



VMAP

Standards Community e.V.

VMAP User Forum 2025

18-19 February 2025

Schloss Birlinghoven, Sankt Augustin Germany

Is the simulation data organized for further analysis?

This event will address the growing importance of digitalization and process integration in manufacturing, emphasizing both virtual tasks (like design, simulation and optimization) and physical steps (such as material & part testing and monitoring, system testing). There is also an increasing emphasis on digital product passports, which require well-structured, standardized, and semantically rich data. The event will span two days:

- Updates on the VMAP specifications and the ongoing adaptation of tools to the standard
- Focus on VMAP, its metadata and associated ontologies, as well as solutions for semantic information management in various R&D projects.
- Integration platforms and the semantic analysis and AI integration supported by VMAP.

Overall, the event aims to advance the standardization and semantic structuring necessary for successful digital integration in manufacturing.

To register for the event, visit our website or contact us at info@vmap-standard.org



Tuesday, 18 February 2025			
10:00	Registration & Networking		
VMAP SC Status			
11:00	Welcome and Introduction	VMAP SC	
11:20	Introduction to VMAP Working Group Activities	VMAP SC	
11:30	VMAP WG – Full Model Definitions	WG Member DLR BT	<u>Complete Model</u>
12:00	VMAP WG – Wrapper Development	WG Member DLR SY	
	Lunch		
Solutions for Workflow & Data Management			
13:20	Enhancing Simulation Workflows – Leveraging VMAP, META, and ANSA for Optimized Results Handling	Beta CAE	<u>BETA CAE</u>
13:50	MpCCI Tools for VMAP – Details about MpCCI tools and extensions	Fraunhofer SCAI	<u>MpCCI</u>
14:10	Metadata & Ontologies – Semantic concepts for digitalisation in manufacturing	Fraunhofer SCAI	<u>FhG SCAI-MP</u>
	Coffee Break		
Demands from Projects for Semantic Data Organization			
15:00	InShaPe – Challenges in data acquisition and management in additive manufacturing research	TU Eindhoven TU München	<u>InShaPe</u>
15:30	Alabama – The application of VMAP for Additive Manufacturing in regard to workflows, material data and models, sensor data and process specific simulations	SINTEF	<u>ALABAMA</u>
16:00	Pioneer – Open Innovation Platform for Optimizing of Production	AIMEN	<u>Pioneer</u>
	Coffee Break		
Domain Specific Ontological Solutions			
17:00	PMD – Advancing Digital Workflows in Materials Science: The Role of PMDco in Data Integration and Semantic Representation	BAM	<u>PMD Core Ontology</u>
17:30	Bio-Informatics – Semantics & Ontologies	Fraunhofer SCAI	<u>Bio</u>
18:00	Drinks & Dinner		

Wednesday, 19 February 2025			
09:30	Welcome		
VMAP Semantics			
9:30	Advanced Laser-Based Manufacturing – Multiphysics Modelling and Interoperability with VMAP Standard	<i>Aerobase AB</i>	<u>GEAR-UP</u> <u>RESTORE</u>
10:00	DiMAT – Bridging Interoperability Gaps in Manufacturing with a Bottom-Up Approach to Managing Semantics	<i>FhG IWM</i>	<u>DiMAT</u>
10:30	BASE – Battery Passport for Resilient Supply Chain and Implementation of Circular Economy	<i>Fraunhofer SCAI</i>	<u>BASE</u>
	Coffee Break		
VMAP in Industry			
11:00	GGS – Groeien in Green Steel	<i>Philips RUG</i>	<u>GGS</u>
11:30	Demands from Standardisation for Automotive Industry	<i>VW</i>	
12:00	Discussion on semantics & metadata management	<i>All</i>	
	Lunch		
13:30	VMAP Strategy – Organizing Data for Analysis	<i>VMAP SC</i>	
14:00	End of the Event		

****Agenda is subject to change****



VMAP SC e.V. Members



Hochschule
Bonn-Rhein-Sieg
University of Applied Sciences



GKN AEROSPACE