

Press release

Hannover Messe 2024: Axians showcases hands-on technologies

TO CONNECT OT: Innovative ICT portfolio for the integration of operational technology and IT

Frankfurt am Main, 05.04.2024 – This year, Axians is focusing its presence at the Hannover Messe entirely on the campaign motto "TO CONNECT OT". From 22 to 26 April, visitors can experience live in Hall 15 at Booth G24 how the integration of operational technology (OT) and IT increases efficiency, quality and sustainability. Highlights include exciting national and international use cases from the areas of 5G campus networks, telecommunications infrastructure, environmental and waste management, and OT security. In addition, the ICT service provider will present the results of IDC's new HPC (High Performance Computing) White Paper for the first time.

In order to make digitalisation tangible, Axians has once again come up with something special this year: a Lego model depicts an entire industrial plant. On display in miniature are high racks, an industrial railway line with a construction site, a waste disposal facility, a 5G transmission mast and an IT/OT SOC (Security Operations Center). The individual model areas illustrate the various use cases from the Axians portfolio – from telecommunications infrastructure to sensor networking and cyber security. At the respective stations, trade fair visitors can immerse themselves in the application scenarios. "The seamless integration of operational technology and IT is not only the key to increasing efficiency and reducing costs, but also a key factor for the security of our digital systems," says Jacques Diaz, CEO of Axians Germany. Our holistic ICT portfolio combines innovation, security and industry expertise to provide our customers with tailor-made solutions for their industrial challenges. Axians not only has decades of IT expertise, but also works closely with its sister brands Actemium and Omexom in the international VINCI Energies network. This combination of IT and OT know-how makes us unique." At the trade fair stand, Axians will be presenting solutions and projects for networked industry – from Germany and Switzerland as well as Poland, the Czech Republic, Slovakia and Croatia.

Highlights for the industry in practice

5G campus networks

Among the highlights at the Axians booth are use cases related to 5G. The experts will use a demonstrator to show how a private 5G campus network for industry is structured. The focus is on a model of the M30 tower – a temporary mobile phone mast that can be put into operation quickly and easily. 5G is no longer a technical gimmick, but has arrived in practice. The high-performance wireless technology enables stable, secure networking even in complex industrial environments. It easily passes through reinforced concrete, covers large areas and is particularly suitable for Industry 4.0 scenarios that require high bandwidth or minimal latency. In Axians' Network as a Service model, a 5G campus network is also feasible for medium-sized companies.

Two use cases at the booth illustrate what the technology can do in practice:

- **Autonomous Inspection Robot**

Together with its partner Energy Robotics, Axians is demonstrating an inspection robot that drives autonomously across the site. It can independently make video recordings, read values from systems and perform other inspection tasks. The robot is networked using 5G technology and transmits its data to the downstream IT systems.

- **IoT-Gateway**

In cooperation with its partner CTHINGS.CO, Axians will be demonstrating how various sensors can be connected to an IoT gateway via 5G. For example, the compact systems collect data on the condition of the machine and transmit this information to the platform. There, they can then be evaluated and used for condition monitoring or predictive maintenance scenarios.

Transport infrastructure and fixed network infrastructure

In addition to wireless networking, industrial companies often also need fixed-line and traffic infrastructure infrastructure. Visitors to the trade fair can see which complex aspects have to be taken into account in a reference project by means of a video contribution. It shows which services Axians provides in the areas of maintenance and repair for the chemical company BASF. The services relate to the complete cabling of a private railway line, including signalling, control and safety technology as well as the lighting masts.

An example of a fixed-line infrastructure is a digital twin of an industrial environment that illustrates the complex cabling used to supply data using copper, coaxial and fiber optic cables in an industrial plant.

Waste management and sustainability

Two further application examples demonstrate how digitalization can also optimize waste management and support sustainability reporting – in line with this year's motto of the Hannover Messe "Energizing a Sustainable Industry". Smart garbage cans, for example, help companies anticipate when they need to be emptied. This is ensured by sensors that measure the fill level and identify and document the contents as well as their origin. In addition, interested parties can use an XXL tablet to determine their CO2 footprint for their visit to the trade fair in an interactive dashboard.

Cyber Security im IT/OT SOC

Since the risk of cyber attacks also increases with increasing networking, a holistic security concept is indispensable for digitization. This is where the Axians IT/OT Security Operations Center (SOC) comes into play: it serves as a central cyber security control center for both IT and OT security and can quickly uncover and contain security risks in both worlds. Axians security specialists reduce the workload of internal teams and significantly increase security. At the booth, they will provide information about their offerings.

IDC White Paper, sponsored by Axians, on High Performance Computing

Performance Computing (HPC) is a technological enabler for data-driven solutions in many industries – from autonomous vehicles and AI for smart factories to smart logistics and traffic control to research and development. For the necessary calculations, a considerable proportion of companies prefer on-premise processing in their own high-performance infrastructures in addition to cloud services. In a forthcoming IDC White Paper, sponsored by Axians*, that Axians is presenting for the first time at the Hannover Messe, IDC has analyzed current HPC trends. The IDC White Paper describes the implementation of Croatia's first petascale supercomputer called "Supek". Axians supported the experts from the University of Zagreb's Computing Centre in providing the scientific community with an HPC platform for multidisciplinary research. This is used for research purposes in a wide variety of fields such as computational chemistry, computational fluid dynamics or AI.

Source: *IDC White Paper, sponsored by Axians, HPC is not only a complex affair, but its hybrid and heterogeneous nature, calls for collaboration with an experienced skilled HPC partner, doc # EUR252012324, April 2024

Arrange a press conference now

Take the opportunity to exchange ideas in person with the experts from Axians at the Hannover Messe 2024 in Hall 15, Booth G24.

We would also be happy to arrange an appointment for you for a press conference – please contact us! In addition to the HPC White Paper, there is also the opportunity to conduct a joint interview with Axians and IDC representatives.

Pictorial material:



Caption: Jacques Diaz, CEO Axians Germany (Source: Axians)



Caption: Motto of this year's exhibition stand at Hannover Messe 2024

Axians in Germany

The Axians Group in Germany is part of VINCI Energies' global network of ICT solutions. With a holistic ICT portfolio, the Group supports companies, municipalities and public institutions, network operators and service providers in the modernization of their digital infrastructures and solutions. In the four business units Business Applications & Data Analytics, IT & Managed Services, TI Fixnet & Mobile and TI Fixnet, consultants, developers, technicians and fitters ensure that people's lives are improved – for example through cloud and data center infrastructures, cybersecurity, enterprise and broadband networks, IoT solutions, managed services, and leading software for waste management, bulk solids industry, technical services, and public Administration.

2023: €644 million // 2,706 employees // 49 locations

www.axians.de

About Axians

Axians supports private companies, public institutions, network operators and service providers in modernising their digital infrastructures and solutions. Whether applications or data analytics, corporate networks, shared workspaces, data centers, cloud solutions, telecommunications infrastructures or Internet security – Axians is a specialist for all the latest information and communication technologies! Through consulting, planning, integration and a wide range of services, Axians unlocks the full added value of these technologies in the form of needs-based solutions for the customer. Axians is a brand of VINCI Energies.

2023: €3.6 billion // 16,000 employees // 37 countries

www.axians.com

About VINCI Energies

In a changing world, VINCI Energies is accelerating the green transition by helping to shape two far-reaching transformations: digitalisation and the energy transition. As a market-oriented integrator of tailor-made, cross-technology solutions, we support our customers in the implementation of technologies, from planning to implementation and operation to maintenance. With our 2,000 regionally anchored, agile and innovative business units, we are involved in our customers' energy-related decisions, infrastructures and processes and ensure greater reliability, efficiency and sustainability every day. VINCI Energies strives for a global service that respects the planet, benefits people and stands in solidarity with people.

2023: €19.3 billion // 97,000 employees // 2,000 business units // 61 countries

www.vinci-energies.com

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