



ASD/AIA specification – S5000F

International specification for operational and
maintenance data feedback

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S5000F Operational and Maintenance data feedback



Agenda

- Introduction
- Purpose of the specification
- Background and development history
- Integration in / interfaces to the S-Series
- Structure and content
- Use case oriented spec and examples of Use cases
- Ongoing work and next steps



Introduction

- Ramon Somoza – who am I?
 - Business development & Integration Platform Manager at Airbus Military
 - Member and data modeler of S5000F
 - Chairman of SX000i
 - Member of AIA/ASD ILS Council
 - Member of the ASD Standards Steering Group (SSG)
 - Software engineer, logistician, writer, translator, and a few more other things.



S5000F Purpose

- The purpose of using S5000F alone or together with the other S-series specification **is to obtain a structured way to handle operational and maintenance data feedback information from the operator.**
- By using the **same interfaces** (PLCS) for information handling this can be made **more efficient.**



S5000F Background and development history



- Operational and Maintenance Data Feedback is **one of the most important functions** of In Service Support
- The overall aim to be achieved through feedback of operational data is the **increase of fleet availability and optimization of effectiveness.**
- In addition operational and maintenance data is a firm requirement by Industry to agree to and manage **Performance Based Logistics (PBL) contracts** and to fulfill their obligations in the regard to product liability.



S5000F Development history

- During 2008 the AIA/ASD organization noted that there was a **need for a specification handling operational and maintenance data feedback** from the operational field to the maintainer and/or the original equipment manufacturer.
- The plans for developing the S5000F were drawn up within the AIA/ASD. There were already some S-series specifications developed and used for integrated logistic support purposes. These specifications were:
 - S1000D for Technical publications
 - S2000M for Material management
 - S3000L for Logistic Support analysis (LSA)
 - S4000M for Maintenance task analysis

S5000F Development history

- It was decided that the S5000F specification:
 - shall take into account the activity model given by ISO 10303-239 PLCS and shall support **data exchange by PLCS** Data Exchange Sets
 - shall include process application guidelines and rules for information exchange,
 - shall **be tailorable** and include guidelines for tailoring,
 - shall take into account current ISO/EN baseline documents,
 - shall **enable online interfaces** to the S-series of ILS Specs, i.e. S1000D, S2000M, S3000L, S4000M
- The development work was allocated to an international team working under the joint chairmanship of AIA and ASD.



Bundeswehr



MINISTRY OF DEFENCE

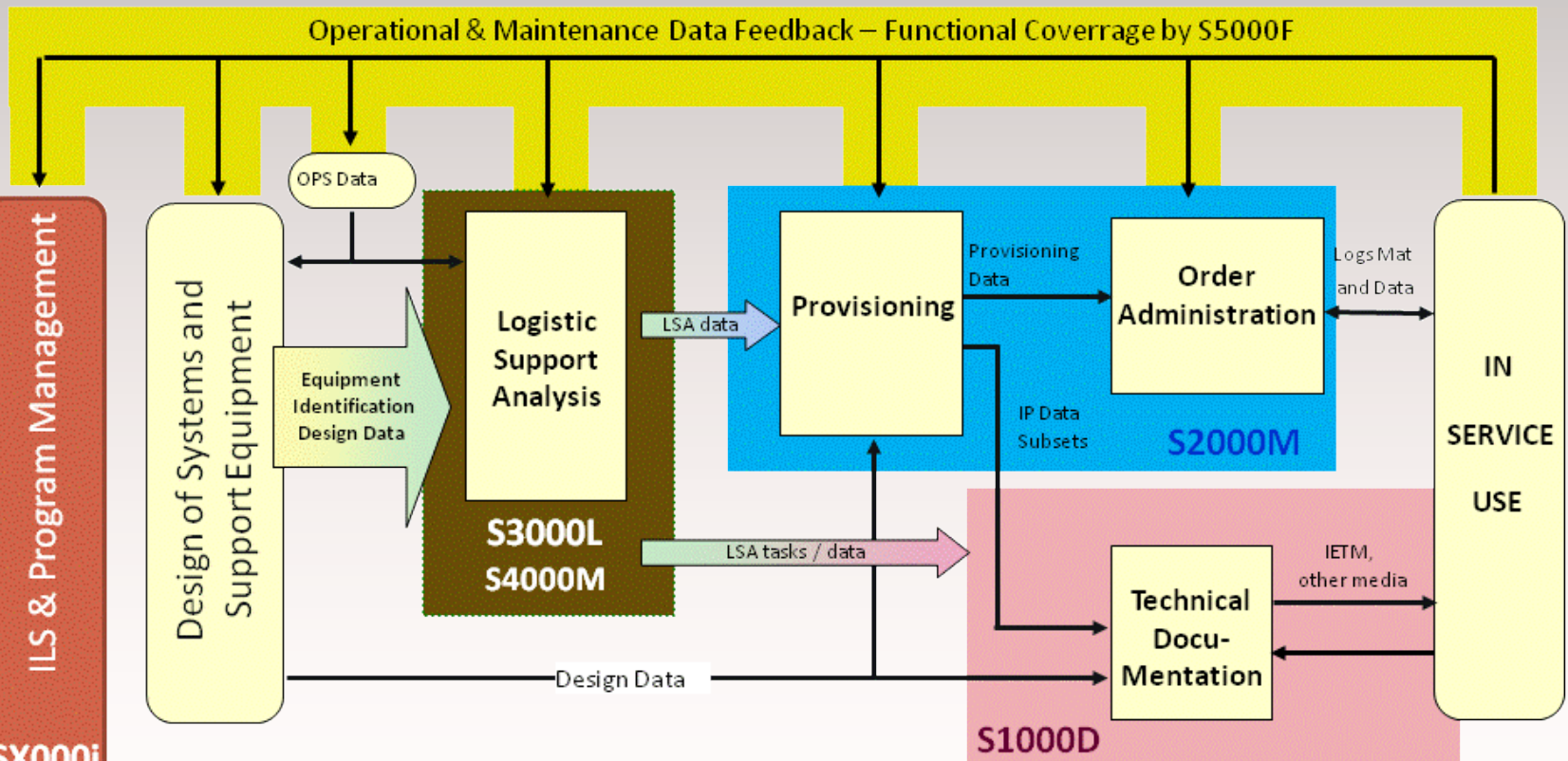


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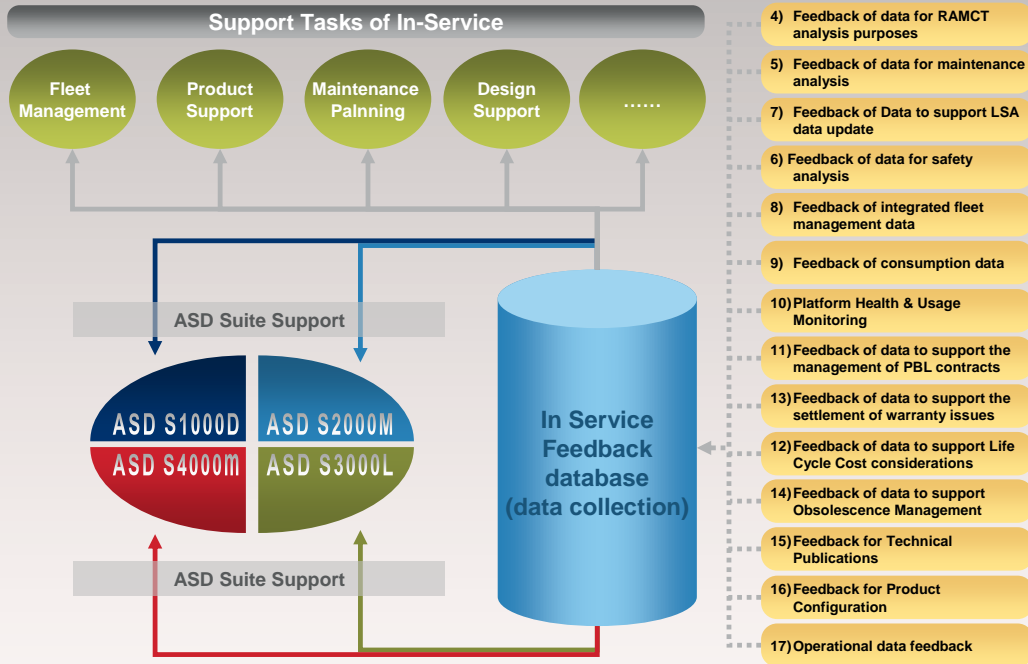


S5000F Interaction with other S-series specifications

- The scope of S5000F is to handle operational and maintenance data feedback from the in service use to the other S-series specifications.



S5000F Structure and content



The S5000F specification is sort of structured into three parts:

1. The introduction part
 - Introduction
 - General requirements
 - Feedback business process
2. The technical part containing information about e.g.
 - RAMCT
 - Maintenance analysis
 - LSA data update
 - Safety and Warranty analysis
 - LCC considerations
 - Health and usage monitoring analysis
 - Management of PBL contracts
 - Obsolescence management
 - Non-standard data feedback
3. The annex part
 - Data model and data element list
 - Acronyms, definitions and abbreviations
 - Annexes

S5000F Use cases

- The S5000F spec is **use case oriented**. This is to make it easier for the reader to understand **when, why and how to use the specification**.
- Examples of use cases:
 - Chapter 4 - Feedback for RAMCT analysis; Determine if reliability in use aligns with the reliability specified
 - Chapter 8 - Feedback for LCC considerations; Optimize costs for in service support. Evaluation and comparison of different approaches for replacement, rehabilitation/life extension or disposal of systems/products
 - Chapter 14 - Feedback for Product Configuration; Feedback of an "as operated" or an "as allowed" product configuration
- The use cases **gives examples** of data elements to be fed back to the operator or the manufacturer.



S5000F Ongoing work & next steps



- Issue 0.1 for internal review issued within AIA/ASD
- Review comments are considered and implemented in the specification
- Data model under development
- Issue 0.2 for public review by the end of 2013
- Issue 1.0 of S5000F by the end of Q2 2014.





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- Any Questions?

