



LOTAR

LONG TERM ARCHIVING AND RETRIEVAL

LOTAR International project status

AIA –ASD Interoperability conference call
: 24 Jan. 2017

DRAFT

Rick ZURAY: Boeing – LOTAR AIA Co-chair

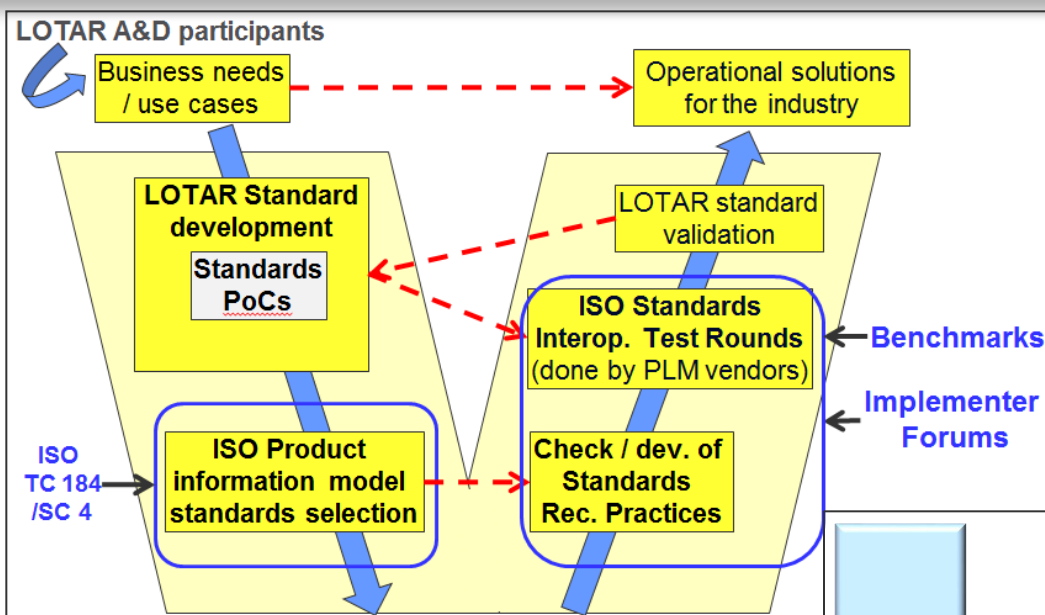
Jean-Yves DELAUNAY: Airbus Group – LOTAR ASD Stan Co-chair

Table



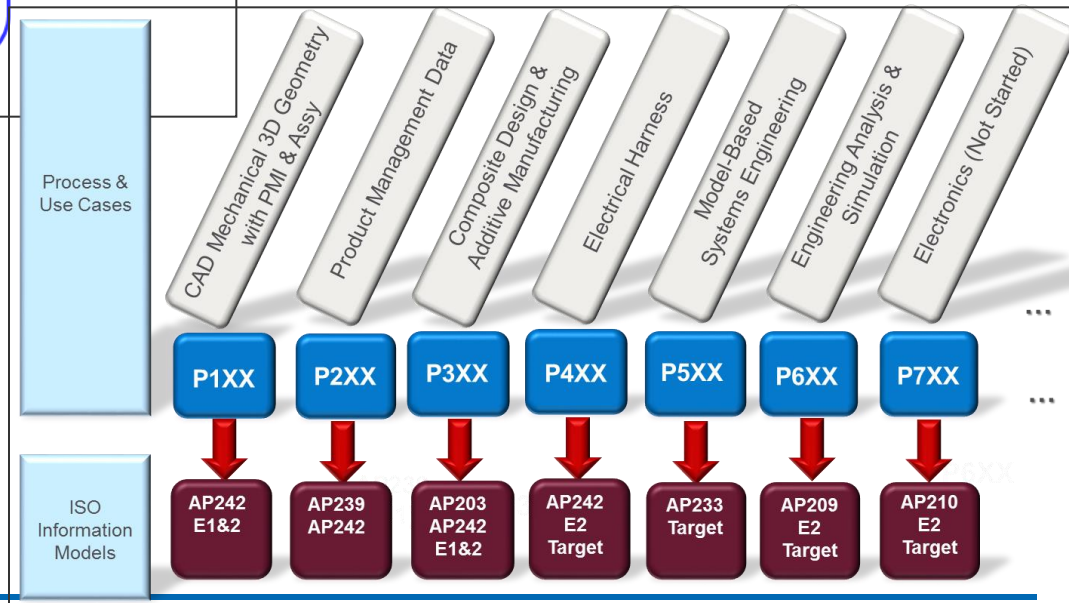
- Development method and of the target scope of the LOTAR standards – Rick
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- LOTAR Overall Project Plan – 5 yr. Roadmap (2016 – 2020)
 - Jean-Yves
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Development method and Target scope of the LOTAR standards



« V cycle »
for development and validation
of LOTAR standards

Target scope
of the LOTAR standard



Status of progress: 2016 Accomplishments



- Sending of LOTAR parts for ballot to AIA and ASD Stan in Jan. 2017:
 - Part 007 ed3 “Terms and References”, Part 020 “Governance and Preservation Planning”
 - Part 120 ed2 “CAD 3D Explicit Geometry with Presentation of PMI
- Several pilot projects have been conducted to validate newly developed technical approaches.
 - Mechanical & PMI: Pilots on semantic PMI and graphic based Assembly PMI using STEP AP242e1,e2
 - Electrical Harness: very first tests based on STEP AP242 Ed.2 Committee Draft,
 - Engineering Analysis & Simulation (EAS): very first tests based on AP209 Ed.2.
- EAS WG : has established cooperation with NAFEMS to discuss simulation data management topics; it has organized a presentation to the CAE vendors of the EAS team objectives and of the capabilities of STEP AP209 standard, the selected information model and format for LT archiving of structural analysis.
- PDM WG: has published Technical Specifications for LT archiving of PDM information, and supports the dev. of AP239 ed3, and its harmonization with AP242 ed2, which will provide the basis for the LOTAR Part 200 series.
- The LOTAR project has updated their 5 year roadmap of the NAS/EN9300 standard, has continued to manage the interdependencies with the other ISO standardization projects and associated Implementor Forums.

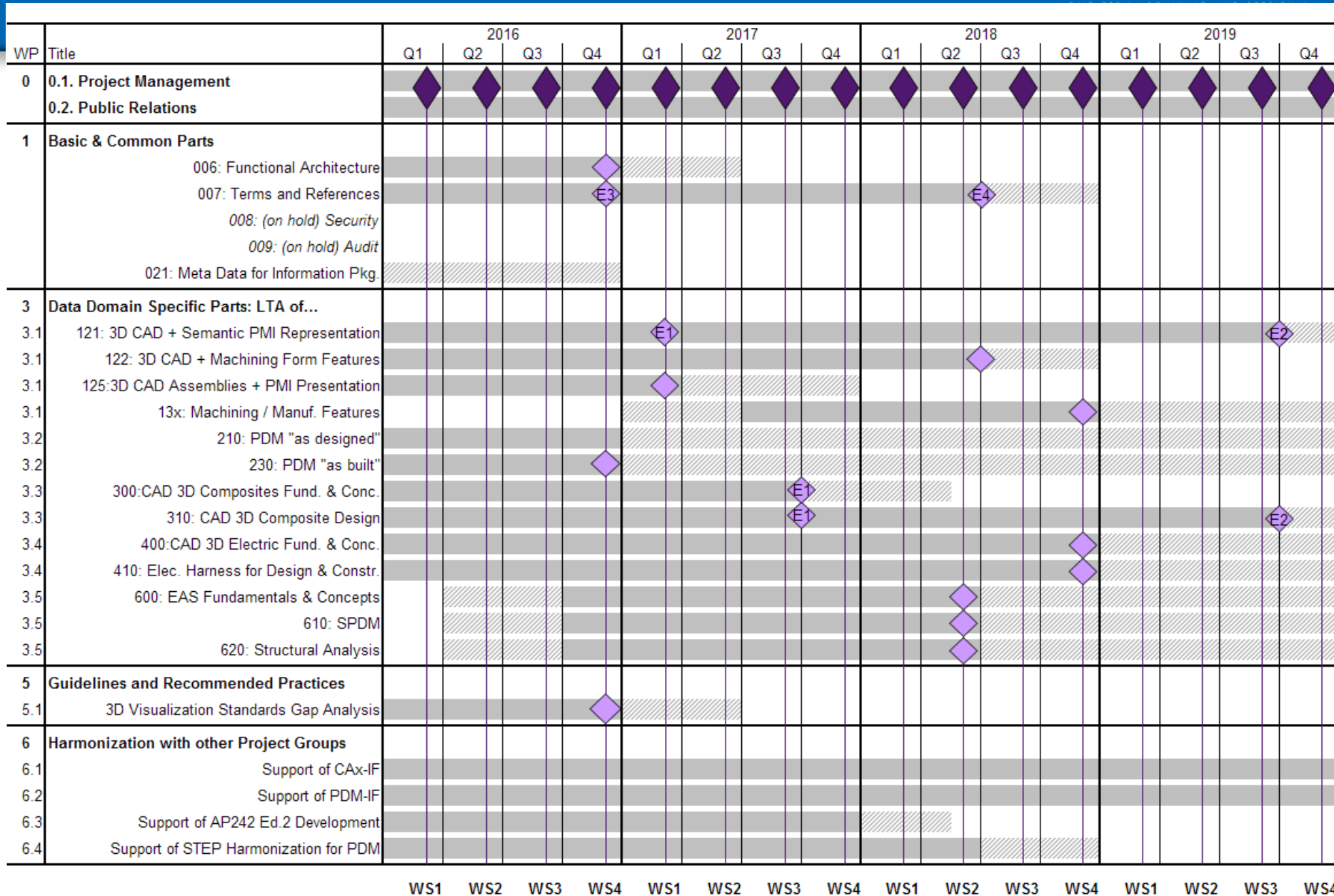
Status of progress:

Overview of 2017 activities



- **Preparation of the ballot of Parts 120 ed2, 007 ed3, 020, 121 and 125.**
- **Publication of several other parts of the LOTAR standard is planned in 2017**
- **Mechanical & PMI WG**: will cover LT Archiving of semantic data as well as assembly-related information, will prepare new parts for 3D definitions to include machining features, will continue to monitor the progress of AP242 works for holes and fasteners.
- **PDM WG**: is highly dependent on the progress of development of AP239 ed3 and its harmonization with AP242 ed2. PDM work will rest in 2017. Members will participate in AP239 ed3 and AP242 ed2 development, and the PDM-IF.
- **Composites workgroup** will finish the Part 300 “Fundamental concepts”, work on validation properties, and conduct pilots in this domain.
- **Electric Harness WG**: will complete the definition of essential information and validation properties, will provide public test cases for the AP242 ed2 pilot project.
- **EAS group**: will draft the 1st standard parts for this domain, and also support broader testing of STEP AP209 ed2 in the CAX Implementor Forum.

LOTAR 5 year Roadmap (2016 – 2020)



General comments , issues

General comments

- The successful implementation of the LOTAR standards by the US and EU A&D industries relies on the governance through the time of the suite of ISO STEP standards for A&D: AP242, AP209, AP239, AP238, etc.
- => Regular coordination between AIA & ASD for interoperability is critical.
- The launch of LOTAR activities related to MBSE, including LT archiving of traceability information based on requirement, Validation & Verification information will continue to be discussed in 2017
- Planned extension of the support of LOTAR to the CAX-IF (creation of the CAE IF in 2017) and to the xDM IF (SDM WG, PDM WG)
 - Importance of the support of PDES, Inc., AFNeT and ProSTEP iViP.

Issues

- Need to maintain the momentum of the LOTAR Working Groups, via the participation of the LOTAR members to the physical meetings:
 - Support of senior management to the LOTAR OEM members