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 21\textsuperscript{st}, 2022
    • DDS C# API: revised submission, Feb 21\textsuperscript{st}, 2022
    • DDS-TSN: revised submission, Feb 21\textsuperscript{st}, 2022
    • IDL4 to C++ Language Mapping: revised submission, Feb 21\textsuperscript{st}, 2022
    • Linked Encrypted Transaction Streams (LETS): revised submission, Feb 21\textsuperscript{st}, 2022
    • TCP/IP PSM for DDS Interoperability: revised submission, Feb 21\textsuperscript{st}, 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

• 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
    • DDS C# API
    • IDL4 to C++ Language Mapping
    • 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?