

Summary of the LOTAR International Workshop (Online) 8 – 10 December 2020

Summary:

The December 2020 workshop was well attended. There were approximately 35 participants online. Below are the highlights of the meeting.

Project Management:

- The 2020 LOTAR annual report was finalized and has been published on the LOTAR web site.
- A productive cross domain meeting was held on how to address metadata within the OAIS model.
- The 2021 LOTAR International project plan and budget plan was consolidated.
- The draft part 1 revision was reviewed and will be sent for LOTAR internal ballot in January 2021.
- Status was provided on a number of external collaborative projects:
 - STEP AP239 Ed3 and part 4000 project – Planned distribution of part 4000 ed1 for ballot in Q1 2021.
 - A review was held of the Memorandum of Understanding for the governance model of the MBx Interoperability Forum supported by PDES, Inc, AFNeT and prostep ivip.
 - Reviewed status and discussed plans for the PDF Interoperability Forum
 - Reviewed status and discussed plans for the STEP AP 242 ed3 project.
 - Reviewed status and discussed plans for the STEP AP 243 ed1 MoSSEC project. Planned start of the DIS ballot in Q1 2021
 - Reviewed the “Minimum information for Type design certificate” ed3 published by the A&D PLM Action Group.
 - Reviewed a summary of the progress of the CCSDS OAIS Interoperability Framework, as related to the LOTAR functional architecture requirements development.
- The Next LOTAR workshop will be held **15 – 18 March 2021 (online)**

WG “LOTAR of 3D CAD Mechanical and PMI” (Parts 1XX):

- The group reviewed the 5-year roadmap,
- The group commenced the review of LOTAR P100 and 300,
- CT CoreTechnologie and Datakit provided results from the P132 pilot 1 Hole in Part.

WG “LOTAR of PDM information” (Part 2XX):

- Developed 5-year roadmap updates.
- Reviewed Part 200 for revision opportunities and 210 / 230 drafts against 100 and 110 for consistency in content.
- Development of Meta Data part 021 with support across domain WGs - Held initial working sessions with cross domain participation.
- Functional Architecture part 006 - Discussed opportunity to recognize OAIS Interoperability Framework once finalized.
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WG “LOTAR of Composite design” (Part 3XX):

- The group reviewed and planned activities for the LOTAR part 300 and part 310.
- The group continued to discuss the recommended practices especially for validation properties.

WG “LOTAR of Electrical Harness” (Part 4XX):

- A presentation was made of the enhancements to draft AP242 ed2 Electrical Wiring Harness (“EWH”) recommended practices, to be published end of 2020.
- Reviewed the related EWH Validation properties proposed by the LOTAR Electrical team
- Received a status update on the LOTAR AP242 ed2 Electrical interfaces pilots implemented by Core Technologie (Catia V5) and Datakit (NX, 3D PDF).
- Participated in the Joint meeting with EWIS IF User Group and Implementer Group (9 December)
- Held a discussion on the structuration of the essential information into “groups” / units of functionalities.

WG “LOTAR of Model Based Systems Engineering” (Part 5XX):

- The major focus of last three months has been the Part 520 use case (supported by Modelon). The aim is to complete the demonstrator by the end of year. The documentation will include a description of the work undertaken and a video of the demonstrator.
- The team has been progressing the Part 500 and 520 standards documents.
- The team has continued discussions on the “meta data” topic both within the MBSE WG and with other WGs. Actions and next steps agreed at joint meeting held during Q4 workshop.
- The Q4 Workshop was well attended with four 1.5-hour sessions held that contained a mixture of “progress tasks” and technical presentations. The latter included presentations from Siemens EDA, Modelica Organisation, AVSI AFE86 and The Reuse Company
- The team has continued to socialize the WG. In the last three months updates have been provided to the NAFEMS SDM & SMS working groups and an overview of MBSE standards was given to AIA

CAX-IF

The 47th round of CAX-IF testing was successfully launched with 12 vendors attending the online meeting of the CAX-IF implementor group:

- Six test cases were reviewed with capabilities for PMI, Kinematics, Composites, User Defined Properties and Parameters, and Persistent IDs.
- Representatives from Audi joined to introduce the new Kinematics test model and present the related pilot project done at Audi. This model will be tested in conjunction with the JT-IF.
- During a joint session with the CAX-IF user group, current acceptance tests were discussed as well as workflow and further requirements.
- Recent STEP File Analyzer enhancements were presented along with near term future extensions.

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