

OMG Domain Technology Committee
Friday, December 11th, 2020
Virtual September meeting minutes
OMG document dtc/20-12-04

Attendance:

Name	Company
William (Bill) Beavin	Boeing (P)
Robert Lario	University of Utah (U)
Janette Briones	NASA (P)
Richard Soley	OMG
Bobbin Teegarden	OntoAge (*)
Matteo Vescovi	Micro Focus (P)
John Glaubitz	Vertex (R)
Louis Handler	NASA (P)
Sridhar Iyengar	IBM (*)
William Dark	NASA (P)
Andy Mattice	Lexmark (R)
Leonid Rubakhin	Aptos (R)
jeff smith	nContext (*)
Hugues VINCENT	THALES (*)
Stephen White	BPM Advantage (I)
Mike Bennett	IOTA Foundation (P)
Char Wales	Jackrabbit Consulting (*)
John Butler	Auxilium (I)
Steve MacLaird	OMG
William Ulrich	Business Architecture Guild (*)
William Ulrich	TSG, Inc. (*)
Richard Beatch	Bloomberg LP (D)
J.D. Baker	Sparx Systems (*)
Manfred Koethe	88solutions (P)
Lars Toomre	BRC FinTech Corporation (I)
Elisa Kendall	Thematrix Partners, LLC. (P)
Lorraine Constable	Department of Veterans Affairs (G)
Simon Mettrick	BAE Systems (D)
DBR2	Dassault Systemes (P)
Joe Jarzombek	Synopsis (NM)
Jason McC. Smith	OMG
John Draga	Micro Focus (P)
Bill Curtis	CAST Software (P)
Tadashi Furuhashi	Microsoft (D)
Juergen Boldt	OMG
Uwe Kaufmann	GfSE e.V.

Comment: Contributing (*) and Domain (D) have voting rights in the DTC, one vote per organization

(D) Domain no voting right

(U) University no voting right

(I) Influencing no voting right

(G) Government no voting right

(T) Trial no voting right

(NM) non-member, no voting rights

(R) Retail, no voting rights

Dr. Jason Smith, OMG's Vice President and Technical Director, determined if the DTC was quorate. Quorum was 8; there were 9 plus eligible DTC voters present. The DTC was called to order at 10:22 a.m.

First order of business was approval of the September 2020 DTC virtual meeting minutes (dtc/2020-09-06).

Char Wales (Jackrabbit Consulting) moved to approve the minutes.

Uwe Kaufmann (GfSE e.V.) seconded the motion.

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

There was no objection to White Ballot.

Motion carried.

Next order of business was **SUBGROUP REPORTS**

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

Highlights from this Meeting:

- Reviewed and recommended 3 RFPs for issuance – John Butler, Steve White, Robert Lario
 - Provenance & Pedigree Model and Notation (PPMN)
 - BPM+ Knowledge Package Model and Notation (BKPMN) – formerly KPMN
 - Situation Data Model and Notation (SDMN)
 - The BKPMN RFP as well as the SDMN RFP will get voted on by the AB via email after the meeting.
 - Note: Specification Common Elements (SCE), mentioned last time, is no longer a separate RFP, but was merged into BKPMN and SDMN
- Reviewed progress of the Standard Business Report Model (SBRM) – Pete Rivett, Lars Toomre
 - LOIs received from 3 sources (the above, plus SAP SE)

- Requesting deadline updates: initial submissions 22-Feb-2021, revised submission 17-May-2021
- Reviewed status of the Business Architecture Core Metamodel (BACM) – Jim Rhyne
 - Initial submission is due on 22-Feb-2021 for the 2021Q1 meeting.
- Short update on the work of the Artificial Intelligence PTF – Claude Baudoin

Lowligh

- No real progress on requirements management paper

Documents generated:

Document No	Title	Author
bmi/20-09-05	Notes from the 2020Q3 meeting (Sep. 14)	Claude Baudoin
bmi/20-10-01	Notes from Oct. 16 interim meeting	Claude Baudoin
bmi/20-11-01	Provenance & Pedigree Model and Notation RFP (four-week draft for review)	John Butler
bmi/20-11-02	Knowledge Package Model and Notation RFP (four-week draft for review)	Steve White
bmi/20-11-03	Situational Data Model and Notation RFP (four-week draft for review)	Steve White
bmi/20-12-01	Provenance & Pedigree Model and Notation RFP	John Butler
bmi/20-12-02	BPM+ Knowledge Package Model and Notation RFP (clean)	Steve White
bmi/20-12-03	Situational Data Model and Notation RFP (clean)	Steve White
bmi/20-12-04	Presentation of PPMN RFP	John Butler
bmi/20-12-05	Presentation of BKPMN RFP	Steve White
bmi/20-12-06	Presentation of SDMN RFP	Steve White
bmi/20-12-07	Presentation of BACM Update	Jim Rhyne

bmi/20-12-08	Revised Provenance & Pedigree Model and Notation RFP (clean)	John Butler
bmi/20-12-09	Revised Provenance & Pedigree Model and Notation RFP (change bars)	John Butler
bmi/20-12-10	BPM+ Knowledge Package Model and Notation RFP (change bars)	Steve White
bmi/20-12-11	Situational Data Model and Notation RFP (change bars)	Steve White
bmi/20-12-12(?)	Notes from the 2020Q4 meeting (Dec. 7 and 10)	Claude Baudoin

Future Deliverables (In process):

- SBRM initial submission(s)
- PPMN initial submission(s)
- KPMN initial submission(s)
- SDMN initial submission(s)
- Discussion Papers on Requirements and Risk Management
- Joint BACM revised submission

Agenda of Next Meetings

- Interim teleconference in early February (progress review)
- Probably a two-day meeting, March 22-23, due to abundance of topics
 - BACM revised submission
 - SBRM initial submission(s)
 - PPMN initial submission(s)
 - BKPMN initial submission(s)
 - SDMN initial submission(s)
- Review of Discussion Paper drafts
 - Assemble co-authors.
- Discussion of BPM+ strategy and roadmap

Mike Bennett (EDM Council) reported on the activities of the *Finance Domain Task Force*:

- Highlights from this Meeting:
 - FIGI for crypto assets
 - WG made specific recommendations to FDTF.
 - Motion to accept FIGI CP Questionnaire document finance/20-12-01.
 - Motion to accept Kaiko as CP for FIGI for crypto assets per finance/20-12-03.
 - Motions recorded in FDTF Minutes finance/20-12-05.

- Horizon scanning: Standards and WGs of relevance to Finance
 - There are unaffiliated WGs with relevance to finance among others:
 - DBDC
 - FERM
- FDTF desires to identify how to re-engage with and reinvigorate these WGs.
- Discussion: Activities for future FDTF QM and calls in between FIBO
 - Update on content development across instrument classes, indices.
 - FIBO Submitter proposals
 - New FIBO v2.1 RFC expected in 2021.
 - With informative account of changes since FIBO v2 Sept 2018 draft (redline on OWL listings)
 - FIBO v2 FTF to close this month.
 - FIBO 1.n RTFs to close this month.

Deliverables from this Meeting:

finance/2020-12-01 FIGI CP Questionnaire (as amended)

finance/2020-12-03 Kaiko Response to CP Questionnaire (as amended)

Future Deliverables (In-Process):

- FIBO v2.1 RFC (expected in 2021)

Liaisons

- Internal (informal)
 - Blockchain PSIG, MARS PTF, Gov DTF, AI PTF
 - WGs: CBDC, VCOI, FERM
- External
 - ISO TC68 (Financial Services) liaison
 - EDM Council (reciprocal membership arrangement)
- Informal: ACTUS, GLEIF, XBRL, BIAN etc.

Agenda Items for the Next Meeting:

- New topics – to discuss at Jan monthly meeting (also review meeting frequency)

- Future of Money
- Digital currency (see also CBDC WG)
- XBRL – financial reporting and semantics (see also SBRM)
- Sustainability – standardization of common language for sustainability investment
- Expect updates on these in March Quarterly Meeting

Uwe Kaufmann (GfSE e.V.) reported on the activities of the *Manufacturing Technology and Industrial Systems (ManTIS) Domain Task Force*:

Highlights / presentations from this Meeting:

- Automatic Integration of System MBSE-ALM Data into generic Subsystem PLM work products for Embedded Systems (Gerhard Schilling, VISIONEER GmbH)
<https://doc.omg.org/mantis/2020-12-01>
- SpecIF-the Specification Integration Facility -why we need SysML v2 and SpecIF (Oskar von Dungern, ADESSO SE) <https://doc.omg.org/mantis/2020-12-02>
- GENIAL!-Research Approach: Integrating Mission Profiles in Automotive Innovation Processes (Damun Mollahassani, VPE Univ. Kaiserslautern)
<https://doc.omg.org/mantis/2020-12-03>
- Productive 4.0 –the final report from a big European project on Industry4.0 (Øystein Haugen, HIOF) <https://doc.omg.org/mantis/2020-12-04>
- Integrated Design for Industrial IoT: Discussing System Models and Interfaces in the Arrowhead Tools Project (Géza Kulcsár, IncQueryLabs)
<https://doc.omg.org/mantis/2020-12-05>
- Model Transformation and Integration Facility -MoTIF RFP discussion (Uwe Kaufmann, GfSE) <https://doc.omg.org/mantis/2020-12-06>
- High-level objective:
 - Support of (MBS)Engineering collaboration through sharing and exchange of integrated models
 - Key concept: mock-up / container for different interconnected models / data sources
 - E.g.“actor ‘Alice’ in a BPMN model is identical to the actor ‘Alice’ in a SysML model”
 - Support for derived models (e.g.to protect IP)
- Initial set of requirements and use cases discussed.
- Next steps: formation of an editing team and elaboration of a draft RFP for March meeting

Deliverables from this Meeting:

Technology Adoption Recommendation(s)

N/A

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

Product Knowledge Framework (PKF) RFI <https://doc.omg.org/mantis/2019-06-01>

Move response deadline to Nov. 9, 2020 (4week to Dec. Mtg.)

Future Deliverables (In-Process):
Technology Adoptions•N/A
RFP/RFI Recommended or Other Recommendations
N/A
Liaisons–ISO TC 184 SC4 (aka STEP)

Agenda Items and Interest for the Next Meeting(s):

- March 2021
 - MoTIF–Model Transformation & Integration Facility RFP
 - Product Knowledge Framework (PKF) RFI progress
 - Reach-out to related groups: INCOSE DEIXWG, prostepivipSysML Workflow Forum and Implementer Forum, etc.
- June 2021
 - OMG Information Day -“How Modern PLM Systems Interact in Enterprise IT Environments” (Sponsored by CONTACT Software)
 - Postponed to next F2F OMG Meeting
- Themes of interest to discuss in MantIS:
 - digital master / digital twin
 - update from DT consortium? (subject to the directions of the DTC)
 - update on INCOSE DEIX WG (Digital Engineering Information Exchange)
 - update on ISO TC 184 SC4
 - eCl@sspresentation and potential collaboration discussion (eCl@ss is a product classification system and ontology. Signed MoU with OMG)

Sarah Douglass of MITRE provided an update on the activities of the *C4I Domain Task Force*:

Highlights from this Meeting:

- OARIS 3.0 RFP Finalization and Release
- Tactical Decision Aids Initial Submission – BAE
- Discussion with DDS Foundation
 - Discussed interest / need for information on DDS.
 - Supporting the development of the DDS Development Guide for Students
 - Development of BrightTalk chats – on DDS Solution Development

Deliverables from this Meeting:

- 2020-12-01 – OARIS 3.0 RFP – Pre-Meeting version with markup
- 2020-12-02 – OARIS 3.0 RFP – Clean
- 2020-12-03 – Tactical Decision Aids - Initial Submission – BAE

Future Deliverables (In-Process):

- Architecture describing the alignment of standards related to C4I.

Liaisons

- MARS IEF WG

Agenda Items for the Next Meeting:

- IEF at CWIX Update
- Additional Submissions for Tactical Decision Aids

Leonid Rubakhin (Aptos) reported on the activities of *the Retail Domain Task Force*:

Highlights from this Meeting:

- UnifiedPOS v1.16 RCSD is a hit! Furuhashi Tadashi (Microsoft) brought and completed last minute requested enhancements to the UnifiedPOS v1.16 RCSD FTF2 submission.
- John Glaubitz(Vertex) led the group in discussions for the Retail Industry Ontology (RIO) regarding Price, Amount, rounding values in promotions, Loyalty Rewards, Tender Types, and how to handle specialization for different retail industry verticals
- Richard Halter presented an incredible catalog of free educational content describing and teaching the ARTS Data Model, POSLog and other retail technology assets.
- Made progress on deciding what is needed for Micro-Location in Retail. There is more to investigate regarding how a new release would look. We know why something new is needed, but the particular form it should take is still to be determined.
- Voter lists on various retail efforts need maintenance. Teams voted to extend the Voting List Deadlines so we can begin taking care of workgroup voter assignment.
- Retail specifications are shifting to OpenAPI definitions for machine readable interfaces. We began investigating and will continue discussing how to best handle organization of types and schemas, packaging (modules), versioning, dependency management, mechanism for extension, composability and other issues facing implementers.
- Work on improving Diversity, Equity and Inclusion has been strong. We have a start to the guidance document, a process for managing the guidance and reporting issues, list of problematic common technology terms with direction on replacement as well as further guidance about related efforts that should be reviewed for assignment by a higher governing body at OMG.
- VOTED using assigned voters to extend the following dates:
 - Digital Receipt API 1.0 RFP
 - Letter of Intent Deadline to Feb 22, 2021
 - Voting List Deadline to Feb 22, 2021
 - Initial Submission to August 23, 2021
 - Revised Submission to Feb 21, 2022
 - UnifiedPOS Fiscal API 2.0 RFP
 - Letter of Intent Deadline to Feb 22, 2021
 - Voting List Deadline to Feb 22, 2021
 - Initial Submission to August 23, 2021
 - Revised Submission to Feb 21, 2022
 - UnifiedPOS 2.0 Model and POS Printer
 - Letter of Intent Deadline to Feb 22, 2021
 - Voting List Deadline to Feb 22, 2021

- Initial Submission to August 23, 2021
- Revised Submission to Feb 21, 2022

Deliverables from this Meeting:

- retail/2020-12-11 Retail DTF Day 1 Meeting Minutes
- retail/2020-12-12 Retail DTF Day 2 Meeting Minutes
- dtc-20-12-01 UPOS Ver1.16 RCSD Specification CLEAN
- dtc-20-11-03 UPOS Ver1.16 RCSD Specification with CHANGE BARS
- dtc-20-12-02 UPOS 1.16 RCSD FTF Report (FTF2)
- retail/2020-12-13 RDTF Closing Plenary Report

Future Deliverables:

- Digital Receipt RFP
- UnifiedPOS v2 Fiscal API RFP
- UnifiedPOS v1.15.1
- UnifiedPOS v1.16.1 – Proposal planned.
- Micro-Location in Retail – Planning RFP
- Diversity, Equity and Inclusion guidance document

Liaisons

- GS1
- Open Geospatial Consortium (OGC) on IndoorGML

Agenda Items for the Next Meeting (Reston):

- RDTF Summary and Agenda Overview
- Retail Industry Ontology WG meeting
- UnifiedPOS WG meeting
- Submission to resolve issues in UPOS v1.15.1
- Proposal to enhance UPOS v1.16 with work from UPOS v1.15.1
- Micro-Location in Retail RFP
- Proposal for UPOS v2 composability, module versioning and dependency management

Brad Kizzort (OS/COMET Product Group) reported on the activities of the *Space Domain Task Force*:

Highlights from this Meeting:

- Daniel Brookshier provided some insight into the model changes in the revised CubeSat System Reference Model (submission delayed to next meeting cycle)
- Reviewed draft for a Telemetry Display Page Exchange Format to allow sharing of space system status overview displays.

Deliverables from this Meeting:

- None

Future Deliverables (In-Process):

- Technology Adoptions
 - Postponed revised submission of CubeSat System Reference Model - New date for 2021 Q1 meeting to allow correction of some model issues.
 - RFP for Telemetry Display Page Exchange

Liaisons

- None

Agenda Items for the Next Meeting:

- CubeSat System Reference Model
- Telemetry Display Page Exchange RFP

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

Tuesday, half day, 44 attendees

Highlights from this Meeting:

- Challenges & Opportunities in an Era of Cyber-physical SoS
 - Professor Martin Törngren from KTH Royal Inst. of Technology in Stockholm
 - Move towards Cyber-physical SoS to address challenges.
 - Enabling technologies and digital infrastructure
 - Example: Sustainable smart roads (predictive maintenance and traffic control)
 - Need for new methodologies to deal with complexity.
 - Experimentation, modeling to bridge multiple viewpoints, visualization to aid in collaboration and understanding.
- SysML v2 update and demonstration – Friedenthal, Seidewitz, Bajaj
 - 3 years since formation of SST, Initial submission August 2020,
 - Language updates to support verification, trade-off analysis.
 - Emphasis on specifying graphical syntax using graphical BNF.
 - API refinements
- Formal Methods for Specifying Modeling Languages – Elisa Kendall
 - Review broad landscape of formal methods.
 - Models, modeling languages, formal theory and interpretation, ontology, logic, reasoning, ...
- On the Semantics of SysML v2 – Ed Seidewitz, Conrad Bock
 - Start with simple user model.
 - Relate back to metamodel foundation (e.g., types, features, values)
 - Interpret in terms of core semantics classification, specialization, composition

The next order of business was RFP/RFC/RFI/RFR ISSUANCES:

Ed Seidewitz (Model Driven Solutions)) made the composite motion to issue the **OARIS 3.0 Plot Sharing RFP** (OMG document number c4i/2020-12-04), and the **Pedigree and Provenance Model and Notation (PPMN) RFP** (OMG document number bmi/2020-12-08) Bob Martin (MITRE) seconded the motion.
Uwe Kaufmann (GfSE, e.V.) proposed White Ballot.
There was none opposed to White Ballot.
Motion passed.

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

Ken Lord (MDIX, Inc.) moved to charter the MDMI 2.0 Finalization Task Force with the following dates and membership:

MDMI 2.0 FTF

Contact: mdmi-2-fff@omg.org
TF Chairs: Mr. Kenneth Lord
IPR Mode: Non-Assert
Public List of Issues: MDMI2

Schedule

Event	Date	Notes
Base document(s)		<i>Relevant documents:</i> health/20-03-02 (MDMI v2 revised submission with errata health/2020-03-01 applied, clean)
Voting List Deadline	December 11, 2020	
Beta 1 Specification Publication	February 15, 2021	
FTF Comments due	July 31, 2021	
FTF Report Due Date	August 30, 2021	
FTF Recommendation and Report Deadline	October 8, 2021	

VOTING LIST:

Company	
88solutions	<u>Mr. Manfred R. Koethe</u>
MDIX, Inc.	Mr. Kenneth Lord
Mayo Clinic	Dr. Davide Sottara
Model Driven Solutions	Mr. Cory B. Casanave

J.D. Baker (Sparx Systems) seconded the motion.
Char Wales (Jackrabbit Consulting) proposed White Ballot.
There was no objection to White Ballot.
Motion carried.

Uwe Kaufmann (GfSE, e.V.) made the composite motion:

- to extend the C2MS 1.1 RTF revision deadline to April 2, 2021
- to extend the SENSR 1.0 FTF revision deadline to April 2, 2021
- to extend the DMN 1.4 RTF revision deadline to June 25, 2021
- to extend the Requirements Interchange Format V1.3 (ReqIF) RTF Public Comment Deadline to August 2, 2021.
- to extend the Requirements Interchange Format V1.3 (ReqIF) revision deadline to December 17, 2021
- to extend the SBVR 1.6 RTF Revision Deadline to June 25, 2021
- to extend the XTCE 1.3 RTF Revision Deadline to June 25, 2021
- to extend the XUSP 1.1 RTF Revision Deadline to June 25, 2021
- to extend the FIBO Business Entities 1.2 RTF Revision Deadline to December 17, 2021
- to extend the FIBO Indices and Indicators 1.1 RTF Revision Deadline to December 17, 2021
- to extend the FIBO Financial Business and Commerce 1.1 RTF Revision Deadline to December 17, 2021
- to extend the FIBO Foundations 1.3 RTF Revision Deadline to December 17, 2021
- to extend the Product Knowledge Framework RFI response deadline to November 8, 2021

Char Wales (Jackrabbit Consulting) seconded the motion.
Mike Bennett (EDM Council) proposed White Ballot.
There was no objection to White Ballot.
Motion carried.

Uwe Kaufmann (GfSE, e.V.) made the composite motion:

- to add Tadashi Furuhata as Microsoft voter on the UnifiedPOS 1.15.1 RTF
- to add Serge Schiltz as processCentric GmbH voter on the DMN 1.4 RTF
- to add Pete Rivett as 88solutions voter to the VDML 1.2 RTF
- to replace Manfred Koethe by Pete Rivett as 88solutions voter on the BMM 1.4 RTF

Char Wales (Jackrabbit Consulting) seconded the motion.
Mike Bennett (EDM Council) 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 11th December 2020 were the below reports and submissions and a poll was held for each of them:

UPOS 1.16 RCSD FTF report	dtc/20-12-02
Convenience document clean	dtc/20-12-01
Convenience document with change bars	dtc/20-11-03
Class diagrams	dtc/20-08-12
Class diagrams	dtc/20-08-13
XMI file(s)	dtc/20-08-14
Ancillary attachment file	dtc/20-08-15

Jason Smith 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 the above reports and submissions:

GfSE. e.V., cebe IT & KM, OntoAge, THALES, Model-Driven Solutions, Jackrabbit Consulting, MITRE, EDM Council

There being no further business brought before the DTC, it was adjourned at 11:58 A.M. The PTC was reconvened at 11:58 A.M.