Summary of the LOTAR International Workshop

December 3rd to 5th, 2013 – ProSTEP iViP, Darmstadt, Germany

There were approximately 23 on-site participants plus an additional 15 participants via teleconference. There was a parallel meeting with the CAx Implementor Forum.

Project Management

- Final review and closure of the 2013 LOTAR budget plan with the contracts to service providers.

- Confirmation of the list of A&D members for 2014; finalized 2014 LOTAR project and budget plans, and formal approval by a vote of the LOTAR active members.

- Review of the updates of the LOTAR public web site, new web page referencing the recommendations for the LOTAR standards by the AIA EEIC and ASD SSG organizations.

- Summary of the STEP AP 242 edition 1 project to the LOTAR team: planning of finalization of AP 242 ed1 IS documentation for mid of January 2014, then sending to ISO for publication (3 months).

- Report on the preparation of STEP AP 242 edition 2 white paper, draft version distributed on the 1st of December. Ongoing receptions of answers to the questionnaires allowing prioritizing the enhancements for AP 242 ed2. Main planned extension: electrical design. Target to finalize the white paper end Jan. 2014.

- Status of preparation of the PDM Implementer Forum white paper: decrease of effort in Q4 2013, planned restart to prepare a consolidated white paper for review during the next March 2014 PDES, Inc. offsite.

- Presentation by the CNES of the status of CCSDS activities related to OAIS ("Open Archive Information System") standard: - PAIS ("Producer Archive Interface Specification"): formal specification for the SIP ("Submission Information Package"), - Audit and certification (start in Jan 2014, planned CCSDS standard mid 2016), - Preservation workflow.

- Preparation of a basic usage guide, aiming at helping new companies to implement LOTAR compliant archive systems.

- Presentation of the status of STEP standards for machining form features by Datakit.

- Launch for joint AIA and ASD Stan ballots in Q1 2014 of the part 200 "Common Concepts for Long term Archiving and Retrieval of Product Structure Information" and of the part 20 "Governance and Preservation Planning".

- Preparation of a NWI for LT Archiving of simulation data for the next March 2014 LOTAR workshop.

- Presentation of the STEP viewer activities managed by the ASD SSG "mechanical interoperability" WG.

- Continuation of the management of consistency between the LOTAR standards, the associated ISO 10303 STEP standards / recommended practices for product information models, and their implementer forums.

- Next LOTAR workshop: 9th – 12th of March 2014, in Gaithersburg, USA, hosted by NIST and PDES Inc.

"CAD 3D PMI" Workgroup (Part Family 1xx (Part 120, Part 125))

- Updated PMI WG Website to include new Part names and accomplishments.

- Part 110 E2 New Work Item (NWI) paperwork has been completed. Purpose of the new edition is to add independent faces and curves for precise geometry, and tessellated geometry, to the scope of the first edition which covers precise solids only. The target for completion of the work is December 2014.

- Part 110 E2 New Work Item (NWI) paperwork was started. The purpose is to extend the scope of P120e1 (Polyline Presentation) with Tessellated Presentation for PMI. The target for completion of this effort has not yet been determined.

- AP242e2 requirements specific to PMI were discussed. The phase 1 models from the NIST MBE PMI project are mainly supported today; the phase 2 models will help to support AP242 Ed. 2. Fully-toleranced test cases (FTC) are currently being worked on and might be available until the March workshop.

- Report out from solution providers during joint PMI/CAX-IF meeting.

"PDM" Workgroup (Part Family 2xx)

- Presentation by the Darmstadt University of an evaluation of model based publishing environment.

- Review of the requirement matrix for the tracking of requirements from the Part200 to the Part210.

- Proposition for a risk reduction regarding the use of PLCSLib PSM – AP239: force the archiving of the DEX in PSM plus a mapping to the AP239 ISO standard to be able to read it again in the future even if PSM is no more supported.

- Part 210 edition 2: Identification of the need to expand the existing use cases and to detail some concepts like effectivity, variants and change. The agreement is to skip the publication of the Part210 edition 1 to publish a complete version of the Part210.

- Meta data for archive package: Jeff Klein as new co-leader. Decision to have a regular timeslot during the PDM WG phone call. The metadata list will be distributed for review. Due to the dependency on archive architecture and services, the availability of the functional architecture becomes increasingly important.

"Composites" Workgroup (Part Family 3xx)

- Limited activities done; the main work was the contributions to the AP 242 edition 2 white paper for the extension of some specific Composite design PMI entities, not included in the ED1.

"Electrical Harness" Workgroup (Part Family 4xx)

- Continuation of the enhancement of the draft document describing the list of essential information to be preserved for physical electrical harness definition for design and construction.

- Information about the planning of VDA VEC 1.1, planned to be published in Q1 2014.

- Continuation of the preparation of AP 242 ed2 extension to electrical harness to support the requirements of LOTAR "Harness" WG. LT Archiving of wiring diagram semantic is a medium priority for the LOTAR WG: due to funding limitations, functionality not part of the STEP AP 242 edition 2 white paper.

- Preparation of the LOTAR meeting with ProSTEP iViP on the 5th of Dec. for the status of support of associations for STEP AP 242 edition 2 project.

- Joint meeting between the "Electrical Harness" WG and the "Visualization" WG.

- Preparation of the next actions for Q1 2014

"3D Visualization" Workgroup

There was no specific session for the 3D visualization working group. The use cases of the archival & the retrieval of the visualization data and the requirements of the archival & the retrieval of the visualization data was presented to the:

- PMI working group,

- PDM working group,

- Electrical harness working group.