SIEMENS

Hannover Messe 2024, Hall 9 | Booth 53

Siemens Xcelerator: Scaling roll-out of generative AI with Siemens Industrial Copilot

- **Siemens makes automation easy with the first generative AI-powered product for engineering in an industrial environment**
- **Siemens Industrial Copilot accelerates the generation of complex automation code, reduces development times, and increases productivity**
- **TIA Portal connection offers customers SCL code generation, customization of HMI visualization, and document search in natural language**
- **Available for download from the Siemens Xcelerator marketplace starting in summer 2024**

At Hannover Messe 2024, Siemens presents the first generative artificial intelligence (AI) product for engineering in an industrial environment. The Siemens Industrial Copilot, the generative AI-powered assistant, is now seamlessly connected to the Totally Integrated Automation (TIA) Portal. This will enable engineering teams to find the right help topic and to generate a basic visualization and code faster for programmable logic controllers (PLC). As a result, they will be able to significantly reduce their workload and offload repetitive tasks to the Siemens Industrial Copilot. In addition, the engineering of complex tasks will become less susceptible to errors. This in turn reduces development times and boosts quality and productivity over the long term. The Siemens Industrial Copilot for TIA Portal Engineering will be available for download from the Siemens Xcelerator marketplace starting in summer 2024.

Siemens Industrial Copilot: Huge benefits for engineering

From theory to scale: The first generative AI-powered product for industrial engineering

At Hannover Messe 2023, Siemens and Microsoft jointly unveiled their vision for a generative AI-powered assistant: The Siemens Industrial Copilot includes automation and process simulation information from Siemens' digital business platform Siemens Xcelerator. It is enriched with the large language models in Microsoft Azure OpenAI Service, for example to augment the creation and optimization of code in software for factory automation. At the Smart Production Solutions (SPS) trade show in the fall of 2023 and in collaboration with Schaeffler AG, Siemens presented a generative AI-enhanced production machine for the first time. Siemens is now moving from theory to scale with its first generative AI-powered product for engineering at Hannover Messe 2024.

The Siemens Industrial Copilot will enable industrial customers of all sizes to harness the power of industrial-grade generative AI to transform their operations. Industrial automation solution provider Grenzebach Group, a family-owned business and an early adopter of the Siemens Industrial Copilot, is testing how generative AI can augment industrial automation engineering and support engineers to reduce time, effort and probability of errors.

Dr. Steven Althaus, CEO Grenzebach Group, says: "Generative AI is a must have. At Grenzebach, we're committed to harnessing its power to stay ahead of the game. The Siemens Industrial Copilot will allow us to make the most of the rapidly increasing amount of data available in a factory. And it will take human-machine collaboration to the next level. With Siemens, we can address the skilled labor shortages, boost innovation, and significantly increase the productivity of our workforce."

Huge benefits for engineering: Introducing new features for the Siemens Industrial Copilot
Features of the new Siemens Industrial Copilot for TIA Portal Engineering include automated code generation in structured control language (SCL): The TIA Portal can take the code suggestion directly from the AI, eliminating the need to copy and paste. It's also possible for the Siemens Industrial Copilot to explain SCL code blocks or to guide and easily create an initial machine or plant visualization in WinCC Unified. In addition, engineering teams can search Siemens manuals in natural language. Customers will have the option to access their private instance of Azure OpenAI Service which doesn't use customer data to retrain models.

"Siemens makes automation easy. The Siemens Industrial Copilot is bringing industrial generative AI to the shopfloor and will be an indispensable part of the engineering process in the future. With the easy and seamless connection to our TIA Portal, we're the first to offer a generative AI product for engineering to industrial companies worldwide," says Rainer Brehm, CEO Factory Automation at Siemens Digital Industries. "Industrial AI is an important lever for combining the real and the digital worlds – with the ultimate goal of addressing major challenges, such as the shortage of skilled workers or making industrial production more efficient and sustainable."

Siemens envisions a suite of generative AI-powered industrial copilots across the entire value chain that will transform the way companies design, plan, develop, engineer, and work. Together with early pilot customers and partners, Siemens is advancing generative AI-powered copilot solutions across multiple industries, from automotive, infrastructure, transportation, and healthcare to manufacturing and mechanical engineering. Siemens Industrial Copilot for Design, Planning, Engineering, Operations

and for Services – supporting engineers, factory workers, everyone – will make human-machine interaction easy, fast and efficient.

This press release and press pictures are available at https://sie.ag/Y2KrQ

Further information on Siemens Industrial Copilot at
www.siemens.com/industrial-copilot

Further information on Siemens at Hannover Messe 2024 at
www.siemens.com/press/hm24 and www.siemens.com/hannover-messe

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Siemens Digital Industries (DI) is an innovation leader in automation and digitalization. Closely collaborating with partners and customers, DI drives the digital transformation in the process and discrete industries. With its Digital Enterprise portfolio, DI provides companies of all sizes with an end-to-end set of products, solutions and services to integrate and digitalize the entire value chain. Optimized for the specific needs of each industry, DI's unique portfolio supports customers to achieve greater productivity and flexibility. DI is constantly adding innovations to its portfolio to integrate cutting-edge future technologies. Siemens Digital Industries has its global headquarters in Nuremberg, Germany, and has around 72,000 employees internationally.

Siemens AG (Berlin and Munich) is a leading technology company focused on industry, infrastructure, transport, and healthcare. From more resource-efficient factories, resilient supply chains, and smarter buildings and grids, to cleaner and more comfortable transportation as well as advanced healthcare, the company creates technology with purpose adding real value for customers. By combining the real and the digital worlds, Siemens empowers its customers to transform their industries and markets, helping them to transform the everyday for billions of people. Siemens also owns a majority stake in the publicly listed company Siemens Healthineers, a globally leading medical technology provider shaping the future of healthcare.
In fiscal 2023, which ended on September 30, 2023, the Siemens Group generated revenue of €77.8 billion and net income of €8.5 billion. As of September 30, 2023, the company employed around 320,000 people worldwide. Further information is available on the Internet at www.siemens.com.