



**INTERNATIONAL SPECIFICATION  
FOR  
MATERIEL MANAGEMENT**

*by*

***Karl-Heinz Haerdtl***

*(S2000M Steering Committee chair)*



5/23/2012



## 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



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## Structure:

The processes of Materiel Management are defined by the following chapters of the S2000M:

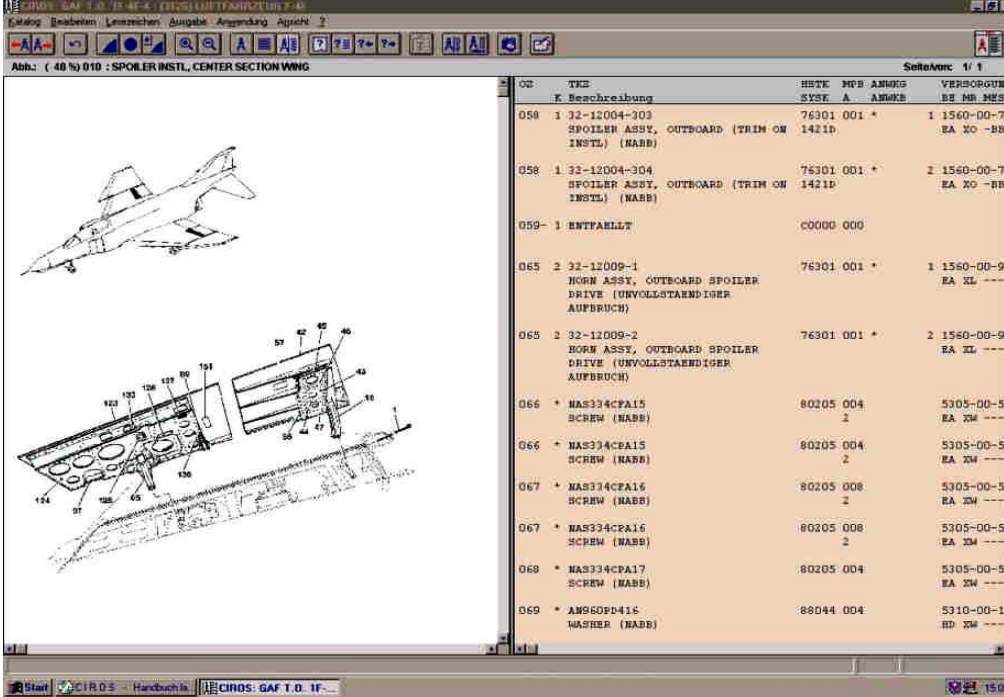
- Chapter 1 - Materiel Planning
- Chapter 2 - Procurement Planning/Pricing
- Chapter 3 - Order Administration
- Chapter 4 - Invoicing

- 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



The screenshot displays a CAD application window titled 'SPOILER.INSTL, CENTER SECTION WING'. On the left, a 3D wireframe model of a wing section is shown with various parts numbered. On the right, a table lists the parts in a disassembly order. The table has columns for 'QTY', 'TKZ', 'F. Beschreibung', 'HYTE', 'MFB', 'AMWG', 'VERSORGUNG', 'SYS', 'A', 'AMWK', 'BE', 'MR', 'MWS', and 'EA'. The parts listed include spoiler assemblies, horn assemblies, screws, and washers.

QTY	TKZ	F. Beschreibung	HYTE	MFB	AMWG	VERSORGUNG	SYS	A	AMWK	BE	MR	MWS
058	1	32-12004-303 SPOILER ASSY, OUTBOARD (TRIM ON INSTL) (NABB)	76301	001	*	1	1560-00-7			EA	XO	-RB
058	1	32-12004-304 SPOILER ASSY, OUTBOARD (TRIM ON INSTL) (NABB)	76301	001	*	2	1560-00-7			EA	XO	-RB
059	1	ENTFAELT				C0000	000					
065	2	32-12009-1 HORN ASSY, OUTBOARD SPOILER DRIVE (UNVOLLSTAENDIGER AUFBRUCH)	76301	001	*	1	1560-00-9			EA	XL	---
065	2	32-12009-2 HORN ASSY, OUTBOARD SPOILER DRIVE (UNVOLLSTAENDIGER AUFBRUCH)	76301	001	*	2	1560-00-9			EA	XL	---
066	*	HAS334CPA15 SCREW (NABB)	80205	004		2	5305-00-5			EA	XM	---
066	*	HAS334CPA15 SCREW (NABB)	80205	004		2	5305-00-5			EA	XM	---
067	*	HAS334CPA16 SCREW (NABB)	80205	008		2	5305-00-5			EA	XM	---
067	*	HAS334CPA16 SCREW (NABB)	80205	008		2	5305-00-5			EA	XM	---
068	*	HAS334CPA17 SCREW (NABB)	80205	004			5305-00-5			EA	XM	---
069	*	ANS60PD416 WASHER (NABB)	88044	004			5310-00-1			RD	XM	---

Item breakdown in disassembly order with all valid spare parts as selected according to the Maintenance Concept

# Material Planning process flow:



## Input

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

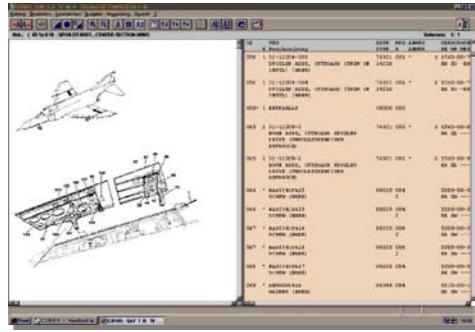
**Design Drawings Engineering + Manufacturer**

**Transportation + Storage-Info. Customer + Manufacturer**

**Commercial Information**

NATO-Codification  
 NCBs

Request ↑  
 ↓ Nato-Stock-Number



about 100 Data elements

Draft ↓  
 ↑ approval  
 PAM  
 Pre-Assessment-Meeting with Customer

## Output

**IPD**  
**Illustrated Parts Data**

**IPL**  
**Initial Provisioning List**

## Usage

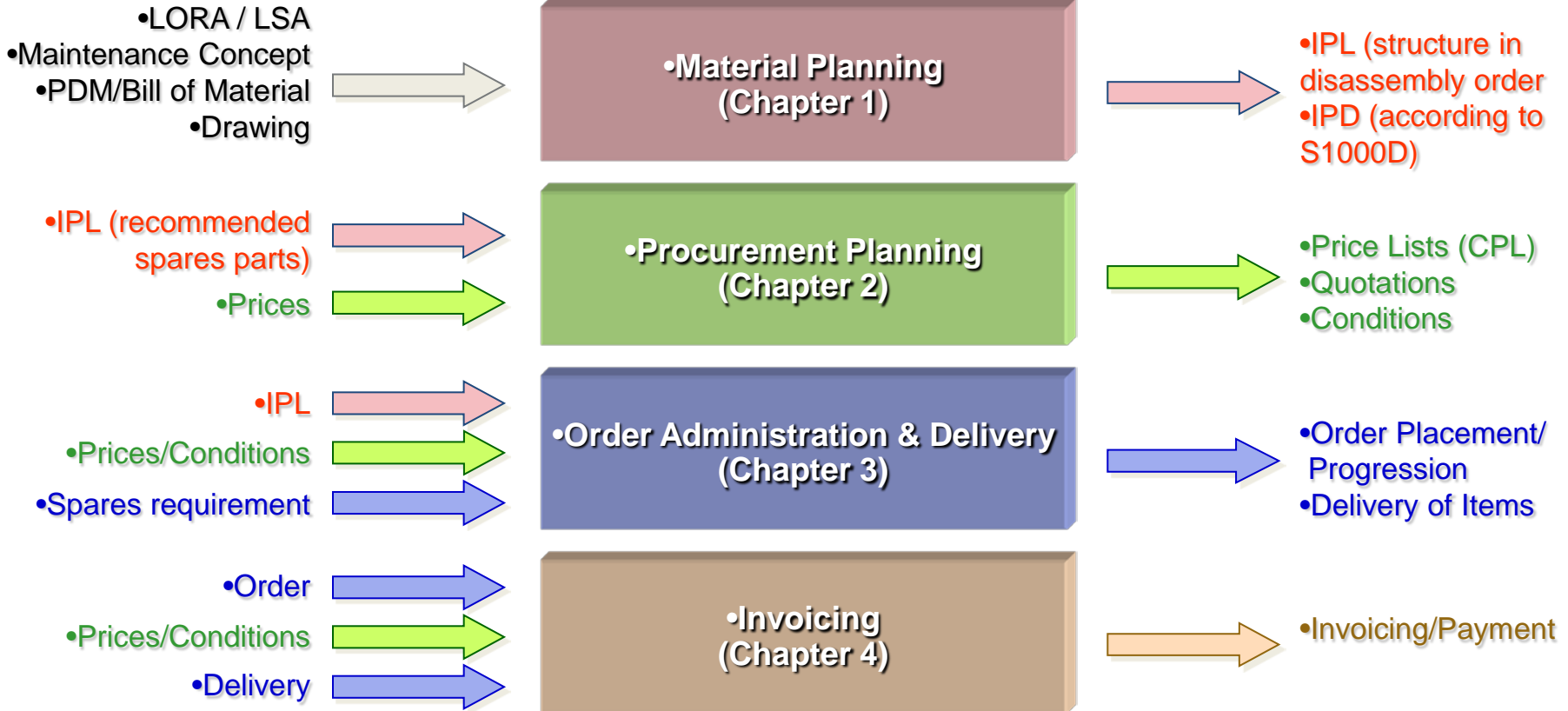
identify Spares for Maintenance/Repair

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





# Material Management process flow:





# 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

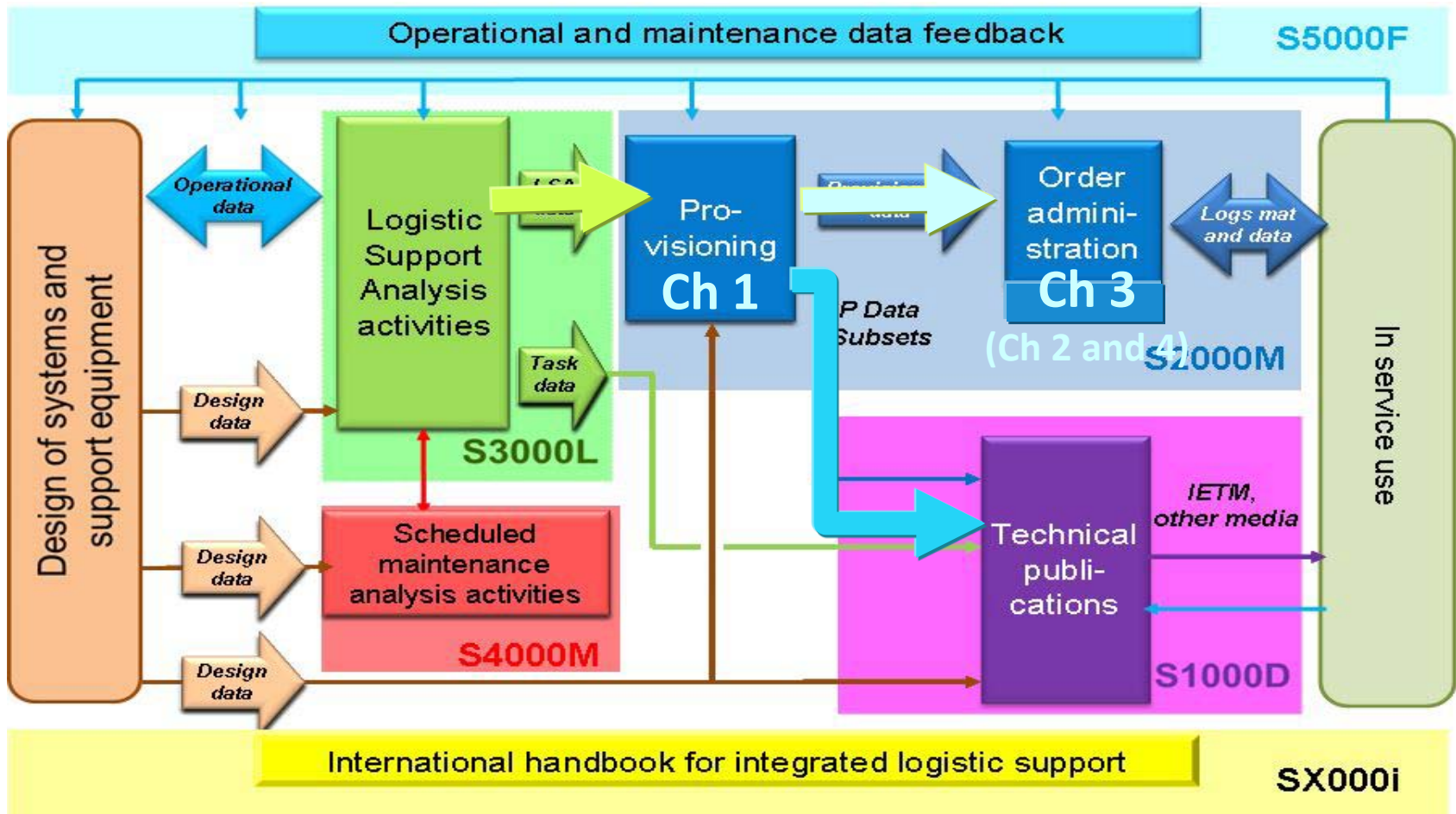
## Chapter 4: (INV) Invoicing

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

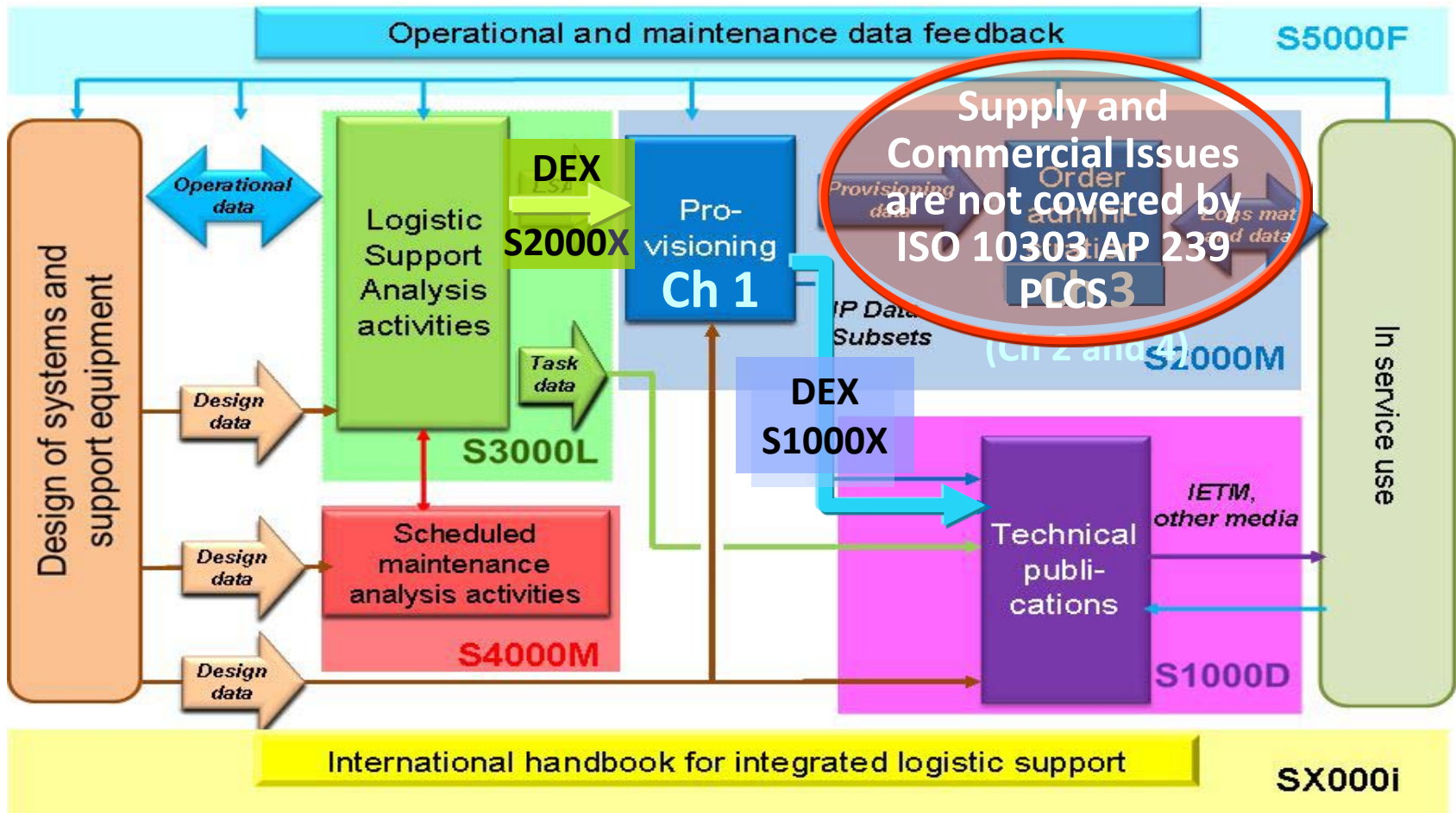
National Pricing Regulations requires

- Provisional Invoicing
- Final Invoicing
- Invoice Adjustment

# Location within the ILS Suite



# Integration into the ILS Suite

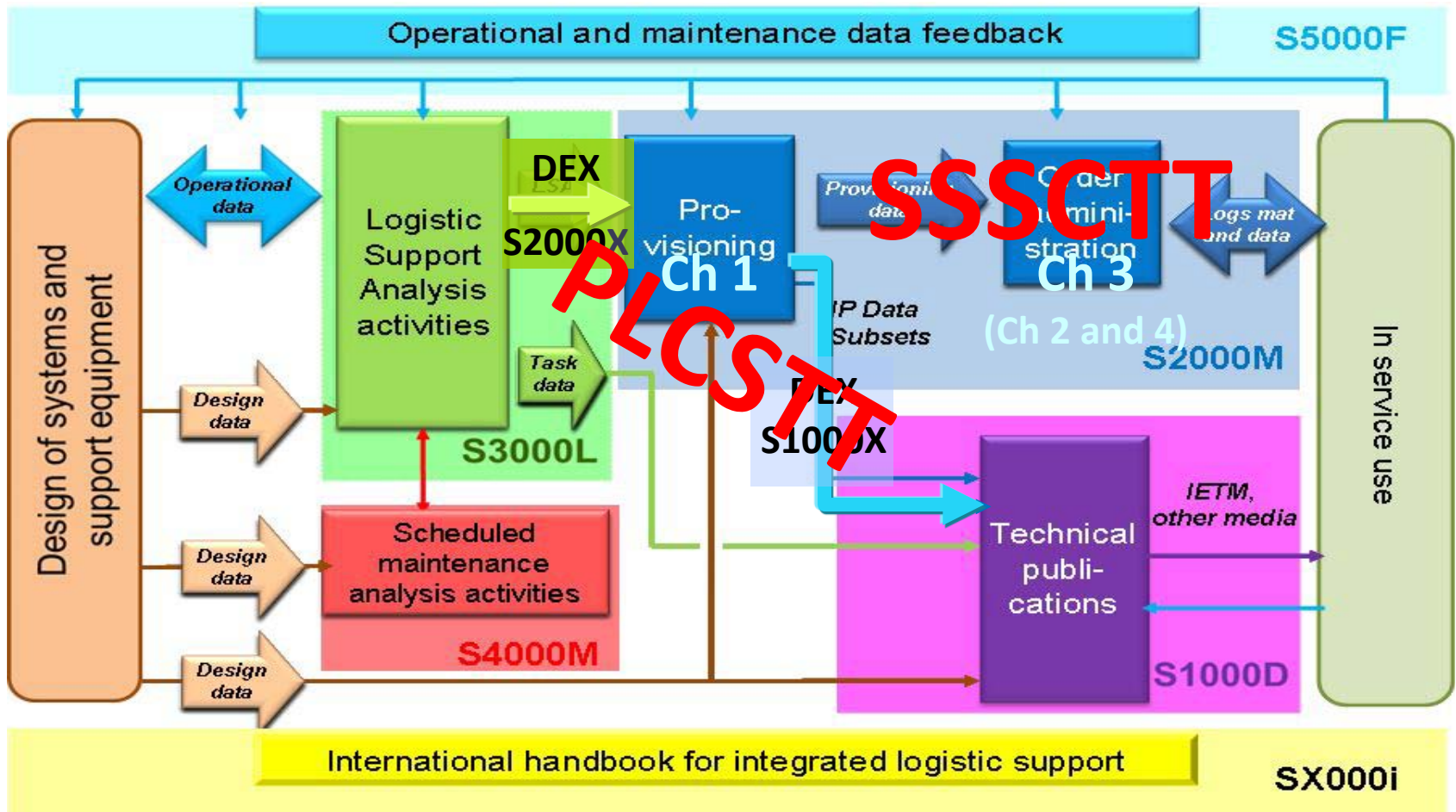


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# Integration into the ILS Suite



# PLCSTT



## S2000M **P**roduct **L**ife **C**ycle **S**upport **T**ask **T**eam

- 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.



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# 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.



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## 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



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# Questions?



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