Digital Twin “as maintained”

At the center of the live scenario is the intelligent nameplate of a rotary encoder, which makes all device-specific data available to any customer online via a QR code. Every subsequent change to the configuration of the new QR code is displayed to the customer in the Digital Twin as an “as maintained” status. In this way, Kühler minimizes effort and can focus on a part of the service team and at the same time increases the lifespan of its products.

Digital Twin: Sustainability enabled by AAS – DPFP and PCF on Connectivity+

The technology demonstrator “Sustainability enabled by AAS – PCF on Connectivity+”, developed by HARTING, SAP and Siemens, maps the topic of industrial sustainability via the product carbon footprint (PCF) using AAS. The demonstrator shows how the use and interpretation of AAS can achieve significant improvements in the data flows of complex product development and manufacturing processes, implement applications in a very short time and meet regulatory requirements, i.e. like EU Digital Product Passport.

Lenze Digital Twin – the Central Hub of a Machine

The demonstrator shows how information from components and machines can be made transparent and usable across manufacturers with the help of AAS. Information about the machine, such as its topology, is initially generated in the engineering phase. This information is merged with process data in the production phase. This enables easy access to all relevant information for a wide range of applications. An asset management system is used as an example to highlight this.

Information Hub | Scan any Rexroth product and access its Digital Twin

Leverage your company’s business with solutions based on more than 200,000 Digital Product Twins and discover them on your own mobile device. Already today, Bosch Rexroth supplies production solutions with their AAS-based Digital Product Twins. The Digital Service Assistant app gets you the right service support and data for any of your products – with just a single scan.

Digital Nameplate

Demonstration of digital nameplates in combination with AAS. Simulation of six real-world applications: information on firmware updates, remote access to machine data, automated return forms, digital maintenance manuals, follow-up products and the implementation of VDI 2770 for documentation.

B&R Golf Ball Catcher – powered by bill X

Experience ActiveDB as the operating system for the Digital Taxon application on the bill X. Witness real-time predictions and visualizations of a golf ball’s trajectory before it even swings. An impressive interplay of data intelligence and hardware showcasing the future of Industry 4.0.

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# AAS Presentation Program

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<thead>
<tr>
<th><strong>TUE 14.11.</strong></th>
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<tbody>
<tr>
<td><strong>9:45 – 10:30</strong></td>
<td><strong>DPP4.0 – The Digital Product Passport for Industrie 4.0</strong></td>
<td>Prof. Dr. Wegener (ZVEI, Siemens)</td>
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<tr>
<td><strong>11:50 – 12:10</strong></td>
<td><strong>Der smarte Steckverbinder (SmEC), ein Schritt zu mehr ökologischer Nachhaltigkeit</strong></td>
<td>Andreas Huhmann (HARTING)</td>
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<tr>
<td><strong>14:40 – 15:40</strong></td>
<td><strong>From the Digital Twin via simulation to the real drive system</strong></td>
<td>Martin Hankel (Bosch Rexroth), Markus Kieledunsche (Lenze), Dr. Falk Eckert (ZVEI), Priv.-Doz. Dr. Tassilo Schuster (Fraunhofer IIS), Jürgen Dlugosch (Baumüller)</td>
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<td><strong>15:00 – 15:20</strong></td>
<td><strong>Datenlogistik @ Manufacturing X</strong></td>
<td>Dr. Christoph Kelzenberg (Phoenix Contact)</td>
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<td><strong>15:40 – 16:40</strong></td>
<td><strong>Was der Digitale Zwilling auf Basis der AAS für mittelständische Komponentenhersteller bedeuten kann – ein Beispiel aus der Praxis</strong></td>
<td>Christian Günther (Conplement, Open Industrie 4.0 Alliance), Markus Weishaar (Dunkermotoren, Open Industrie 4.0 Alliance)</td>
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<th><strong>WED 15.11.</strong></th>
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<tr>
<td><strong>12:20 – 12:35</strong></td>
<td><strong>Digital Data Chain and Asset Administration Shell in the Context of Digital Product Passport</strong></td>
<td>Karsten Schneider (Siemens)</td>
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<td><strong>17:10 – 17:30</strong></td>
<td><strong>Bereitstellung des Product Carbon Footprints (PCF) im Wertschöpfungsnetzwerk mit Digitalen Zwillingen</strong></td>
<td>Dr.-Ing. Kristian Schatz (M&amp;M Software)</td>
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<td><strong>12:10 – 13:10</strong></td>
<td><strong>Software Nameplate – why software also needs a Digital Twin</strong></td>
<td>Prof. Dr.-Ing. habil. Martin Wollschaeger (Technische Universität Dresden), Dr.-Ing. Andreas Graf Gatterburg (Hilscher Gesellschaft für Systemautomation), Yasin Bagceci (Rittal)</td>
</tr>
<tr>
<td><strong>15:20 – 15:40</strong></td>
<td><strong>Mit Orchestra AAS-Konzepte nahtlos in bestehende Systemwelten integrieren</strong></td>
<td>Markus Benndorff (soffico)</td>
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