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Press

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Siemens enters collaboration with Microsoft to enhance IoT interoperability for buildings

- **Collaboration to enable interoperability between Siemens' digital building platform, Building X, and Microsoft Azure IoT Operations**
- **Open standards, such as W3C Thing Descriptions and OPC UA PubSub, will offer enterprise customers greater integration of IoT-based data**
- **Reducing integration efforts by up to 80 percent, resulting in optimized building operations and sustainability**

Today, Siemens Smart Infrastructure announced a collaboration agreement with Microsoft to transform access to Internet of Things (IoT) data for buildings. The collaboration will enable interoperability between Siemens' digital building platform, Building X, and Microsoft Azure IoT Operations enabled by Azure Arc. Azure IoT Operations, a component of this adaptive cloud approach, provides tools and infrastructure to connect edge devices while integrating data, enabling organizations to optimize their operations and utilize the potential of their IoT environments.

The interoperability of Building X and Azure IoT Operations is making IoT-based data more accessible for large enterprise customers across commercial buildings, data centers, and higher education facilities and provides them with the necessary information to enhance sustainability and operations. It enables automatic onboarding and monitoring by bringing datapoints such as temperature, pressure, or indoor air quality to the cloud, for assets like heating, ventilation and air conditioning (HVAC) systems, valves, and actuators. The solution will even allow customers to develop their own in-house use cases such as energy monitoring and space optimization.

One-click device onboarding to the cloud, and efficient data exchange will give customers unparalleled freedom to design their IoT architecture. Siemens' hardware and software components can be seamlessly integrated without being confined to a single vendor ecosystem.

The collaboration leverages known and established open industry standards, including World Wide Web Consortium (W3C) Web of Things (WoT), describing the metadata and interfaces of hard- and software, as well as Open Platform Communications Unified Architecture (OPC UA) for communication of data to the cloud. Both Siemens and Microsoft are members of the W3C and the OPC Foundation, which develops standards and guidelines that help build an industry based on accessibility, interoperability, privacy, and security.

This solution marks one of the first integrations of IoT data purely based on open standards across providers.

"This collaboration with Microsoft reflects our shared vision of enabling customers to harness the full potential of IoT through open standards and interoperability," said Susanne Seitz, CEO, Siemens Smart Infrastructure Buildings. "The improved data access will provide portfolio managers with granular visibility into critical metrics such as energy efficiency and consumption. With IoT data often being siloed, this level of transparency is a game-changer for an industry seeking to optimize building operations and meet sustainability targets."

"Siemens shares Microsoft's focus on interoperability and open IoT standards. This collaboration is a significant step forward in making IoT data more actionable," said Erich Barnstedt, Senior Director & Architect, Corporate Standards Group, Microsoft. "Microsoft's strategy underscores our commitment to partnering with industry leaders to empower customers with greater choice and control over their IoT solutions."

The interoperability between Siemens' Building X and Azure IoT Operations will be available on the market from the second half of 2025.

Building X is a digital building platform that supports customers to digitalize, manage, and optimize their building operations, paving the way for sustainable,

autonomous, and profitable assets. It is part of Siemens Xcelerator, an open digital business platform that enables customers to accelerate their digital transformation easier, faster and at scale.

This press release as well as a press picture are available [here](#).

For more information on Siemens Smart Infrastructure, please see [Siemens Smart Infrastructure](#).

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Siemens Smart Infrastructure (SI) is shaping the market for intelligent, adaptive infrastructure for today and the future. It addresses the pressing challenges of urbanization and climate change by connecting energy systems, buildings, and industries. SI provides customers with a comprehensive end-to-end portfolio from a single source – with products, systems, solutions, and services from the point of power generation all the way to consumption. With an increasingly digitalized ecosystem, it helps customers thrive and communities progress while contributing toward protecting the planet. To protect this journey, we foster holistic cybersecurity to ensure secure and reliable operations. Siemens Smart Infrastructure has its global headquarters in Zug, Switzerland. As of September 30, 2024, the business had around 78,500 employees 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. A leader in industrial AI, Siemens leverages its deep domain know-how to apply AI – including generative AI – to real-world applications, making AI accessible and impactful for customers across diverse industries. 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.