

LOTAR

Tasks

LOTAR is a project group managed under the AIA, ASD-Stan, PDES, Inc. and ProSTEP iViP consortium. Goal is to develop, test, pilot, publish and maintain standards designed to provide the capability to archive and retrieve digital product and technical information, including CAD, PDM, Composite Design, Electrical Harness and 3D Visualization data, in a standard form that can be read and reused throughout the product lifecycle, independent of changes in the IT application environment originally used for creation. The multi-part standard covers information content as well as processes required to ingest, store, administer, manage and access the information. It is published as EN/NAS-9300.

Milestones 2014

The group completed several parts of the LOTAR standard, including “Governance & Plan-ning” (020), “CAD 3D Geometry” (110 Edition 2) and “PDM Fundamentals & Concepts” (200). The Visualization team published requirements and a compliance matrix for visualization data. The project continued the monitoring of consistency of LOTAR standards with related ISO standards and associated implementer forums.

A new workgroup “Engineering Analysis and Simulation” (EAS) was prepared by a core team. The corresponding New Work Item was accepted by LOTAR membership and the new domain officially launched at the December workshop. The main result of this new team will be the Part 6xx family of the LOTAR standard.

Outlook 2015

The PMI team plans to finish the parts for “CAD 3D with Tessellated PMI Presentation” and “Semantic PMI Representation”. The PDM workgroup will extend the scope of Part 210 to cover effectivity and variant management. LOTAR supports the setup of the AP239 Edition 3 project and the PDM-IF, which are important foundations for this workgroup. The Visualization team will complete the internal review of ISO visualization standards. The new EAS workgroup will focus on Finite Element Analysis and Computational Fluid Dynamics. The Electrical Harness team will prepare test cases and support proof of concepts for AP242 Edition 2. The Composite workgroup will facilitate pilots for 3D tessellated plies.

Participants

Europe

Airbus Commercial, Airbus Defense & Space, Airbus Helicopter, Dassault Aviation, IAI (Israel Aerospace Industries), SAFRAN

Americas

BAE Systems, Boeing, Embraer, GE, Goodrich, Gulfstream, Honeywell, Lockheed Martin, Rockwell Collins, Sandia National Labs

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