SIEMENS

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Siemens Xcelerator: Siemens accelerates IT and OT integration with Microsoft for Edge, Cloud, AI and Simulation

- **New: Siemens Industrial Edge works seamlessly with Microsoft Azure IoT Operations, making OT and IT data planes fully interoperable for manufacturing**
- **Edge and cloud data integration enables adaptive production through AI- and digital-twin-powered solutions**
- **Industrial customers benefit from improved machine performance, product quality and reduced machine maintenance**

Siemens announces an extended collaboration with Microsoft in the context of Siemens Xcelerator, Siemens' open digital business platform, to simplify the integration of information technology (IT) and operational technology (OT) for enterprise customers. By combining Siemens Industrial Edge with Microsoft Azure IoT Operations, customers will benefit from complementary solutions that enable a seamless flow of data from production lines to the edge and to the cloud. This edge-to-cloud data integration enables AI- and digital-twin-powered solutions to improve machine performance, product quality, and reduce machine maintenance.

Siemens Industrial Edge integrates with Azure IoT Operations, part of Microsoft Azure's adaptive cloud approach

In the past, industrial companies have managed data and workloads in separated IT and OT environments. Today, making manufacturing more adaptive calls for OT and IT to converge. Edge computing plays a pivotal role by bridging the gap between shopfloor and cloud, allowing data to be captured and processed directly at the source: on the shopfloor.

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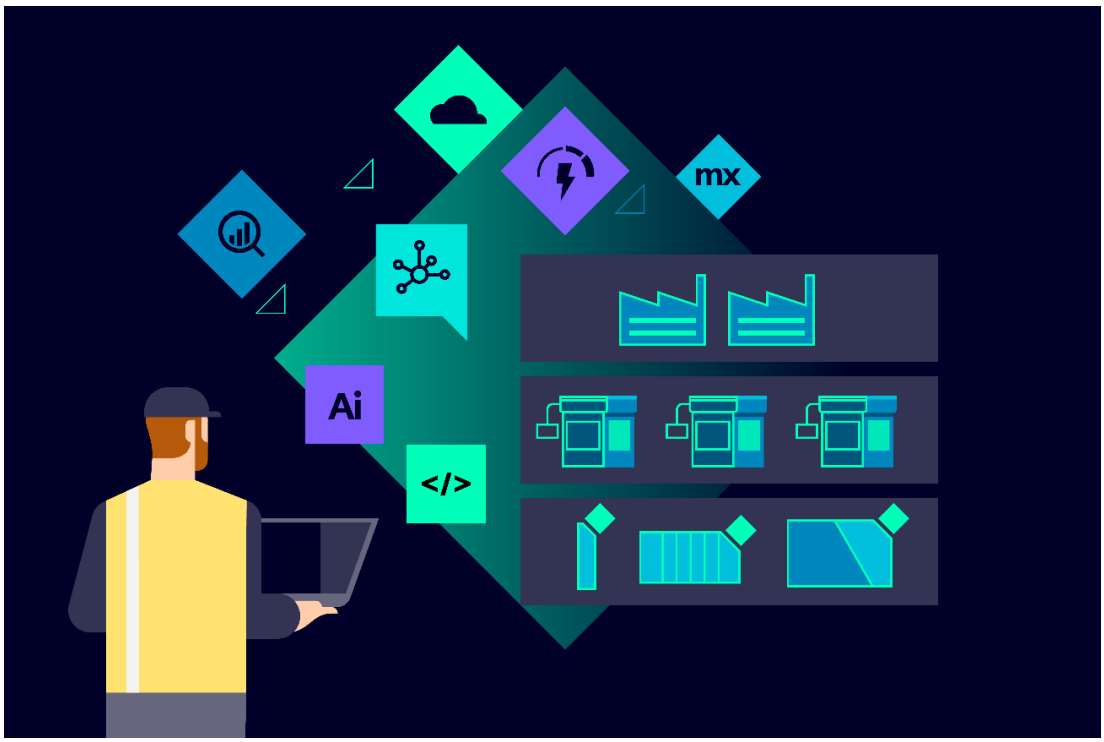
With Siemens Industrial Edge, manufacturers can simply and quickly deploy and manage applications in a factory environment. Connectivity applications deployed to Siemens Industrial Edge devices enable continuous data flows from industrial assets to Azure IoT Operations.

A core component of the Azure adaptive cloud approach, Azure IoT Operations is designed to seamlessly integrate on-premises industrial edge solutions, like Siemens Industrial Edge, with the cloud, ensuring a continuous flow of data for smarter operations.



Siemens Industrial Edge allows manufacturers to deploy and manage workloads and connectivity applications, seamlessly connecting industrial assets to Microsoft Azure

In this way, the powerful OT data plane provided by Siemens Industrial Edge works easily with Azure IoT Operations, to create an interoperable OT and IT data plane for manufacturing. The data layer from Siemens Industrial Edge effectively addresses mission-critical production applications such as virtualized control, low-latency closed-loop AI, executable digital twins, or production line-level analytics. It allows manufacturers to deploy responsive, reliable, flexible and secure applications to optimize their operations, reduce costs, and increase uptime and quality. By coupling with Azure IoT Operations, industrial producers can easily leverage this OT data in cloud-based, data-driven use cases to optimize production across sites and gain insights from advanced analytics.

“Siemens and Microsoft are reducing complexity for industrial customers by easing the burden of integrating and managing infrastructure, data and applications,” explained Rainer Brehm, CEO Factory Automation at Siemens. “It is now easier to deploy and scale automation solutions across machines, lines and factories, enabling higher machine performance and reduced maintenance time.”

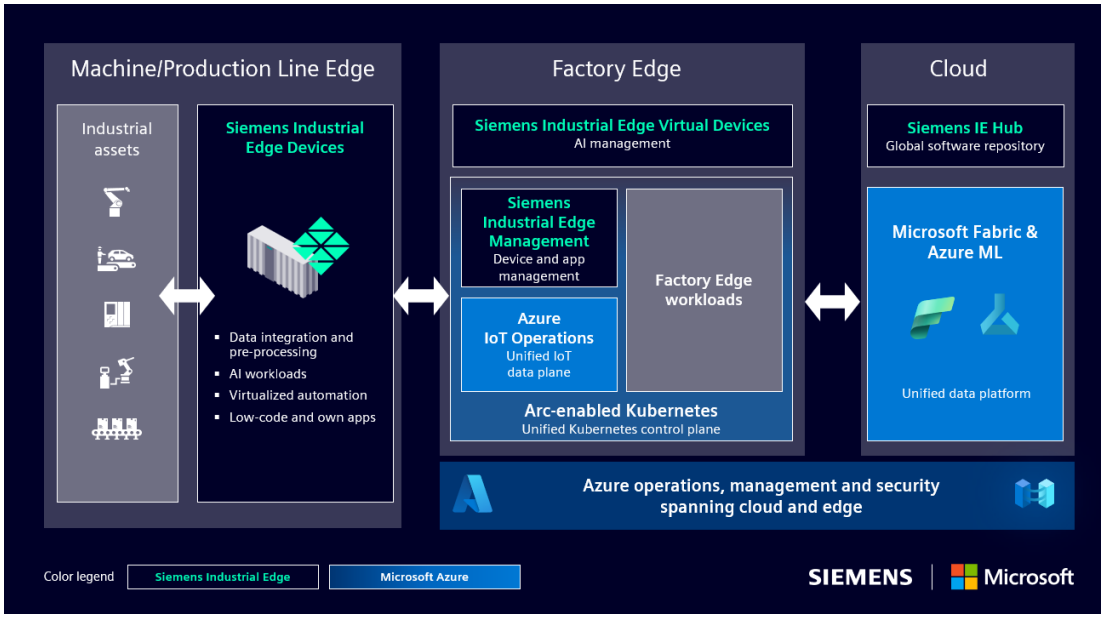
Siemens Industrial Edge also provides a unified and scalable control plane for critical OT workloads, allowing customers to centrally deploy and manage production-level use cases at scale, while Azure provides a unified control plane for IT workloads in the cloud and on-premises. By using both infrastructure solutions together, users can quickly deploy and manage workloads in hybrid environments at scale, wherever they are needed, and focus on the real results: harnessing data and technologies like AI and digital twins, to streamline their production and make it more adaptive.

“Through the Microsoft adaptive cloud approach, manufacturers can now leverage Siemens Industrial Edge with Azure IoT Operations and unify their data with Microsoft Fabric. This marks a significant milestone in Siemens’ and Microsoft’s common journey towards accelerating the digital transformation of manufacturers by enabling them to create data-driven applications in hybrid environments faster than ever before,” said Dayan Rodriguez, Corporate Vice President, Manufacturing and Mobility, at Microsoft.
Microsoft Fabric is a unified data platform that simplifies data management and analytics, readying it for AI.

Turning shopfloor data into real outcomes

Together, Siemens and Microsoft are enabling industrial manufacturers to deploy edge to cloud use cases. To improve product quality with AI and reduce manual rework and costs, producers can use the Siemens Industrial AI portfolio with Azure Machine Learning services to train AI and machine learning models in the cloud and run them at the edge with low latency. To improve overall equipment efficiency and value flows on the shopfloor, data provided by Siemens Industrial Edge to Azure IoT Operations and Azure cloud services can be used to create digital twins. The

collaboration also enables the use of live production data with generative AI capabilities to enhance workforce skills and operations. The Siemens Industrial Copilot for Operations helps operators troubleshoot problems and access machine information through natural language queries.



Combining Siemens Industrial Edge with Microsoft's cloud and AI services enables a seamless data flow from production lines to the edge and to the cloud

This press release as well as press pictures are available at https://sie.ag/4JXBim
Further information on Siemens Industrial Edge at siemens.com/industrial-edge
Further information on Siemens at Hannover Messe 2025 at www.siemens.com/press/hm25 and www.siemens.com/hannover-messe

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Siemens Digital Industries (DI) empowers companies of all sizes within the process and discrete manufacturing industries to accelerate their digital and sustainability transformation across the entire value chain. Siemens' cutting-

edge automation and software portfolio revolutionizes the design, realization and optimization of products and production. And with Siemens Xcelerator – the open digital business platform – this process is made even easier, faster, and scalable. Together with our partners and ecosystem, Siemens Digital Industries enables customers to become a sustainable Digital Enterprise. Siemens Digital Industries has a workforce of around 70,000 people worldwide.

Siemens AG (Berlin and Munich) is a leading technology company focused on industry, infrastructure, mobility, and healthcare. The company's purpose is to create technology to transform the everyday, for everyone. By combining the real and the digital worlds, Siemens empowers customers to accelerate their digital and sustainability transformations, making factories more efficient, cities more livable, and transportation more sustainable. Siemens also owns a majority stake in the publicly listed company Siemens Healthineers, a leading global medical technology provider pioneering breakthroughs in healthcare. For everyone. Everywhere. Sustainably.
In fiscal 2024, which ended on September 30, 2024, the Siemens Group generated revenue of €75.9 billion and net income of €9.0 billion. As of September 30, 2024, the company employed around 312,000 people worldwide on the basis of continuing operations. Further information is available on the Internet at www.siemens.com.