VMAP STANDARDS COMMUNITY • ADVANCING DIGITAL INNOVATION IN MANUFACTURING

VMAP User Forum 2027

Shaping the Future of Digital Manufacturing Through Advanced Standards

Date: February 23–24, 2027 | Location: Schloss Birlinghoven, Sankt Augustin

Following the remarkable success of the VMAP User Meeting series (2024–2026), we cordially invite you to participate in the **VMAP User Forum 2027**. A premier gathering of industry leaders, researchers, and innovators driving the future of computer-aided engineering (CAE) and manufacturing standards.

FORUM FOCUS AREAS

Extension of the VMAP Specification

Developing code-neutral proposals to exchange model definitions independently of any particular solver or software tool, while strengthening metadata handling so critical context travels with the data.

Implementation of CAE Workflows and Data Management with VMAP

Hosted on GitHub as a community solution, VMAP features an open-source converter supporting commercial formats and proprietary CAx tools, direct visualization, an interactive web solution, automated workflow integration, and meta-parameter extraction.

Consistent VMAP Concepts for Simulation, Measurement, and Monitoring in AM

Providing unified concepts for additive manufacturing covering simulated, measured, and monitored process data—including print paths, time- and location-resolved energy input, temperatures, heat fluxes, laser settings, melt pool, and solidified weld properties.

Application- and Tool-Independent Meta-Parameters for Implementing AI Models

Defining standardized meta-parameters which cover access rights and IP, load scenarios, objectives, scope, calibration, physical parameters, and geometric features. The intention is to consistently described data for reliable AI model training and deployment.

WHY ATTEND?

Key Benefit	Value for Participants
Network with Industry Leaders	Connect with experts from engineering, research, and software development communities.
Shape the Standard's Future	Actively participate in discussions influencing the next generation of VMAP specifications.
Learn from Real Applications	Discover practical implementations, case studies, and lessons learned from ongoing projects.
Access Cutting-Edge Research	Gain insights into digital manufacturing, AI integration, and sustainable engineering.
Collaborate on Innovation	Identify opportunities for new R&D partnerships and joint initiatives.

EVENT FORMAT & REGISTRATION

Event Format: This intensive 2-day forum combines keynote presentations, technical sessions, interactive workshops, and networking opportunities at the dinner to identify emerging requirements and chart the course for VMAP standard evolution.

Registration: Open to professionals working with VMAP standards, developing CAE tools, or advancing virtual manufacturing technologies. **Registration open.**