

Summary of the LOTAR International Workshop May 20th to 23th, 2019 – Toulouse, France

Project management:

- Consolidation of the 2019 LOTAR International budget plan with the planned contracts to service providers.
- Preparation of the draft 2020 LOTAR project and budget plans, with the provisional list of Aerospace and defence members.
- Summary of [STEP AP 242 ed2 project](#). Sending of AP242 ed2 DIS2 technical documentation to ISO Central Secretary on the 17th of May 2019 for planned start of the ballot end of July 2019.
- Status of [STEP AP239 Ed3 project](#). Good progress in the finalization of the AP242 ed2 – AP239 ed3 harmonization for PDM and RV&V information (meeting on the 8 – 9 May in Toulouse). Due to resources conflict and planning exceeding the duration defined by ISO rules, decision to stop the AP239 ed3 project, and to prepare a New Work Item to restart it, resulting in additional time to finish the new AP239 ed3 project.
- Status of [STEP AP243 MoSSEC](#) project: approval of one year extension for the finalization of the project.
- Launch for ISO ballot of the STEP Extended Architecture V1, used for AP242 ed2, introducing SysML as the modelling language of the domain models of AP242 ed2, AP239 ed3 and AP243 MoSSEC.
- Launch of the EWIS Implementer Forum “User Group”. Preparation of the confcal with the electrical systems editors on the 25th of June, for the launch of the EWIS Implementer Group in Sept. 2019.
- Status of the CAx Implementer Forum. Continuation of preparation of the launch of the MBx IF User Group. Identification of the scope and way of working. Still topics to be clarified to prepare the 2020 project plan. Scope for 2020 focused on use cases based on AP242 ed1 / ed2.
- Next LOTAR workshop: 9th – 12th of September 2019, Atlanta (GA), USA, hosted by PDES Inc.

WG LOTAR “Basic and processes” parts (1 to 7, 10 to 20)

- Update of part 1 edition 2 as mature draft
- Part 3 edition 2 under review, planned to be completed with Q3 LOTAR offsite.
- Initial discussion on new part for functional architecture & metadata with the LOTAR PDM team, based on the OASIS standard.

WG “LOTAR Mechanical and PMI” (Part 1XX)

- Planning of a new pilot “assembly saved views” based on AP242 for the Part 125 “assembly with PMI”.
- Start of the review of the Part 100 “fundamental and concepts”
- Preparation of the Pilot 1 “Explicit and implicit representation of hole on detailed part” for the part 132.
- Update of the AP242 recommended practices for representation of Hole and Fastener Information

WG “LOTAR Product Data Management” (Part 2XX)

- Coordination with the “Basic Parts” Working Group on Functional Architecture and Meta Data requirements.
- Discussion of the way of working with the PDM-IF “User Group” & “Implementer Group”
- Establishment and progress on new work task for development of test case and test data for handoff to PDM-IF UG for development of recommended practices. This test case is intended to be expanded to future test data packages such as Stratoliner data and future complexities such as non-conformance data.
- Proposal to publish validation property TS as a full part (205?) which can be referenced by other 2XX parts

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

- Finalization of the review of the glossary of terms for Part 300 ([ASME Y14.37](#), [SAE CMH-17](#), [EN 4408](#))
- Update of the AP242 recommended practices for composite validation properties.
- Status on the pilot 2018 “Ply orientation”, based on AP242.

WG “LOTAR of Electrical Harness” (Part 4XX)

- Status of STEP AP242 ed2 DIS2 documentation for electrical wiring harness, sent to ISO for ballot.

- 1st meeting of the EWIS¹ implementor forum “User Group”:
 - Title and logo decision
 - Use cases discussion,
 - Definition of the scope for the 1st test round of the Implementer Group (planned to start in Sept. 2019)
 - Preparation of the 2019 Semester 2 and 2020 project plans
- Presentation of Datakit pilot progresses. STEP files will be provided by Datakit end of June 2019.
- Start discussion on validation properties for electrical harness
- Discussion on future LOTAR electrical pilots for 2020.

WG “LOTAR of Model Based Systems Engineering” (Part 5XX)

- Regular bi-weekly WebEx calls (alternating with PDES MBSE projects confcalls)
- Progression of Part 500 “LT Archiving & Retrieval of MBSE information” documentation
- Initial definition of potential use cases
- Good involvement from industry and vendors

WG “LOTAR of Engineering Analysis and Simulation” (Part 6XX)

- Received feedback from ISO Meeting in Toulouse (May 2019) regarding AP209 development (edition 3) and discussed inclusion of new measure types into AP209 ed3 data model
- Discussed collaboration with [VMAP project](#) and got support to facilitate access to ISO STEP standards
- Finalized the statement of work for a AP209 expert to assist LOTAR EAS WG and CAE-IF (June 2019-March 2020)
- Worked on LOTAR Part 620 and clarified the notions of Verification, Validation and Equivalence
- Continued preparing for the live “round trip” demonstration at NAFEMS World Congress 2019: reviewed AP209 translators status, fine-tuned the demonstration scenario

¹ EWIS: Electrical Wiring Interconnection System