AIA /ATA/ ASD
S1000D Users Forum

“S1000D: Realizing the Benefits of Integrated Logistics Support”

October 12- October 15, 2009
Crown Plaza Hilton Head Resort, Hilton Head, SC, USA

ASD Overview
Carl Wilén
Saab Aerotech
ASD - AeroSpace and Defence Industries Association of Europe
ASD Mission

The overall mission is to enhance the competitive development of the **Aeronautics, Space and Defense industry in Europe**

- Represent the European industrial sector
- Offer a single point of contact
- Facilitate the development of SMEs and the Equipment sector
- **Promote international cooperation**, lead the dialogue with other International Associations and Organizations and represent the European Aerospace and Defense industry

SME – Small and Medium sized Enterprises
Representing more than 2,000 companies
600,000 employees

20 member countries*
30 member associations

* Bulgaria and Romania currently in process
Discussed new organization

Aftermarket Commission
Space
Research & Technology
Equipment
SME
Defence
Air Transport
External Affairs

ILS Committee

MRO Committee

ILS Spec Management Group

ASD-STE100
S1000D
S2000M
S3000I
S4000M
S5000F

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Draft objectives
Aftermarket commission

• Support the definition of specifications, procedures and guidelines for the development, support and maintenance of cost-effective services

• Liaise with other European and international associations (AEA, UKCeB, ATA, AIA and others) and relevant agencies and institutions (NATO, OCCAR, EDA, CEN)

• Develop synergies between civil and defence ILS & MRO

• Act as a common European forum for the Maintenance, Repair and Overhaul sector within the ASD industrial community
"First generation" international ILS specifications
First generation international ILS specifications

ASD Simplified Technical English

International specification for technical publications utilizing a common source database

International specification for material management
Aquisition logistics main business processes

According to NATO Acquisition logistics workshop in 1993

Design of systems and support equipment

Logistic Support Analysis activities

Provisioning

Order administration

In-service use

OPS Data

Provisioning data

Logs mat and data

S2000M

S1000D

Design data

IP Data Subsets

Technical Publications

IETM, other media

Source: EADS - Saab

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International specification for technical publications utilizing a common source database
A specification for **generation, maintenance and distribution** of **Technical publications** in digital format using a Common Source Data Base

- First issue in 1989
- Used in all major multinational NATO programs
- Maintained by a collaborative, international organization with military, civil and industrial participation under the umbrella of the ASD – AIA – ATA
- Supports all features of page-oriented and interactive electronic technical publications

ASD – AeroSpace and Defence Industries Association of Europe
AIA – Aerospace Industries Association of America
ATA – The Air Transport Association of America
History

- Initiated by European defence customers and European Industry – Jan 1985
- First Issue – June 1989
- American industry (AIA) joined in 2001
- Civil aviation (ATA) joined in 2005
- Now a common international specification developed by ASD, AIA and ATA including their customers
- Distributed in electronic format (pdf) - free of charge
International specification for material management
S2000M – Material provisioning

- A specification for **materiel management** of defence products based on integrated data processing and electronic data interchange
  - First issue 1988
  - Used in all major multinational NATO programs
  - Maintained by a collaborative, international organisation (MCG) with military and industrial participation under the umbrella of the ASD
Supported materiel management processes

- Provisioning
- Codification
- Procurement planning
- Order administration
- Invoicing
- Repair administration

* - Illustrated Parts Catalogue (IPC) is covered under S1000D
S2000M

International Specification for material management

Integrated data processing for military equipment

Issue 4.0 released in Oct 2005

Includes a S2000M Light

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"Second generation" international ILS specifications
Implementation of the vision ...

a neutral ILS data base and neutral
data exchange packages
Product Life Cycle Support (PLCS)

- **Product description**
- **Work management**
- **Property, state and behavior**
- **Support solution and environment**
"Third generation" international ILS specifications
Third generation international ILS specifications

International procedure specification for Logistics Support Analysis

International procedure handbook for the development of scheduled maintenance programs

International specification for operational and maintenance feedback
Aquisition logistics main business processes

... one of the starting points of S3000L working group
Project "data"

- January 2006  Inaugural meeting in Brussels
- March 2006  Kickoff meeting in Munich
- June 2009  Draft 0.1 released

- US and European Aerospace Industry were represented each by a chairman
- Supported by workpackage managers

- EADS
- Boeing
- EADS CASA
- AgustaWestland

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The new "1388-1A/2B"

Data element list

The data to be transmitted by PLUS

DEX3A&D Task

Draft 0.1 available for comments

International procedure handbook for Logistics Support Analysis LSA
Aquisition logistics main business processes

S4000M ~ Reliability Centred Maintenance
Project "data"

• Project start: January 2005  Kick-off meeting in Munich
• Draft 0.1 released: June 2009
• Chaired by EADS Casa (Spain)
• Supported by workpackage managers
A "fusion" of MSG-3 and RCM

Draft 0.1 available for comments

Iss 1.0 planned for release Q1 2010
Aquisition logistics main business processes

Operational and maintenance data feedback

OPS Data

Logistic Support Analysis activities

Provisioning

Order administration

Log mat and data

Technical publications

Design data

In service use

Design of systems and support equipment

Equipment identification design data

S3000L S4000M

S2000M

S5000F

Source: EADS - Saab
Project "data"

Project start: October 2008
Kick-off meeting in Munich
Planned Draft 0.1: September 2010
Planned Issue 1.0: Q1 2011

- US and European Aerospace Industry are represented each by a **chairman**
- Supported by **work package managers**
Data exchange between the ASD specifications
Data exchange by DEXes

DEX - Data EXchange specification
Subsets of the AP239 (PLCS) Information model

Logistic Support Analysis activities

Operational and maintenance data feedback

Design of systems and support equipment

In service use

Source: EADS - Saab
Data exchange by DEXes

Operational and maintenance data feedback

- S1000D
- S2000M
- S5000F
- S3000L
- S4000M
- S1003X
- Logistic Support Analysis activities
- Provisioning
- Order administration
- Provisioning data
- Log mat and data
- In service use
- Design of systems and support equipment
- Equipment identification design data
- OPS Data
- LSA data
- IP Data Subsets
- LSA tasks/data
- Design data
- Technical documentation
- IETM, other media

Source: EADS - Saab
S1003X - S1000D and S3000L
interface specification

• A supporting specification to implement DEX3A&D
• Specifies data required from the Product Development and Logistic Support Analysis (LSA) activities, in order to produce task related data modules in S1000D
• Includes mapping to:
  – S1000D Maintenance Procedure XML Schema
  – S1000D Maintenance Planning XML Schema
  – S1000D Applicability Cross-reference Table XML Schema
  – S1000D Conditions Cross-reference Table XML Schema
What’s next to do with the "Third generation" international ILS specifications
Commenting phase

• A four months commenting phase follows the official publication event in June 2009 at ASD in Brussels,
  – 2009-06-25 thru 2009-10-31
• Improvements based on the comments will be incorporated into Issue 1.0 of S3000L, S1003X and S4000M.

• Comments should be send to:
  – European chairman: Peter Eichmüller
  – peter.eichmueller@eads.com
  – US chairman: Bill Foreman
  – bill.foreman@boeing.com

• Prel release of S3000L, S1003X and S4000M at Iss 1.0 - 2010 Q1
Welcome to the portal for the preparation and promotion of European standards (EN) for aerospace application.

Latest documents:
- prEN9110 Ed.P.3 - Aerospace series - Quality Management Systems - Requirements for Aviation Maintenance Organizations
- prEN2283 Ed.P.1 - Aerospace series - Testing of aircraft wiring
- prEN3475-100 Ed.P.4 - Aerospace series - Cables, electrical, aircraft use - Test methods - Part 100: General
- prEN3475-307 Ed.P.2 - Aerospace series - Cables, electrical, aircraft use - Test methods - Part 207: Corona extinction voltage

Events and exhibitions:
Please note that the kick-off meeting for CEN WS 10 Phase III is scheduled for 08 October. The announcement has now been put on CEN Home Page (see www.cen.eu).

For those of you interested in attending, please note that registration is mandatory!
Copy-Paste the link below for direct access to the registration form:

Products and Services:
- Latest Print outs
- Catalog
- Online store
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- ASD Documents

Newsroom and communications:
The long awaited new editions of
- prEN 9100 Quality Management System Standard
- prEN9110 for QMS Maintenance Organizations
- prEN9120 for QMS Stockists/Distributors
are available!!!

Please contact sales@asd-stan.org to place your order or go to our online store section.

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The ASD suite of ILS specifications
The ASD suite of ILS specifications

- **S1000D**: Tech pubs
- **S2000**: Material management
- **S3000L**: LSA/LSAR
- **S4000M**: RCM/MSG-3
- **S5000F**: Interchange spec
- **S9000D**: Operational and maintenance data feedback
- **SX000I**: ILS Handbook

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Questions!?