

## Summary of the LOTAR International Workshop 2 – 5 June 2020 – On-Line

### **Summary:**

The June 2020 LOTAR workshop was very well attended by more than 40 participants in total, including several new team members. Below are the highlights of the meeting.

### **Project management:**

- The 2020 LOTAR International budget plan was consolidated with the planned contracts to service providers.
- The draft 2021 LOTAR project and budget plans were prepared, with the provisional list of Aerospace and Defense members.
- A presentation was given during the LOTAR workshop, describing the current progress for the MBx Interoperability Forum, currently made up of the [CAx-IF](#), [EWIS-IF](#), and [CAE-IF](#), which include associated User Groups and Implementor Groups.
  - A MOU between AFNeT, PDES, Inc. and prostep ivip for the MBx-IF has not yet been signed and this topic has been raised to the PDES, Inc. board.
  - During the last three months, EWIS-IF activities have been focused on the preparation of AP242 ed2 Technical Corrigendum for electrical wiring harness, and preparation of the test case for the Test Round 2, starting in September 2020.
  - Successful CAx-IF meetings were held in March with 16 participants from 10 vendor companies. The main goal was to launch the 46th round of CAX testing, including scenarios for PMI, Composites, Kinematics and downstream exchange with Inspection and Manufacturing. Technical topics discussed included: datum system uniqueness, annotation placeholder and non-coplanar leader lines, and management of supplemental geometry in saved views. The CAx-IF recently published documents:
    - CAx-IF Round 46J Test Suite (public),
    - Different recommended Practices: - for Model Styling and Organization, v1.8 (public), - for Persistent IDs for Design Iteration and Downstream Exchange, v0.5 (internal draft), - for Representation and Presentation of Product Manufacturing Information (PMI) (AP242), v4.0.8 (internal draft)
- The team drafted a new LOTAR meeting schedule for 2021 with a plan for 2 online meetings and 2 face to face meetings, one in Europe and one in the USA. The schedule has not yet been decided. LOTAR will be working with the appropriate associations' focal points to support the logistics, (Hotels contracts, locations etc.).
- Due to numerous Boeing retirements, LOTAR leadership positions and participants will be changing:
  - Rick Zuray has retired from Boeing after many years as the Americas co-leader. We would like to thank him for his tireless commitment to this long-term effort.
  - Jeff Klein (Boeing) will be the new Americas LOTAR leader, as well as co-lead the Basic and Common Parts WG.
  - Stuart Galt (Boeing) joins the project and will be the new LOTAR Mechanical WG co leader
  - John van Horn (Boeing) also joins and will be the new LOTAR Composites co leader
  - Tom Bluhm is also retiring from Boeing. We would like to thank him for many years contributing in the Electrical WG and in the coordination of the development of AP242 ed 2 and AP239 ed 3.
- The new version of the LOTAR International public website was developed and is now on-line.
- Regarding MOSSEC, the ISO has accepted the 9 months extension for DIS due to the COVID-19 situation.
- The group prepared an update of the LOTAR 5-year roadmap.
- The next LOTAR workshop will also be held online, 8 – 11 September.

## **WG “LOTAR Mechanical and PMI” (Parts 1XX)**

- Work continued on the follow-up of semantic PMI gap analysis in coordination with AP242 PMI team.
- The WG worked on the recommended practices related to LOTAR Part 132 "Structural joins for assembly & installation".
- The team met with the CAx Interoperability Forum (Implementor group and user group) to discuss requirements and priorities.

## **WG “LOTAR Product Data Management” (Parts 2XX)**

- A strategy was discussed for Functional Architecture and Meta Data and future ways of working with the OAIS group on development of an Interoperability Framework.
- Developed changes to the Website pages and provided to Jochen Boy for update.
- Discussed the 5-year roadmap updates (further discussion required).
- Reviewed drafts of parts 210 and 230 – discussions focused on definition and understanding of instance versus occurrence and different types of occurrence in the context of the PDM IF recommended practices documents.
- Discussed the need to continue working sessions with other LOTAR groups to better integrate and establish a common understanding of requirements and relationships between the standards documents and common solutions through STEP development.
- Continued to expand efforts to work with PDM-IF and MBx-IF on validation of solutions using STEP.

## **WG “LOTAR of Electrical Wiring Harness” (Parts 4XX)**

- Requirements were developed by the workgroup for the EWIS IF User Group.
- The LOTAR 5 year roadmap for the LOTAR P4XX domain was updated.
- Updates for the LOTAR Electrical Wiring Harness group webpage were developed.
- Status of ongoing LOTAR Electrical AP242 ed2 pilots with Datakit and CoreTechnologie were made:
  - Short presentation of the AP242 ed2 XML including the wire list from NX by Datakit,
  - Progress of Catia V5 => AP242 Elec Harness interface by CT CoreTechnologie.

## **WG “LOTAR of Model Based Systems Engineering” (Parts 5XX)**

- The main focus of work has been in standards creation. Internal draft versions of Parts 500 and 520 have been developed, reviewed within the team and actions created to progress.
- Close to completing a SOW for a Part 520 use case (to be supported by Modelon).
- The team has continued to work on the mapping between the proposed Boeing manifest (BOE-MIC) and AP243.
- The team has been developing models that will be released as part of the Model Based Engineering Demonstrator Reference Models. Currently awaiting confirmation to publish.
- Progress has been made on understanding of what needs to be in a manifest and what needs to be in an AIP.
- The workshop was well attended including a new member, Raytheon.

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