Rittal, Eplan, Cideon and GEC at SPS 2022

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| **Corporate Communications**  Dr Carola Hilbrand Phone: +49 2772 505- 2527 E-mail: hilbrand.c@rittal.de  Hans-Robert Koch Phone: +49 2772 505-2693 E-mail: [koch.hr@rittal.de](mailto:koch.hr@rittal.de)  Steffen Maltzan Phone: +49 2772 505-2680 E-mail: maltzan.s@rittal.de  Birgit Hagelschuer Phone: +49 2173 3964-180 E-mail: hagelschuer.b@eplan.de    Rittal GmbH & Co. KG Auf dem Stützelberg 35745 Herborn, Germany www.rittal.com |
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Rittal, Eplan, Cideon and GEC

in Hall 3, Booth 121 at the SPS

Eplan and Cideon also in Hall 6, Booth 238

From 8 to 10 November 2022 in Nuremberg, Germany

Three digital twins: Building and network manufacturing ecosystems

From the energy crisis to supply chain stress, the industry is under great pressure to change. How is the industry progressing while the transformation to smart production is taking place at the same time? And which contribution is control, switchgear and mechanical engineering making with consistent data from engineering through to plant operation? Rittal, Eplan, Cideon and German Edge Cloud will be discussing these questions with visitors to the SPS in Nuremberg, and showing how they use domain knowledge to promote solutions in the relevant ecosystems.

Herborn/Monheim/Gräfelfing/Limburg, 12 October 2022 – At the SPS in Nuremberg, Rittal, Eplan, Cideon and German Edge Cloud will be showing how to connect three ecosystems with their respective digital twins for smart production: Plants, products and production processes. “The data is generated in ecosystems that are often still incompletely networked even today. If it is possible to create a complete digital twin for each plant, product and production process and then, in turn, to connect them intelligently, this will be a lever on the way to smart production,” says Markus Asch, CEO Rittal International and Rittal Software Systems. And he adds: “The SPS is the ideal environment for dialogue with control, switchgear and mechanical engineering professionals in particular - and for answers to the question of how the data from the digital plant twin can also be used to add value in operations. There are great opportunities in this.” To this end, the companies of the Friedhelm Loh Group support their customers with domain knowledge and tangible solutions.

Eplan and Rittal are working with control, switchgear and machine manufacturers to advance the development of the automation twin of machines and systems and make the data usable during operation. Cideon, with its expertise in CAD/CAM, PDM/PLM and product configuration, increases data consistency around the digital product twin. German Edge Cloud uses information from system data for faster networking and to visualise processes as a digital production twin. IIoT-supported production management with the ONCITE Digital Production System then increases production efficiency and flexibility.

**Digital from engineering to operations**

One focal point at the joint booth 121 in Hall 3 is data consistency along the entire value chain of panel building and switchgear manufacturing – from engineering to supply and from manufacturing to the operational phase of the systems. Panel builders and switchgear manufacturers save time and money in their value-added process with solutions from Eplan and Rittal. As a guarantee of seamless system data for maintenance, smart service and system connectivity, they will also become sought-after digital partners for system operators.

**More speed for electrical engineering and supply**

The new Eplan Platform 2023 brings more speed to engineering: with its new graphics engine, it ensures even faster 3D planning. An international macro administration to support different standards further accelerates the process. Eplan eStock complements the central article management in the cloud. Eplan Harness proD now supports users with everything involving the cabling of machines. Rittal is speeding up the supply chain with configurators and rapidly deliverable system technology, which now also further integrates the compact AX series as a fully-fledged compact enclosure. Naturally enough, the presentation at the trade fair will also include product innovations from all areas of the Rittal system. Regardless of whether the application is in industry, energy or IT – the entire product range is available from stock.

**New machines and software for the workshop**

The WT C10 Wire Terminal is a highlight of the Rittal trade fair. With the new version of the fully automatic wire processing machine, wires can be processed ten times faster than by hand. The development offers many improvements, for example a modular approach to the supply and output of wires with a new wire magazine system and quickly exchangeable feed blocks. The Wire Terminal’s new software architecture ensures seamless integration into the workflow of the RiPanel Processing Center. An update of this job management software is also being exhibited at the trade fair. New features include improved change management and the integration of UNC threads for the US market.

Eplan’s top innovation for the enclosure construction workshop is “Smart Mounting”. The new software now also visualises the mechanical and electrical components used in enclosure construction, while Eplan Smart Wiring guides you through the cabling. Thanks to precise work instructions and 3D visualisations, expansion is easier and free of error; there is no need for any lengthy training of staff. Visitors can also gain further insights, process analysis and strategy advice at Eplan and Cideon's Booth No. 238 in Hall 6.

**IIoT data for agile manufacturing management**

The operational phase of the systems involves more than just maintenance benefits through system data in the ePocket digital wiring plan pocket, or 75 percent energy savings with new Blue e+ cooling units or smart services. German Edge Cloud shows how production efficiency and flexibility can be increased when data from industrial IoT applications are incorporated into the agile management of manufacturing processes. The ONCITE Digital Production System, recently rated as “best in class” by Pierre Audoin Consultants (PAC), combines formerly separate core features of digital production in a system with a flexible architecture: agile production management with MES and MOM functions, industrial IoT as a database and low-code development for simple application development. On top of this, edge computing meets all demands regarding sovereignty in data processing.

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**Caption(s)**

fri22210800.jpg: Rittal, Eplan, Cideon and German Edge Cloud are showing how to connect three ecosystems with their respective digital twins for smart production: plants, products and manufacturing processes.

fri22204000.jpg: “The data is generated in ecosystems that are often still incompletely networked even today. If it is possible to create a complete digital twin for each plant, product and production process and then, in turn, to connect them intelligently, this will be a lever on the way to smart production,” says Markus Asch, CEO Rittal International and Rittal Software Systems.

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**About Rittal**

Rittal, headquartered in Herborn, Germany, is a leading global provider of solutions for industrial enclosures, power distribution, climate control and IT infrastructure, as well as software and services. Systems made by Rittal are deployed in over 90 per cent of all industries across the world, including machine building and plant engineering, food and beverage, and IT and telecommunications.

The international market leader’s product portfolio includes configurable enclosures, with data available across the entire production process. Smart Rittal cooling systems, with up to 75 per cent lower power and a great carbon advantage can communicate with the production landscape, enabling predictive maintenance and servicing. The offering also includes innovative IT products, from IT racks and modular data centres, to edge and hyperscale computing solutions.

Leading software providers Eplan and Cideon support the value chain, providing interdisciplinary engineering solutions, while Rittal Automation Systems offers solutions for switchgear. Within Germany, Rittal can supply products on demand within 24 hours – with precision, flexibility and efficiency.

Founded in 1961, Rittal is the largest company in the owner-operated Friedhelm Loh Group. The Friedhelm Loh Group is active worldwide, with 12 production sites and 90 international subsidiaries. It has more than 11,600 employees and posted revenues of € 2.6 billion in fiscal 2021. In 2022, the family-run business was named one of Germany’s leading employers by the Top Employers Institute, for the 14th year running. Within the scope of a Germany-wide survey, Focus Money magazine identified the Friedhelm Loh Group as one of the nation's best providers of vocational training for the fifth time in 2021. In 2022, Rittal was awarded the Top 100 Seal as one of Germany’s most innovative medium-sized companies.

For more information, visit www.rittal.com and [www.friedhelm-loh-group.com](http://www.friedhelm-loh-group.com).

**About EPLAN**

EPLAN provides software and service solutions in the fields of electrical, automation and mechatronics engineering. The company develops one of the world’s leading design software solutions for machine and panel builders. EPLAN is also the ideal partner to streamline challenging engineering processes.

Both standardised, as well as customised interfaces to ERP and PLM/PDM systems, ensure data consistency along the whole value chain. Working with EPLAN means borderless communication across all engineering disciplines. No matter whether small or large enterprises: Customers can use their expertise more efficiently. EPLAN wants to grow further with customers and partners and pushes integration and automation in engineering forward. Worldwide, EPLAN supports 61,000 customers. “Efficient engineering” is the focus.

EPLAN was founded in 1984 and is part of the owner-operated Friedhelm Loh Group. The family-owned business maintains a worldwide presence, with 12 production sites and 90 subsidiaries. Managed by founder Professor Friedhelm Loh himself, the group employed over 11,600 people and generated revenues of approximately Euro2.5 billion in 2021. For the fourteenth time in succession, the group has won the accolade “Top German Employer” in 2022. Within the scope of a Germany-wide survey, Focus Money magazine and the Stiftung Deutschland Test identified the Friedhelm Loh Group as one of the nation's best providers of vocational training for the fourth time in 2021.

For more information, visit [www.eplan.com](https://www.eplan.de/) and [www.friedhelm-loh-group.com](http://www.friedhelm-loh-group.com/).

**About CIDEON**

CIDEON advises and supports companies in optimizing their product development processes – from designing through engineering to production and service. As a system integrator and process consultant, CIDEON knows and understands the challenges faced by companies when it comes to digital transformation. With unique solutions, CIDEON ensures a consistent flow of data along the process chains, making data available company-wide and in an economically usable way. This means that CIDEON customers can exploit the full potential of digitisation for themselves and their customers.

CIDEON uses the latest software solutions from the CAD/CAM and PDM/PLM sectors, along with software developed in-house. CIDEON is an Autodesk Platinum Partner in German-speaking Europe, an SAP Platinum Build Partner, as well as a software partner of Dassault Systèmes and PROCAD. CIDEON, which has over 300 employees at 12 locations in Germany and Austria, is also part of the Friedhelm Loh Group. The family business is active worldwide, with 12 production sites and 90 subsidiaries all over the world. The corporate group includes Rittal, Eplan, Stahlo and LKH.

For more information, visit [www.cideon.de](http://www.cideon.com) and [www.friedhelm-loh-group.com](http://www.friedhelm-loh-group.com).

**About German Edge Cloud**

German Edge Cloud (GEC), a member of the Friedhelm Loh Group, specialises in innovative edge and cloud computing. GEC solutions enable the rapid, simple and secure availability of data in connected environments. They support process optimisation, for instance in manufacturing, by empowering data analytics, and guaranteeing customers complete control over their data when using public or private clouds.

GEC is a developer and service integrator for turnkey solutions, offering both its own and sector-specific systems. The company already deploys its solutions at the Industry 4.0 factory of sister company Rittal in Haiger.

GEC integrates and operates hybrid private edge cloud infrastructures from Infrastructure as a Service (IaaS) to Platform as a Service (PaaS) and industry-specific applications in the Software as a Service (SaaS) model. It is a co-founder of GAIA-X and a member of the Catena-X automotive initiative.

GEC is a member of the owner-operated Friedhelm Loh Group. The group is active worldwide, with 12 production sites and more than 90 international subsidiaries. It has approximately 11,600 employees and posted revenues of €2.6 billion in fiscal 2021.

For more information, visit[www.gec.io](http://www.gec.io) and [www.friedhelm-loh-group.com](http://www.friedhelm-loh-group.com).