper-sarrel-shames.pdf
http://www.omgwiki.org/OMGSysML/lib/exe/fetch.php?media=sysml-roadmap:a_representative_application_of_a_layered_interface_modeling_2016-07-11.pptx
12. Shames, Sarrel, Friedenthal, "Modeling Systems of Systems Interfaces with SysML", AIAA 2016 Conference, SpaceOps Conference, (AIAA 2016-2500) <http://dx.doi.org/10.2514/6.2016-2500>
13. OMG SysML 2.0 Interface Concepts Team web site:
http://www.omgwiki.org/OMGSysML/doku.php?id=sysml-roadmap:interface_concepts_modeling_core_team
14. JPL MBEE Project wiki: <https://github.com/Open-MBEE/ProjectWiki>