

Standards and Specifications The Basis for Life Cycle Management in NATO

Peter Janatschek, DATAGROUP BGS ,Siegburg Germany

Chair NATO Industrial Advisory Group / Industrial Interface Group IIG

Managing Director CALS Forum Deutschland

Introduction

The presentation will show, how Life Cycle Management is organized in NATO and how international specifications , especially ASD1000D, fit into this framework and what should be done, to integrate this specification better into NATO logistics.

In 2006 NATO has adopted the System Life Cycle Management (SLCM) approach. The intention of the SLCM policy is to achieve an integrated approach to the delivery of defence related capabilities. At present NATO works to establish a common framework for describing and implementing life cycle management for NATO defence systems.

This framework comprises e.g. the principles of Integrated Logistics Support using proven standards and specifications covering the logistic processes over the life time of the system and representing the basis for procedures and tools ensuring the overall aim of SLCM, which is to fulfill the operational requirement for the system in all stages and phases over its life at affordable cost especially in a multinational environment.



CALS Forum Deutschland (CFD)

- As an association CALS Forum Deutschland (CFD) was founded in 2000.
- As an independent and competent platform CALS Forum Deutschland promotes the interests of its members regarding CALS vis-à-vis government and society, trade and industry and science and represents them vis-à-vis national and international organisations and authorities.
- In the CFD the members are concentrating their capabilities in the areas and disciplines of Life Cycle Management and Integration. Today CFD, being the centre of a network, represents an independent and competent logistics forum for both public users and industry. Since 2000 it has developed to become a centre for logistic competence focused on Life Cycle Management and Integration.

CFD – The Members

- CPM Communication Presse Marketing GmbH Sankt Augustin
- DATAGROUP Business Solutions GmbH
- DATAGROUP BGS GmbH Siegburg
- CORENA A/S
- EADS Cassidian Manching
- Formwerk AG Frankfurt/Main
- GPS now Sankt Augustin
- Hico Informations- und Kommunikations-Management GmbH, Eisenstadt,
- KESS DV- Beratung GmbH Hennef
- Mittler Report Verlag GmbH, Bonn
- SSC System Support Consulting GmbH München
- Systecon AB, Stockholm
- T-Systems Enterprise Services GmbH München
- Personal members

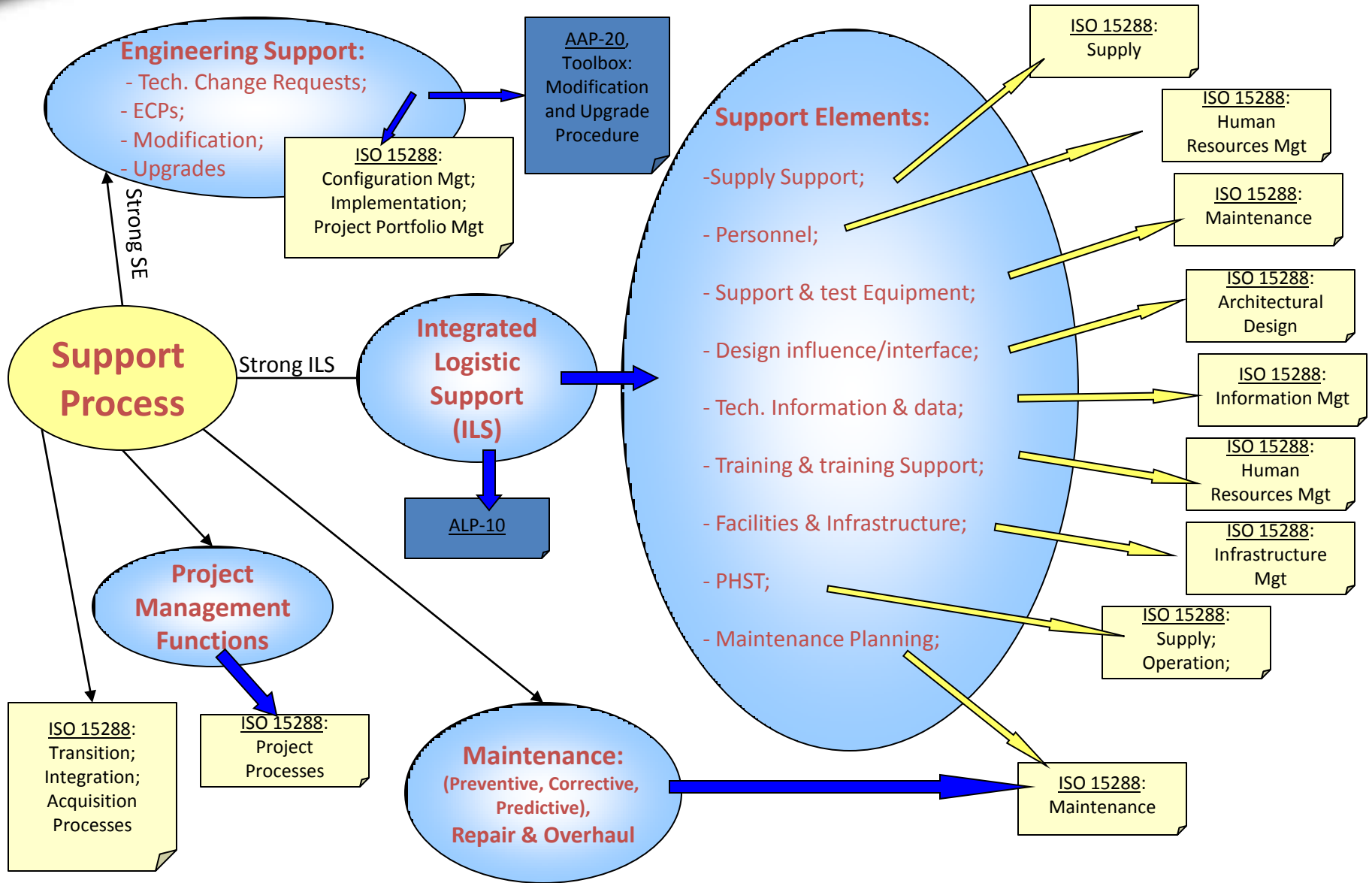
What are we talking about?

	Description	Example	
Policy <i>System Life Cycle (SLCM)</i>	<p style="text-align: center;">Life Cycle</p>  <p style="text-align: center;">7 Stages from Pre-Concept to Retirement</p>	Airbus 350	This is what we know
Enablers <i>Integrated Logistics Support (ILS)</i>	<p style="text-align: center;">ILS-Elements & Life Cycle Cost</p> <ul style="list-style-type: none"> • Maintenance Planning • Supply Support • Personnel • Support and Test Equipment • Design Influence / Interface • Technical Information and Data • Training and Training Support • Facilities and Infrastructure • Packaging, Handling, Storage and Transportation • Life Cycle Cost (LCC) 	Technical Information and Data	This is our world and we understand
Standards & Specifications	Functions & Processes IETD/IETM	ASD S1000D ASD S3000L ASD S2000M	Here we have the skill and the experts for - creating requirements for the stages - tailoring - workflow - versionmanagement - verification - integration with training etc - exchange processes - interfaces - products & tools
Data Elements Procedures Tools	DV IdentNr 1261 National Style Guide	ietd Suite	

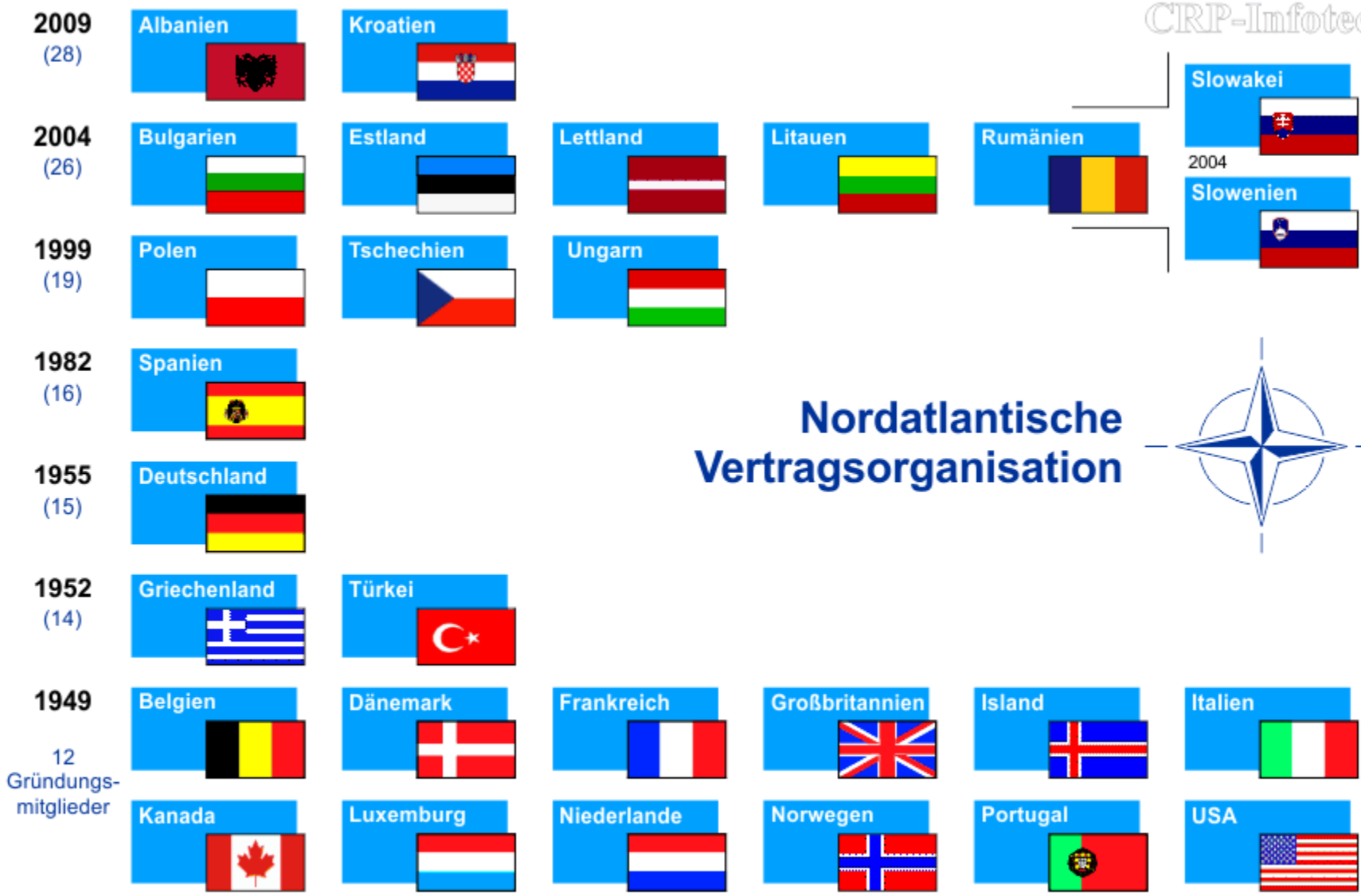
Do not ask the experts....



Support Process: Concept Diagram



Nordatlantische Vertragsorganisation



System Life Cycle

NATO Agreed Definition

Term: system life cycle / cycle de vie du système

Abbreviation: SLC

[AAP-48]

The evolution over time of a system-of-interest from conception through to retirement. [Derived from: ISO/IEC 15288:2008]

Note: In NATO, a system life cycle is comprised of stages; each stage is comprised of one or more processes and each process is comprised of a list of activities to be performed.

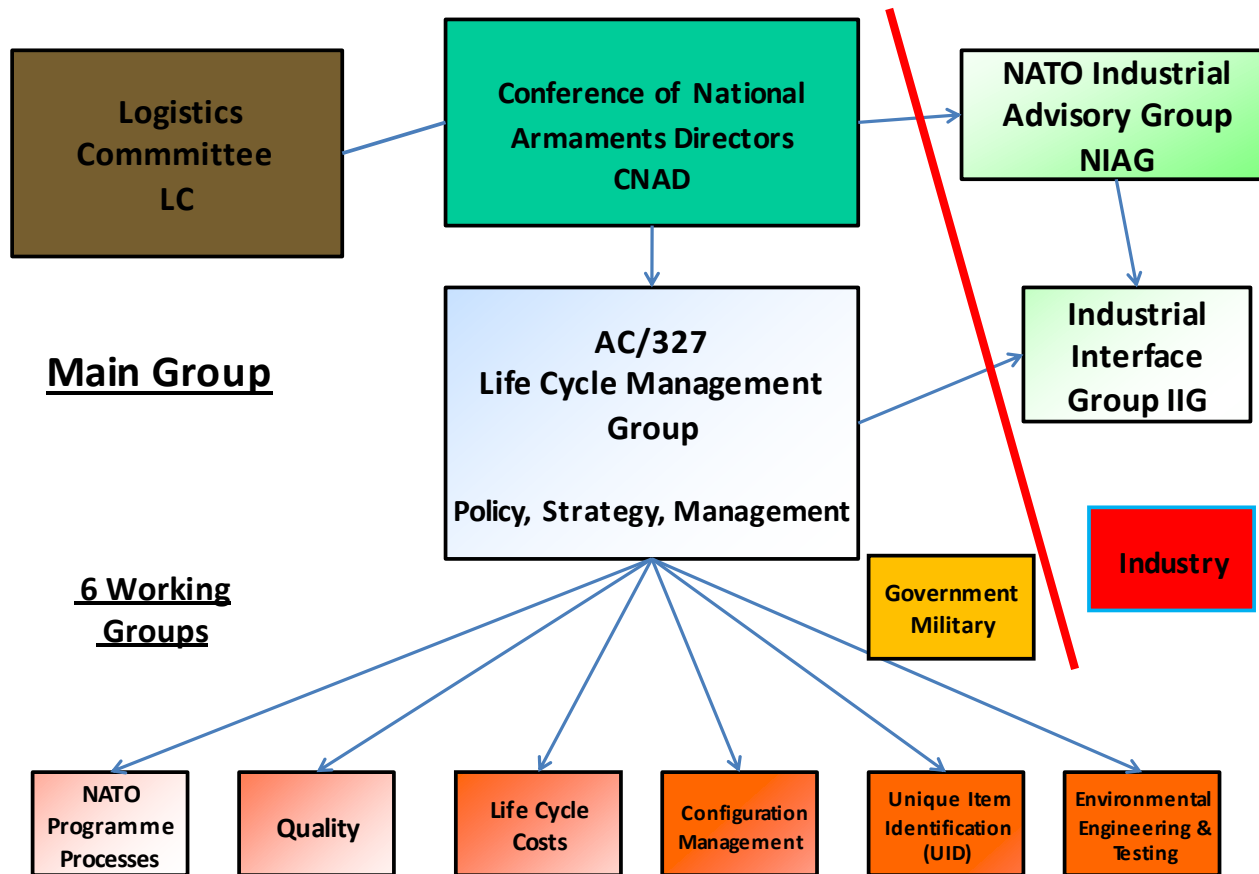
The Aim of SLCM

As described in the NATO Policy for Systems Life Cycle Management (SLCM), the aim of SLCM is to optimise defence capabilities over the life cycle of the **system** by taking into account performance, cost, schedule, quality, operational environments, integrated logistic support and obsolescence.

The system.....is an aircraft



SLCM Meeting Structure



IIG The Members

GERMANY

- DATAGROUP BGS GmbH
Peter Janatschek (Chair)

FRANCE

- DCNS Paris
Jean-Charles Boulat
- EADS France
Pascal Simonnet

GERMANY

- Cassidian Deutschland
Albert Grabmeier

NORWAY

- Jotne
Kjell Bengtsson

SPAIN

- EADS CASA
Javier Herrador

SWITZERLAND

- RUAG Schweiz AG
Peter Zeitner



UNITED KINGDOM

- Quotec, Switzerland
Alec Quaite

UNITED STATES

- Lockheed Martin Corporation
Pamela Rooney
- Camcode
Rob Leibrandt

What are we talking about?

	Description	Example	
Policy <i>System Life Cycle (SLCM)</i>	<p style="text-align: center;">Life Cycle</p>  <p style="text-align: center;">7 Stages from Pre-Concept to Retirement</p>	Airbus 350	This is what we know
Enablers <i>Integrated Logistics Support (ILS)</i>	<p style="text-align: center;">ILS-Elements & Life Cycle Cost</p> <ul style="list-style-type: none"> • Maintenance Planning • Supply Support • Personnel • Support and Test Equipment • Design Influence / Interface • Technical Information and Data • Training and Training Support • Facilities and Infrastructure • Packaging, Handling, Storage and Transportation • Life Cycle Cost (LCC) 	Technical Information and Data	This is our world and we understand
Standards & Specifications	Functions & Processes IETD/IETM	ASD S1000D ASD S3000L ASD S2000M	Here we have the skill and the experts for - creating requirements for the stages - tailoring - workflow - versionmanagement - verification - integration with training etc - exchange processes - interfaces - products & tools
Data Elements Procedures Tools	DV IdentNr 1261 National Style Guide	ietd Suite	

AC/327 Products

NATO POLICY FOR SYSTEMS LIFE CYCLE MANAGEMENT

AAP 48 NATO SYSTEM LIFE CYCLE STAGES AND PROCESSES

AAP-20 - Handbook on the Phased Armaments

Programming System (PAPS)

ALP-10 NATO GUIDANCE ON INTEGRATED LOGISTICS SUPPORT FOR
MULTINATIONAL ARMAMENT PROGRAMS

Allied Life Cycle Costs Publication (ALCCP) 4 on NATO Guidance on
Life Cycle Costs –

Allied Reliability and Maintenance Policy Publication (ARMP) 6 on Guidance for
Managing In-Service

AUIDP-1 NATO GUIDANCE ON UNIQUE IDENTIFICATION OF ITEMS

AAP- 123 - Configuration Management Guide

Handbook on Plans, Organisation and Working Procedures (LCM Handbook)

STANAG 370 - ENVIRONMENTAL TESTING –

AC 327-2000 - NATO Policy on Configuration Management

No ASD-specs!

STANAG vs STANREC

NATO STANDARDIZATION AGREEMENT

In response to the NATO Policy for System Life Cycle Management, C-M(2005)0108, participating nations agree to apply the common set of system life cycle management processes in armaments projects supporting NATO capabilities. The set of processes includes the ISO/IEC 15288:2008 processes and the additional NATO-specific processes as enumerated in AAP-48 „NATO System Life Cycle Stages and Processes“.

NATO STANDARDIZATION RECOMMENDATION

A STANREC is a non-binding document employed on a voluntary basis and does not require commitment of the Nations to implement the standards which are listed in it.

Thank you for your patience !

Contact: peter.janatschek@datagroup.de

CALS-Forum@t-online.de