

## Summary of the LOTAR International Workshop

**March 19-21, 2012 – Gaithersburg, MD**

42 participants, + 11 persons via teleconference for a total of 53 attendees.

Parallel meeting with the CAx Implementor Forum on March 21.

### Project management

- Budget status review: US working to align contract numbers to Statement of Work (SOW) and payments. Finalized AP239/242 harmonization SOW.
- Status of the STEP AP 242 ed1 project: - discussion on need for harmonization with other modular APs. Should incorporate what it needs from APs like AP209 etc. AP242 WS is planned for June in Toulouse.
- Reviewed Stop Light Chart: Need to secure a leader for Part 006 “Functional Architecture”. Sean Barker to be gate keeper for terminology inputs for various WGs. Part 020 “Governance & Planning to be balloted with Part 120 E1.
- Preparation of a liaison between the LOTAR project and ISO TC 171 for LOTAR of 3D light visualization.
- CAx-IF Requirements: Discussed actions related to LOTAR requirements and agreed on next steps.
- Next LOTAR workshop: 26<sup>th</sup> – 28<sup>th</sup> of June following the AP242 Ballot Resolution Workshop (WS) in Toulouse, FR hosted by Airbus.
- Continuation of the management of the consistency of the LOATR standards with related ISO and Industry PLM standards (i.e. EIA etc. OASIS PLCS etc.)

### Work Group (WG) “LOTAR of CAD 3D PMI

- Discussed Part 120 Technical Work Stop Light Chart regarding Parts 120 E1, Part 120E2 and Part 125.
- There was a discussion on Part 125 “Assembly PMI” specifically on the work being done relative to the External Element Reference (EER) activity under AP242. We discussed the four main use cases: 1) Assembly-level PMI, 2) Kinematics, 3) Composite Definition and 4) Electric Definition. The EER core team is working on prioritizing use cases and development of a comprehensive approach.
- The Test Case Model Library is adding “Intermediate” models. The objective is to have all three CAD systems represented and the models complete by the June WS.
- Presentation on Validation and Model Comparison by ITI TranscenData.
- NIST personnel presented Manufacturing Process Information for Long Term Archiving.
- Status Presentations from DataKit, PTC and Kubotek on what they are doing was very well received
- NIST 3D MBE PMI Validation and Conformance Testing Project manager presented their project and how it is complementary to the LOTAR activity. We discussed the need to collaborate with each other to ensure consistency between the projects and the resulting standards.

### WG “LOTAR of PDM Information” (Part 2XX):

- Part 200 in final rework, draft ready for internal balloting by year end 2012.
- Part 210 further discussed, getting more mature. Need to be confirmed by pilot activities in 2012.
- Recommended practices for new validation properties for Product Structure contracted, in development.

### **WG “LOTAR of Composite design” (Part 3XX):**

- Continuation of the definition of the scope and priorities (Part 300 “fundamentals and concepts”, 310 “Composite design”).
- Obtain composite design interoperability models between Catia V5 / V6 and FiberSim, based on AP 203 ed2.
- Continuation of the draft STEP recommended practices for validation properties for CAD 3D Composite design.
- Preparation of new specifications for LOTAR of CAD 3D composite plies based on STEP AP 242 “3D tessellated geometry” for approximate explicit representation (resolution of the patent issue to be finalized).

### **WG “LOTAR of Electrical Wiring Harness” (Part 4XX):**

- First face to face meeting of the Electrical Harness WG. Review of the business requirements.
- Review of the overall generic process for electrical harness specification, definition and manufacturing, and of the related priorities of development of the LOTAR parts 4XX.
- Review of the glossaries to be used for the identification of the essential information to be archived. Survey of the open standards for LT preservation and interoperability of electrical harnesses.