

Summary of the LOTAR PDES Offsite Workshop 17 - 21 September 2023

The Q3 2023 LOTAR workshop was held in conjunction with the “Global Product Data Interoperability Summit” (GPDIS) in Phoenix, AZ, USA. The events were well-attended, by over 300 people on-site and additional online participants. The highlights of the meetings included:

Meeting Dates

- 2023:
 - 4th Qtr. Workshop: 27-30 November 2023; Online Meeting
 - All meetings in conjunction with MBx-IF Workshop
- 2024:
 - 11-15 March 2024 Darmstadt (prostep ivip)
 - 17-21 June 2024 (preferred), or 10-14 June; Online (PDES, Inc.)
 - September 2024; exact date and location tbd, USA (PDES, Inc.)
 - 2-6 December 2024; Online (prostep ivip)
- For related dates, also see <https://lotar-international.org/dates-communication/>

General Sessions

- Brian Chiesi, General Manager of PDES, Inc. welcomed the participants and discussed the joint event details.
- MoSSEC Implementor Forum (IF)
 - MoSSEC was discussed under the MBSE domain. MoSSEC uses a web service-based approach. Eventual goal is to integrate with the MBx-IF using web services as the mechanism for exchange.
 - Potential participants were discussed, but no solid confirmations available yet. The goal is to start the IF at the end of the year.
- Summary of ISO TC 184 SC4 activities
 - A key highlight was the start of an ad-hoc working group for UUIDs and how to utilize that in digital manufacturing (AP238 tie).
 - QIF – No work item was presented. Future discussions should include any harmonization, use of geometric validation properties, and other items to assure alignment between the standards.
- LOTAR 101 presentation was provided during the GPDIS Standards track.

WG “LOTAR 3D Mechanical CAD and PMI” (Parts 1xx)

- Joint session between LOTAR 3D mechanical and CAx-IF where sheet metal and welding requirements were discussed.
- Joint session with MBx-IF for External Element Reference discussions.
- Launch of the Assembly with PMI pilot 2 based on AP242 Edition 4.
- Continued review of LOTAR part documents such as Part 115.

WG “LOTAR Product Data Management” (Parts 2xx)

- prEN and NAS versions of 9300-210 were made ready for publication.
- Statement of Work in progress for Part 230 mapping of conceptual model to STEP.
- Continued progress with 9300-230 revision – focused on “As-Maintained”.
- Reviewed use cases for the PDM-IF.

WG “LOTAR Composites and Advanced Manufacturing” (Parts 3xx)

- Evaluated composite use cases and content in Redmine and Jira
- Discussed changes and extensions to the Composites Recommended Practices document

WG “LOTAR of Electrical Wiring Harness” (Parts 4xx)

- Developed Complete list of AP242 Ed. 4 Issues
- Identified next Use Cases: Over Braid continuity, Watertight connectors

WG “LOTAR of Model Based Systems Engineering” (Parts 5xx)

- Identified Part 500 (general MBSE) remaining issues (3) for publication.
- Defined scope of MoSSEC IF and relationship with MBSE.
- Reviewed Statement of Work for University Charles III. in Madrid, and Modelon, and identified integration points.
- Dassault Systèmes gave a presentation on eFMI.
- Modelon provided a Model Search presentation.

Summary of the CAx-IF meetings

The CAx-IF held another highly successful set of meetings. Some of the highlights were:

- Good attendance with 10 out of 12 vendors present.
- Great exchange with the CAx-IF User Group and various LOTAR teams.
- Input from additional subject-matter experts.
- Detailed analysis of the Round 52J results and identification of issues to be improved in STEP translators and Recommended Practices.
- In-depth review of technical topics:
 - Material Properties,
 - External Element References,
 - Kinematics,
 - PMI at the Assembly Level.
- Collaborative process with STEP standards developers.
- Determination of scope and schedule for Round 53J, which will end in March 2024.
- The MBx-IF Roundtable was open to the GPDIS attendees. 50 people on site and another 30 online made for a larger-than-usual audience. Topics covered were:
 - What is the MBx-IF and what does it do?
 - Joint User Group meeting highlights
 - CAx-IF Implementor Group Round 52J testing results
 - CAx-IF User group highlights
 - EWIS-IF overview
 - PDM-IF focus areas
 - STEP Vendor product updates