Summary of the Q4 LOTAR Online Workshop
1-4 Dec 2025

The Q4 2025 LOTAR workshop was a virtual event. It was well attended, by around 40 participants. The highlights of the meetings included:

2026 Meeting Dates

- 23-27 March 2026; North Charleston, SC, USA; In conjunction with MBx-IF
- 23-25 June 2026; Online Meeting
- 28 September – 1 October 2026; Frankfurt, Germany; in conjunction with MBx-IF and STEP AP242 Day
- 1-3 December 2026; Online Meeting

For related dates, also see https://lotar-international.org/dates-communication/

General Sessions

- Reviewed the plan for AP242 Ed. 5
- Discussed rebranding of LOTAR to include the near-term business benefits, in addition to regulatory compliance
- There is a new SAE S19 committee on digital engineering which may overlap with LOTAR and MBX-IF work.
    - Concern raised about coordinating development of data format requirements because FAA often uses SAE publications as reference in rule making.

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

- AP242 Ed.5 review of 3D mechanical topics of interest.
- Continued work on LOTAR Mechanical and Composite documents.
- Joint CAx IF User group / Implementor group session, reviewing and updating requirements and related implementation progress.

WG "LOTAR Product Lifecycle Management" (Parts 2xx)

- PLM workgroup made significant progress towards the development of EN/NAS 9300-200 Edition 2.
    - Each section is being revisited for modernization and requirement identification similar to EN/NAS 9300-002 and -021.
    - Identified requirements are being put into explicit tables, along with unique identifiers for referencing.
    - Diagrams and terms are being updated.
    - A new Annex has been created to define common required metadata.
    - Looking forward, -200 draft will continue to be developed, and planning will start for 9300-240 "In Development" Product Data.

WG "LOTAR Composites" (Parts 3xx)

- Composite Part 300 document confirmed ready for external ballot.

WG "LOTAR of Electrical Wiring Harness" (Parts 4xx)

- No LOTAR work due to lack of availability of key resources.
- Plan is to restart LOTAR working meetings Q1 2026.

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

- Completed AIA / ASD review of LOTAR Part 500.
- Addressed comments from other LOTAR domains e.g. between Parts 500, 021, and 230.
- 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: On Track for RFP December OMG Meeting.
- Agreed on the need for an Architecture Description Framework (ISO 42010), in relationship with SAE S-19. This is a prerequisite for P530.
- Multiple presentations: QIF, INCOSE Wildfire project, design assurance, model soup INCOSE lab modeling.

Summary of the CAx-IF meetings

The CAx-IF Implementor Group (IG) launched its 57th round of testing on Wednesday, 3 December. 30 people participated with 20 organizations being represented. The following topics were covered:

- The Round 57J Test Suite, the scope of which includes:
  - Assembly-level PMI using STEP AP242 XML
  - Composite Material – Extended scope to close several User Stories
  - Kinematic Mechanism – Extended scope
  - Semantic & Graphic PMI at Part level
  - Hole Features
  - Persistent IDs – Extended scope
  - Material Identification Assignment and Properties – New topic
- STEP File Analyzer updates
- Updates to Recommended Practices
- Various technical topics:
  - Advancements for Persistent IDs
  - Data & Security Classification
- Dates, locations, and preparations for upcoming meetings

The CAx-IF IG met jointly with the User Group. The following topics were discussed:

- User Group Backlog, including new and updated User Stories
- Use Cases for Assembly PMI
- Next steps following the MBx-IF Viewer Survey completed in Spring 2025