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/](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.
- 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