LOTAR

The LOTAR International Project is a working group managed under the AIA, PDES Inc., ASD-STAN and ProSTEP iViP consortium. The project goal is to develop, publish and maintain standards designed to provide the capability to archive and retrieve digital product and technical information, including 3D CAD, PDM, and technical data, in a neutral 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 both the information content and the processes required to ingest, store, administer, manage and access the information.

Tasks

LOTAR is a project group managed under the AIA, ASD-Stan, PDES Inc. and ProSTEP iViP consortium. The project 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 the information content as well as the processes required to ingest, store, administer, manage and access the information. It is published as EN/NAS-9300.

Milestones 2013

Major milestones in 2013 were the publication of EN/NAS 9300-120 "3D CAD with PMI Polyline Presentation", and the completion of parts 020 "Governance & Planning" and 200 "PDM Fundamentals & Concepts" for external ballot by AIA and ASD. LOTAR also provided substantial funding to the harmonization of STEP AP242 and AP239/PLCS for PDM.

All six currently active LOTAR workgroups made significant progress in their respective work scope. Hence, a growing number of related standards are being reviewed for consistency.

The LOTAR Standard is increasingly utilized in Aerospace & Defense programs, supported by recommendations for use by the A&D industry associations. The project welcomed Rockwell Collins as new member.

Outlook 2014

The project plans to publish Parts 020 and 200 (see above) and will start the work on new editions of the geometry-related documents to include the tessellated geometry data model supported by AP242.

Much attention will be given to supporting and coordinating with new and existing standardization activities, including the extension of AP242 Ed. 2 for Electrical Harness, the setup of a PDM Implementor Forum, and investigation of the new version of OAIS (Open Archive In-formation System), which is one of the foundations of the LOTAR standard.

The project will assess the requirements, benefits and efforts for long-term archiving of Simulation data with the goal to launch a new workgroup in 2015

Participants

Europe :

Airbus, Cassidian, Dassault Aviation, Eurocopter, IAI (Israel Aerospace Industries), SAFRAN Labinal

Americas :

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

Chairmen:

Europe
Jean-Yves Delaunay
Airbus
jean-yves.delaunay@airbus.com

Americas
Rick Zuray
Boeing
richard.s.zuray@boeing.com

Project Coordinators:

Europe
Jochen Boy
ProSTEP iViP
jochen.boy@prostep.com

Americas
Jeff Holmlund
Lockheed Martin Aeronautics
jeffrey.a.holmlund@lmco.com