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
• **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.
• **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)
• **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
• **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

• **Liaisons**
  – FACE Consortium (MOU in process)
• **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?