



2023

Annual **INCOSE**
international workshop

HYBRID EVENT

Torrance, CA, USA

January 28 - 31, 2023

TIMLM WG MBSE Initiative Update

John Nallon

Tool Integration and Model Lifecycle Management Working Group



**Chair,
Co-chairs,
Project
Leads**

John Nallon: Chair

**Co-Chair: Mark Williams
MBSE for PDES/LOTAR Project Lead**

**Co-Chair: Gregory Pollari
MoSSEC Project Lead**

**INCOSE
Web
Page**

[Tool Integration and Model Lifecycle Management \(incose.org\)](https://www.incose.org)

**122
Members**

**Yammer
Communities
www.yammer.com/incose.net**

[TIMLM WG](#)

[MBSE for PDES and LOTAR](#)

New INCOSE Web Pages and Yammer Site created
Transitioned data files from CONNECT to Yammer

The Tool Integration and Model Lifecycle Management WG



Objectives:

- To provide a **forum** for discussion and dissemination of best practices, methods and processes that **promote the development, validation and deployment of standards to exchange, archive and retrieve digital data** created during a product lifecycle.
- To participate in ***the development, analysis and application of digital data exchange standards to modernize the integration and interoperability of systems engineering tools and processes.***



TIMLM WG 2022/2023 Activities

- **Development and Publication of the INCOSE Model Portfolio Management Guide** – currently in the INCOSE publication process
- **Weekly Joint Working Sessions with *PDES Inc.* and *LOTAR* members**
 - *Every Wednesday 09:30 am to 11:00 am EST USA*
- **Frequent Collaboration Participants:**
 - *INCOSE DEIX Working Group,*
 - *INCOSE MBSE Initiative Teams,*
 - *INCOSE NAFEMS-SMS Working Group,*
 - *INCOSE Standards Department ,*
 - *CIM Data (A&D PLM), OSLC, and the OMG*
 - *Tool Vendors*

Common Goals: to enable digital model exchange capabilities and the management, archival and retrieval of models.



PDES/LOTAR/INCOSE Activities

- **LOTAR for MBSE Standards in Work: (European Norm/National Aerospace Standards)**

- **EN/NAS9300-500**: Common concepts for Long term archiving and retrieval of Model Based Systems Engineering information
- **EN/NAS9300-510**: MBSE Requirements Archiving Fundamentals
- **EN/NAS9300-515**: Verification and Validation
- **EN/NAS9300-520**: How to Archive System Behavior and Simulation Models
- Others: Architecture (530), LBOM (540),
- How to **Exchange MBSE Technical Data Packages** (position paper)



- **Interoperability Standards:**

- **ISO 10303 - AP243 Modeling and Simulation** information in a collaborative **Systems Engineering Context (MoSSEC)**
 - The Team is Supporting: prototypes, vendor implementations, knowledge dissemination to the engineering community, relationships with other standards
 - **Focus of the MoSSEC Workshop January 30th 1030 to 1730 in Pier 5**





IW 2023 TIMLM WG Sessions

ISO 10303-AP243 (MoSSEC) Workshop: January 30th 10:30 PM to 17:30 PM

- A. An Introduction to MoSSEC**
- B. Presentation and Implementation Demonstrations:**
 - A. Hexagon**
 - B. Siemens Digital Systems,**
 - C. Modelon Inc. and,**
 - D. THE REUSE COMPANY**
- C. Interactive Discussion Session – MoSSEC, Ontologies, OSLC and interconnections with other standards**
- D. Inaugural MoSSEC User and Implementation Forum – Interactive session**



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SETDB WG MBSE Initiative Update

John Nallon



SETDB: Lifecycle Activities

- **SETDB Development Team Accomplishments in 2022/2023:**
 - **Transitioned** from CONNECT to Yammer/TEAMS/New Web Pages
 - **System Updates released at IW 2022, IS2022, and IW 2023**
 - System statistics enabled, automatic notifications, online fault reporting, etc
 - INCOSE and PPI Helpdesk established
 - Completed Search Engine Optimization (SEO)
 - Upgraded the database
 - Logic enhancement to the search capabilities
 - **Major Explore Page re-design : from static to dynamic data**
 - **Tools list** represents all active tools in the system (updates automatically)
 - **Vendors list** represents all active vendors in the system (updates automatically)
 - **Categories list** represents the tool categories (updates automatically)

Since IS 2022: we added 275 tools (702) and 57 additional vendors (181)



SETDB: Lifecycle Activities

- **SETDB Development in 2023:**
 - Next System Update release at IS 2023
 - Plans for IS2023 release and beyond are in progress
 - 6 Working Sessions being held at IW 2023



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www.incose.org/IW2023

www.systemsengineeringtools.com