

ASD SSG Newsletter

May 2020 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.

ASD SSG elects [Jean-Pierre Souzy, Airbus, as new Chair](#)

Systems Engineering interoperability

- Start of AFIS-AFNET [RV&V-IF User Group on the exchange of requirement and V&V data](#)

Product definition and analysis interoperability

- [STEP AP242 ed2](#) "Managed model based 3D engineering" published by ISO
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Integrated Product Support interoperability

- [S5000F](#) International spec. for in-service data feedback [issue 2.0 published](#)
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- IPS Council to create a [Task Team for mapping S-Series - PLCS](#)

Next events & impact of COVID-19 crisis

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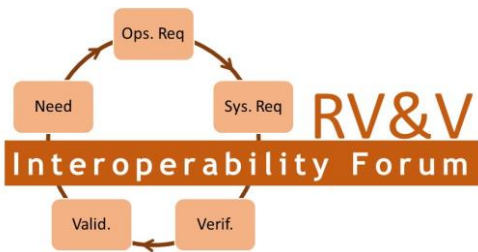
Jean-Pierre Souzy, Vice President Engineering Methods & Tools in Airbus, is nominated Chair of the ASD Strategic Standardisation Group.

Jean-Pierre is a Telecommunication Engineer and has been working in different governmental institutions in France (National Center for Scientific Research - CNRS, Ministry of Defence) before joining EADS in 2008. He promotes the strong involvement of Airbus in Interoperability Standards, highlighting the value added to the business through a consensual definition and a concrete implementation of Standards, particularly in the Supply Chain. Jean-Pierre is member of the Board of AFNeT and PDES, Inc.

He succeeds Yves Baudier who has chaired SSG since 2009. Yves retired from Airbus and will continue standardisation activities through AFNeT. All the ASD SSG members warmly thank Yves for his Chair and promotion of the SSG activities throughout these years.

[SSG Steering Board and members on SSG website](#)

Start of AFIS-AFNeT RV&V-IF User Group on requirement and V&V data exchange



AFIS (French Chapter of INCOSE) and AFNeT propose the exchange of Requirements and V&V (RV&V) data as a 1st area towards MBSE data interoperability. The RV&V Interoperability Forum User Group started in December 2019, with participation from Safran, Thales, Airbus, Ariane Group.

Two Use cases are defined and associated Test cases are to be developed in the next weeks. Additional participants are welcome (from Industry, IT & PLM vendors, service companies, research entities).

This initiative is open for sharing with other associations.

[More information on SSG website](#) and on [AFNeT website](#)

STEP AP242 ed2 “Managed model based 3D engineering” published by ISO

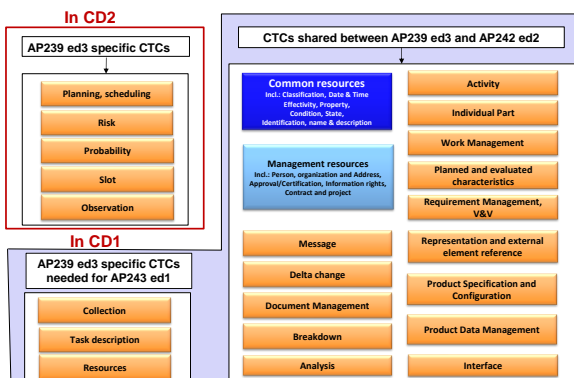


This is a significant step that crowns 3 years of effort to extend the coverage of AP242 to fit with industry needs. This new edition provides capabilities for the exchange of Electrical Wiring Harness design models and enhancements in the following domains: PDM, 3D geometry, 3D PMI semantic, composite and mechanical design interoperability.

It is published by ISO as ISO 10303-242:2020.

[Link to ISO publication page](#) [Read more on AP242 website](#)

STEP Core Model Technical Report published by ISO



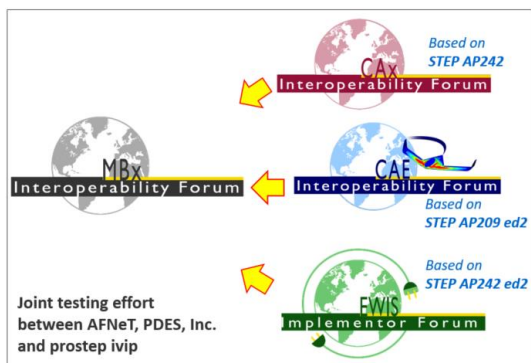
The “Core Model” is an essential component of the STEP Extended Architecture, promoted by ASD SSG as an enabler for Through Life Cycle Interoperability. The Core Model, developed in SysML, provides a set of data interoperability capabilities harmonised and shared between STEP Application Protocols (AP242, AP243 MoSSEC, AP239 PLCS).

This is an intermediate step, and PDES, Inc. and AFNeT associations are organising to provide resources to finalise in the next months: STEP Core Model CD1, MoSSEC DIS and AP239 ed3 DIS.

[Read more on AP239 ed3 PLCS website](#) and [AP243 MoSSEC website](#)

Acronyms: **AP:** Application Protocol, **CD:** Committee Draft, **DIS:** Draft International Standard, **PDM:** Product Data Management, **PLCS:** Product Life Cycle Management, **PLM:** Product Life cycle Management, **PMI:** Product Manufacturing Information, **STEP:** STandard for the Exchange of Product model data (ISO 10303), **SysML:** System Modeling Language (from OMG), **RV&V:** Requirement, Verification and Validation.

MBx Interoperability Forum (IF) website updated

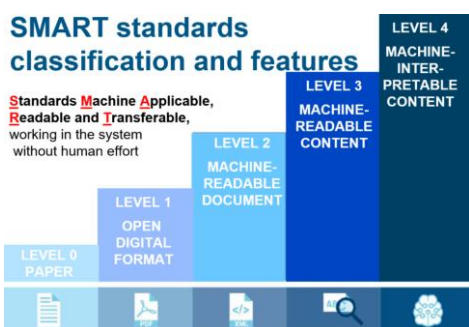


New structure of the MBx IF web site set up in Nov. 2019, based on a **common template**, associating a User Group, gathering manufacturers, and an Implementation Group, gathering PLM editors & integrators. The MBx IF is currently made of:

- the **CAx IF** (Design, Manufacturing, Inspection): based on STEP AP242,
- the **EWIS IF** (Electric. Wiring Interconnect. System): based on AP242 ed2,
- the **CAE IF**: primarily focused on the Finite Element Analysis in the Mechanical domain: based on AP209 ed2.

[More information on MBx-IF website](#) and [ASD SSG page](#)

Industry needs Machine-readable standards (to replace document based standards)



Publication of the final report of ISO TMB Strategic Advisory Group on "Machine-readable standards". It confirms the strong demand of the industries for machine readable standards, to support the digitalization of the enterprise, such as standard parts libraries. It lists the main activities to be carried out, and proposes a development roadmap, with a list of potential standards for transformation.

Preparation by [CEN /TC 310](#) of an online meeting the 17 June 2020 on this topic: contact your national standardisation body organisation for registration to this event.

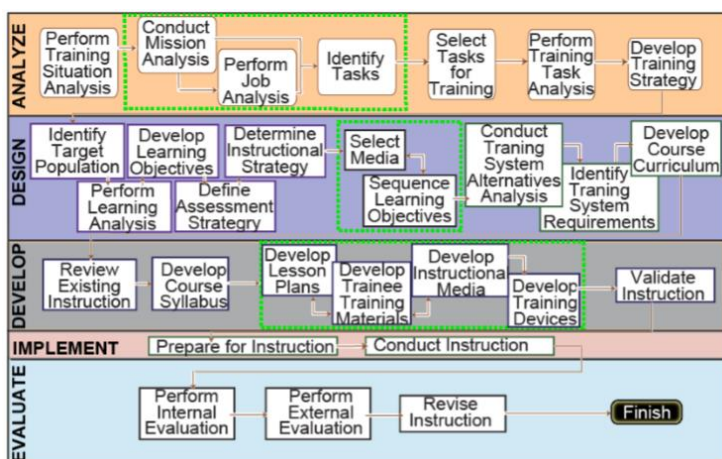
S5000F International spec. for in-service data feedback issue 2.0 published by AIA and ASD



S5000F issue 2.0, published by AIA/ASD, includes a new software and data chapter, introduces new concepts like dataset, damage, environment, capability or infrastructure (such as the cloud infrastructure, MRO network or transport network). It also covers new areas like transport, equipment calibration and export control.

[More information on S5000F site](#) and [ASD SSG IPS Spec. page](#)

S6000T (Training) issue 1.0 published by AIA and ASD

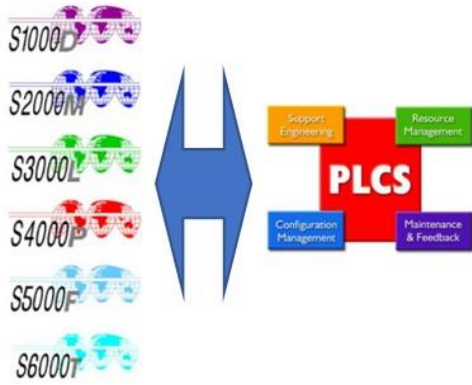


The S6000T is the latest S-series specification to be issued by AIA/ASD with the purpose of standardizing the process and data developed by different organizations. In particular, the S6000T defines the process for performing a Training Needs Analysis, including the definition of training requirements, learning objectives, and the identification of training curriculum. It also identifies the data model for information exchange with other S-Series specifications and in addition to the data model, the XML schema for the specification is also available.

Most encouragingly, the S6000T saw some excellent support from the US Navy and indeed members of the US Department of Defence now sit on this specification's steering committee.

[More information on S6000T website](#)

IPS Council to create a Task Team on the mapping S-Series – PLCS



The ASD/AIA Data Model and Exchange Working Group (DMEWG) will initiate a new Task Team with the objective to define the way forward for the S-Series IPS specifications and the upcoming ISO 10303 AP239 PLCS Ed3.

DMEWG is a Working Group responsible for implementing common data modeling, data representation and data exchange technologies for all S-Series IPS specifications.

The availability of mappings between IPS Specifications and AP239 PLCS will enable integration of information between different life cycle stages and application domains, for full life cycle data traceability.

[Link to SSG Through life cycle interoperability report](#)

Next events and impact of Covid-19 crisis

The first concrete impact of Covid-19 pandemic on the standardisation activities has been the move to telework and telemeetings. ASD has cancelled all physical ASD working group meetings until 31 May – subject to extension. ISO/TC 184/SC 4 meeting planned in Bergen early May has been turned to a virtual meeting, and ISO has allowed a 9-month extension to its standardisation projects. Further consequences on resources and workplan are likely, considering the impact of the crisis on airlines and on the aeronautical industry. Hopefully, to our knowledge, no project team member has been infected by the virus – even if some are blocked outside of Europe.

The following events have been updated with the information in our possession, but should not be considered as final:

- **PDES, Inc. Offsite**, 1-4 June, virtual
- **ASD SSG meeting #38**, 30 June-1st July, BNAE Paris or virtual
- **prostep ivip Symposium**, 2-3 September, Stuttgart
- **MBx-IF**, 4-11 September
- **GPDIS**, 29 September-2 October, Scottsdale, Arizona
- **AFNeT standards days**, 6-7 October, Paris & Regional remote locations

Acronyms: **GPDIS**: Global Product Data Interoperability Summit, **IPS**: Integrated Product Support, **MRO**: Maintenance, Repair and Overhaul, **PLCS**: Product Life Cycle Support (STEP AP239), **SC**: Sub Committee, **TC**: Technical Committee



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