“S1000D: Realizing the Benefits of Integrated Logistics Support”

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

S2000M - Consistent parts data throughout ILS
by
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Content:

1. Aim and structure of the S2000M

2. Location of the S2000M within the ILS concept

3. What's next
S2000M Materiel Management

• S2000M defines the Materiel Management processes and procedures to be used in support of any military Product
  – Although this Specification is designed for military Product support, it may nevertheless be used for the support of any non-military 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 S2000M is organized into basic chapters:

- Chapter 1 Provisioning General
- Chapter 2 Pricing
- Chapter 3 Order Administration
- Chapter 4 Invoicing
- ...
S2000M Materiel Management

S2000M Information Flow

INPUT
- vendor input
- PDM/bill of material drawings
- LORA/maint.concept

PROCESS
- Materiel Planning (Ch 1 - MP)
- Procurement Planning (Ch 2 - PP)
- Order Administration Delivery (Ch 3 - OA)
- Invoicing (Ch 4 - IV)

OUTPUT
- IPL (breakdown structure in disassembly order / valid parts)
- Price Lists
- Quotations
- Price conditions
- Delivery
- Invoice / Payment

IPL (recommended spares parts)

Prices

Prices / Conditions

Order

Delivery

Order

Prices / Condition

Delivery
Chapter 1: (MP) Provisioning General

Provisioning is the process of selecting spares and support items, necessary for the support of any military Product

- This chapter defines how to provide the provisioning information to the Customer
- It also provides the data base from which Illustrated Parts Catalogues (IPC) or Illustrated Parts Data Publication (IPDP) are produced → S1000D.
- The NATO Codification processes and information are covered for data exchange between Industry, the National Codification Bureau and the Customer
- The data updating procedure is covered.
Chapter 2, 3 and 4 are providing the features for Material Supply

Chapter 2: (PP) Pricing
This Chapter defines methods for Industry to provide pricing information on parts to the Customer
- via Price List
- 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, AGE, ModSets, repair or other services
- Order Response
  (acceptance / rejection)
- Order Change
  (by Customer or Contractor)
- Change Response
- Delivery Information
- Delivery Response
- Hastening
Chapter 4: (INV) Invoicing

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

National Pricing Regulations requires
- Provisional Invoicing
- Final Invoicing
- Invoice Adjustment

Invoice Types for
- claim for payment
- for validation only
- summary invoice claim
### Integration of S2000M (Mat. Mgmt.) into the ILS Concept

#### Product Life Cycle

- **Definition**
- **Design**
- **Development**
- **Production**
- **Service**
- **End of Life**

#### Key Processes

- **LSA**
- **Mat. Mgmt.**
- **S2000M**
- **S3000L**
- **S1000D**
- **S4000M**
- **S5000F**
- **IP**
- **OA**
- **Tech. Pub.**
- **Data Feedback**
S2000M Materiel Management

Integration of S2000M (Mat. Mgmt.) into the ILS Concept

acc. to NATO Acquisition Logistics Workshop of 1993
Integration of S2000M (Mat. Mgmt.) into the ILS Concept

Design of Systems and Support Equipment

Maintenance Task Description
MTBF
LCN (ILSN))

Logistic Support Analysis activities

Equipment Identification Design Data

S3000L
S4000M

Part number with MFC, NSN, PLT, UOI, UOM, QUI ... and validity/service

Order Administration

In-Service Use

Logs Mat and Data

Technical Documentation

IETM, other media

acc. to NATO Acquisition Logistics Workshop of 1993
S2000M Materiel Management

Integration of S2000M (Mat. Mgmt.) into the ILS Concept

acc. to NATO Acquisition Logistics Workshop of 1993
next S2000M steps regarding ILS integration:

- continue investigation on how to transfer current ‘EDIFACT like’ messages into XML
- continue actions to analyze PLCS / DEXs for S2000M integration
- continue work on publication of the XML version of the S2000M
  - harmonization of XML publication standard with the other ASD specs
Thank you very much

Questions?
back-up information
S2000M - IPL sequence

2 Months is the minimum time according S2000M.

**MC** - Maintenance Concept  
**VDI** - Vendor Data Input  
**PAM** - Pre Assessment Meeting  
**LOD** - Last Order Date  
**ISD** - In Service Date  
**LSD** - Logistic Support Date  
**PP / OA / INV** - Reprovisioning

Diagram:
- **Initiation Codification**
- **Codification results**
- **Start IPD Production**
- **Start Updating**
- **S1000D**
- **MC - VDI - PDM**
- **Draft IPL**
- **PAM**
- **Master IPL**
- **OBS**
- **LOD**
- **PLT**
- **LSD**
- **ISD**

2 Months * Floating 
Initial Provisioning

Chapter 2 – 4
This Section 1A-7 presents the structure and format of the messages, which have been produced. The following formats will be used:

- Transmission of Provisioning data from Contractor to Customer
  - CSNIPD - CSN-orientated IP data
  - PNOIPD - PN-orientated IP data
  - UPIPCO - Category 1 Updating of IP data
  - UPIPCT - Category 2 Updating of IP data
  - UPIPPN - Updating of PN-orientated IP data
  - CORIPD - Correction of IP data
  - RESTIP - Restatement of IP-Data (introduced with issue 4.0)

- Transmission of Observations and Customer provided data
  - OBSINF

- Transmission of Codification requests from Contractor to Home NCB
  - CODREQ
S2000M Chapter 1 CSNIPD structure

IPH - Header Segment
Identification of the IP Project

VAS - Segment
Extension of IPH-segment, identifies the different variants

OHS - Segment
Free text

CAS - Segment
Association to the part-related data in the PAS-segment
Mandatory location-related data
Identification of the part applicable to the Location

CBS, CCS, CDS, CFS - Segment
Conditional - to be provided as requires by the item

CES - Segment
Mandatory, Service and SMR code

CJS - Segment
Mandatory associated with CES-segment
Identifies Aircraft or Engine Model Versions

CKS - Segment
Indicates the Effectivity

CIS - Segment
Indicates the Integrated Logistic Support Number
### CSNIPD Structure

**PAS – Segment**
Identifies the Part-related Data
The PAS-Segment and associated segments are to be provided once for each PN in the Project

**PBS – Segment**
Conditional - to be provided by the item
PBS - Segment contains mandatory data for recommended spares

**PES – Segment**
Contains data for repairable

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| PGS | SUU | SPU | WUU | WPU |

**S2000M Chapter 1**
Chapter 2 - pricing

... takes care about National Pricing Regulations and NPA price approval processes

Price Types:
- Indicative
- Provisional
- Maximum
- Fix
- ...

Price Transmissions:
- Price Lists
- RFQ – Quotation
- Order based Price

Price Validity:
- Date of Order
- Date of CDD
- Date of Delivery

Price Category:
- Order Price
- Price Break
- MSQ Price
- ...

...
Chapter 3 - Order Administration

Provisioning Category:
- Initial Provisioning
- Reprovisioning
- Spare
- Repair *
- AGE
- ModSet
- other Service
- Special Order
- Routine Order
- Expedite Order
- ....

Transaction Types:
- Order Placement
- Order Response (acceptance / rejection)
- Order Change (CUS/CON – QTY – FDD – PTY – UCD …)
- Change Response
- Delivery Information
- Delivery Response
- Hastening

* Repair within Chapter 3 (2 and 4) or i.a.w. Chapter 5
Chapter 4 - Invoicing

... considers impact of Chapter 2
(National Pricing Regulations)

Invoicing Category:
- Final Invoicing
- Provisional Invoicing
- Invoice Adjustment

Transaction Types:
- Invoice
  - for payment
  - for validation only
- Summary Invoice
- Payment Advice