Summary of the LOTAR Workshop held in Frankfurt, Germany, in conjunction with Engineering Interoperability Day

28 September – 1 October 2026

The Q3 2026 LOTAR workshop was a well-attended hybrid face-to-face and online event with around 35 attendees onsite, plus more than 20 online. Highlights of the meeting included:

2027 Meeting Dates

- 16-19 March 2027 Reston, VA, USA – planned joined session with OMG Q1 Technical WS
- 22-24 June 2027 - Online
- 21-23 September 2027 – Frankfurt, Germany
- 30 November - 2 December 2027 - Online
- For related dates, also see https://lotar-international.org/dates-communication/

General Sessions

- On-site participation by ASD-STAN greatly helped with LOTAR document publication process,
- Discussion with sponsoring organizations to finalize the project 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, e.g., NAFEMS for Modeling & Simulation

Engineering Interoperability Day

- Combining the LOTAR, MBx-IF and JT project meetings into one week enabled many international participants to attend on site who would not have gotten approval to travel any one event by itself.



- Agenda was recognized as “full, but not overloaded” and alternating between user, vendor, and project presentations worked well.
- Members of each community (STEP / JT) appreciated insights into the other:
    - Many companies use both JT and STEP
    - Many technical topics overlap
    - User requirements are largely identical regardless of format

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    - Collaboration between working groups becomes easier
- The next Engineering Interoperability Day is currently being planned in 2028.

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

- ASME MBE 3.0 Standard Architecture presentation
- Review Comments for Part 300 Composites Standards
- Discuss scope for future Part 126 (Assembly Semantic PMI) and Part 132 (Structural Joints & Fasteners)
- PMI for AP242 next editions: model-based notes, sheet metal, surface texture for ISO 21920
- Extension CAx-IF Persistent ID scenarios

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

- Digital signatures as a requirement for aerospace (FAA 8100.15C) – how to potentially manage digital certificates, cryptography, and expiration dates.
- Planning for new EN/NAS 9300-240 “Product Development”.
- Planning next changes and revisions to the 9300-210 / -230 Edition 2.
- Joint session with Electrical WG and MBSE WG: Need for a dataset to work on a Part 550 prototype "links between the content information of domains archive package" - publications mechanism, high level ontology for the common working groups concepts.

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

- Worked with PDM to identify common practices that should be worked on together, e.g., occurrence properties
- Defined requirement to archive topology from ECAD and the remainder of the package from PLM.
- Supported AP242 Ed.5 use case and test development.

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

- Part 500 approved and published by AIA and ASD-Stan
- Reviewed progress on Part 520
- Defined prototype with PLM WG and Electrical WG for Part 550 (Links).
- Reviewed OMG CASCaRA Progress and presented Statement of Work for University of Madrid
- Discussed NAFEMS – LOTAR interaction, visibility + opportunity for FEM
- Held Istari zero-trust ecosystem presentation and discussion about overlap with Dataspaces
- Reviewed INCOSE Digital Engineering standards database project

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Summary of the CAx-IF Meetings

The CAx-IF Implementor Group had 3 highly successful days of meetings. Attendance was above average with nine vendors on site and two more online. The following topics were discussed:

- Round 58J 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 various topics
- The scope for Round 59J, which will end in March 2027, has been set as:
    - Product & Manufacturing Information – Part-level and assembly-level PMI
    - Composite Materials – scope based on user requirements
    - Persistent Identifiers – for design iteration and cross-domain exchange, including new “repair” scenario
    - Kinematic Mechanism – extend scope using Unit Test Cases
    - Material designation and related properties
    - Bill of Operational Features
    - Smart notes and intelligent models
- The usual MBx-IF Roundtable was split in half, with the joint technical topics being presented during the Closing Plenary on Wednesday, and the vendor updates as part of the Engineering Interoperability Day.

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