

ASD SSG Newsletter

October 2014 Issue



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



ASD Strategic Standardisation 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.

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White Paper final draft distributed on 14 October. Planned publication end of October

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updated version just published

Through life-cycle interoperability: SSG strategy set and actions started

ASD SSG has issued a 1st version of its “Through Life-cycle Interoperability Report” in May 2014. The proposed subtitle, “**a critical strategic lever for competitiveness**”, highlights the role of this report to organise Aerospace and Defence requirements for interoperability and to structure actions to achieve this interoperability.

Since May, the set of seven recommendations developed in this report has been shared and strengthened through several meetings and presentations. And actions have been identified and launched to implement these recommendations. A status of these actions is presented in ASD SSG website.

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STEP AP242 standard for Digital Mock-up exchange and archiving

AP242 edition 1:

AP242 “Managed Model Based 3D Engineering” edition 1, to be issued shortly by ISO as International Standard, is considered as the cornerstone standard for Digital Mock-up exchange and archiving. This Application Protocol is currently implemented by several software vendors, and a benchmark is needed by Aerospace and Automotive manufacturing industries to assess maturity of STEP AP 242 applications.

AFNeT-ProSTEP iViP STEP AP242 edition 1 benchmark in preparation: a kick-off is planned on the 14th of November. After a preparation phase, the benchmark will start in April 2015 for a 6 month duration. The publication of benchmark results is planned in October 2015.

AP242 edition 2:

The industry has launched AP242 edition 2 project to increase the functionalities of the edition 1. The main benefit of AP 242 ed2 is the extension of AP 242 ed1 to the electrical design domain, completed with specific enhancements in several domains: finalization of the PDM harmonization with AP 239 PLCS, 3D geometry (e.g. 3D textures, curves tessellation), 3D PMI semantic representation, Composite design (minor enhancements) and mechanical design.

The **first Steering Committee was held on the 19th of September**. A plenary workshop was held on the 21st of September in PDES, Inc., Charleston (USA), followed by technical team meetings. The AP242 edition 2 Committee Draft is planned to be issued in Q3 2015.

3D Product Manufacturing Information (PMI):

The ASD SSG recommends to push the future ISO AP 242 edition 2 data model for 3D PMI “semantic representation” as the reference for the industry.

AP 242 development is planned to be aligned with ISO developments in TC 10 (Technical Product Documentation) and TC 213 (Dimensional & geometrical product specifications and verification) and equivalent ASME standards.

Implementation of this recommendation will require the setting up of official liaisons between ISO /TC 184 /SC 4 and related standardisation groups, like ISO /TC 171 (PRC), ISO /TC 261 (AMF, Additive Manufacturing Format), and DMSC (QIF v2 - Quality Information Framework).

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STEP AP239 PLCS edition 3: White Paper started

The set-up and preparation of the AP 239 ed. 3 was started in March 2014. The main goal is to harmonize the business and data model with other STEP Application Protocols.

The AP 239 ED3 Business Object Model shall be consistent with the other STEP modular application protocols, to ensure a coherent framework covering the full product life cycle and ensure interoperability with other application frameworks such as the AIA/ASD ILS suite of specifications, ATA e-Business (e.g. MSG-3).

It shall be the data model used as the foundation for data exchange, consolidation, integration and sharing of information, Long-Time-Archiving and retrieval of PDM information through the full product life cycle.

To achieve the goal several meetings and promotion calls have been performed and LOTAR and AIA/ASD ILS spec council were recently asked for support.

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Integrated Logistics Support Suite: S4000P v1 and S5000F v0.2 published

ASD S4000P: a new “international specification for developing and continuously improving preventive maintenance” published by ASD as Issue 1.0 on the 24th of May 2014

ASD SSG has identified S4000P to be an essential specification in the S-Series of ASD Specifications in order to ensure both an optimized product development and the continuous improvement of the Product maintenance during the Product life cycle (In-Service Maintenance Optimization = ISMO)

The specification S4000P is applicable for every kind of complex technical Products and covers necessary interfaces inside and outside the S-Series of ASD Specifications.

For more information, for download of the specification ASD S4000P Issue 1.0 and for feedbacks/questions please open the S4000P-website www.s4000p.org and use the appropriate links.

ASD S5000F Draft issue 0.2 released

The S5000F, International Specification for Operational and Maintenance Data Feedback, has been released for public commenting as Draft 0.2. S5000F will provide a means to provide feedback data from the field in a standard way for engineering and support purposes. It has been designed in such a way that it can be integrated with the other ASD S-Series specifications, and in particular with S3000L (LSA). It should be highlighted that S5000F will from the beginning be fully compatible with the AIA/ASD Common Data Model (soon to be published as SX002D), thus ensuring the interoperability with other ILS specifications.

S5000F can be downloaded for free from its website at <http://www.s5000f.org>.

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PDM Implementer Forum: White Paper published

The final draft of the PDM/IF White Paper was distributed for comments on the 14th of October. A conference call was organised 22nd of October to review the comments and finalise the White Paper, for publication end of October.

The PDM/IF User Group should have its kick-off in January 2015.

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BoostAero standard for supply-chain transactions

During 2013, a « Machine-to-Machine (M2M) Best practices » survey has been conducted by BoostAero. The objective was to identify what are the best practices used by Sell-side BoostAero users, as part of AirSupply, in terms of Data Integration and EDI Management.

The survey results highlight that most of the BoostAero users integrates M2M Messages the same way and handle the transmitted data within their ERP in a similar way. These results have been shared during our first M2M User Forum.

More information on Boostaero available through [BoostAero International Newsletter, March 2013](#).

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MOSSEC standard for Modeling & Simulation Collaboration

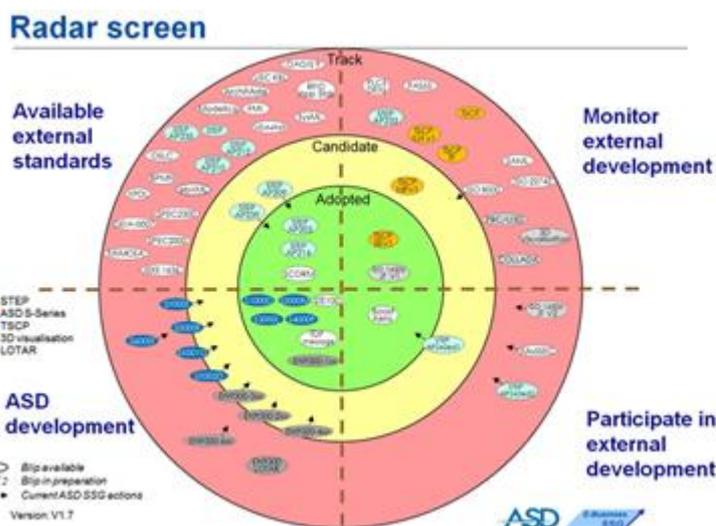
MoSSEC standard is designed to provide a capability to share Modeling and Simulation information in a collaborative Systems Engineering Context “MoSSEC”. This is to enable full traceability and re-use of modeling and simulation information throughout the product lifecycle and independent of the specific IT applications used across collaborating enterprises. The standard targets to cover a core subset of AP239 systems engineering information content and related information services, that can be readily implemented and deployed to support engineering collaboration.

The **MoSSEC international project kick off meeting** (webex) is planned on **29 October 2014**. Agenda includes: context of the MoSSEC project, overall planning of the standard versions, overview of the main components and preparation of a kick off international MoSSEC workshop. Participation is open.

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ASD SSG Radar Chart: updated version just published



Version 1.7 of ASD SSG Radar Chart has just been published. This includes new “blips” related to component standards, including ArchiMate, MIMOSA, OSLC, S4000P, SX001G, SX002D, STEP AP242 edition 2.

Learn about these component standards and about 50 additional ones by navigating in our Radar!

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Promote European contribution to international standards and develop international cooperation

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