



OBJECT MANAGEMENT GROUP ®

TC Meeting Date: Oct 1, 2021

Reporting Chair: Char Wales

Group page (URL): <https://www.omg.org/mars/>

Group email: mars@omg.org

MARS – Middleware And Related Services

- **Highlights from this Meeting:**

- IDL4 to Python Language Mapping RFP: reviewed final draft of RFP
 - Recommended issuance
- DDS C# API Revised Submission: received status update
 - Extended to Reston (March 2022)
- CWG Non-Fungible Tokens and Cyber Insurance DP: reviewed
 - Recommended for publication
- DDS Service-based Discovery: continued discussion regarding need
 - Agreed technology needed and to continue RFP preparation
- UML Profile for Rosetta (UPR): introduced proposal to evolve UPR
 - Add logical constraints via alignment with SysML 2.0 KerML/Predicates
 - Plan to prepare a new RFP -- to be issued from ADTF
- Open Civic Architecture Framework (OCAF): received detailed introduction



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• **Highlights from this Meeting (continued)**

– Joint with Block Chain PSIG

- Smart Contracts RFI: reviewed next draft, targeting issuance in December 2021
- Disposable Self-sovereign Identities (SSID) RFI: reviewed latest responses
 - Declared the RFI closed
 - Next step: prepare RFP to standardize expression of context and its communication & consumption as a DSSID; issue from MARS or some other TF?
- IOTA Protocol RFC: reported current state
 - RFC may be ready by March or June 2022
- Linked Encrypted Transaction Streams (LETS) RFP: reviewed status of initial submission
 - Extended initial and revised submission deadlines: December 2021 and March 2022
- Distributed Immutable Data Objects (DIDO) RA: reviewed future plans
 - Version 4.0 being prepared, targeting release in December 2021
 - Reworks data concepts from perspective of taxonomies, privacy, data state, etc.



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- **Highlights from this Meeting (continued)**

- FACE Interop, IDL and IEF WGs met

- FACE Interoperability WG:

- Continue to meet jointly with counterparts in FACE Consortium
 - » MOU for joint OMG/FACE Interop WG still pending legal review by FACE Consortium
 - » No impact on joint WG meetings; just exercise care vis-à-vis information sharing
- Established 3 breakout WGs with co-chairs for each: DDS, CORBA, IDL4
 - » To meet frequently in between quarterly TC meeting weeks

- IDL WG:

- Focused on IDL4 to C++ language mapping submission

- IEF WG:

- Reviewed application of IEF to support Zero Trust Environments
- Initiated exploration of how IEF can support OCAF (OCS DSIG)



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- **Deliverables from this Meeting:**

- Technology Adoption Recommendation(s): none
- RFP/RFI/RFC Recommendation(s):
 - IDL4 to Python Language Mapping RFP
- TF Documents Issued
 - Cloud WG Non-Fungible Tokens and Cyber Insurance DP

- **Future Deliverables (In-Process):**

- Technology Adoptions
 - DDS C# API: revised submission, Feb 21, 2022
 - DDS-TSN: revised submission, Nov 8, 2021
 - TCP/IP PSM for DDS Interoperability: revised submission, Feb 21, 2022
 - IDL4 to C++ Language Mapping: revised submission, Nov 8, 2021
 - Linked Encrypted Transaction Streams (LETS): initial submission, Nov 8th, 2021



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- **Future Deliverables (In-Process) continued:**

- 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?

- TF Documents

- Distributed Immutable Data Objects (DIDO) RA V4.0: publish 2021 Q4
- Cloud WG Discussion Paper:
 - Practical Guide to Cloud Data Governance: publish in 2022 Q1
 - Cloud Service Agreement Template: publish in 2022 Q1
 - Everything as a Service: A Guide to XaaS: publish in 2022 Q2
 - Practical Guide to Cloud Computing, version 4: 2022 Q3

- **Liaisons**

- FACE Consortium (MOU in process)



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- **Agenda Items for the Next Meeting:**

- Review initial submission: Linked Encrypted Transaction Streams
- Review revised submission: DDS TSN Integration API
- Review revised submission: IDL4 to C++ Language Mapping
- Review latest draft RFP: DDS Service-based Discovery
- Joint with BC PSIG:
 - Linked Encrypted Transaction Streams RFP: review initial submission
 - Disposable Self-sovereign Identities (SSID) (exact title TBD) RFP: review latest draft (TBD)
 - Smart Contracts RFI: review for issuance
 - DIDO RA V4 DP: review for publication
- Continue collaboration with BC PSIG, Cloud Working Group, FACE Consortium
- MARS WGs to meet: IDL, IEF, FACE Interop, SNC?