MARS – Middleware And Related Services

• Highlights from this Meeting:
  – Reviewed draft IDL4 to C++ Language Mapping RFC/RFP
  – Received status reports on DDS TSN Integration, DDS C# API, & TCP/IP PSM for DDS submissions
  – Reviewed initial submission of REST for CORBA
  – Reviewed revised submission of Space Telecommunication Interface (STI) for SDRs
  – Presentation on future IEF Ecosystem of Interoperability Discussion Paper
  – Joint meeting with BC PSIG
    • Reviewed next draft of Linked Encryption Streams (LETS) RFP
    • Reviewed next draft of IOTA Tangle RFC
    • Reviewed final version of DIDO Reference Architecture 2.0 Discussion Paper
    • Reviewed and demonstrated DIDO Test Environment (DIDO TE)
    • Reviewed DIDO Reference Implementation (RI) and their components:
      – DIDO Data Model
      – DIDO Command Line Interface (CLI)
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• **Highlights from this Meeting:**
  – Short update on Cloud WG vis-à-vis upcoming discussion papers
  – Reopened LOI and extended process dates for DDS C# API
  – Extended DDS-TSN Integration and TCP/IP PSM for DDS to 09 November 2020 (December meeting)
  – Extended STI for SDR to 17 August 2020 (September meeting)
  – Issued DIDO RA 2.0 Discussion Paper
  – IDL, SNC, CORBA WGs met.
    • CORBA WG: considering preparing a discussion paper on FACE Transport Service Segment (TSS) and its relationship to CORBA and DDS to present to FACE
    • IDL WG: Worked on IDL4 to C++ Language mapping; decision to use RFP rather than RFC process
    • SNC WG: Reviewed and addressed comments from AB on STI for SDR submission; decision to delay adoption by one meeting.
• **Deliverables from this Meeting:**
  – Technology Adoption Recommendation(s)
    • None
  – RFP/RFI/RFC Recommendation(s)
    • None
  – TF Documents Issued
    • DIDO Reference Architecture (RA) 2.0

• **Future Deliverables (In-Process):**
  – Technology Adoptions
    • DDS C# API: reopened LOI, 10 Jul 2020; Voting List, 07 Sep 2020; initial submission, 17 Aug 2020; revised submission, 22 Feb 2021
    • DDS-TSN: revised submission, 09 Nov 2020
    • IEF Policy Based Packaging Service (IEPPS): revised submission, 17 Aug 2020
    • REST for CORBA: revised submission 09 Nov 2020
    • STI for Software Defined Radios (SDRs): revised submission, 17 Aug 2020
    • TCP/IP PSM for DDS Interoperability: revised joint submission, 09 Nov 2020
• Future Deliverables (In-Process) continued:
  – RFP/RFI/RFC Recommendations
    • IOTA Tangle RFC (issue in 2020 Q3?)
    • Linked Encryption Transaction Streams (LETS) RFP (issue in 2020 Q3?)
    • IDL4 to C++ Mapping RFP (issue in 2020 Q3?)
  – TF Documents
    • IEF Ecosystem of Interoperability Discussion Paper (draft in 2020Q3?)
    • Cloud WG Discussion Papers, titles TBD (issue 2020Q4?)

• Liaisons
  – None
• Agenda Items for the Next Meeting
  – DDS C# API: review initial submission
  – IEF Policy Based Packaging Service (IEPPS): review revised submission
  – STI for Software Defined Radios (SDRs): review revised submission
  – IDL to C++ RFP: review next draft
  – IEF Ecosystem of Interoperability Discussion Paper: review draft
  – Presentation on plans for discussion paper on FACE Transport Service Segment (TSS) and its relationship to CORBA and DDS
  – Status report on Cloud WG Discussion Papers
  – Joint with BC PSIG:
    • Ephemeral Self-Sovereign ID RFP: review/present new RFP
    • IOTA Tangle RFC: review draft
    • Linked Encrypted Transaction Streams (LETS) RFP: review draft
    • DIDO Test Environment: presentation and demo
    • DIDO Reference Implementation: demo
  – Continue collaboration with BC PSIG, Cloud Working Group, FACE Consortium
  – WGs to meet: IDL, IEF, SNC, CORBA