

LOTAR Procedures for MBSE Data Standards

Implementer's Forum Planning
Adrian Murton and Mark Williams
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Today's Status

- Draft of NAS9300-500 is 90% complete
- Draft of NAS9300-520 is 50% complete

Team Opportunities:

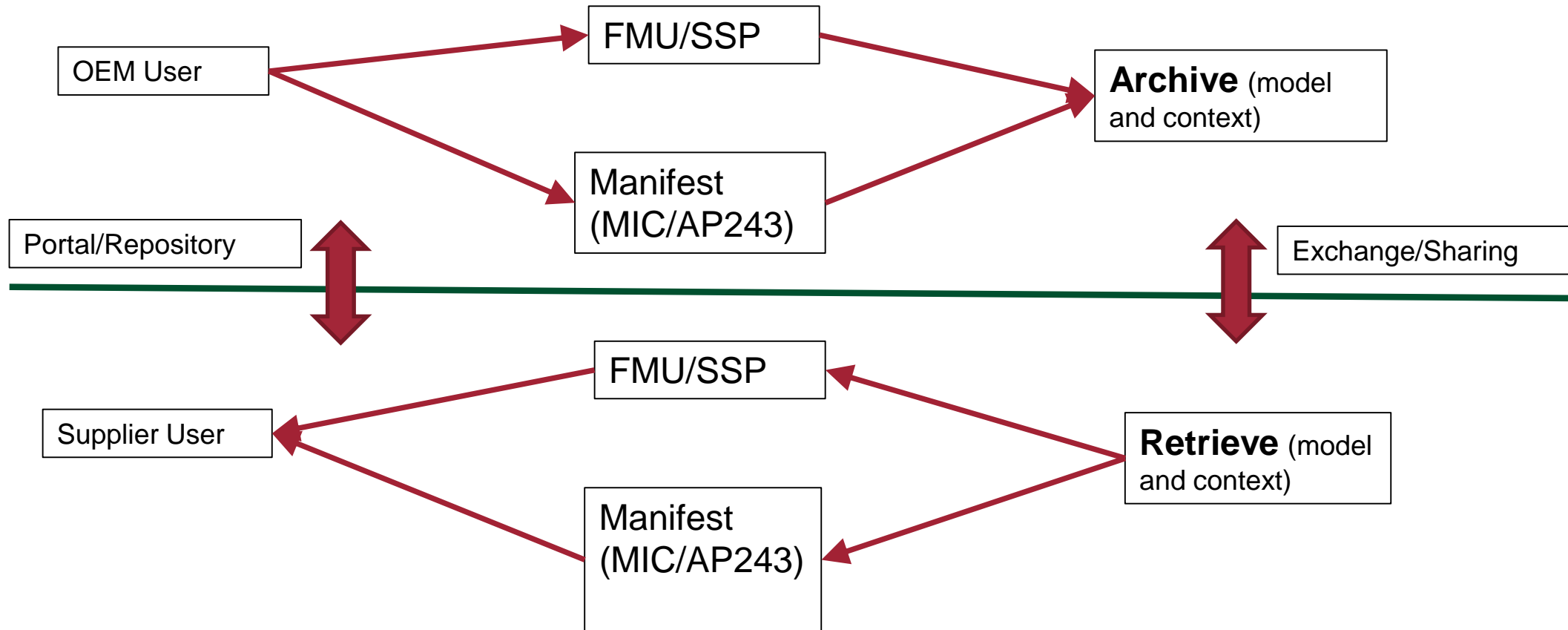
- Develop capabilities based on available standards
- **Define and plan IF activity for -520**
- Partner with Industry and Industry Consortia
- Enlist Solution Providers supporters
- Enlist support from Academic Institutions

Next ACTION:

- Planning meeting in Darmstadt; Finalize documentation
- Establish addendum deliverables (manifest)
- Finalize next steps

LOTAR Part	MBSE – NAS9300
500	Fundamentals and Concepts for long term archiving and retrieval of Model-Based Systems Engineering information
510	Long term archiving and retrieval of Requirements: text, graphics, tables and parameters
515	Long term archiving and retrieval of Validation and Verification requirements (expand Part 510)
520	Long term archiving and retrieval of analytical models: executable code, differential, algebraic and discrete equations
530	Long term archiving and retrieval of models defined by architecture description language standards (ADLs): AADL, SysML, UML, etc.

Behavior Models: archive, retrieval, sharing



Partners



A&D PLM Action Group



INCOSE – PDES MoU



MBSE for PDES



SE Handbook



SMSWG

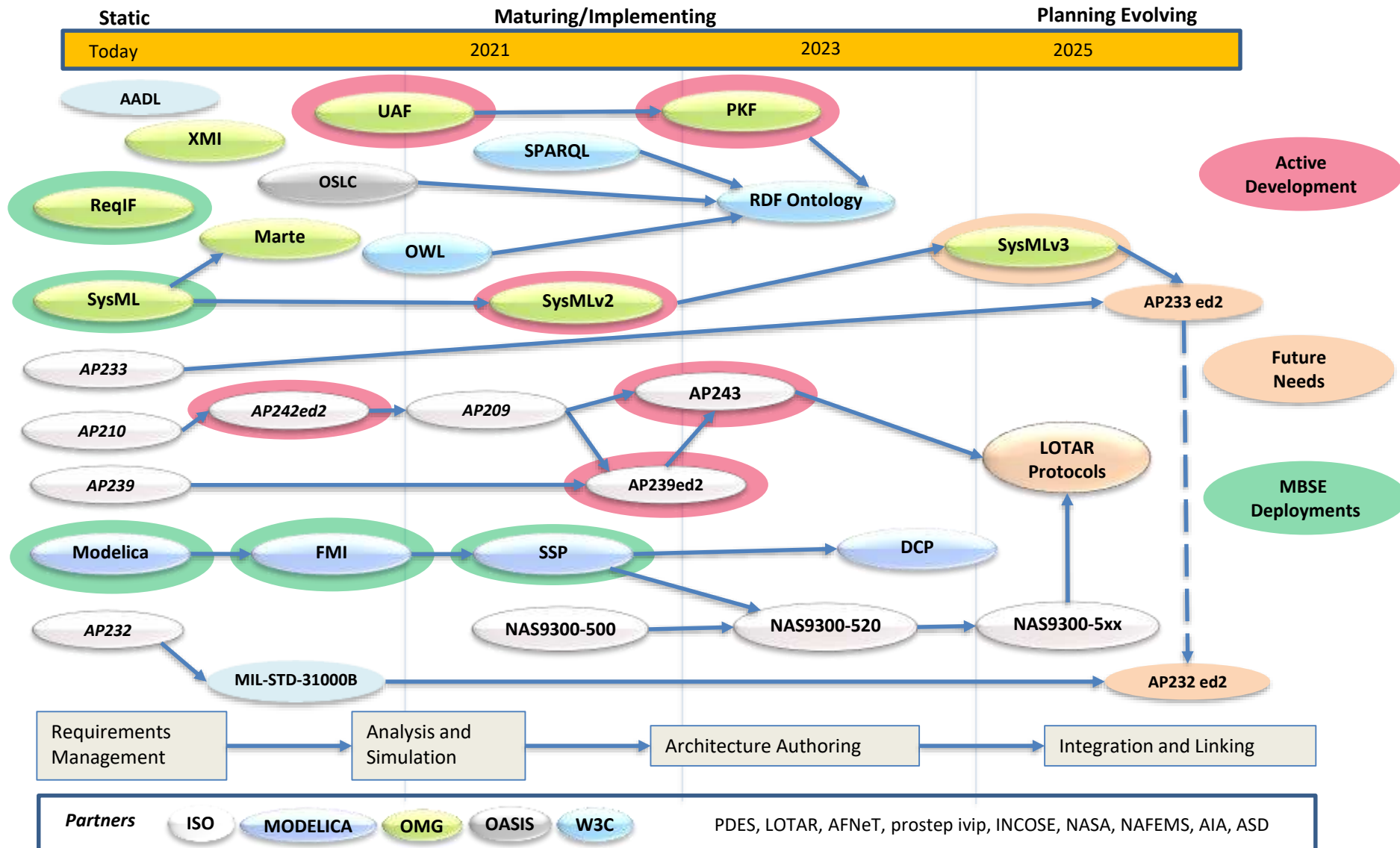


MBSE Interoperability

INCOSE TIMLM



MBSE Standards Roadmap



MBSE Data Standards (a short list)

- ASME AS5506, AADL - Architecture Analysis & Design Language
- AP232 - Technical Data Package (also MIL-STD-31000)
- AP233 – application protocol
- AP239 – Product Lifecycle Support (PLCS)
- AP242 – application protocol
- AP243, Modelling and Simulation information in a Systems Engineering Context (MOSSEC)
- DCP – Distributed Co-Simulation Protocol
- FMI - Functional Mock-up interface
- IEEE 1516, HLA – High Level (analysis) Architecture
- Modelica – Physics and Systems Behavior analytical modeling language
- NAS9300 – LOng Term Archiving Retrieval (LOTAR)
- OSLC - Open Services for Lifecycle Collaboration
- OWL RDF / ISO 15926 – Web Ontology Language and Resource Description Framework
- MARTE - Modeling and Analysis of Real Time and Embedded systems
- ReqIF – Requirements Interchange Format
- SSP - Systems Structural Parameterization
- SysML – Systems Modeling Language
- UAF - Unified Architecture Framework (replaces UPDM)
- XMI - XML Metadata Interchange