

PRESS RELEASE

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***umati* at EMO Hannover 2023: The future of connectivity – Insights, information and networking**

Frankfurt am Main, 12 September 2023. – Interested in experiencing the Future of Connectivity live and in person? *umati* (universal machine technology interface) will allow visitors to do just that at EMO Hannover 2023 from September 18 to 23. The joint initiative of the VDW (German Machine Tool Builders' Association) and VDMA (German Engineering Federation) together with a network of numerous industry and research-based partners will once again be demonstrating how machines all over the world can communicate with each other – simply, seamlessly and securely.

The story so far: *umati* celebrated its first major appearance at EMO Hannover in 2019 with a live demonstration. The global network of partners has now grown to over 320 members – and counting. Numerous OPC UA specifications, which are vital for the open and standardized exchange of data, have

Innovate Manufacturing.

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been added since then. The most recent example was the specifications for plastics processing machines and additive manufacturing systems. This is therefore a good time to bring everyone up to speed.

The central information point is the *umati* stand in Hall 9, F24. Meet-the-expert rounds will be held here twice a day at 11:00 and 15:00, where interested parties can obtain first-hand information from the *umati* team and representatives of *umati* partner companies on the background, technology and benefits of open, standardized data interfaces for mechanical engineering. Various exhibits will allow visitors to experience at first hand how sophisticated the technical solution has become. The stands of the OPC Foundation and the Machine Information Interoperability (MII) department of the VDMA are also close by. Together they represent a powerful triumvirate: OPC UA as the underlying technology, the OPC UA Companion Specifications as the global production language for the numerous technologies of the machinery and plant engineering industry (driven by the VDMA), and finally *umati* which is responsible for implementation and marketing. Dr. Alexander Broos, Head of Research and Technology at the VDW (German Machine Tool Builders' Association), is pleased about the closeness of the three entities: "For us, networking involves connecting not only machines – but also people. After all, the intelligent linking of machines is an ongoing process that can only succeed if it is supported by a strong community working together."

The numerous partner companies together with their machines, components and software solutions form the framework of the live demonstration. The sectors featured at EMO Hannover include manufacturers of machine tools but also suppliers of geometric metrology, additive manufacturing, robotics, image processing and, of course, software. Nils Tersteegen, Marketing Manager at

Fanuc Germany, Neuhausen auf den Fildern, explains why connectivity is an industry-wide topic: “Connectivity is an essential tool to make factories more efficient and production safer. Fanuc has been a partner of the *umati* initiative from the beginning, as we believe that an independent interface will allow machines, robots and peripherals to grow together and provide added value to all. With *umati*, Fanuc controllers, machines and robots can be quickly and efficiently integrated into our customers' IT environment.”

Visitors can follow what is happening via a QR code attached to each device connected to the *umati* demonstrator. The display shows the data flowing directly into the *umati*.app, where it is represented together with data from other devices, making it available to users in a uniform manner. Software providers can also patch themselves into this data flow and demonstrate the benefits of their products in real time based on actual data from the EMO Hannover 2023 machine pool. For software providers like Retuner GmbH from Nufringen, the advantages of the live demonstration and a partnership with *umati* are obvious, as Managing Director Guido Colombo knows: “In an ever-evolving technological landscape, Retuners concept of Industry 5.0 represents a pivotal juncture in the digitalization software industry. *umati* keeps us updated on OPC UA Standard evolution while putting us in contact with machine builders and increase our international visibility through effective communication and tradeshow exposure. Together we fuel the change to Industry 5.0 and help SMEs around the world manage digital transformation quickly and effortlessly.”

umati will also be presenting three further new developments at EMO: *umati* and MT Connect, the U.S. standardization initiative, have resolved to join forces. In addition, the seamless communication of manufacturing data from machines via OPC UA to the Asset Administration Shell (AAS) will be

demonstrated together with the Industrial Digital Twin Association (IDTA) and the Institute for Control Technology of Machine Tools and Manufacturing Systems (ISW) at the University of Stuttgart. And finally, the VDMA, VDW, Deutsche Telekom and various other partners will be demonstrating a federated data exchange space for monitoring the service life of cutting tools, as a reference prototype for the German government's Manufacturing-X initiative, which is now gaining momentum. "*umati* thus proves that functioning solutions can be developed within a short space of time together with the relevant partners – in a standardized, open and neutral manner," says Broos, summing up the innovations.

The *umati* presence at the event will also include networking and information events as well as the comprehensive use of online communication, especially in social media such as LinkedIn and X. Interested parties can obtain further details from the *umati* website for EMO Hannover 2023 at:

<https://umati.org/emo-hannover-2023/>

(Length: 5,840 characters including spaces)

Author: Tobias Beckmann, VDW

EMO Hannover 2023 – World's Leading Trade Fair for Production Technology

Around 1,800 manufacturers of production technology from 42 countries will be presenting smart technologies from the entire value chain at EMO Hannover 2023 from 18 to 23 September 2023. Under the banner of *Innovate Manufacturing*, the world's leading trade fair for production technology will showcase the entire range of modern metalworking technology which is at the heart of every industrial production process. The latest equipment will be on display, as will efficient technical solutions, product-related services, sustainable production methods and much more besides. The main focus of EMO Hannover is on cutting and forming machine tools, manufacturing systems, precision tools, automated material handling, computer technology, industrial electronics and accessories. EMO visitors come from all major industrial sectors including

machine and plant construction, the automotive industry and parts suppliers, aerospace technologies, precision engineering and optics, shipbuilding, medical engineering, tool and mold making, steel and lightweight construction. EMO Hannover is the number one international meeting place for the industry. EMO is a registered trademark of the European machine tool association Cecimo. EMO is organized by the VDW (German Machine Tool Builders' Association), Frankfurt am Main, Germany.

umati: connecting the world of machinery

umati (universal machine technology interface) is the global initiative for open communication interfaces for the machine building industry and its customers. Machine makers, software manufacturers, component suppliers and users have joined forces to create a strong community aimed at promoting the use of open, standardized interfaces based on OPC UA Companion Specifications. umati ensures identical implementation, provides a platform for sharing experiences, creates visibility in the market, and demonstrates the resulting value-added in a practical way, at <https://umati.app>.

umati enables the exchange of data between machines, components and systems, and their integration into customer and user-specific IT ecosystems - simply, seamlessly and securely.

umati is supported by VDW and VDMA and is based on OPC UA, a framework for communication among shop-floor devices. Standardized data models defined in OPC UA Companion Specifications can easily be extended to include customer or vendor-specific data. Around 25 Companion Specifications have already been published for various engineering technologies such as robotics, measuring systems, plastics and rubber machines, woodworking, machine tools, etc. 30 more are currently in the pipeline. In addition, the central "OPC UA for Machinery" Companion Specification contains basic building blocks – such as identification, job control and energy monitoring – that are crucial for the entire machinery and plant engineering industry.

More information at: <https://umati.org>

Contact: info@umati.org

Pictures:

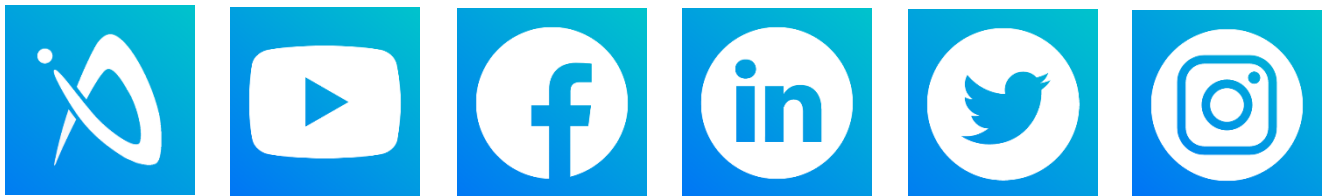
Picture 01: *umati* is the joint connectivity initiative of the VDW and VDMA. Together with a community of over 320 partners, it is committed to implementing and marketing open, standardized interfaces.

Picture 02: Dr. Alexander Broos, Head of Research and Technology at the VDW, and *umati* Project Manager: "For us, networking means connecting not only machines – but also people." (Photo: VDW)

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