

Nuremberg, April 18, 2023

Hannover Messe 2023

Nine partners demonstrate an interoperable digital twin based on the Asset Administration Shell

- **Siemens, Bausch+Ströbel, Bosch Rexroth, CADENAS, Festo, HARTING, SICK, Phoenix Contact, and WAGO use the Asset Administration Shell (AAS) to exchange digital twins in engineering**
- **Defined AAS standard is crucial for the interoperable and efficient exchange of digital twin data**
- **At Hannover Messe, partners demonstrate a specific application with machinery manufacturer Bausch+Ströbel**
- **Collaboration in an open ecosystem from component manufacturer to the customer**

At Hannover Messe 2023, Siemens, Bausch+Ströbel, Bosch Rexroth, CADENAS, Festo, HARTING, SICK, Phoenix Contact, and WAGO jointly demonstrate how the Asset Administration Shell standard can be implemented in practice. The companies have exchanged digital twin data according to the AAS standard and evaluated the added value based on a specific application with machinery manufacturer Bausch+Ströbel. In doing so, the nine partners thus made the interoperable digital twin based on an Asset Administration Shell from the component manufacturer to the customer possible for the first time.

Driven by the Industrial Digital Twin Association (IDTA), the AAS standard is industry-neutral and independent of manufacturers, enabling all of the information and functionality of a given asset to be documented, described and, most importantly, shared. In the area of Industrie 4.0, it facilitates the digital representation, for example, of a product or a machine, based on a uniform “data language” and standard data

access. This is crucial for the efficient exchange of digital twin data between companies where the use of proprietary formats within heterogeneous systems and IT landscapes is prevalent. For customers, this means speeding up and simplifying the engineering process as asset data becomes more open, more readily exchanged and can serve as the link between the physical and digital worlds.

Specific application at Hannover Messe

The partners are joining together at Hannover Messe to demonstrate how this can work, using a labeling machine from Bausch+Ströbel as an example. By providing component data in accordance with the Asset Administration Shell standard, the component manufacturers and software developers involved enabled Bausch+Ströbel to create a digital twin of the machine faster and more efficiently, saving a great deal of engineering time and thus saving money. “There is no longer any need to modify, search for, and complete the data, so we can begin our value-creating activities directly,” says Erich Bauer, Vice President of Research & Development at Bausch+Ströbel. “Thanks to the asset administration shell standard, the data is also of higher quality because, for example, we no longer have to reformat them.”

Siemens has supported this demonstration using solutions from the Siemens Xcelerator portfolio of software. Component manufacturers were able to provide their digital twin data as an AAS directly via Teamcenter® software for product lifecycle management (PLM) using a prototype development. Through prototypical AAS import add-ins within the engineering tools NX Mechatronics Concept Designer™, TIA Portal, and SIMIT, the generated component AAS could then quickly and easily be used for the engineering. Each participating component manufacturers provided a digital twin of their components, such as sensors, plug connectors, and cylinders, in the form of an Asset Administration Shell. Based on this specific application with Bausch+Ströbel, the partners then jointly evaluated the added value of the AAS.

By collaborating in an open ecosystem, the nine partners are driving Industrie 4.0 and the digital transformation in a crucial way. Other companies can join the working group.



Demonstrate an interoperable digital twin, based on the Asset Administration Shell, at Hannover Messe 2023: Representatives of Siemens, Bausch+Ströbel, Bosch Rexroth, CADENAS, Festo, HARTING, SICK, Phoenix Contact and WAGO.

This press release and press photos are available at:

www.siemens.com/press/hm23

For more information about the Asset Administration Shell:

https://industrialdigitaltwin.org/en/wp-content/uploads/sites/2/2023/04/2023_IDTA_AAS-Guide-HM.pdf

Contact Siemens AG:

Laura Egger

Tel.: +49 152 58963051

E-Mail: laura.egger@siemens.com

Contact Bausch+Ströbel SE + Co. KG:

Jörg Schmitz

Tel.: +49 (7904) 701 3430

E-Mail: joerg.schmitz@bausch-stroeel.de

Contact Bosch Rexroth AG:

Manuela Keßler

Tel.: +49 9352 18-4145

E-Mail: manuela.kessler@boschrexroth.de

Contact CADENAS:

Petra Kellerer

Tel.: +49 821 258580500

E-Mail: p.kellerer@cadenas.de

Contact Festo SE & Co. KG:

Christopher Haug

Tel.: +49 711 347-4032

E-Mail: Christopher.haug@festo.com

Contact HARTING:

Detlef Sieverdingbeck

Tel.: +49 57 72 47-244

E-Mail: detlef.sieverdingbeck@HARTING.com

Contact Phoenix Contact GmbH & Co. KG:

Eva von der Weppen

Tel. +49 5235 3-41713

E-Mail: eweppen@phoenixcontact.com

Contact SICK AG:

Melanie Jendro

Tel.: +49 (0) 7681 202 4183

E-Mail: melanie.jendro@sick.de

Contact WAGO GmbH & Co. KG:

Tina Meyer

Tel.: +49 571 887 - 77689

E-Mail: Tina.Meyer@wago.com

Follow us on **social media**

Twitter: <https://twitter.com/siemensindustry>

Blog: <https://ingenuity.siemens.com/>

LinkedIn Newsletter (EN only): [Digital Enterprise – Accelerating the digital transformation](#)

Siemens Digital Industries (DI) is an innovation leader in automation and digitalization. Closely collaborating with partners and customers, DI drives the digital transformation in the process and discrete industries. With its Digital Enterprise portfolio, DI provides companies of all sizes with an end-to-end set of products, solutions and services to integrate and digitalize the entire value chain. Optimized for the specific needs of each industry, DI's unique portfolio supports customers to achieve greater productivity and flexibility. DI is constantly adding innovations to its portfolio to integrate cutting-edge future technologies. Siemens Digital Industries has its global headquarters in Nuremberg, Germany, and has around 72,000 employees internationally.

Siemens AG (Berlin and Munich) is a technology company focused on industry, infrastructure, transport, and healthcare. From more resource-efficient factories, resilient supply chains, and smarter buildings and grids, to cleaner and more comfortable transportation as well as advanced healthcare, the company creates technology with purpose adding real value for customers. By combining the real and the digital worlds, Siemens empowers its customers to transform their industries and markets, helping them to transform the everyday for billions of people. Siemens also owns a majority stake in the publicly listed company Siemens Healthineers, a globally leading medical technology provider shaping the future of healthcare. In addition, Siemens holds a minority stake in Siemens Energy, a global leader in the transmission and generation of electrical power.

In fiscal 2022, which ended on September 30, 2022, the Siemens Group generated revenue of €72.0 billion and net income of €4.4 billion. As of September 30, 2022, the company had around 311,000 employees worldwide. Further information is available on the Internet at www.siemens.com.