

MARS – Middleware And Related Services

- **Highlights from this Meeting:**

- IDL4 to C++ Language Mapping revised submission: received status update
 - Extended to Reston (March 2022)
- DDS TSN Integration revised submission: received status update
 - Extended to Reston (March 2022)
- DDS Service-based Discovery RFP: continued discussion
 - Decision from DDS PSIG to defer this effort for now
- OCAF Collaboration (joint OCS DSIG and BC, DDS, & Ontology PSIGs)
 - Explored current OMG efforts (not limited to specifications) and potential to support aspects of the Open Civic Architecture Framework (OCAF)
 - Initial focus: ontology, blockchain, DDS, and DIDO
 - Expect to expand to include e.g., CORBA (CDR, GIOP, others?) and areas still TBD
 - Summary report from OCS DSIG chair on collab session & follow-up in OCS DSIG meeting

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

- Joint with Block Chain PSIG
 - Linked Encrypted Transaction Streams (LETS) RFP: reviewed initial submission
 - Defines hierarchy: CIM, PIMs, and then user defined PSMs associated with each PIM
 - IOTA Protocol RFC: reported current state
 - RFC may be ready by March or June 2022
 - Smart Contracts RFI: reviewed next draft, moved target for issuance to March 2022
 - Distributed Immutable Data Objects (DIDO) RA: reviewed in progress draft of Ver 4.0
 - Reworks data concepts from perspective of taxonomies, privacy, data state, etc.
 - Plan to include CORBA in either Ver 4.0 or future 5.0
 - Plan to publish at March meeting

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

- FACE Interop, CORBA, IDL and SNC 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
- 3 WG teams (DDS, CORBA, IDL4) gaining momentum
- Formal liaisons established between FACE and OMG

- CORBA WG:

- Discussed REST for CORBA FTF, improvements to CORBA spec to support IDL4 better, and outstanding issues for the CORBA spec to be reviewed and addressed

- IDL WG:

- Discussions about election of new WG co-chairs (target March 2022)
- Worked on the IDL4 to C++ Language Mapping submission

- SNC WG:

- Discussed remaining FTF issues and the need to charter a 2nd FTF in order to resolve them all.

- **Deliverables from this Meeting:**

- Technology Adoption Recommendation(s):
 - none
- RFP/RFI/RFC Recommendation(s):
 - none
- TF Documents Issued
 - none

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

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

- **Future Deliverables (In-Process) continued:**
 - RFP/RFI/RFC Recommendations to Issue
 - Smart Contracts RFI: issue 2022 Q1
 - IOTA Protocol RFC: issue 2022 Q2, Q3?
 - TF Documents
 - Distributed Immutable Data Objects (DIDO) RA V4.0: publish 2022 Q1
 - Cloud WG Discussion Papers:
 - 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)

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

- Review initial submission: IDL4 to Python Language Mapping
- Review revised submissions:
 - DDS TSN Integration API
 - IDL4 to C++ Language Mapping
 - DDS C# API
 - TCP/IP PSM for DDS Interoperability
- Joint with BC PSIG:
 - Linked Encrypted Transaction Streams: review revised submission
 - Smart Contracts RFI: review for issuance
 - IOTA Protocol RFC: review for issuance (?)
 - DIDO RA V4 DP: review for publication
- Review Cloud WG discussion papers for publication:
 - Practical Guide to Cloud Data Governance
 - Cloud Service Agreement Template
- Continue collaboration with BC PSIG, Cloud Working Group, OCS DSIG , FACE Consortium
- MARS WGs to meet: IDL, IEF, FACE Interop, CORBA, SNC?