

*In partnership with*



*AFNeT Standards Days presentation Webinar*

**MRO/ILS**

*by Michel Doméon (Dassault-Aviation / AFNeT)*

AFNeT Standards Days 2020 : 6 & 7 October 2020

**Movie title** « Interest of Model Based support specification suite – S-Series and PLCS – you don't have to choose ! »

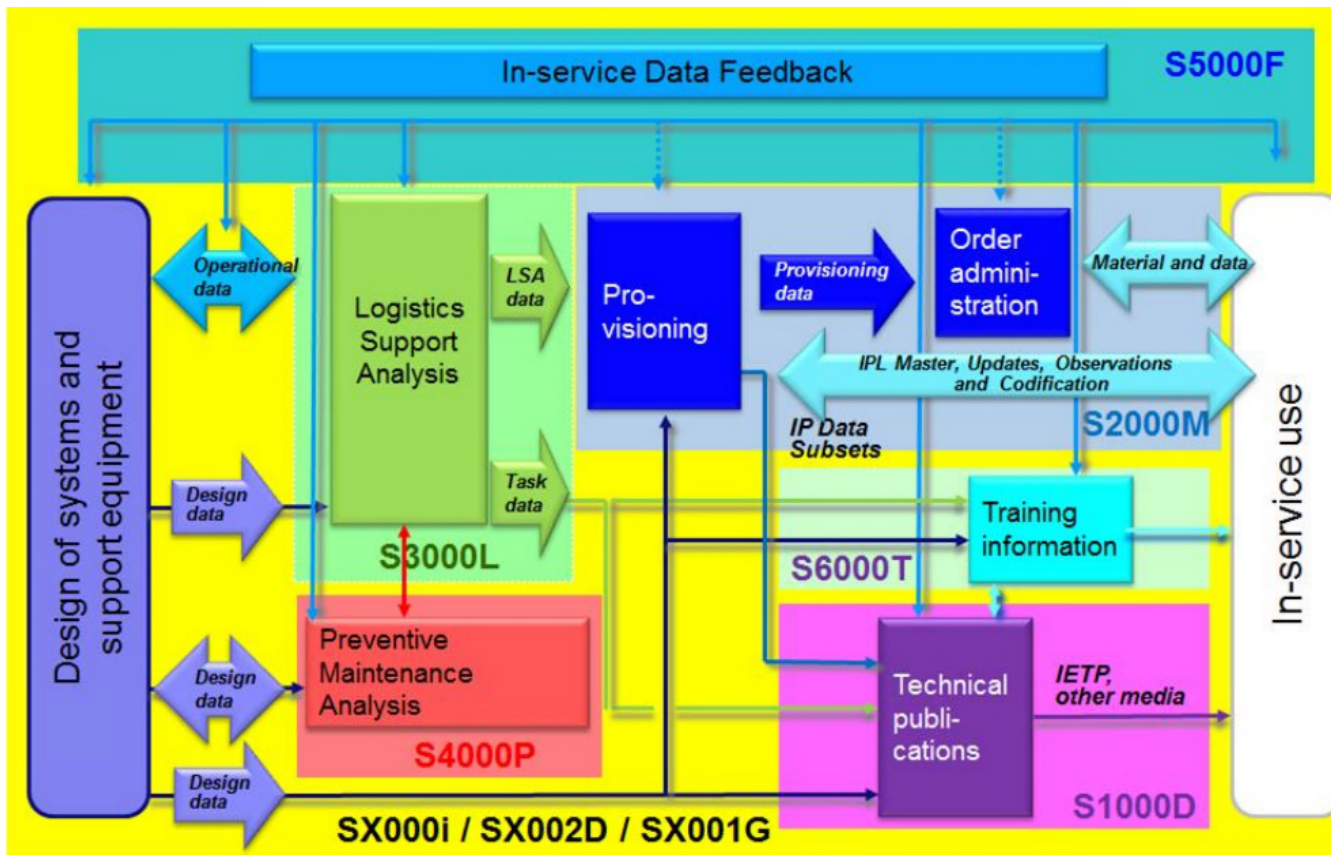
**Released Date** : October 7th 11h

**Main actors** (by apparition order)

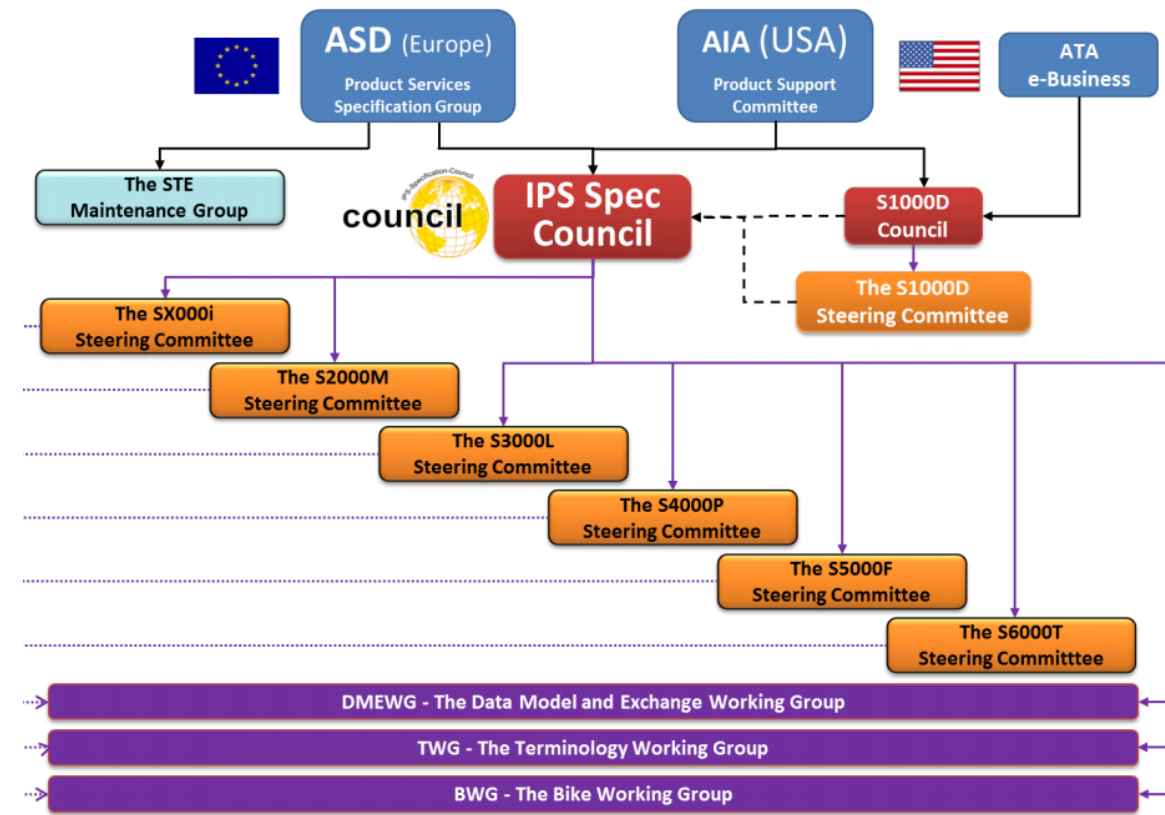
- **Michel DOMEON** → as 'Paris'  
Dassault-Aviation.  
Military Big Data product owner  
*ASD PSSG French rep (Product Standard Specification Group)*
- **Ramón Somoza García** → as 'Madrid'  
Airbus Defence and Space S.A.U.  
Senior Expert In-Service Data Exchange, Integration and Management  
*European SX000i Chair / S5000F Chair*  
*DMEWG member & involved in PLCS ed3*
- **Felix MITJANS** → as 'Versailles'  
Nexter Systems  
Expert in support Systems implementation  
*DMEWG & S3000L member*



## S-Series ILS Specifications Suite



➔ Integrated suite of specs covering support throughout a system's life cycle

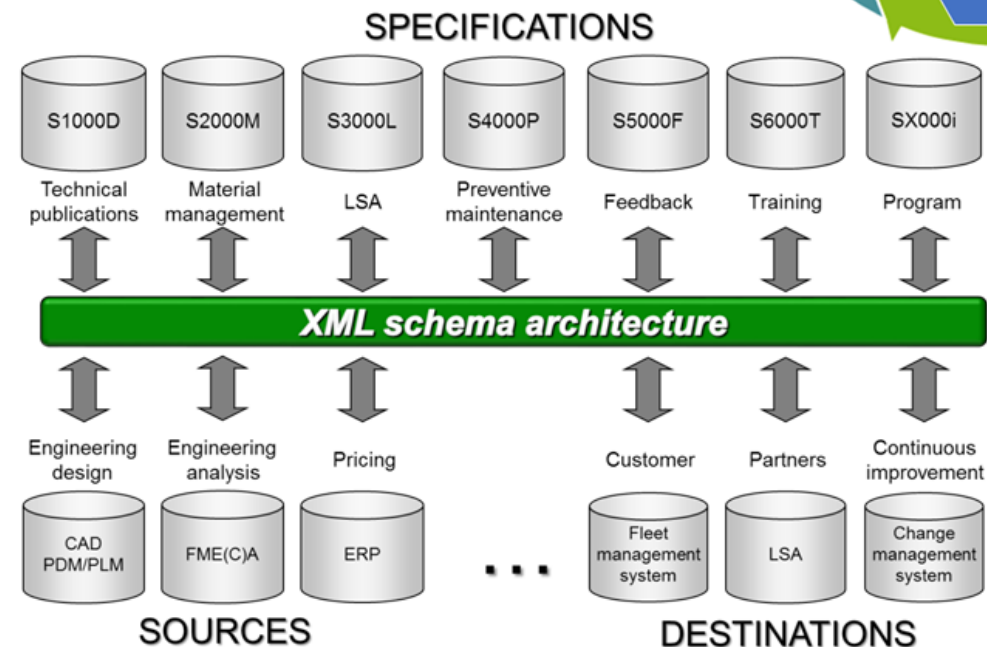


## S-Series ILS Specifications Suite

**The following specifications are currently available :**

- **SX000i** - International guide for the use of the S-Series of Integrated Logistics Support (ILS) specifications
- S1000D® - International specification for technical publications using a common source database
- S2000M - International specification for material management - Integrated data processing
- S3000L - International specification for Logistics Support Analysis - LSA
- S4000P - International specification for developing and continuously improving preventive maintenance
- S5000F - International specification for in-service data feedback
- S6000T - International specification for training analysis and design
- S1000X, S2000X, S3000X, S4000X, S6000X - Input data specifications
- ASD-STE100® - Simplified Technical English

➔ Data re-use optimized through utilization of a common data model



## Data Modeling & Exchange Working Group (DMEWG)

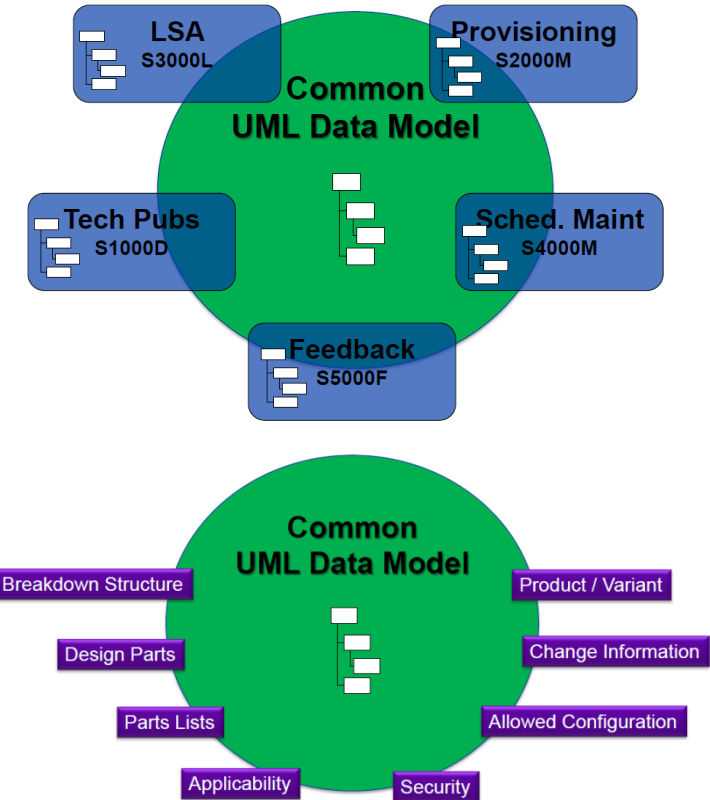
The Data Modeling & Exchange Working Group is a sister committee to the SX000i committee.

While the SX000i defines common logistics processes to be used across all S-Series specifications and the interactions between the respective S-Series ILS Specification logistic processes, the DMEWG ensures the technical details so as to ensure that such processes are properly implemented across the different specifications.

In particular, the DMEWG is responsible for:

- SX001G - Glossary for the S-Series ILS specifications
- **SX002D - Common data model for the S-Series ILS specifications**
- SX003X - Interoperability matrix for the S-Series ILS Specifications
- SX004G - UML model reader's guidance
- SX005G - S-Series ILS specifications XML implementation guidance
- SX006R – S-Series ILS specifications rules definition.

➔ A dedicated PLCS Task Team to enable easy mappings to PLCS Data Exchange Specifications (DEXs) and PLCS based Data Consolidation

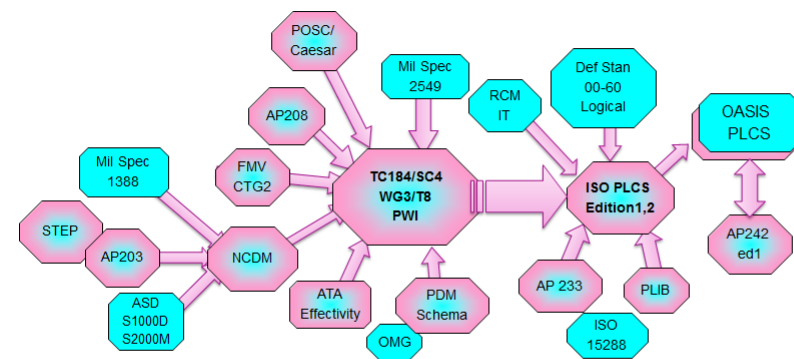




## PLCS : Product Life cycle Support

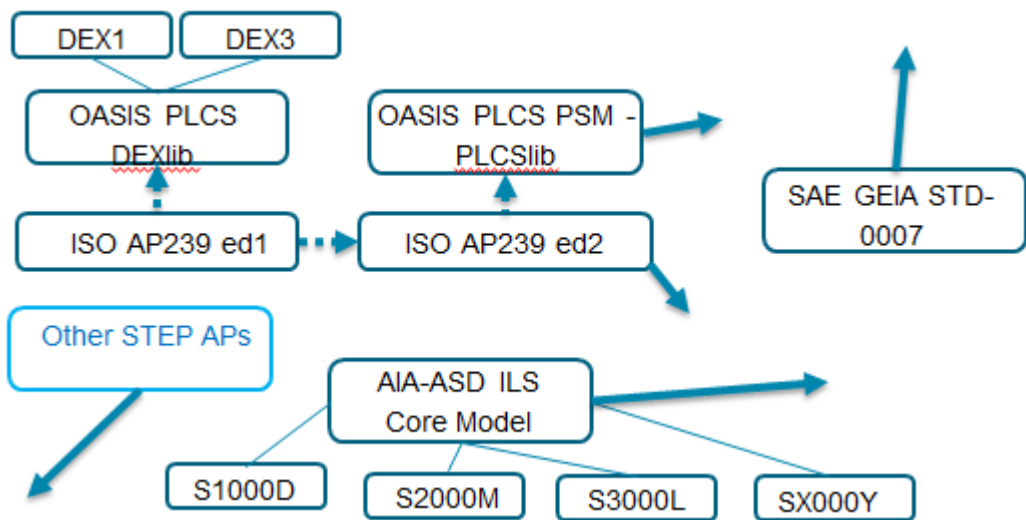
ISO STEP AP239 edition 3 PLCS

AP239 Product Life Cycle Support is the STEP Application Protocol for product support along life cycle, covering the initial design/analysis of the product support, support operations (e.g. maintenance tasks) and operation feedback. Edition 3 was initiated by Aerospace and Defence stakeholders. AFNeT is involved in this activity since the development of the initial white paper in 2015.



- ISO
  - ISO 10303-239:2005 (AP239 edition 1)
  - ISO 10303-239:2012 (AP239 edition 2)
- OASIS
  - PLCS/PLCSLib V1.0, 2013

**EXPRESS based** *A long history with diverse issues ISO & OASIS*



## The season 2 PITCH ! Available on october 7

- Ep1 : Introduction on S-series and PLCS history
- Ep2 : Focus on model based approach of the S5000F spécification followed by a direct example
- Ep3 : Process done to achieved a real PLCS implementation (MAPS project)
  - ➔ managing the exchanges between industrial partner and the customer from generic functional specifications (SFG) to DEXs output.  
& DEXs implementation in an existing information system
- Ep4 : Synthesis on both approaches (S5000F vs PLCS)
- Ep5 : 'DMEWG/PLCSTT' and 'PLCS ed3 Task teams' issues  
(current tasks of these task teams to facilitate the mapping between S-Series & PLCS)

Questions  
&  
Answers



Let's meet the 6th and 7th October

<http://standardsdays.afnet.fr>