

Summary of the virtual LOTAR Workshop 17 - 20 June 2024

The Q2 2024 LOTAR workshop was an entirely on-line event. It was well-attended, by around 30 participants. The highlights of the meetings included:

2024 Meeting Dates

- 11-14 March 2024 Darmstadt (prostep ivip)
- 17-20 June 2024; On-line (PDES, Inc.)
- 16-20 September 2024; Phoenix, AZ, USA (PDES, Inc.)
- 2-6 December 2024; On-line (prostep ivip)
- All meetings will be in conjunction with MBx-IF Workshop

2025 Meeting Dates

- 10-13 March 2025 in Hamburg (prostep ivip)
- 23-26 June 2025, online (PDES, Inc.)
- Mid of September 2025, Location TBD, USA (PDES, Inc.)
- 1-4 December 2025, online (prostep ivip)
- All meetings will be in conjunction with MBx-IF Workshop

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

Discussion to switch back from 2026 to spring meeting in North America and fall meeting in Europe.

General Sessions

- Discussion about European and US budget how to compensate for fewer participants. Loss of Airbus Helicopters. Lockheed Martin to provide contact for potential new member. Discussion about EASA & FAA involvement and also US Air Force & Navy.

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

- Scope definition for the third pilot of assembly PMI based on AP242 XML in support of part 126.
- Reviewed Part 110 for update as part of the “five- year” cycle. Significant effort to bring the part in alignment with current parts.

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

- The ballot of the Part 210 from ASD and AIA will be completed end of July.
- Final review of the Technical Specification for the Product Structure Validation Property, the document is now ready to be “converted” as Part 205. Ready for internal ballot.
- Continuing progress on Part 230 including mapping to P4000 Core Model.

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

- Reviewed and worked on draft of initial release of Part 300.
- Reviewed and updated priorities for AP242 development
- Developed draft figure for “CAD Generations” relative to composite data sets

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

- Continued work on initial release of 9300 parts 400 and 410. Expect 400 to be ready for internal ballot by September.
- Started identifying content for 10303 AP242 e5.

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

- Planned for GPDIS MBSE Workshop and MBSE track
- Discussed industry challenges for MBSE exchange and preservation.
- Reviewed comments on LOTAR P500 from SAE PDM committee, discussed changes to P500 use cases.
- Presentations from Collaborators: CASCaDE (Uwe Kaufmann) and DEIX (Celia Tseng and Terri Chang)
- Very close collaboration ongoing between LOTAR MBSE team and OMG CASCaDE team

Summary of the CAX-IF meetings

The CAX-IF IG kicked off its 54th round of testing on Wednesday, June 19. 21 people participated with 13 organizations being represented. The following topics were covered:

- The new and improved MBx-IF web pages (<https://www.mbx-if.org/home/>)
- Dates, locations, and preparations for upcoming meetings
- The Round 54J Test Suite, the scope of which includes:
 - Composite Material
 - Kinematic Mechanism – New test models
 - Semantic & Graphic PMI – New test models
 - Hole Features – New test model
 - Material Identification
 - Persistent IDs – New test models
- STEP File Analyzer updates
- Updated Recommended Practices documents
- Various technical topics:
 - Draft AP242 EXPRESS schema including new entity types for review
 - Saved View with Multiple Clipping Planes
 - Geometry to be displayed by a Saved view

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

- User Group Backlog, and revised process for creating User Stories
- Status of IG work related to UG Backlog
- Preserving relationships between parameters controlling features and resulting PMI
- Material designation