



Standards
Development
Organization®

2021 Q3 Update

OMG STRUCTURE & GROUP DIRECTORY

Architecture Board

- Subcommittees
- Special Interest Groups
- Link to group pages
- Connect with chairs
- Subscribe to Mailing Lists
- Document Prefix

Domain Technology Committee

- Task Forces
- Special Interest Groups
- Link to pages
- Connect with chairs
- Subscribe to Mailing Lists
- Document Prefix

Platform Technology Committee

- Task Forces
- Special Interest Groups
- Link to pages
- Connect with chairs
- Subscribe to Mailing Lists
- Document Prefix

<https://www.omg.org/homepages/index.htm>

INFLUENCING OMG STANDARDS DEVELOPMENT

- **Keep an eye on phase** deadlines
- Public encouraged to contribute during RFI phase
- LOI phase **is** open to all and not legally binding
- Membership is required to submit by deadlines and vote

RFI

Request for Information

RFP

Request for Proposals

LOI

Letter of Intent

Submitters:
Deadline / Member Level

Voting Lists - Members

REQUEST FOR INFORMATION (RFI)

- No membership required to respond
- Survey of academia/government/industry to guide new standard efforts
- Soliciting your input, opinion and level of interest
- Your chance to voice your needs and priorities
- Responses are considered by the issuing Task Force to guide next steps toward potential new Request for Proposal (RFP) work and new standards



Opportunity to advise preferences and requirements for potential new work



Responses may influence task force to prioritize planned work according to industry alignment

REQUEST FOR PROPOSAL (RFP)

Letter of Intent (LOI)

- No membership required to submit a LOI
- Not legally binding, but expresses intent
- LOI is required to become a Submitter

Submitters

- Qualified LOI must be on record
- Initial Submission Deadline
- Correct level of Membership required for issuing Technical Committee
- Business Committee Questionnaire

Voting List

- Members Only
- All Members eligible (excluding restricted levels of Trial, Analyst and TF)

- **Submit a LOI**
- **Keep to Deadlines**
- **Make A Difference**



RFIs & RFPs UNDER DISCUSSION

[Artificial Intelligence Platform Task Force](mailto:ai-chair@omg.org) (ai-chair@omg.org)

Tentative:

- RFP on a Claims-Argument-Evidence Model for AI (e.g., absence of bias)
- RFI on Representing AI Components in SysML
- RFI on The Need for A Standard Model and Language for Image Labeling

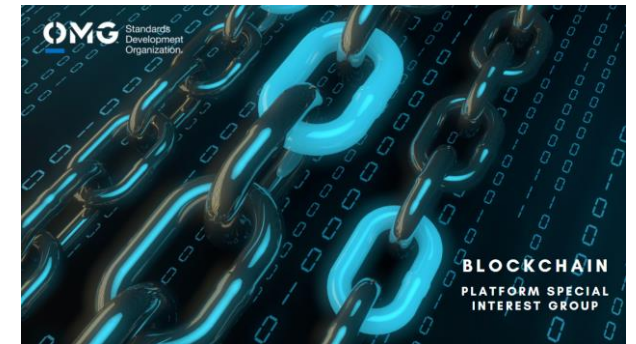
[Blockchain Platform Special Interest Group](mailto:bc-psig-chair@omg.org) (bc-psig-chair@omg.org) & [Middleware & Related Services Platform Task Force](mailto:mars-chair@omg.org) (mars-chair@omg.org)

Future Deliverables (In-Process):

- [DDS C# API](#): revised submission (Feb 21, 2022)
- [DDS-TSN](#): revised submission (Nov 8, 2021)
- [Real-time Publish-Subscribe TCP/IP PSM for DDS Interoperability](#): revised submission (Feb 21, 2022)
- [IDL4 to C++ Mapping](#): revised submission (Nov 8, 2021)
- [Linked Encrypted Transaction Streams](#) (LETS): initial submission (Nov 8th, 2021)

RFP/RFI/RFC Recommendations to Issue:

- DDS Service-based Discovery RFP: issue 2021 Q4
- Smart Contracts RFI: issue 2021 Q4
- IOTA Protocol RFC: issue 2022 Q2
- Disposable Self-sovereign Identities (SSID) (exact title TBD) RFP: review latest draft (TBD)



RFIs & RFPs UNDER DISCUSSION (CONT'D)

Analysis & Design Platform Task Force

(adtf-chair@omg.org)

Next Meeting Agenda:

- Updates on [Agent Metamodel and Profile](#) (AMP)/[Event Metamodel and Profile](#) (EMP), [Information Management Metamodel](#) (IMM), [Multiple Vocabulary Facility](#) (MVF), [Precise Semantics of Time for Foundational UML](#) (PSTFU), [Precise Semantics for Uncertainty Modeling](#) (PSUM), [Systems Modeling Language v2](#) (SysML)
- SysML v2 Semantic Debt

Retail Domain Task Force (retail-chair@omg.org)

Future Deliverables:

- [Digital Receipt API](#)
- [UnifiedPOS Fiscal API v2.0](#)
- [UnifiedPOS v1.15.1](#)
- [UnifiedPOS v1.16.1](#)

Space Domain Task Force (space-chair@omg.org)

Future Deliverables (In-Process):

- TEXT RFP
- Data Archive RFP



IDL4 to PYTHON LANGUAGE MAPPING RFP

Anyone 

LOI required for Submitters 

Members Only 

Letter of Intent (LOI)	Initial Submission (Domain)	Voting List
December 15, 2021	February 21, 2022	March 14, 2022

Version 4 of the Interface Definition Language (IDL) specification extends the traditional IDL syntax and defines a comprehensive set of building blocks to categorize it. Such evolution of IDL requires the definition of a new set of language mappings, because existing mappings, such as IDL to Python, do not include complete coverage of the new constructs introduced in IDL version 4 and newer, and do not map well to the new building-block structure. This RFP solicits proposals for an IDL4 to Python mapping

Contact: mars-chair@omg.org

[Interface Definition Language v4 \(IDL4\) to Python Language Mapping RFP](#)

ROBOTIC SERVICE ONTOLOGY RFP

Anyone 

LOI required for Submitters 

Members Only 

Letter of Intent (LOI)	Initial Submission (Domain)	Voting List
May 16, 2022	May 23, 2022	June 20, 2022

Solicits proposals for a set of basic ontologies that provide a semantic model of robotic services and related robotic functional components that can support communications and interoperability between robotic services and enable composition of such services.

We need a common vocabulary or ontology in order to describe robotic services and the components that comprise those services. Such an ontology will assist not only in communications among robots and between robots and the humans they support, but will enable developers of both robotic services and robotic functional components to compose higher order robotic services from well-defined, consistent building blocks (components) and have confidence that the resulting services are consistent will work together as designed..

Contact: robotics-chair@omg.org
[Robotic Service Ontology RFP](#)

GET INVOLVED!



Include your voice in the conversation:

- [OMG “Work in Progress”](#) (public responses requested)
- [Filing Issues](#) (report bugs or suggestions)



Take a look into the OMG Workshop:

- [Current Projects](#) (by Task Force)
- [Project Deadlines](#) (by Date)

PUBLIC COMMENT DEADLINES

Industry comments welcome – no membership required



<https://www.omg.org/schedule/tcdeadlines.html>

FUTURE DELIVERABLES & AGENDA ITEMS

ESTABLISHED DURING THE 2021 Q3 VIRTUAL TECHNICAL COMMITTEE MEETING

Agent PSIG Webpage

agents-chair@omg.org



- **Next Meeting Agenda:**
- Discuss the submitted approach for the [Agent](#) & [Event](#) (AgEnt) Metamodel Standard
- Review the two implementation examples (PSMs) of the submitted AgEnt standard

BMI DTF Webpage

bmi-chair@omg.org



Next Meeting Agenda:

Revised submission presentations

- [Business Architecture Core Metamodel](#) (BACM)
- [BPM+ Knowledge Package Model and Notation](#) (BKPMN)
- [Pedigree and Provenance Model and Notation](#) (PPMN)
- [Standard Business Report Model](#) (SBRM)
- [Shared Data Model and Notation](#) (SDMN)

Discussion of BPM+ strategy and specification harmonization roadmap

C4I DTF Webpage

c4i-chair@omg.org



Future Deliverables (In-Process):

- [Tactical Decision Aids](#) Final Submission
- DevSecOps Roadmap in conjunction with [System Assurance Platform Task Force](#) and any Task Forces, Working Groups and Special Interest Groups that want to contribute

Next Meeting Agenda:

- [Tactical Decision Aids](#) Submission Review
- Continued DevSecOps discussion for Information Day in Reston

DDS PSIG Webpage

dds-chair@omg.org



[Next Meeting Agenda:](#)

- Presentations on approaches to service-based DDS discovery by various DDS vendors

OCS DSIG Webpage

ocs-chair@omg.org



- [Next Meeting Agenda](#):
- Presentation and status report on Open Civic Architectural Framework (OCAF) Architecture Board and collaborations with other OMG groups.
- Update on joint seed funding application with the National Science Foundation.
- Presentations by OMG groups on how existing OMG efforts can support the OCAF ecosystem:
 - Ontology; [Distributed Immutable Data Object](#) (DIDO); [Information Exchange Framework](#) (IEF); [Data Distribution Service](#) (DDS); [Business Process Model and Notation](#) (BPMN), [Case Management Model and Notation](#) (CMMN), [Decision Model and Notation](#) (DMN), and [Value Delivery Modeling Language](#) (VDML).

Ontology PSIG Webpage

ontology-chair@omg.org



- **Future Deliverables (In-Process):**
 - [Multiple Vocabulary Facility](#) (MVF) revised submission (December 2021)
 - [Languages, Countries and Codes](#) (LCC) v1.2 RTF report (December 2021)
 - RFC for the Specification Metadata Ontology, UML Profile, and IDL Template (December 2021 or March 2022)
 - [Ontology Definition Metamodel](#) (ODM) v2.0 RFC (December 2021 or March 2022)
 - [Distributed Ontology, Model and Specification Language](#) v1.1 RTF report (December 2022)
- **Next Meeting Agenda:**
 - Report on requirements for OMG ontology specifications (with generated content in LaTeX)
 - Metrics for ontology characteristics to provide for OMG ontology artifacts
 - Discussion of a possible maturity index for ontology
 - Presentations for deliverables in [Analysis & Design Platform Task Force](#)

Space DTF Webpage

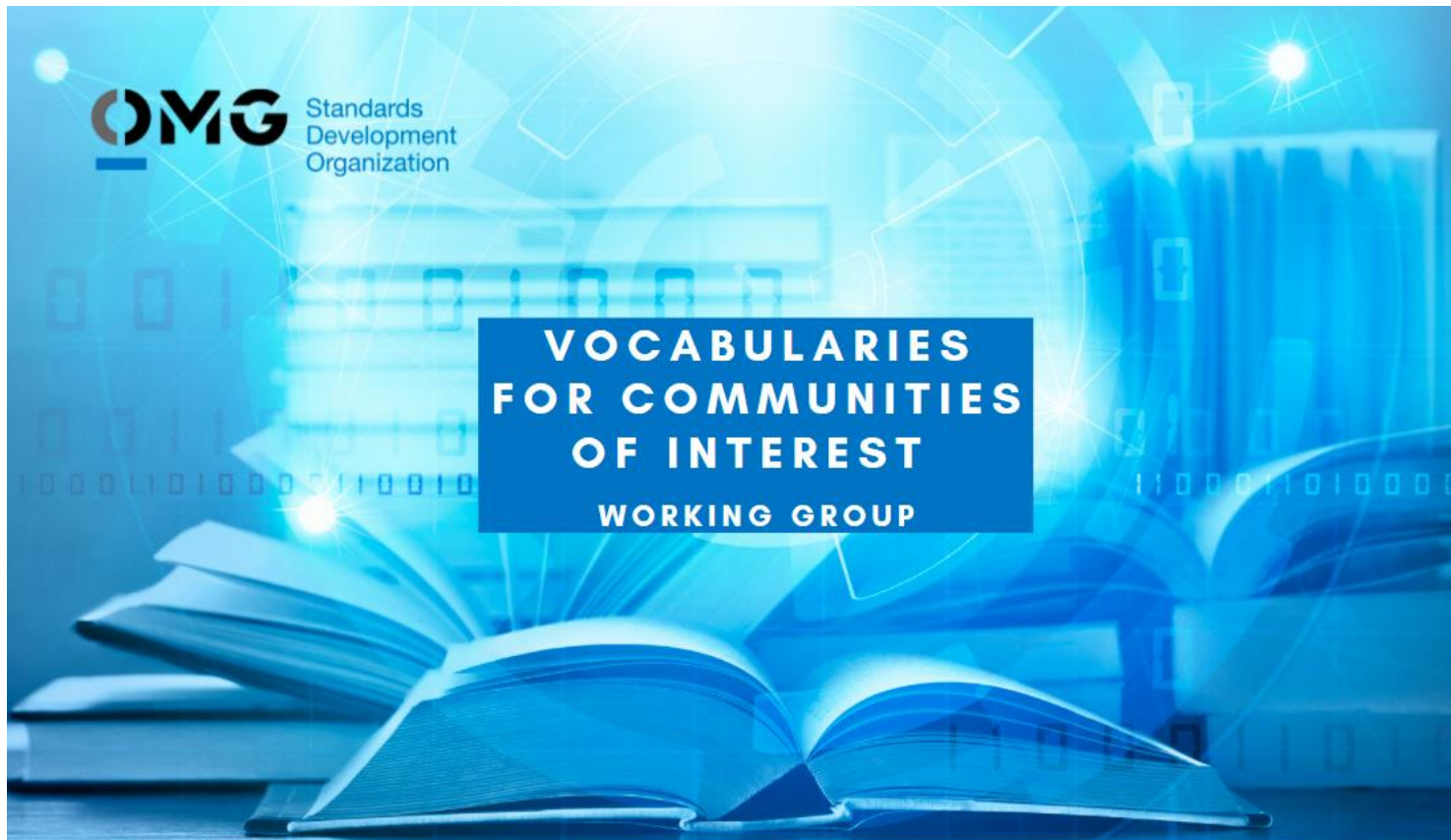
space-chair@omg.org



- Next Meeting Agenda:
 - FTF work on CubeSat System Reference Model (CSRM) profile
 - RTF work on Command and Control Message Specification (C2MS), Ground Equipment Monitoring Service (GEMS) and XML Telemetry & Command Exchange Format (XTCE)
 - GitHub usage for Space DTF
 - Industry Day planning
 - JSCC Standards Discussion

VCI WG Webpage

space-chair@omg.org



Next Meeting Agenda:

Concepts Analysis:

[Finance Domain Task Force](#): Money and currency concepts and definitions

[Blockchain Platform Special Interest Group](#): Fundamentals of Distributed Ledger Technology

Concepts v. Words:

Semantic v. Speech Communities (ISO 1087)

Linked by Context

What is Context? – formal treatment

Standards and Tooling:

[Simple Knowledge Organization System](#) (SKOS), [Multiple Vocabulary Facility](#) (MVF), [Semantics of Business Vocabulary and Business Rules](#) (SBVR), [Resource Description Framework](#) (RDF), [Web Ontology Language](#) (OWL), etc.

But how to use / extend for formal Context treatment

Collaborate Across TCs (TF, SIG etc.)

Sharing and reuse both of:

- Concept articulation
- Terms, acronyms and references

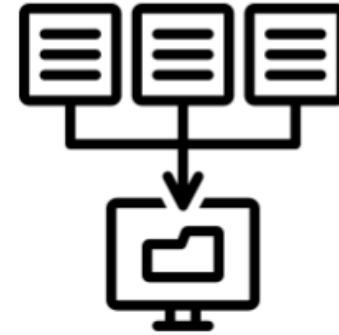
Participate!

Would like to extend invitation to all interested to build out our MVP

TECHNICAL COMMITTEE MEETING (TCM) RESOURCE HUB



Designated group chairs report on group progress during the closing TCM plenary session



Group progress reports are collected and posted on the TCM Resource Hub

<https://www.omg.org/events/tm-resource-hub/index.htm>

OMG TECHNICAL MEETING SCHEDULE

December 6 – 10, 2021



Long Beach, CA

March 21 – 25, 2022



Reston, VA

June 20 – 24, 2022



Orlando, FL

September 12 – 16, 2022



Burlingame, CA

<https://www.omg.org/events/index.htm>

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OMG & MANAGED PROGRAMS



OMG CROSS PARTICIPATION POLICY

A paying member in good standing of OMG at the approved levels may designate representatives to participate in one working group of the IIC or Digital Twin Consortium (excluding quarterly member meetings).

Each consortium operates under its own rules. Participants must sign a Non-member Contribution and License Agreement (NCLA) to participate in the other consortium.

The limit on the number of OMG Member participants is set by member category, as approved by Board of Directors.

Details: <https://www.omg.org/memberservices/cross-participation.htm>

MEMBERSHIP LEVEL	CROSS PARTICIPANT SEATS
Contributing	2
Domain	1
Platform	1
Influencing	0
Government	0
Retail Domain	0
Trial	0
University	0

Request Form must be submitted by the Primary Member Representative:
<https://www.omg.org/memberservices/cross-participation-request-form.htm>



NEXT STEPS

- **Contact Group Chairs for Updates:** <https://www.omg.org/homepages/index.htm>
- **OMG Member Company List:** <https://www.omg.org/cgi-bin/apps/membersearch.pl>
- **Learn about OMG and becoming a member:** bd-team@omg.org

STAFF

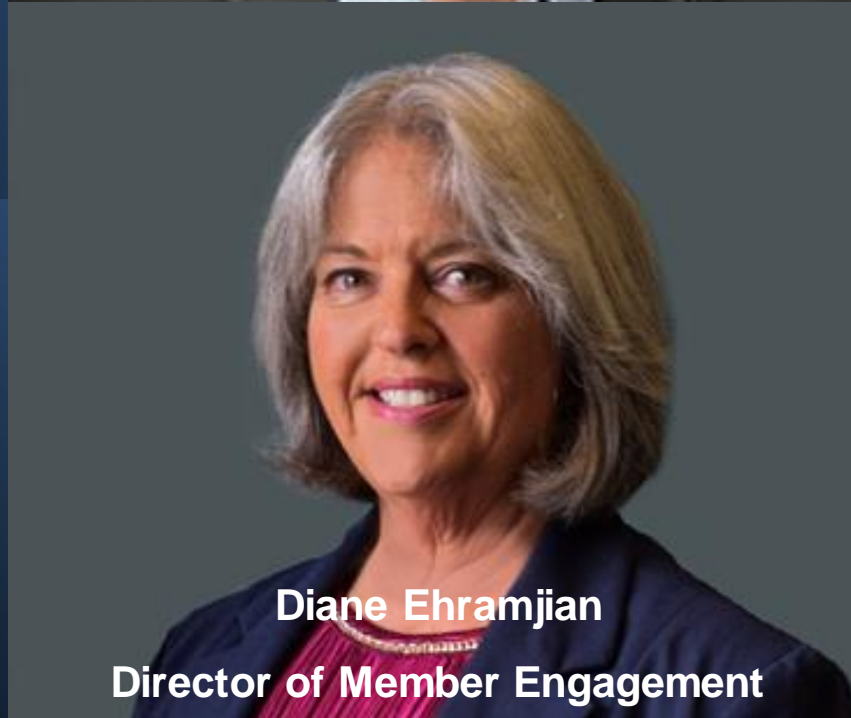
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Juergen Boldt
VP of Member Services



Diane Ehramjian
Director of Member Engagement



Terrance Milligan
Marketing & Analytics Manager