

Summary of the LOTAR Workshop held in Seattle, WA, USA 16-19 September 2025

The Q3 2025 LOTAR workshop was a hybrid, face-to-face and online, event. It was well attended by around 40 attendees onsite, plus more than 20 remote participants. Highlights of the meeting included:

2025/2026 Meeting Dates

- 1-4 December 2025; online (prostep ivip)
- 23-27 March 2026; Charleston, SC, USA (PDES Inc.)
- 23-25 June 2026; online (PDES, Inc.)
- 28 September - 2 October 2026; Frankfurt Area, Germany (prostep ivip)
- 1-3 December; online (prostep ivip)
- For related dates, also see <https://lotar-international.org/dates-communication/>

General Sessions

- New PDES members welcome:
 - Istari Digital
 - Naval Shipbuilding Advanced Manufacturing Center
 - nVariate
- The Engineering Analysis & Simulation (EAS) WG is still on hold. A presentation was given at GPDIS to gain interest from industry.

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

- The team supports the “Holes & Fastener Modernization” held by Integration Forum, which brings together activities in LOTAR, ISO, ASME, and the Interoperability Forums.
- Intelligent Notes and Symbols - Preliminary data dive to set sequence & effort
- Discussed progress on Persistent IDs
- CAx Implementor and User joint review
- Guest-led sessions
 - Catena-X
 - STEP AP242 Edition 5

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

- Release of EN/NAS 9300-210
- Completed draft of 9300-230 and submitted, currently in internal ballot
- Completed draft of 9300-205 and submitted, ready for external ballot
- Reviewed 9300-021 and will be providing comments
- Met with EWIS Team to align common parts of 2xx and P400
- Met with MBSE WG to discuss integration of -021/-500/-230

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

- LOTAR Part 300 submitted for internal ballot.

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

- Presentation of AP242 Edition 4 Electrical Wire Harness (EWS) Tutorial.
- The team held meetings on part 400. Due to resources and conflicting company projects, the WG had not met for several months.

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

- AIA / ASD P500 review - COMPLETE
- Addressed comments from other LOTAR domains e.g. between P500, P021, P230
- Delivered white paper to the Modelica conference
- Published INCOSE insight article on Digital Engineering Standards
- MIC-core – LOTAR manifest mapping & integration
- MBSE-integration forum charter in progress for IW2026
- Defined integration stack of interoperability standards
- LOTAR and CASCARA SOWs: kicked off and in work
- Agreed on the need for an Architecture Description Framework (ISO 42010), in relationship with SAE S-19
- Multiple presentations: QIF, INCOSE Wildfire project, design assurance, model soup INCOSE lab modeling

Summary of the CAx-IF meetings

The CAx-IF Implementor Group had 3 highly successful days of meetings. The following topics were discussed:

- Round 56J testing results review
- Joint meetings with CAx-IF User Group and LOTAR teams
- Review of a wide variety of technical topics
- Recommended Practices updates for AP242 Edition 4
- Updates to NIST's STEP File Analyzer
- The scope for Round 57J, which will end in March 2026, has been set as:
 - Product & Manufacturing Information – Move to assembly-level PMI
 - Composite Materials – scope based on user requirements
 - Persistent Identifiers – for design exchange and downstream collaboration
 - Kinematic Mechanism – extend scope using Unit Test Cases
 - Material assignment and properties
 - Smart notes and intelligent models

The MBx-IF User/Vendor Roundtable was held on Friday, 19 September. Approximately 25 people were present in Seattle, and 30 more online. The following updates were provided:

- CAx-IF Implementor Group and User Group
- EWIS-IF Implementor and User Groups
- PDM-IF Implementor and User Groups
- STEP File Analyzer & NIST Update
- MBx-IF Joint Topics – Persistent IDs, Fasteners, Material properties
- STEP Vendor Updates – 9 Vendors