

OMG Domain Technology Committee
Friday 9 December, 2016
Coronado, CA USA
OMG document dtc/16-12-01

Andrew Watson determined if the DTC is quorate. Quorum was 5; there were 11 DTC voters present. The DTC was called to order at 11:00 a.m.

First order of business was the discussion on the proposed amendment (pp/2016-12-02) to the OMG Policies & Procedures, allowing RTFs to extend specifications.

Richard Beatch (Bloomberg LP) moved to adopt the proposed amendment (OMG document number pp/2016-12-02)
Virginie Watine (THALES) seconded the motion.

Mr. Claude Baudoin (cebe IT & KM) proposed a motion to amend pp/2016-12-02 to strike the sunset clause (..and if the RTF's report is delivered before 15th September 2020)
Sandy Friedenthal (INCOSE) seconded the motion
Discussion ensued.

Mr. Watson clarified that a **yes vote** would strike out the sunset clause in the current amendment pp/2016-12-02, while a **no vote** would revert back to pp/2016-12-02 as written.
Mr. Watson called for a vote by show of hands

In favour: 3
Opposed: 8
Motion failed.

Andrew Watson then asked for a vote by show of hands to accept the proposed amendment (pp/2016-12-02) to the OMG Policies & Procedures as previously distributed.

In favour: 10
Opposed: 2
Motion passed

Next order of business was approval of the Chicago, IL DTC minutes (dtc/16-09-04).
Char Wales (MITRE) moved to approve the minutes.
Bobbin Teegarden (No Magic)) seconded the motion.
Sumeet Malhotra (TCS) proposed White Ballot.
There was no objection to White Ballot.
Motion carried.

Next order of business was **SUBGROUP REPORTS**.

Uwe Kaufmann reported on the activities of the *Manufacturing Technology & Industrial Systems Domain Task Force*:

Highlights from this Meeting:

- An Improved Method of Physical Interaction and Signal Flow Modeling for Systems Engineering (Conrad Bock, NIST; mantis/2016-12-01)
- THE DIGITAL ENGINEERING JOURNEY – ALM-PLM integration at PTC (Matthew Hause, PTC; mantis/2016-12-02)
- Proof of Concept for PLM-MBSE integration from mecPro2 research project (Patrick Muller, CONTACT; mantis/2016-12-03)
- Platform driven MBSE models – Proof of Concept for PLM-BSE integration with ARAS PLM and IBM Rhapsody (Pawel Chadzynski; ARAS, mantis/2016-12-04)
- Syndeia: Weaving the digital blueprint across MBSE, PLM, ALM, Data Simulations and Projects (Manas Baja, InterCAX; mantis/2016-12-05)
- INCOSE/GfSE Working Group PLM4MPSE – update (Uwe Kaufmann, ModelAlchemy Consulting; mantis/2016-12-06)
- Continued PLM-MBSE integration discussion, impact on SysML V2 RFP

Deliverables from this Meeting

Technology Adoption Recommendation(s):

- N/A

RFP/RFI/RFC Recommendation(s) or Other Recommendation(s):

- N/A

Future Deliverables (In-Process):

Technology Adoptions:

- N/A

RFP/RFI Recommended or Other Recommendations:

- N/A

Liaisons

- GfSE (German chapter of INCOSE) PLM4MBSE WG

Agenda Items for the Next Meeting:

- Continued PLM-MBSE integration discussion

Claude Baudoin reported on *Business Modeling and Integration Domain Task Force* (BMI DTF) activities:

Highlights from this Meeting:

- Status report on the UML Profile for ArchiMate v3 (J.D. Baker)
 - Open Group ArchiMate Forum is now creating the MOF metamodel themselves
 - Revised submission date moved to 20 Feb 2017
- Risk Modeling RFI proposal
 - Developed at the end of the September meeting, reviewed this time
 - Need to look at the evolution of the SysA Threat/Risk Model and their collaboration with UAF to avoid redundancy
- Business Architecture Metamodel RFP
 - Reviewed the draft, discussed scope, proposed clarifications and changes
 - Concern from some attendees that BMI needs a strategy to address the overlapping of standards and the competition with the Open Group

Future Deliverables (In-Process):

- UML Profile and Metamodel for Archimate revised submission date 7 Feb 2017
- Business Architecture Meta Model RFP
- Risk Management RFI

RFP/RFI Other Recommendations:

- None issued at this meeting

Agenda Items for the Next Meeting:

- Revised submission for UML Profile for ARchiMate
- Recommendation to issue a Risk Management RFI
- Recommendation to issue a Business Architecture Meta Model RFP
- Strategy discussion

Sandy Friedenthal reported on the activities of *the Systems Engineering Domain Special Interest Group*:

Highlights from this Meeting (1.5 days):

- In the early phase of deriving the requirements for the SysML v2 RFP to improve precision, usability, and interoperability
 - Requirements for a standard API to support interoperability
 - Requirements for a more precise data model consistent with industry standards

- Improved visualization and model construction
- Presented SysML v2 RFP Overview to ADTF
- Multiple presentations/approaches on System Modeling Environment
 - Collaborative Development using IBM Jazz – Michael Crow
 - PLM/MBSE mecPro2 Research Project Results – Christian Muggeo, Dr. Patrick Muller
 - OpenMBEE and the Lifecycle Change Process – Chris Delp, Robert Karban
- SysML Profile for Safety and Reliability RFP – Geoffrey Biggs
 - RFP was presented to ADTF for evaluation and to be voted on at next meeting

Ron Townsen reported on the activities of the *C4I Domain Task Force*:

Highlights from this Meeting:

- Discussions about interactions with GOV DTF (No overlap viewed)
- Discussed Changes to Navigation RFP to support issuing next meeting
- Discussed Changes to Real-Time DDS Monitoring RFP to support issuing next meeting
- Discussed State of UAF Profile working with Threat Risk Modeling
- Discussed State of TACSIT Data Exchange Responses (Initial Response at next meeting)

Deliverables from this Meeting

- None

Future Deliverables (In-Process):

- RFP for Data Labeling/Tagging (March 2017)
- RFP for Military Vehicle Navigation Interface to Applications (March 2017)
- RFP for Real-Time Monitoring of DDS Network (March 2017)
- Tactical Situation Display Data Exchange RFP Response (June 2017)

Liaisons

- None

Agenda Items for the Next Meeting:

- Review/Votes on RFP's
- Data Labeling/Tagging
- Military Vehicle Navigation Interface to Applications
- Real-Time Monitoring of DDS Network
- Status Update on UAF/Threat Risk Modeling interaction
- Review Initial Responses to TACSIT Data Exchange RFP

Brad Kizzort reported on the activities of the *Space Domain Task Force*:

Highlights from this Meeting:

- Progress report on the Goddard C2 Message Spec
- Presentation of the CubeSat Reference Model developed by INCOSE subgroup
- Discussion of requirements for a Spacecraft Ground System Glossary / Ontology

Deliverables from this Meeting:

- Spacecraft Ground Systems Vocabulary/Ontology RFI

Future Deliverables (In-Process):

- XTCE 1.2
- GEMS JSON PSM
- INCOSE CubeSat Reference Model
- Goddard Command & Control Message Specification (C2MS)
- Mission Schedule Exchange RFI/RFP

Agenda Items for the Next Meeting:

- Joint Discussion with C4I on ALMAS and other specification applicability

Mike Bennett reported on the activities of the *Finance Domain Task Force*:

Highlights from this Meeting:

- Update on FIBO work
- Heard about plans from EDM Council to rationalize FIBO submissions into consolidated FIBO RFCs each quarter
- Update on the FIRO Standard
- Started to map out a standards roadmap for future reference
 - Update from ISO TC68/WG5 on Semantics for ISO 20022
 - ACTUS and plans for alignment with FIBO
- Distributed Ledger WG and PoC update and Workshop

Deliverables from this Meeting:

Technology Adoption Recommendation(s)

- N/A

RFP/RFI/RFC Recommendation(s) or Other Recommendations

- EDM Council FIBO Consolidated RFC expected after March

Liaisons

- No formal liaisons but we continue to pursue informal liaison with ISO TC68, FIX ACTUS, XBRLj, BIAN)

Agenda Items for the Next Meeting:

- Update from EDM Council on FIBOFF consolidated submission plans and progress
- Distributed Ledger WG update and workshop
- Plans for possible RFCs for investment risk analysis and management

Nakamura-san reported on the activities of the *Robotics Domain Task Force*:

Highlights from this Meeting:

- Robotics Plenary: (6 participants)
- 2 WG Reports
 - Hardware Abstraction Layer WG (2016-12-04) >> HAL4RT 1.0
 - Robotics Functional Service WG (2016-12-06) >> RoIS 1.2
- 1 Contact Report (JASA)
 - ISO/TC299 (Robots and Robotic Devices) WG6 (2016-12-03)
 - Standardization of “Modularity for service robots – General requirements” >> General requirements for Hardware Abstraction Layer
 - NWIP (ISO/NP22166-1) was submitted and voting started.

Deliverables from this Meeting:

- None

Future deliverables (In-Process):

- HAL4RT 1.0 Specification

Next Meeting (in Reston):

- Review of HAL4RT 1.0 FTF Report

Andrew Watson reported on behalf of the Healthcare DTF chairs on the activities of the *Healthcare Domain Task Force*:

Highlights of this Meeting:

- Conducted a BPM for Healthcare workshop that was very well attended. Goal of creating a community-of-practice to explore use of BPMN/CMMN/DMN as core for portable health workflows. Strong community support for the initiative. Next Steps:
 - Establish a formal community/working group/governance
 - Develop a modeling “Field Guide” for the health vertical to govern practices for portable clinical workflows

- Convene a technical team looking at PSM-specific issues, particularly integration of shared workflows with legacy systems (many of which have embedded workflow)
- Received Initial Submission Presentation on Healthcare Ordering Service. Submission is tracking well, with revised submission expected for March 2017 (Reston)
- Extended LOI Date for Coordination of Care Service to January 31, 2017 from December 31, 2016 to accommodate HL7 and attract more potential submitters
- Discussed MDMI RFP2. Initial draft based upon these discussions expected mid-December. Plan to issue in Reston.
- Had informal update on AML FTF. Several new organizations have expressed interest in joining (Motions forthcoming for DTC).
- Discussed need for a health industry reference architecture. Intent is to work collaboratively with Healthcare Services Platform Consortium to develop one.

Deliverables from this meeting

- MDMI RFP2 Draft (health/16-12-02)
- Conduct gap analysis between Healthcare Pub/Sub and OMG
- Specification Stack for potential White Paper/Implementation
- Guide (health/16-12-03)

Future deliverables

- Revised submission for Order Service expected for March 2016 (Reston)
- Revised submission for Coordination of Care Service expected for March 2016 (Reston)
- Charter “BPM Healthcare Workflow” Community of Practice
- Develop Health Reference Architecture and Roadmap (in collaboration with HSPC and others)

Steve MacLaird reported on behalf of the chairs of the *Government Information Sharing and Services Domain Task Force*

- Colonel MacLaird noted that there was no subject matter in the Gov DTF. Volunteers for the co-chair position were being sought.

The next order of business was **RFP/RFC/RFI/RFR/WHITE PAPER ISSUANCES.**

Brad Kizzort (Harris) moved to issue the Vocabularies, Glossaries, or Ontologies for the Spacecraft Ground Systems Domain RFI (OMG document number space/2016-12-01)

Char Wales (MITRE) seconded the motion

Bobbin Teegarden (No Magic) proposed White Ballot

There was no objection to White Ballot.

Motion carried.

The next order of business was **SUBGROUP CHARTERS/EXTENSIONS/CHANGES**.

J.D. Baker (Sparx Systems) moved to dissolve the Regulatory Compliance Domain Special Interest Group.

Hugues Vincent (THALES) seconded the motion

Virginie Watine (THALES) proposed White Ballot

There was no objection to White Ballot.

Motion carried.

Nakamura-san (JASA) moved to charter the second Hardware Abstraction Layer for Robotic Technology 1.0 Finalization Task Force with the following dates and membership:

Hardware Abstraction Layer for Robotic Technology 1.0 FTF 2

Contact: hal4rt-fft@omg.org

TF Chairs: [Mr. Kenichi Nakamura](#)

IPR Mode: Non-Assert

List of Issues: [hal4rt-fft](#)

Schedule		
Event	Date	Notes
<u>Base document(s)</u>		<i>Relevant documents:</i> dct/16-01-01 (HAL4RT Beta 1) robotics/15-12-13 (Hardware Abstraction Layer for Robotic Technology (HAL4RT) inventory file) robotics/15-11-05 (Device Layer Interface definition by C for HAL4RT) robotics/15-11-04 (Service Layer Interface definition by C for HAL4RT) robotics/15-11-03 (XMI for HAL4RT)
<u>Voting List Deadline</u>	December 9, 2016	
<u>FTF Comments Due</u>	August 14, 2017	
<u>FTF Report Due Date</u>	November 6, 2017	
<u>FTF Recommendation and Report Deadline</u>	December 15, 2017	

Voting List:

Company	Date	Notes
AIST		<u>Dr. Noriaki Ando</u>
JARA		<u>Mr. Geoffrey Biggs, Ph.D.</u>
Japan Embedded Systems		<u>Mr. Kenichi Nakamura</u>
Shibaura Institute of Technology		<u>Mr. Takeshi Sakamoto</u>

Bobbin Teegarden (No Magic) seconded the motion
Hugues Vincent (THALES) proposed White Ballot
There was no objection to White Ballot.
Motion carried.

Hugues Vincent (THALES) made the composite motion:

- To extend the SysPISF 1.0 FTF comment deadline to 1st January 2017 and report deadline to 31st March 2017
- To extend the FIBO Foundations 1.2 RTF report deadline to 31st March 2017
- To extend the SBVR 1.5 RTF report deadline to 31st March 2017
- To extend the XTCE 1.2 RTF report deadline to 31st March 2017
- To extend the UPDM 2.2 RTF report deadline to 16th June 2017
- To extend the Decision Modeling and Notation 1.2 RTF report deadline to 16th June 2017
- To extend the BMM 1.4 RTF report deadline to 16th June 2017
- To extend the Application Instrumentation 1.1 RTF report deadline to 15th December 2017
- To extend the Requirements Interchange Format (ReqIF) 1.3 RTF report deadline to 15th December 2017

Bobbin Teegarden (No Magic) seconded the motion
J.D. Baker (Sparx Systems) proposed White Ballot
There was no objection to White Ballot.
Motion carried

Hugues Vincent (THALES) made the composite motion:

- To extend the UML Profile for BPMN Processes 1.1 RTF report deadline to 15th December 2017
- To extend the TestIF 1.1 RTF report deadline to 15th December 2017

Bobbin Teegarden (No Magic) seconded the motion
Hugues Vincent (THALES) proposed White Ballot
There was no objection to White Ballot.
Motion carried

Hugues Vincent (THALES) made the composite motion:

- To add Sumeet Malhotra as TCS voter on the VDML 1.1 RTF
- To add Donald Chapin as RuleML voter on the BMM 1.4 RTF
- To add Donald Chapin as RuleML voter on the SBVR 1.5 RTF
- To add John Butler as Auxilium voter on the 2nd Archetype Modeling Language FTF
- To add Dave Carlson as Department of Veterans Affairs voter on the 2nd Archetype Modeling Language FTF
- To add Claude Nanjo as Cognitive Medical Systems Voter on the 2nd Archetype Modeling Language FTF

Bobbin Teegarden (No Magic) seconded the motion

J.D. Baker (Sparx Systems) proposed White Ballot

There was no objection to White Ballot.

Motion carried

The next order of business was initiation of the **TECHNOLOGY RECOMMENDATION** polls.

Before the DTC on 9th December, 2016 was the following report:

SBVR 1.4 RTF report	dtc/16-11-01
Revised specification (clean)	dtc/16-11-02
Revised specification (change bars)	dtc/16-11-03
Annex E - Overview of the Approach	dtc/16-08-25
Annex F - The Business Rules Approach	dtc/16-08-48
Annex G - EU-Rent Example	dtc/16-08-26
Annex H - The RuleSpeak Business Rule Notation	dtc/16-08-27
Annex I - Concept Diagram Graphic Notation	dtc/16-08-28
Annex J - ORM Notation for Verbalizing Facts & Rules	dtc/16-08-29
Annex L - ORM Examples for SBVR Logical Foundations	dtc/16-08-30
Annex K - Mappings and Relationships to Other Initiatives	dtc/16-08-31
Annex M - SBVR & NIAM2007 spec procedure overview	dtc/16-08-32
Metamodel in terms of XMI	dtc/16-11-04
XML Schema in terms of XMI	dtc/16-11-05
Content Model for SBVR	dtc/16-11-06
Diagram Source Files	dtc/16-11-07
XMI Metamodel Generation File	dtc/16-11-08

Andrew Watson explained that the vote on this technology recommendation will be carried out by email. However, any DTC voting representative here today whose company wishes to vote “Yes” to all the adoptions can pre-register that vote now, and OMG staff will email confirmation of that vote to the registered voter after the meeting. If any member wishes to do anything other than vote “Yes” to all, or subsequently wishes to change its mind about voting “Yes to all”, please wait for the voting form to arrive by email and use it to vote appropriately.

Those who pre-registered a vote IN FAVOUR OF RECOMMENDING ADOPTION of these technologies:

EDM Council, Harris, MITRE, THALES, No Magic, TCS

Andrew Watson then asked if there was any other business coming before the DTC. There being no further business brought before the DTC, it was adjourned at 12:15 P.M.