



Specifications for Interoperability Through Life

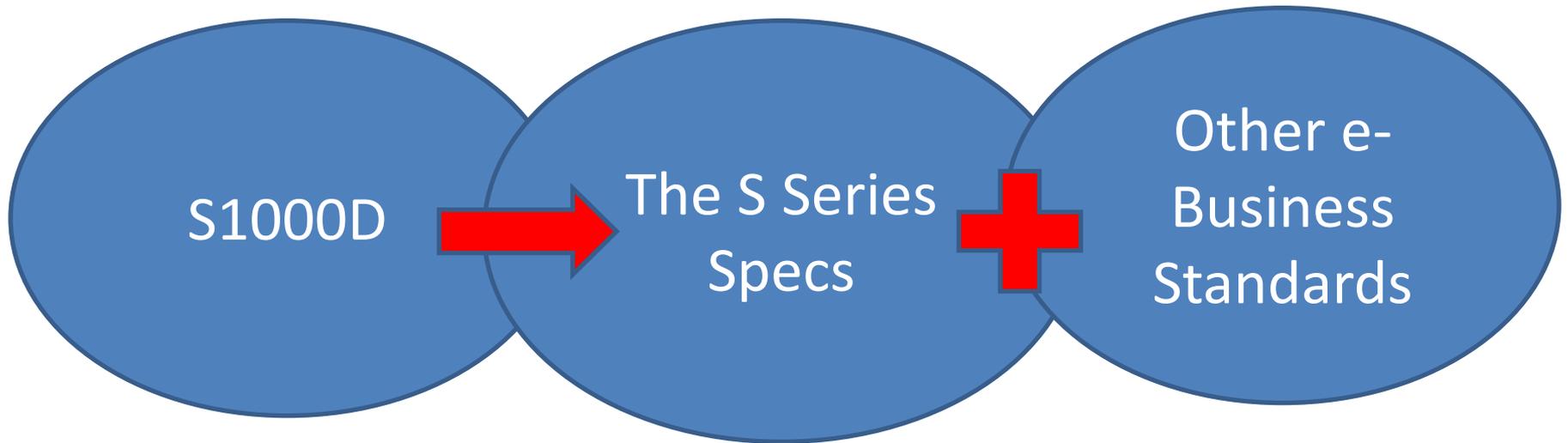
***Steve Shepherd
Vice Chairman ASD SSG, ASD PSG and AIA ASD
ILS Spec Group***



***S-Series Specification Day 2013
Vienna, 2013-09-19***



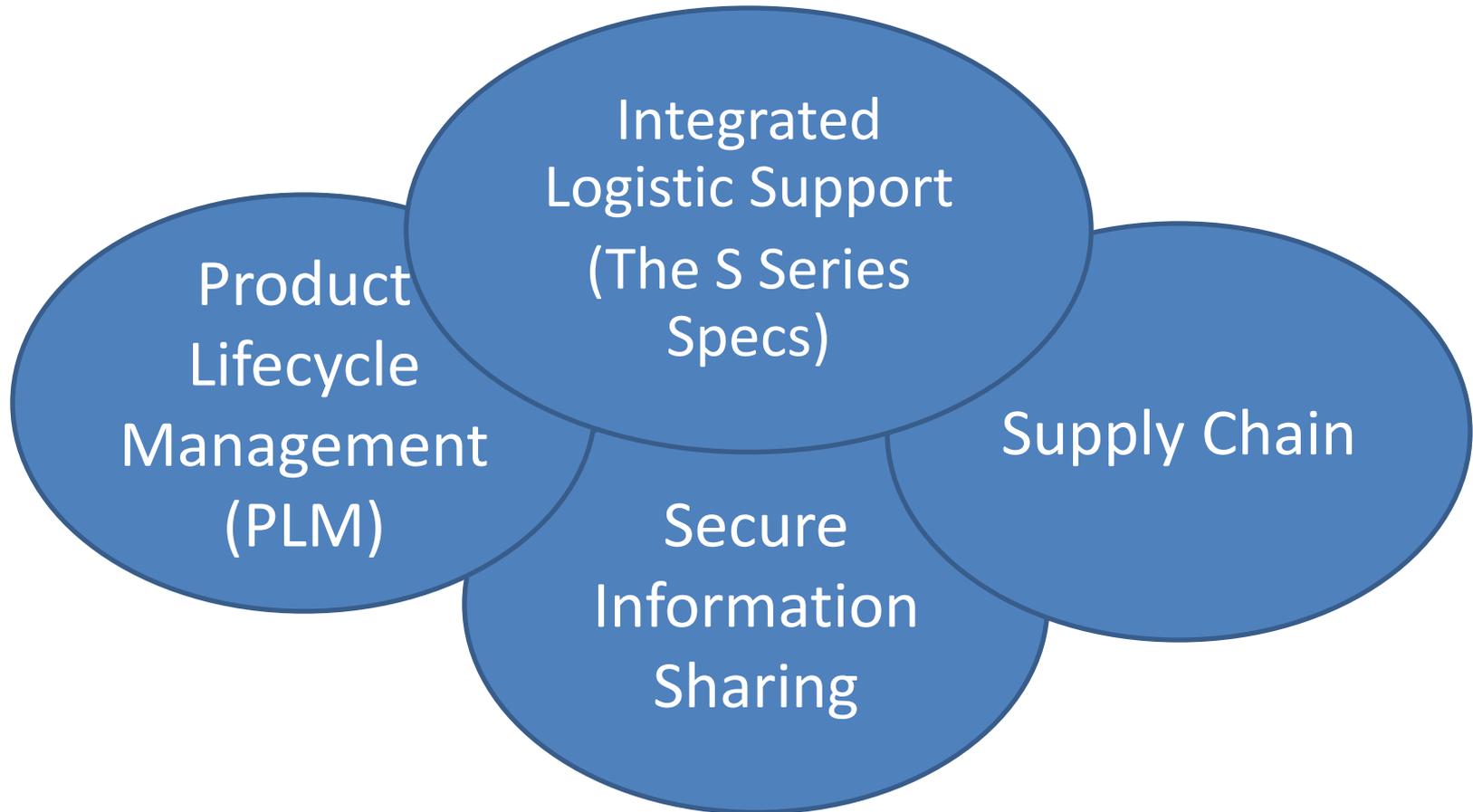
Completing the Picture....



..... for a complete e-business capability

Vision: All players of the global aerospace value network will be able to share data securely through the life of the products and services.

Scope – 4 Business Domains



The Challenge of Interoperability

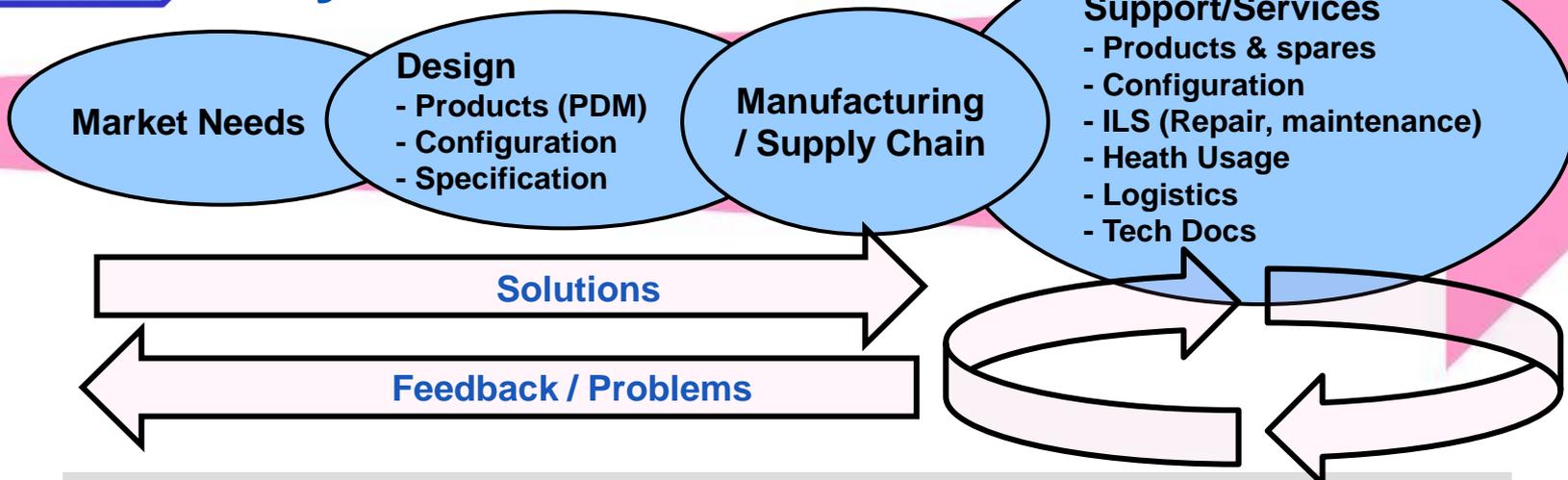
- e-Business interoperability between organisations and re-use of solutions across projects is imperative to the elimination of wasted costs and to improve data quality
- Many standards and initiatives have the potential to satisfy part of:
 - The overall requirement for interoperability:
 - Between companies, business partners and through the supply network
 - Between functions in an organisation
 - Between application systems



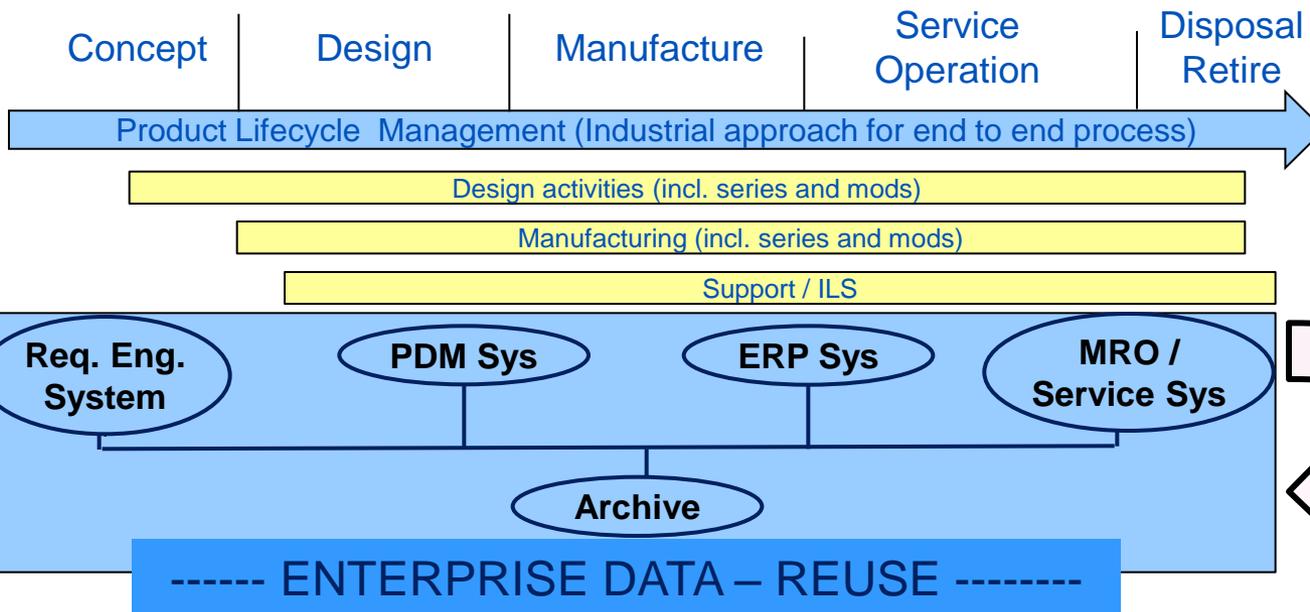


E-Business
SSG

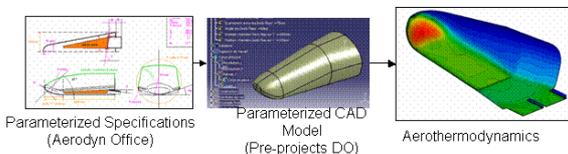
Data Explosion Through The Life Cycle



As needed > as designed > as manufactured > as delivered > as maintained



Some Aero & Defence challenges



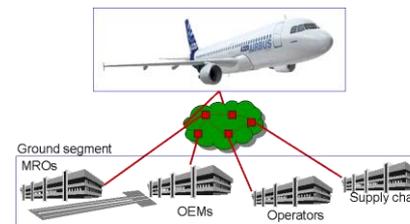
« Full virtual concept »
 deployed with System
 contractors and with
 Disciplines



« Full 3D configured
 DMU » deployed with
 component and sub-
 assembly Suppliers



« Full virtual rigs »
 deployed with Testing
 Labs and Certification
 authorities



« Full virtual A/C enabled
 services » deployed
 with Operators and
 MROs

How to organise collaboration around these artefacts?
 How to reach collaboration industrial performance?



Standards!

The ASD Strategic Standardisation Group (SSG)

The European Aerospace, Space and Defence companies response to the challenge of e-Business standardisation:

- Identify a coherent set of e-Business Standards to reduce overall cost and complexity
- Drive the identification, development, maintenance, **interoperability** and exploitation of a set of coherent e-Business standards
- Managed across 4 Enterprise e-Business Domains:
 - Design and Collaboration
 - Integrated Logistics Support
 - Supply Chain
 - Security (Secure Information Sharing)



The ASD Strategic Standardization Group (SSG)

The ASD SSG does not aim to create new eBusiness standards but to **support effective governance at European level of International and European standards:**

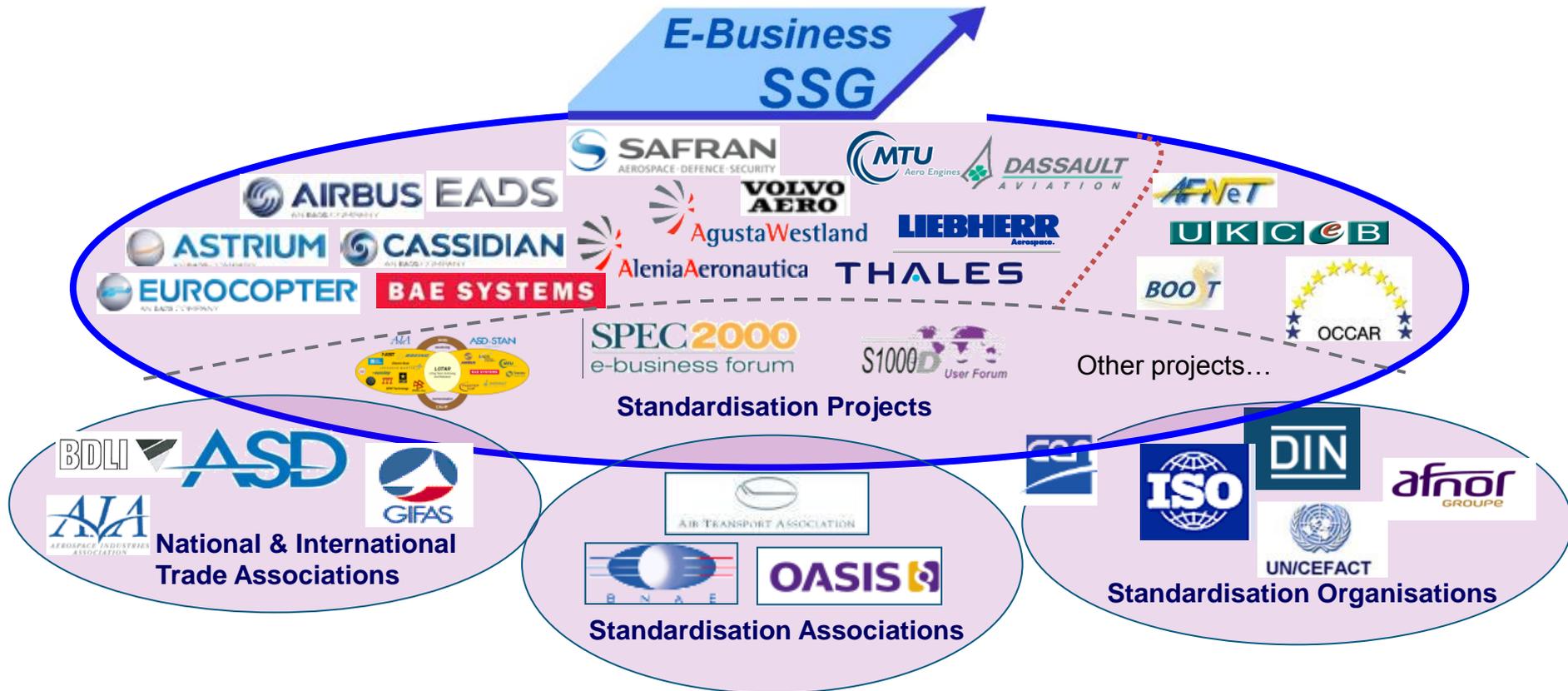
- Identifying a set of standards to use or to develop in order to cover the full spectrum of needs for eBusiness;
- Proposing and applying governance tools at strategic and technical level (e.g. radar screen)
- Developing a network of experts
- Developing liaisons with all relevant standardisation organisations
 - *Including an MoU with AIA.....*



5/23/2012

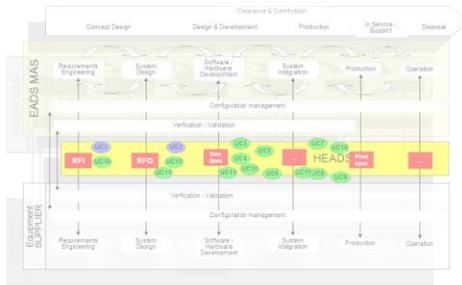


Drive for co-ordination and coherence...

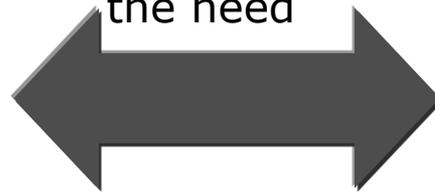


Interoperability framework: organizing the tools to master business requirements and consistency

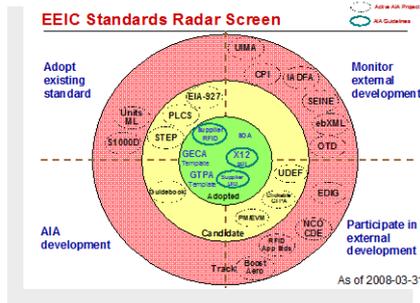
Business Scenario & Use Cases



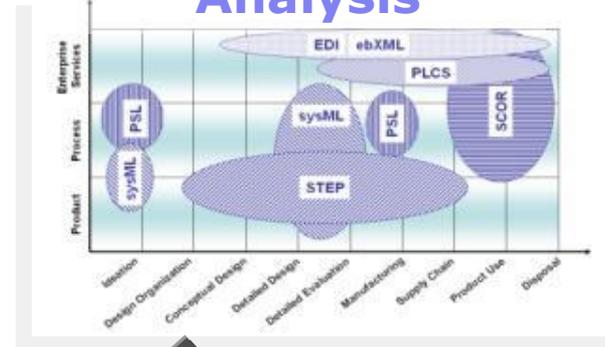
Identify & describe
the need



Radar Screen

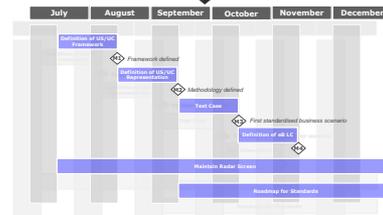


Life Cycle Gap Analysis



Address the need

Roadmap



Develop standards & policies

Typical 'blip' S1000D Specification for Technical Publications

Abstract

- The International specification for technical publications utilizing a common source database, commonly known as S1000D, has been produced to establish standards for the documentation of any civil or military vehicle or equipment. It is based on international standards such as SGML/XML and CGM for production and use of electronic documentation.
- In addition, it defines a Common Source Data Base (CSDB) to provide source information for compilation of the publications and for use in electronic logistics information systems to deliver modules of information direct to the user.
- More recently, it has been linked to the PLCS development, which enables the compilation of technical documentation direct from the current product structure, and to SCORM, for training materials

*Click the icon below
to view the details.*



Back to the Radar





Visit us at <http://www.asd-ssg.org>

ASD www.asd-europe.org
ASD-STAN www.asd-stan.org

Parent organisations

The ASD Strategic Standardization Group (SSG)

About ASD Strategic Standardization Group

New!!

AIA and ASD just signed an MoU on eBusiness standards, covering joint activities between ASD SSG and AIA

[More information](#)

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- [Terms of Reference](#)
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- [Work Groups](#)

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•Projects

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- [ILS suite of specifications](#)
- [LOTAR](#)
- [STEP AP242](#)
- [TDP Message](#)
- [TSCP](#)

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Web Content Display Overview

The Strategic Standardization Group (SSG) was setup in October 2008 by a group of European manufacturers, A&D associations and military governmental agency in order to share efforts of development of common A&D e-Business standards and associated harmonized European policies for operational use.

What is on this portal Both are understood today as two strategic levers of competitiveness for all the A&D manufactures and their supply chains (New role of the Original Equipment Manufacturer as System Integrator, and product & process Information Integrator).

The ASD SSG does not aim to create new eBusiness standards but to **support effective governance at European level of International and European standards:**

1. Identifying set of standards to use or to develop in order to cover the full spectrum of needs for eBusiness;
2. Proposing and applying governance tools at strategic and technical level (e.g. radar screen, interoperability framework, assessment process)
3. Developing a network of experts
4. Developing liaisons with all relevant standardization organizations

Collaboration with AIA (U.-S.)

The ASD SSG has established a collaboration with the American Aerospace Industries Association (AIA) and ASD SSG re-use several of the methods initiated by the AIA Electronic Enterprise Integration Committee (EEIC), (like the Radar Chart representation).

We encourage you to visit their site at:

http://www.aia-aerospace.org/resource_center/ebusiness/

Through-Lifecycle Interoperability

SSG Intent:

- Develop a coherent set of specifications that are interoperable with specifications within its own domain as well as other specifications from other domains:
- To minimize project dependency by defining clear guidance and by avoiding inclusion of project and national specific rules and constructs
- To ensure commonality between related specifications to support the re-use across projects
- To establish a well-defined data transfer mechanism between the different disciplines based on PLCS.
- To cover all aspects of business interface activities over the entire life cycle of a product.
- To be the contractual baseline for industry and customers
- To be up to date with the technical development and changes



5/23/2012





Development and governance of the core suite of STEP standards for PLM interoperability



Process & use cases

Information

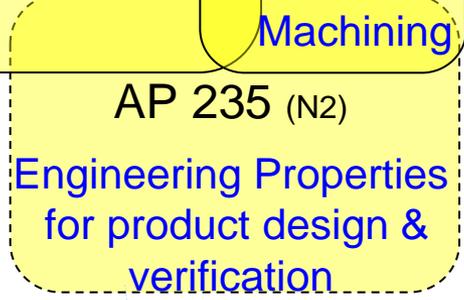
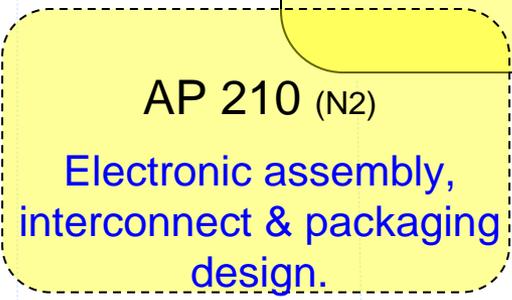
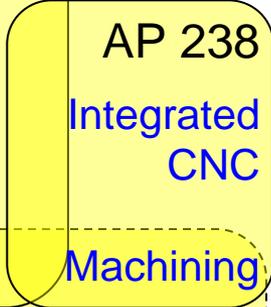
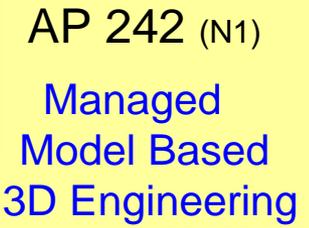
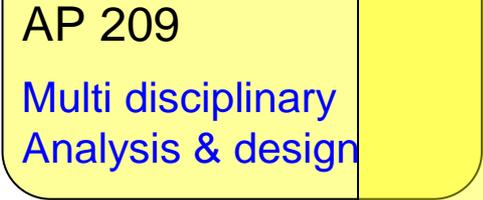
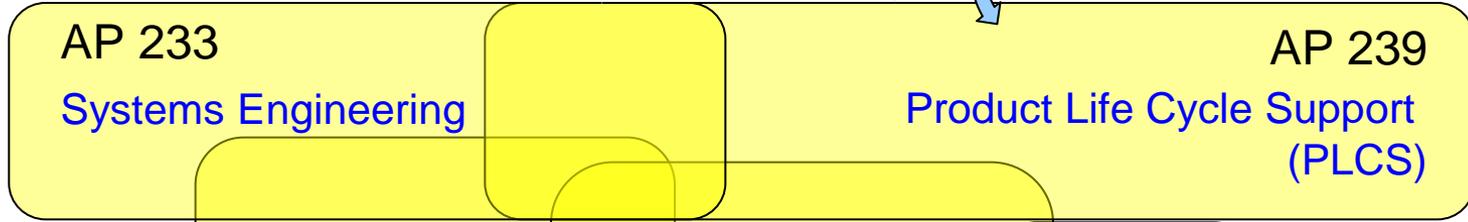
Concept Simulation Definition Manufacturing Support



← Standards for processes and Engineering methods not described →

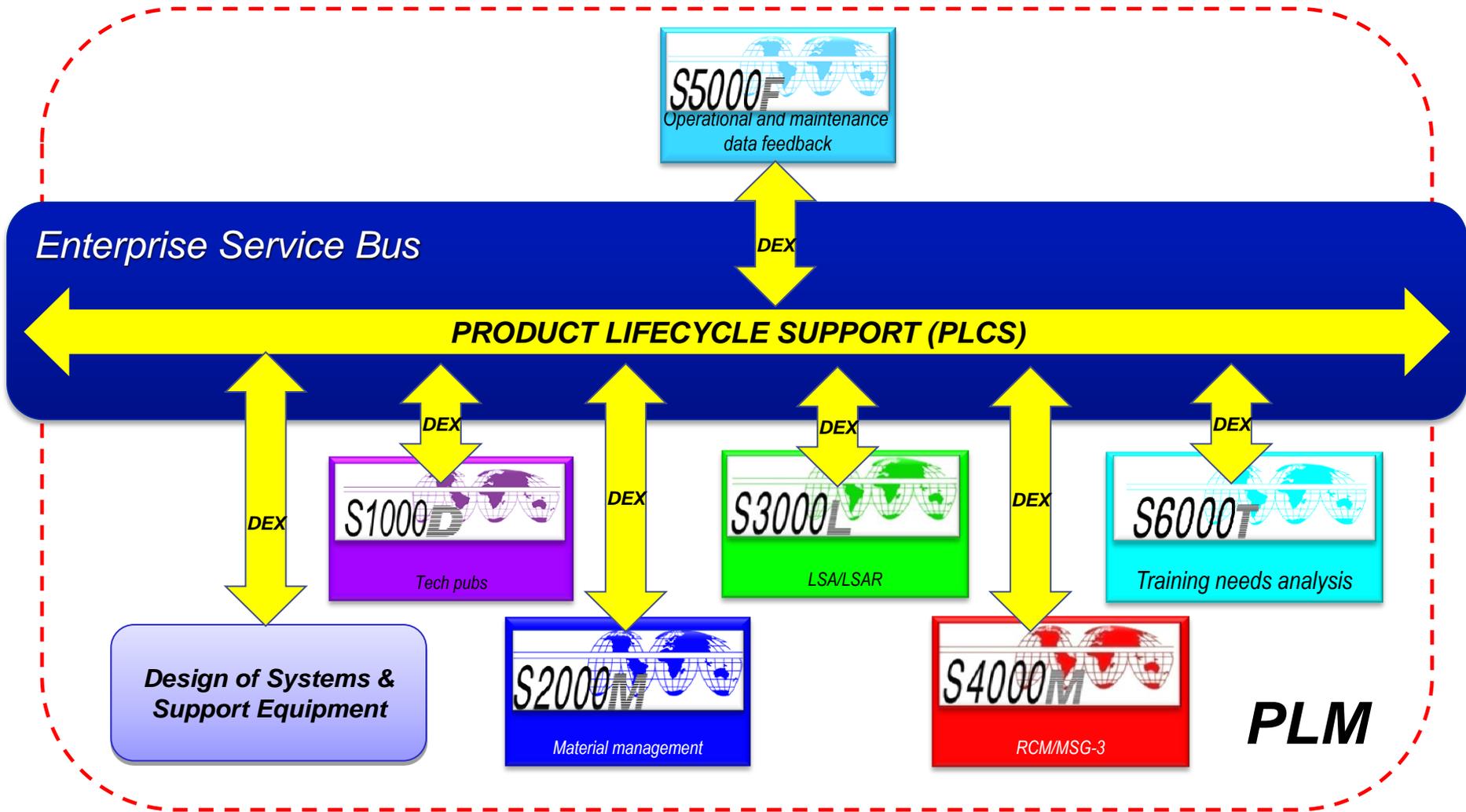
N1: STEP AP 242: Convergence of AP 203 and AP 214
N2: study not started

Based on PLCS Suite of AIA - ASD ILS Specs (SX000)



Industry Specifications in PLM

➤ Product Life-Cycle Management using S-Series.



Key messages

- 1 A consistent set of e-business standards is being identified, assessed, developed and implemented in answer to European Aerospace, Space & Defence Industry business needs
- 2 ASD SSG provides the needed capability:
 - Consensus at European AeroSpace & Defence industry level
 - Supported by National Trade Associations
 - Co-ordinated with US activities
- 3 The set of coherent and consistent standards / specifications have been identified and adoption and exploitation is in progress – The ‘Radar Chart’
- 4 Several projects have been launched / completed to fill gaps, eg. Long Term Archiving and Retention (LOTAR), Technical Data Package TDP)
- 5 A Through-Lifecycle Interoperability technical paper is in work

➔ **ASD SSG seeks the widest participation and contributions!**

