MARS – Middleware And Related Services

Highlights from this Meeting:

- DDS Service-based Discovery RFP: reviewed requirements and draft
- IDL4 to Python Language Mapping RFP: reviewed requirements and draft
- DDS-TSN RFP: status update; extended to May 17, 2021 (June meeting)
- DDS C# API: status update; extended to Aug 30, 2021 (September meeting)
- IEF Policy-based Packaging Service: status update, submission withdrawn, RFP cancelled
- Secure Data Services Operational Concepts: presentation on implementation of IEF RA.
- Report from FACE Interoperability Team: elevation to MARS Working Group
- Joint meeting with BC PSIG
  - IOTA Protocol RFC: reviewed next draft
  - Smart Contracts RFI: reviewed first draft
  - DIDO Reference Architecture 3.0 Discussion Paper: reviewed next draft
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• Highlights from this Meeting (continued):
  – IDL, IEF, and CORBA WGs met.
    • CORBA WG: Discussed IDL interop with legacy (pre ver 11) C++, update on FACE profile for UAF
    • IDL WG: Worked on IDL4 to Python RFP, and IDL4 to C++ language mapping submission
    • IEF WG: Reviewed status of the IEF effort and discussed involving the NATO Standardization Office
**Deliverables from this Meeting:**
- Technology Adoption Recommendation(s): none
- RFP/RFI/RFC Recommendation(s): none
- TF Documents Issued
  - Cloud Computing Collective References (aka “Cloud Bibliography”) Discussion Paper (special plenary in Feb.)

**Future Deliverables (In-Process):**
- Technology Adoptions
  - DDS C# API: revised submission, 30 Aug 2021
  - DDS-TSN: revised submission, 17 May 2021
  - TCP/IP PSM for DDS Interoperability: revised joint submission, 17 May 2021
  - IDL4 to C# Mapping: initial submission, 17 May 2021
  - Linked Encrypted Transaction Streams (LETS): initial submission, 17 May 2021
• **Future Deliverables (In-Process) continued:**
  – RFP/RFI/RFC Recommendations to Issue
    • IDL4 to Python Language Mapping RFP: issue 2021 Q2
    • DDS Service-based Discovery RFP: issue 2021 Q3
    • Smart Contracts RFI: issue 2021 Q2
    • IOTA Protocol RFC: issue 2021 Q3?
  – TF Documents
    • Cloud WG Discussion Papers,
      – First draft of Practical Guide to Cloud Data Governance (publish in 2021 Q3)
    • DIDO Reference Architecture 3.0 Discussion Paper (publish in 2021 Q2)

• **Liaisons**
  – None
• **Agenda Items for the Next Meeting**
  – Review initial submission:
    • IDL4 to C++ Language Mapping
  – Review revised submissions:
    • DDS-TSN Integration
    • TCP/IP PSM for DDS Interop
  – Review draft RFPs:
    • DDS Service Based Discovery
    • IDL4 to Python Language Mapping
  – Review Cloud Service Agreement Template Discussion Paper
  – Joint with BC PSIG:
    • Linked Encrypted Transaction Streams RFP: review initial submission
    • Disposable Self-sovereign Identities (SSID) RFI: review responses
    • Smart Contracts RFI: review for issuance
    • IOTA Protocol RFC: review next draft
    • DIDO Reference Architecture 3.0 DP: review for publication
  – Continue collaboration with BC PSIG, Cloud Working Group, FACE Consortium
  – MARS WGs to meet: IDL, IEF, SNC, CORBA, FACE Interop