

## Summary of the LOTAR Workshop held in North Charleston, SC 23 – 27 March 2026

The Q1 2026 LOTAR workshop was a well-attended hybrid face-to-face and online event with around 40 attendees onsite, plus more than 20 online. Highlights of the meeting included:

### **2026 Meeting Dates**

- 23-27 March 2026; Charleston, SC, USA (PDES Inc.)
- 22-26 June 2026; online (PDES, Inc.)
- 28 September - 1 October 2026; Frankfurt, Germany (prostep ivip)
  - In conjunction with “Engineering Interoperability Day”, combining STEP & JT communities.
- 30 November - 4 December 2026; online (prostep ivip)
- Q1 2027 meeting proposed for Reston, VA to coincide with OMG meeting
- Q3 2027 meeting proposed for UK
- For related dates, also see <https://lotar-international.org/dates-communication/>

### **General Sessions**

- New PDES members welcome:
  - US Air Force, Northrop Grumman, US Navy
- Discussed scheduling a meeting with sponsoring organizations to finalize the charter updates.
  - Updates include the tools used to manage content, relationship with Interoperability Forums and similar organizations, funding and membership responsibilities, etc.
- Discussed the need to collaborate with the multiple organizations involved in MBSE standards
- Discussed ways to engage and train people new to LOTAR and STEP

### **Combined WG “LOTAR 3D Mechanical CAD and PMI” (Parts 1xx) and “LOTAR Composites and Advanced Manufacturing” (Parts 3xx)**

- AP242 Ed. 5 review of 3D mechanical topics of interest
- CAx Implementor and User group session
  - Backlog review and priority rankings
  - Review of sheet metal feature group
  - Persistent ID project alignment and next steps
  - Intelligent symbols Use Case development
  - Screw Thread recommended practice development

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

- Internal ballot comments resolved for 9300-230, ready for external ballot
- Spent most of the workshop on review and markup of 9300-200 ed 2
- External ballot has completed for 9300-205
- Met with EWIS Team:
  - Discuss effort for cross domain use case and data set around topology
  - Shared and discussed concerns around preservation of supplier designs
- Attended sessions with MBSE WG on SysML V2.

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

- Determined approach to leverage PLM data in wire harness exchange using 3DX and Teamcenter one product models.
- Joint Session with PDM – To determine interest in exchanging electrical BOM data within PDM-IF, e.g. topology data.
- AP242 Ed. 5 work reviewed

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

- LOTAR MBSE mood board for each LOTAR MBSE part
  - P500 (general MBSE): ready final external AIA external ballot
  - P520 (behavior models): SOW ready to launch, document outline and summary
  - P550 (Links): Connected with CASCaRA
- Presented P550 prototype deliverable (UC3), defined next action items.
- LOTAR MBSE and CASCaRA alignment within OMG with Reusable Asset Specification (RAS)
- Defined 4 quadrant chart for PDES MBSE integration forum project incl. two priorities:
  - Integration stack of interoperability standards and agreement with ASD
  - Digital Data Package (CASCaRA) alignment with Persistent ID project

## **Summary of the CAX-IF Meetings**

During three engaging and productive days, the CAX-IF Implementor Group covered:

- Round 57J 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 new capabilities, including Cross-Domain Exchange
- The scope for Round 58J, which will end in September 2026, has been set as:
  - Product & Manufacturing Information – Move to assembly-level PMI with STEP Part 21.
  - 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, including Bill of Operational Features

The MBx-IF User/Vendor Roundtable was held on Friday, 27 March 2026. The meeting was very well attended with approximately 25 people present in North Charleston and 30 more online. The following updates were provided:

- CAX-IF Implementor Group and User Group
- EWIS-IF Implementor and User Group
- PDM-IF Implementor and User Group
- MBx-IF Joint Topics
  - Persistent IDs & Intelligent Notes
  - Fasteners & Screw Threads
  - Security Classification & Export Control
- STEP Vendor Updates – 10 Vendors