S2000M

INTERNATIONAL SPECIFICATION
FOR
MATERIEL MANAGEMENT

by

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(S2000M Steering Committee chair)
Content:

- Aim and structure of the S2000M
- Location of the S2000M within the ILS process
- Steps to integrate the S2000M into the ILS Suite
Aim:

• S2000M defines the Materiel Management processes and procedures to be used in support of a product
• The S2000M describes the business relationship between Industry and Customer by providing the process flow, the relevant transactions and data elements used for the Materiel Management
The processes of Materiel Management are defined by the following chapters of the S2000M:

- Chapter 1 - Materiel Planning
- Chapter 2 - Procurement Planning/Pricing
- Chapter 3 - Order Administration
- Chapter 4 - Invoicing
Chapter 1: Materiel Planning

Materiel Planning is the process of selecting spares and support items, necessary for the support of any product

- ... defines how to provide the provisioning information to the Customer
- ... provides the data basis from which Illustrated Parts Catalogues (IPC) or Illustrated Parts Data Publication (IPDP) are produced (S1000D)
- ... defines data exchange between Industry and the National Codification Bureaus for NATO Codification
Deliverable of Materiel Planning

Item breakdown in disassembly order with all valid spare parts as selected according to the Maintenance Concept
Materiel Planning process flow:

**Input**
- Logistic Support
  - Analyses
- Maintenance Concept
  - Spares
  - Tooling/special Equipment
- Design Drawings
  - Engineering
  + Manufacturer
- Transportation
  + Storage-Info.
  - Customer
  + Manufacturer
- Commercial Information

**NATO-Codification**
- NCBs

**Output**
- Request
  - Approved
- Nato-Stock-Number

**Usage**
- Material Supply
  - (Initial Provisioning/Reprovisioning)
  - i.a.w. S2000M
  - Chapter 2 to 4

**IPD**
- Illustrated Parts Data

**IPL**
- Initial Provisioning List

**PAM**
- Pre-Assessment-Meeting with Customer

- about 100 Data elements

**Materiel Planning process flow:**

**Input**

Logistic Support Analyses
- Maintenance Concept
  - Spares
  - Tooling/special Equipment

Design Drawings
- Engineering
  + Manufacturer

Transportation
- Storage-Info.
- Customer
  + Manufacturer

Commercial Information

**Output**

NATO-Codification
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**Usage**

Material Supply (Initial Provisioning/Reprovisioning)
- i.a.w. S2000M
- Chapter 2 to 4

**IPD**
- Illustrated Parts Data

**IPL**
- Initial Provisioning List

**PAM**
- Pre-Assessment-Meeting with Customer

- about 100 Data elements
Materiel Management process flow:

**INPUT**
- LORA / LSA
- Maintenance Concept
- PDM/Bill of Material
- Drawing
- IPL (recommended spares parts)
- Prices
- IPL
- Prices/Conditions
- Spares requirement
- Order
- Prices/Conditions
- Delivery

**PROCESS**
- Material Planning (Chapter 1)
- Procurement Planning (Chapter 2)
- Order Administration & Delivery (Chapter 3)
- Invoicing (Chapter 4)

**OUTPUT**
- IPL (structure in disassembly order)
- IPD (according to S1000D)
- Price Lists (CPL)
- Quotations
- Conditions
- Order Placement/Progression
- Delivery of Items
- Invoicing/Payment
Chapter 2, 3 and 4 are providing the features for Material Supply

Chapter 2: Procurement Planning
This Chapter defines methods for Industry to provide pricing information on parts to the Customer

- via price lists
- via a quotation process
- via order based pricing
- also national pricing regulation are covered (provisional prices / fixed prices)
Chapter 3: (OA) Order Administration

Order Administration covers the process of order placement, and the flow of information concerning the progress of orders and deliveries

- Order Placement (for spares, support equipment, Mod Sets, repair or other services)
- Order Response (acceptance / rejection)
- Order Progression (changes / response to changes by Customer or Contractor)
- Delivery information
- Delivery response
Chapter 4: (INV) Invoicing

Invoicing provides a standard process of transmitting invoice data and invoice response information between the Contractor and Customer.

National Pricing Regulations requires

– Provisional Invoicing
– Final Invoicing
– Invoice Adjustment
Location within the ILS Suite

Operational and maintenance data feedback

Operational data

Design of systems and support equipment

Design data

Logistic Support Analysis activities

Task data

Scheduled maintenance analysis activities

S3000L

Provisioning Ch 1

Order administration Ch 3

(Ch 2 and 4)

Technical publications

IETM, other media

Logs mat and data

S2000M

S5000F

S1000D

S2000M

In service use

International handbook for integrated logistic support

5/23/2012
Integration into the ILS Suite

Operational and maintenance data feedback

Design of systems and support equipment

Logistic Support Analysis activities

Scheduled maintenance analysis activities

Operational data

Design data

Operational data

Task data

Supply and Commercial Issues are not covered by ISO 10303 AP 239 PLCS

Order administration

In service use

International handbook for integrated logistic support
Integration into the ILS Suite

Operational and maintenance data feedback

Operational data

Logistic Support Analysis activities

Scheduled maintenance analysis activities

Provisioning

Ch 1

Order administration

Ch 3

(Ch 2 and 4)

Logs, mat and data

SSSCTT

PLCSST

In service use

International handbook for integrated logistic support

Design of systems and support equipment

Operational data

Design data

Design data

Design data

Design data

Design data

S3000L

S3000M

S1000X

S1000D

S2000X

S2000M

S5000F

SX000i

Aerospace Industries Association

AeroSpace and Defence Industries Association of Europe

5/23/2012
PLCSTT
S2000M Product Life Cycle Support Task Team

• S2000M Task Team to align the S2000M Chapter 1 with ISO 10303 STEP AP 239 PLCS

in order to

• integrate the S2000M Chapter 1 into the ILS-Suite of Specifications
• harmonize the definition and use of common Data Elements
• define the interface DEX’s from/to other Specs
• redefine the current Chapter 1 messages as DEX’s as well.
SSSCTT
Simplification of S2000M Supply Chain Task Team

• S2000M Task Team to simplify the S2000M Chapter 2 to 4 in order to
• reduce the complexity of S2000M Chapter 2 to 4
• simplify the structure of the Chapter 2 to 4 messages
• remodeling of Chapter 2 to 4 for easier integration into widely used ERP systems.
Current status:

Issue 5.0 has been distributed to ASD for publishing on ASD-Stan Web-Page

http://www.asd-stan.org/

Issue 6.0 (integration of PLCSTT and SSSCTT results) planned for mid of 2013
Questions?