



Host (on behalf of ASD):



ADS is the Premier Trade Organisation for companies in the UK Aerospace, Defence, Security and Space Sectors.

Coordinating the Development of a Wider Set of Strategic Standards for Design, Supply Chain and Support

The ASD SSG Radar Chart

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Rank/title of presenter: Senior Expert In-Service Data Exchange, Integration and Management
Company/organization: Airbus

ILS Specification Day, London

October 17, 2019

Introduction

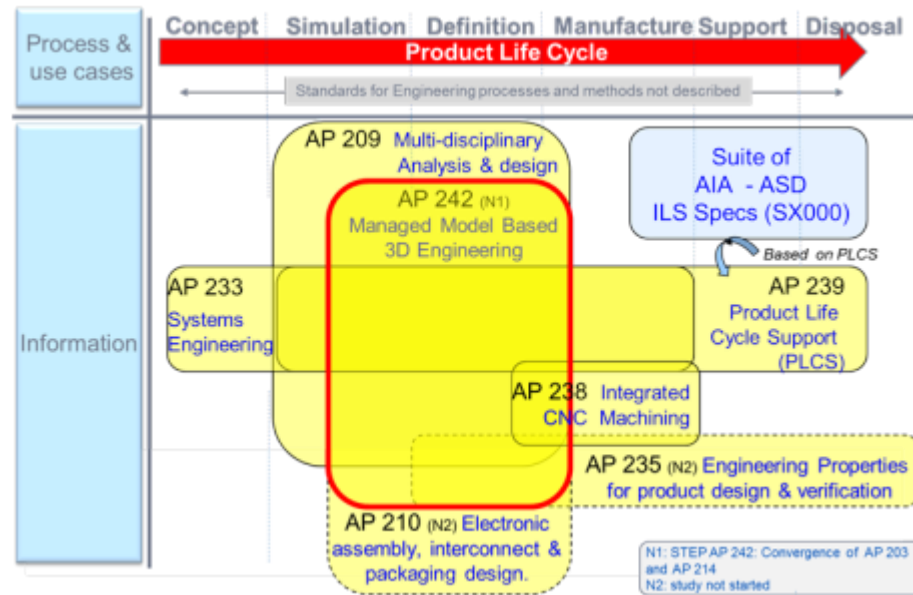
- The Strategic Standardisation Group (SSG) was set up in October 2008 by ASD, with the support of a group of European manufacturers and defense agencies in order to share a common strategy for the development and deployment of interoperability solutions all along the product life-cycle.
- The SSG is a working group of the ASD association, reporting to the ASD Services Commission.
- Interoperability of information processes is seen as key for both industrial performance and operational performance of aerospace and defence (A&D) products. Our approach to interoperability is based on the broad adoption of standards, not on the selection of a particular technology or tool.
- The ASD SSG aims to **support effective governance, at European level, of the development and validation of information interoperability standards and solutions for A&D industries.**

How the SSG coordinates standards

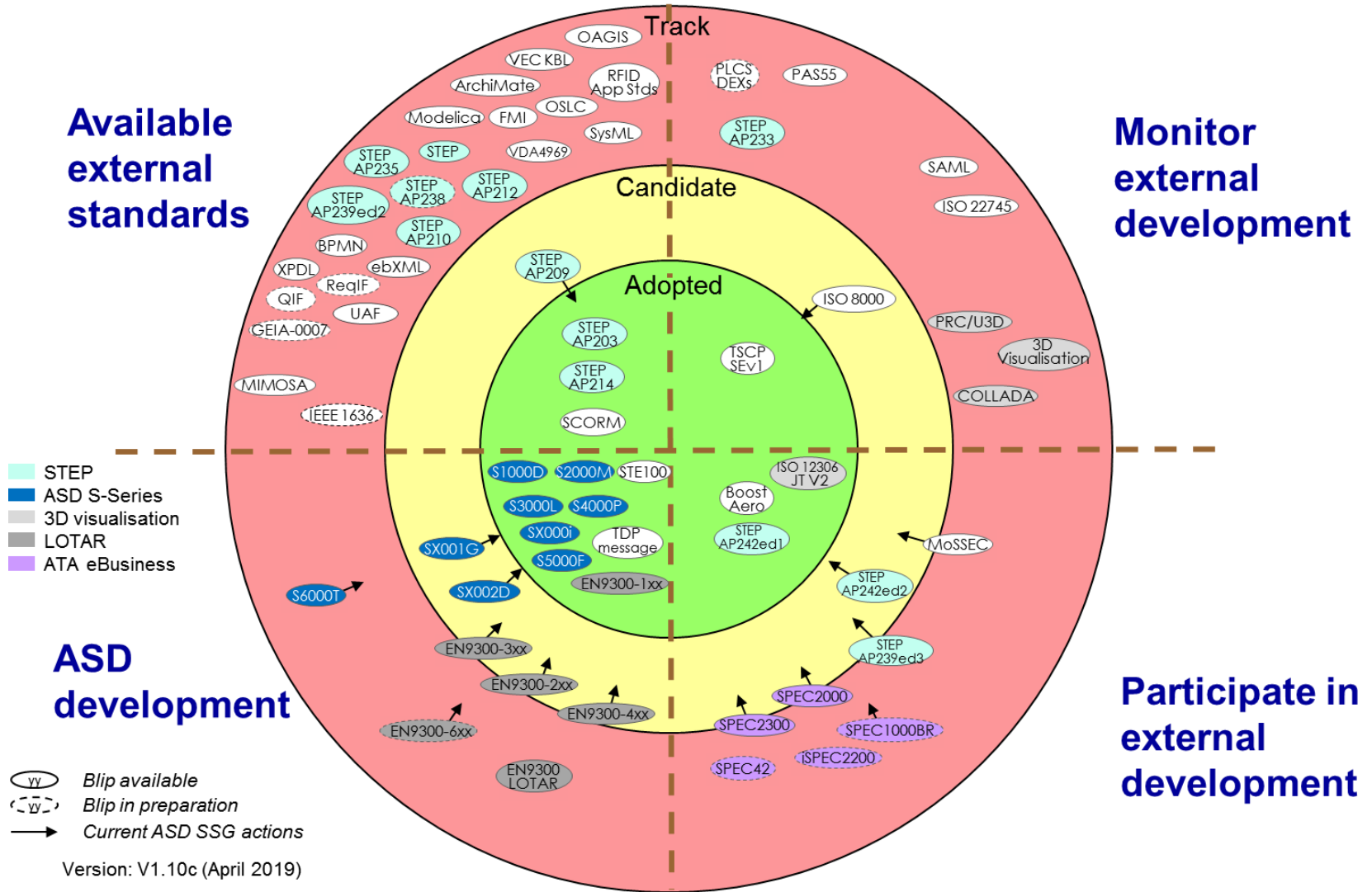
- Identifying and specifying A&D industry needs in regards to information interoperability along the product life-cycle.
- Proposing and applying governance tools at strategic and technical level (e.g. radar screen, interoperability framework, assessment process).
- Developing ASD standards policies and recommendations and publishing these through the SSG website.
- Encouraging IT vendors to implement these solutions and assessing the quality of those implementations.
- Developing a network of experts.
- Developing liaisons with all relevant associations (e.g. AIA in the U.S.) and standardization organizations (e.g. ISO/TC 184/SC 4, OMG, UN/CEFACT).

But why this work?

- In the past, different standardization organizations worked isolated, without any attempt to integrate their specifications with those that did not belong to their own group (and sometimes not even between them).
- This lead to redundancy of specifications and –even worse– at inconsistencies both at process and data level.
- With the current competitive trend towards digitalization across the whole life-cycle, it is no longer possible to ignore other standardization bodies, much less to maintain incompatible standards.
- The SSG explores existing standards and specifications and assists in ensuring the convergency of existing standards or promotes new standards to fill possible gaps.
- **Stand-alone and non-interoperable standards are doomed in the mid-long term!**



Radar Chart



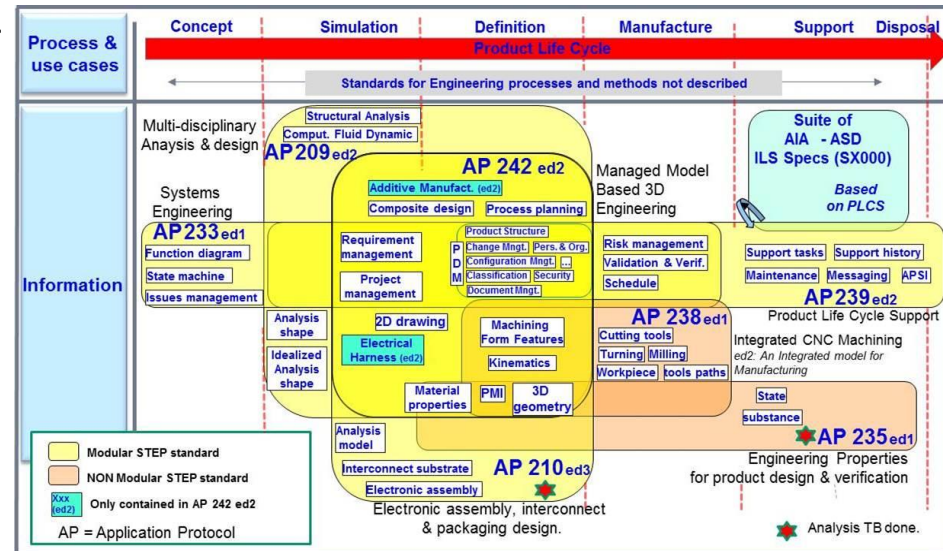
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Strategy for interoperability

- The ASD vision of through life-cycle interoperability is that **‘All players of the global aerospace value network will be able to share digital information securely throughout the life of the products and services’**. T
- This vision is implemented by a set of recommendations:
 1. Strengthen the STEP architecture approach to 1) ensure interoperability between STEP standards and 2) provide unambiguous implementation methods (including for new information technologies, e.g. OSLC).
 2. Ensure 3D visualisation format standards used in the industry are consistent with STEP standards
 3. Ensure the common data model for the ILS specifications is consistent with STEP AP239.
 4. Promote the ASD-AIA ILS suite of specifications and seek to manage coherence with ATA specifications where needed by the industry.
 5. Participate in the development, and interoperability testing of the next generation of PDM/PLM web services.
 6. Facilitate data interoperability in the Aerospace and Defence Supply Chain and align business process between Supply Chain stakeholders.
 7. Supports the setting-up of implementer forums (e.g. PDM implementer forum) to test and validate the implementation of the standards-based solutions.

Technical work

- The SSG participates in a significant number of projects or includes members from this projects, in order to drive future interoperability:
 - Modeling and Simulation in a Systems Engineering Context" (MoSSEC)
 - Long Term Archiving and Retrieval (LOTAR)
 - ISO 10303-242 "Managed Model Based 3D Engineering" edition 2
 - ISO 10303-239 "Product Life Cycle Support" edition 3
 - ISO JT ("Jupiter Tessellation") Ed. 2
 - New STEP architecture
- The SSG also promotes implementer forums:
 - CAX Implementer Forum (CAX-IF)
 - Product Data Management Implementer Forum (PDM-IF)



More information: SSG website and newsletter

ASD Strategic Standardization Group

Parent organisations: ASD, ASD-STAN

AFNet Standardisation Days 2019

Presentations shared during the AFNet Standardisation Days, 5-6 June 2019 in Paris, now available for download: <http://download.asd-sg.org/>

About ASD Strategic Standardisation Group

The ASD Strategic Standardisation Group (SSG)

Overview

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TERMS OF REFERENCE
ASD STRATEGIC STANDARDISATION GROUP (SSG)

SCOPE

Digital performance of ASD industries, as well as operational performance of their products, require effective and efficient information exchange, sharing and enabling processes, throughout the Product Lifecycle from the design phase up to retirement and recycling, and across the entire supply network. This interoperability capability is a strong enabler of the Digital Transformation of Aerospace and Defence business, and supports Smart Manufacturing, Internet of Things, Big Data and Cloud Computing.

MISSION

The SSG mission, under the guidance of Services Commission, is to act as the European high level advisory body to identify, select and recommend Aerospace and Defence Through Life-cycle interoperability mechanisms and enabling standards for adoption by the industry. To achieve this mission, it will:

- Identify ASD industry needs through the development of Through Life-cycle interoperability use cases;
- Review ongoing standard proposals and foster harmonisation between the different actors and sectors involved in order to establish a harmonised set of standards;
- Develop and maintain guidelines, approve roadmaps, and recommend practices for development, implementation and use towards effective interoperable Through life-cycle operations within the Aerospace and Defence industries and with their customers and suppliers;
- Support proposals to obtain financial backing by the EU organisations, and interface with their relevant structures as required;
- Oversee the progress of their implementation, and recommend solutions when roadblock issues are being identified;
- Propose, communicate and disseminate initiatives;
- Work towards novel harmonised operational processes which can be supported by a comprehensive range of standard-based IT tools for the Supply Chain kept up to speed with the fast progress in digital Technologies.

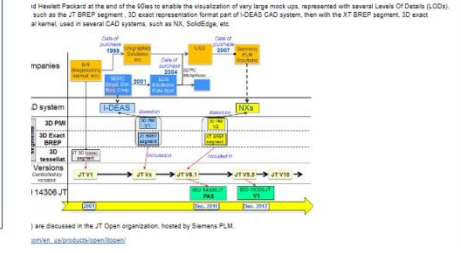
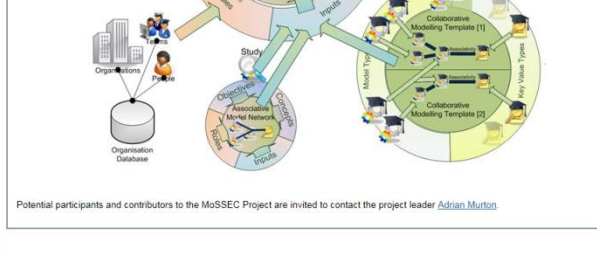
Using MoSSEC to exploit modelling and simulation context data for overall aircraft design

Presentation made by Adrian Murton, Airbus, at GPDIS 2019

PDT-Europe-2012_CRESCENDO-BDA_Coleman_Prel-final

PDT-Europe-2012_CRESCENDO-BDA_Coleman_Prel-final

"Innovations in collaborative modelling and simulation to deliver the Behavioural Digital Aircraft". A summary of results from the CRESCENDO project, presentation made by Peter COLEMAN, CRESCENDO project coordinator, Airbus Operations Ltd, at PDT Europe 2012, 25-26 September 2012, The Hague, Netherlands



ASD SSG Newsletter
July 2019 Issue

Aerospace and Defence Industries Association of Europe (ASD) is the European association representing the interests of industries in the aerospace, space, defence and security sectors. [Link](#)

ASD Strategic Standardization Group (SSG) is the governance group in charge of Aerospace and Defence digital interoperability. [Link](#)

IDENTIFYING THE SET OF STANDARDS REQUIRED FOR AEROSPACE AND DEFENCE DIGITAL INTEROPERABILITY.

Product definition and analysis Interoperability

- ISO STEP AP242 ed2 delivered to ISO for "Draft International Standard" ballot
- Join the AFNet-prostep trip AP242 Day, 27 November in Hamburg, and get the latest updates on short-term benefits
- Launch of the Electrical Wiring Harness Installation System Implementer Forum (EWIS IF), based on STEP AP242 ed2
- AFNet-prostep trip PDM Implementer Forum validates for enhancing collaboration between customized PDM
- STEP AP209 Round trip exchange of Finite Element Models at NATENS World Congress in June 2019

Missed the last trends?

- STEP AP242 Round trip exchange of Finite Element Models (FEEM) with various providers of CAES/CAD Virtual Congress in June 2019
- Workshop: Product-Support Interoperability
- Join the new S1000D User Forum and ILS Specification Day, London, October 24-27
- Manufacturing Interoperability
- Plan for exchange of assemblies with helix and feathers based on STEP AP242
- AFNet Standardization Day, 5-6 June in Paris

Next events:

- GPDIS 2019, 16-19 September, Phoenix [Link](#)
- S1000D User Forum and ILS Specification Day, 14-17 October, London, UK [Link](#)
- ISO/TC 184/SC 4 meeting, 3-8 November, Marina del Rey (USA)
- PDT Europe, 13-14 November, Paris
- AFNet - prostep trip STEP AP242 Day, 27 November, Hamburg [Link](#)
- LOTAR workshop, 9-12 December, Darmstadt

IDENTIFYING THE SET OF STANDARDS REQUIRED FOR AEROSPACE AND DEFENCE DIGITAL INTEROPERABILITY

<http://www.asd-sg.org/>

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Thank you
for your attention!

Questions?

AIRBUS

DEFENCE AND SPACE

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