

2024 GPDIS Agenda

Monday, September 23, 2024

(Subject to Change)

PST

Summit Begins - Day 1

7:00 AM - 5:30 PM

Registration - Conference Center

A/B/C/D

ALL DAY

Model Based Systems Engineering (MBSE) - Workshop

How is MBSE contributing to the digital thread (DTh) and digital twin (DTw) initiatives? In addition to improvements in architecture development, the allocation of requirements, and integrating simulations into the V&V process, MBSE has become a cornerstone in the transition to a digital process.

Advancements in application-based linking technologies, knowledge graphs, change management notifications, metadata capture, and neutral data representations are just a sample of the features enabled by MBSE methods. As an example, graph-based-models are demonstrating their ability to expose and control complex and heterogeneous data structures. Graph-based models and databases use nodes and relationships to represent the Company's data. Intelligent queries of the data unite improvements to design quality and consistency with the mapping and integration of PLM Data Structures. Our guest speaker, Dr. Stephan Rudolph from the University of Stuttgart will discuss "MBSE, V-model, digital thread, digital twin and all that with graph-based design languages". Dr. Rudolph's talk and this year's MBSE workshop will review the use of a "knowledge graph" and other technologies to enable a scaled-up digital thread and digital twin environment.

9:00 AM - 9:15 AM

Welcome, expectations & agenda. - Kenneth Venzant (NG), Juan C Mendo (Boeing)

9:15 AM - 10:15 AM

LOTAR-PDES Opening Introduction, and LOTAR Workgroups Overview. - Bernd Feldvoss (Airbus), Jeff Klein (Boeing)

10:15 AM - 10:30 AM

Break - Beverage Service

10:30 AM - 12:30 PM

KEYNOTE: Live End-to-End DTh and DTw Demo of FORMULA Student racing car. - Dr.-Ing. Stephan Rudolph (University of Stuttgart)

12:30 PM - 1:00 PM

Lunch Break

12:45 - 1:30 PM

SysML – Tool Interoperability. - Tom Capelle (SodiusWillert)

2024 GPDIS Agenda

Tuesday, September 24, 2024

(Subject to Change)

PST Day 2												
7:00 AM - 5:00 PM	Registration - Conference Center											
6:30 - 7:50 AM	Breakfast - West Courtyard											
8:00 - 8:20	Kenny Swope, GPDIS Chairman & Jennifer Wold, GPDIS Program Manager GPDIS Kickoff (Welcome/Introduction) Highland											
8:30 - 9:20	Christopher A. Garrett Senior Executive / Technical Advisor, Systems Engineering Air Force Life Cycle Management Center Highland											
Tracks			PLM Executive			Model Based Engineering - DESIGN			Emergent Technology / Industry Transformation			
			Standards			Model Based Systems Engineering & Analysis			Digital Twin / Digital Thread			
A/B			C/D			K/L			M/N			
9:30 - 10:10	Kyle Hall	Airbus	Model Based Systems Architecture - Consider the UX perspective	Leslie McKay	SAE	How to Write a Digital-Ready Standard	Germar Nikol	Kisters	Ultra Fast & Feature Rich Visualization for the Model Based Enterprise			
10:20 - 11:00	J Simmons	The J Simmons LLC	Using SysML v2 to Define a Digital Engineering Methodology	Evan Kessick	Belcan	ASME MBE Committee and Y14/MBE Harmonization Committee Overview	Rudy Lozano	Capvidia	Implementing Model-Based Design in Real-World Scenarios	Jeff Plant	Boeing	PLM and Navigating the Landscape of Digital Transformation
11:00 - 11:30	Break - Beverage Service - Outside Track Rooms											
11:30 - 12:10	Peter Drozdewicz Saulius Pavalkis	Dassault Systems	MBSSE for System Simulations, Optimization, and Trade Studies	Bob Deragisch	Parker	PLM as the Foundation of the Digital Thread	Bernd Feldvoss Kyle Hall	Airbus	Pain Points in Collaboration between Aerospace OEM's and partners	Kenneth Dang	Boeing	Aerospace Structures Simulation Analysis Process and Data Management
12:10 - 1:30	Lunch and Vendor Fair - Grande Ballroom											
1:30 - 2:10	Juan C Mendo	Boeing	Supplier Engagement Framework V2.0 and Digital Data Package (DDP)	James Durst	Northrop Grumman	Citizen Development in Enterprise Software	Tony Provencal Tom Shaughnessy	ITI Northrop Grumman	Validation Strategies for Enterprise Use of 3D Model Data	Scott Seddon	Boeing	Verify and Validate the Production System
2:20 - 3:00				Paul Kaiser	MHP	Navigating the Digitalization Journey: Strategies for Gaining Executive Support	Annalise Suzuki Dan Dezarov	Elysium	Tackling CAD to CAD Migrations: Trials, Tips, and Tools	Melinda Refford	Collins Aerospace	Customer-Supplier Digital Collaboration
3:00 - 3:30	Break - Beverage Service - Outside Track Rooms											
3:30 - 4:10	Jason Turk	Eaton	Eaton's Journey to Excellence: Embracing Model-Based Systems Engineering	Jeffrey Reed Katherine Pendergraph	Northrop Grumman	Cultural change - The real challenge to Digital Transformation and PLM Convergence	Todd W. Dunnavant	IBM	Shift left with model-based testing of systems models!	Brendan Mark	Boeing	Data Integrity as a Key Digital Thread Enabler
4:20 - 5:00	Kyle Kocheil	Ansys	The SPDM Enabled DRM	Rama Kunapuli	Northrop Grumman	Fault lines in Digital Transformations	John McCullough	Kubotek Kosmos	Enabling MBD in Aerospace Part Supplier Systems			
5:15 - 7:15	Vendor Reception at Grande Ballroom											

2024 GPDIS Agenda

Wednesday, September 25, 2024

(Subject to Change)

PST												
Day 3												
7:00 AM - 5:00 PM Registration - Conference Center												
6:30 - 7:50 AM Breakfast - West Courtyard												
8:00 - 8:20 Kenny Swope, GPDIS Chairman & Jennifer Wold, GPDIS Program Manager GPDIS Wednesday Kickoff Highland												
8:30 - 9:20 David Tatro Vice President, Operations Transformation Lockheed Martin Corporation Highland												
Tracks			PLM Executive			Model Based Engineering - DESIGN			Emergent Technology / Industry Transformation			
			Standards			Model Based Systems Engineering & Analysis			Digital Twin / Digital Thread			
A/B			C/D			K/L			M/N			
9:30 - 10:10	Jeff Klein Bernd Feldvoss	Boeing Airbus	LOTAR and MBX-IF 101	Kyle Hall	Airbus	MBSE Collaboration with SysML 2.0: A Pre Release Investigation from A&D PLM Action Group	Chris Harbaugh	Mundo-Tech	Migrating Legacy Tube Assemblies to Digital Thread Lifecycle	Efrain Garcia	Boeing	Overcoming Resistance to Change and the "We've Always Done It This Way" Paradigm Shift: A Generation-to-Generation Approach
10:20 - 11:00	Leslie McKay	SAE	How to Approach a Digitization Plan for Standards	David Pessin	Northrop Grumman	PLM Convergence: Determining which of your PLM Systems to Sunset	Phil Spreier	Elysium	Advancing 3D PDF: Innovations in Technical Data Package Technology			
11:00 - 11:30 Break - Beverage Service - Outside Track Rooms												
11:30 - 12:10	Danny Poisson	PTC	Accelerating Solutions Delivery through Digital engineering, Agile Product Development, and MBSE	David Votaw	Northrop Grumman	DevOps - Moving at the Speed of Relevance	David Selliman	PDES Inc.	STEP242 Validation and Long-Term Data Archiving in Aerospace Engineering	Fredwilliam Esguerra	Boeing	Implementing a Model Based Conformance approach to DOD 5000.97 and IEEE 15288.1
12:10 - 1:30 Lunch and Vendor Fair - Grande Ballroom												
1:30 - 2:10	Lou Pascarella	HCLTECH	Defining & Building a DE Driven Digital Thread	Bernd Feldvoss	Airbus	Collaboration Among Original Equipment Manufacturers (OEMs)	Evan Kessick Michael Werkheiser	Belcan	Characteristic Accountability with MBD and QIF	Vinh V. Tat	Boeing	Leveraging OPC UA for Interoperability in Shop Floor Machine Integration
2:20 - 3:00	Nathan Nalven	eQ Technologic	Automating the Digital Thread- creation, navigation, impact assessment & baseline management	Rebecca Peterson Ana Casciello	Northrop Grumman	Unlocking the Power of Value Data to Enable Augmented Reality Adoption	Michel Gadbois	iBase-t	Digital MBE Journey	Jamie Yedinak	Boeing	Data Interoperability Standards Utilization Survey Industry Extension
3:00 - 3:30 Break - Beverage Service - Outside Track Rooms												
3:30 - 4:10	Uriah Liggett	Nlign Analytics	Modernizing the Technical Data Package for Capturing, Representing, and Transferring the As-Built Condition of Air Structures to Establish the Foundation of a Digital Twin for Sustainment	Joleen Smolko	Northrop Grumman	Systems Engineering Approach to Organizational Effectiveness				Alton Sanders	Boeing	Digital Standards Alliance
4:20 - 5:00	Dennis Beeson	Northrop Grumman	Modeling Critical Digital Threads between ASoT Systems	Darwin Petersen Jeff Moffa	Spirit Aerosystems Auros Knowledge Systems	Model-based Specification Compliance	Karen Kontos	Capgemini	Accelerate Transformation -The Data Continuity Platform	Rohan Rana Vladimir Karakusevic	Boeing	3D Visualization Data Standards Overview
5:15 - 7:15 Vendor Reception - Grande Ballroom												

2024 GPDIS Agenda

Thursday, September 26, 2024

(Subject to Change)

PST	Day 4											
7:00 AM - Noon	Registration - Conference Center											
6:30 - 7:50 AM	Breakfast - West Courtyard											
	Tracks			PLM Executive			Model Based Engineering - DESIGN			Emergent Technology / Industry Transformation		
	A/B			Standards			Model Based Systems Engineering & Analysis			Digital Twin / Digital Thread		
	A/B			C/D			K/L			M/N		
8:00 - 8:40	Jeff Pilato	Sodius Corp.	MBE Systems Model Exchange Framework Including SysML v2	Keshav Sundaresh	Altair	Cohesive Modeling & Data Layer for Digital Twin and MBSE	Yuichi Sagawa	JAMA	JAMA/JAPIA Task Force "Data Interoperability in Digital Engineering"	Rebecca Peterson Roshan George Austin Wilson	Northrop Grumman	Enabling the Digital Worker Through Augmented Reality: A Pathway to Digital Manufacturing
8:50 - 9:30	Mike Crist	Siemens	Advanced MBSE with SysMLv2	Roshan George, Joe Altovar	Northrop Grumman	Digital Engineering Ecosystem(DEE) as a Service: Revolutionizing Data Interoperability	Patrick Dunfey Jim Martin	Anark	A Guide to DoD Instruction 5000.97	Sam Gambrell	Lockheed Martin	QIF Overview
9:40 - 10:20	Flavius Galiber	Northrop Grumman	Modeling System Life Cycle Concepts	Tim Keer	Aras	Implementing the Digital Thread: A Strategy for Compliance with DoDI 5000.97 and Beyond	Bernd Feldvoss	Airbus	Data Exchange and Collaboration with Standards	Tom Groff	QVII	MBE within Quality Assurance
10:20 - 10:30	Break - Beverage Service - Outside Track Rooms											
10:30 - 11:20	<p>Travis Hedges Vice President, Supply Chain Northrop Grumman Corporation Highland</p>											
11:20 - 12:00 Noon	<p>Kenny Swope, GPDIS Chairman & Jennifer Wold, GPDIS Program Manager Closing & Thank You Highland</p>											
12:10 - 1:30	Lunch and Vendor Fair - Grande Ballroom											