SIEMENS

Press

Munich, November 24, 2026

Siemens brings agentic AI to process industry engineering

- **Eigen Engineering Agent for Process Industries launched for Siemens' distributed control system SIMATIC PCS 7**
- **New AI capabilities help engineers understand, check, and create control logic in plant engineering projects**
- **To be presented at SPS 2026 trade show**

Siemens is extending its Eigen Engineering Agent to the process industries. The Eigen Engineering Agent for Process Industries works with SIMATIC PCS 7, the distributed control system used in industries such as chemicals, pharmaceuticals, and oil & gas. It explains and checks existing control logic and builds new control modules from engineering data. Based on initial estimates for selected engineering use cases, Siemens sees time-saving potential of around 20 percent to 60 percent for specific tasks. Actual savings depend on factors such as project complexity, engineering scope, existing SIMATIC PCS 7 expertise and the degree of standardization. Engineers review and approve all results. Siemens presents the new engineering agent at the SPS 2026 trade fair in Nuremberg. It is available for plants running SIMATIC PCS 7 starting at version 10.

Eigen Engineering Agent first launched in April 2026, supporting factory automation projects built with the TIA Portal software. Eigen's global paid license base more than tripled between July and October 2026, and customers of all sizes now use the technology in more than 30 countries.

"Many process plants have been operating and evolving for decades. Much of the underpinning engineering knowledge is embedded in the projects themselves and with the experienced engineers who built and maintained them," said Rebecca

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Vangenechten, senior vice president Supervisory & Control Systems at Siemens. “Eigen makes this knowledge accessible to every engineer on the team, helping PCS 7 users to extend and adapt their plants faster, preserve critical know-how, and retain full control over their intellectual property.”

Engineering a process plant starts with extensive lists: spreadsheets describing thousands of sensors, valves, and pumps, each with its own settings and alarm limits. Automation engineers currently transfer this data into the plant’s control system largely by hand and then check the result against the project’s specifications and standards. This manual configuration can take weeks or months. When modifying an existing plant, engineers first need to understand its control logic. If documentation is incomplete, tracing how a single interlock works can take hours of manual review.

At launch, Eigen supports two time-intensive PCS 7 engineering activities: understanding and developing plant control logic and creating control modules from engineering lists. For CFC engineering, Eigen helps engineers work with Continuous Function Charts, the diagrams that hold a plant’s control logic. Engineers can ask plain-language questions about an existing project, such as which signals connect to a pump or how a temperature signal reaches the shutdown logic, and receive explanations grounded in the project’s configuration. Eigen also helps engineers navigate large project structures, identifies configuration errors such as missing connections or inconsistent settings, and supports the creation of new charts.

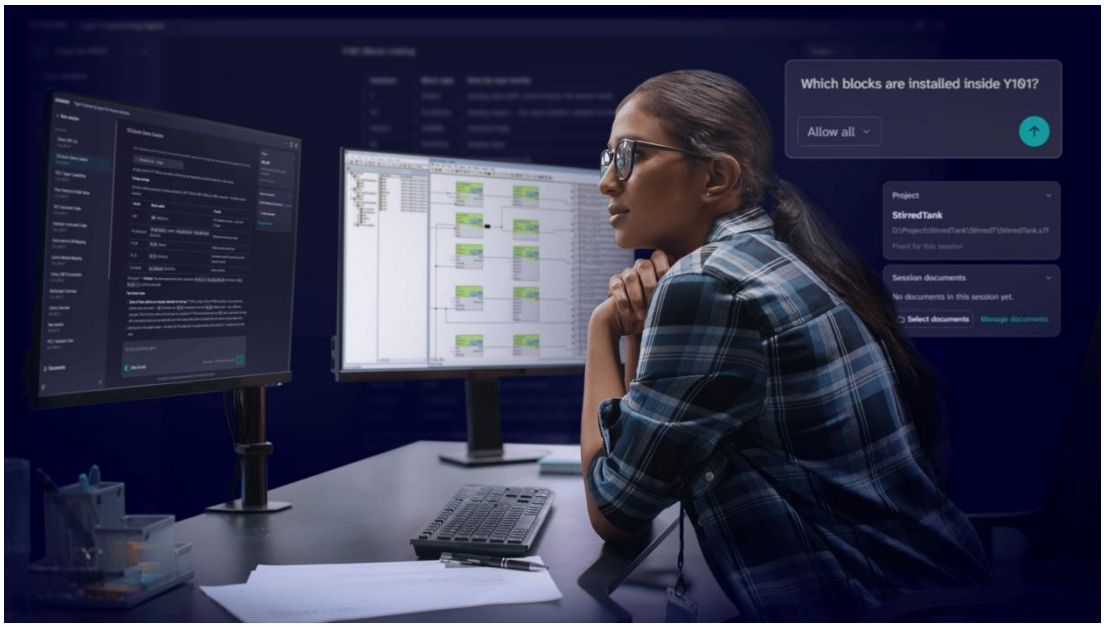
For control module creation, the second capability, Eigen turns engineering lists into control modules using templates in the project library, known as Control Module Types (CMTs). For each sensor, valve, or pump, it selects a template, creates a CFC from it, names it to match the plant’s tag structure, and fills in parameters such as alarm limits and measurement units. Before engineers apply any changes, the agent checks the result against the engineering data and customer standards, verifies signal addresses, and flags missing connections with recommendations for fixing them. This reduces repetitive data entry and the risk of configuration errors. When engineers upload updated lists, Eigen proposes changes only where the data differs.

Chemical company BASF is among the first users to test the agent. “Siemens’ latest milestone represents another important step towards unlocking the potential of AI for the process industry. Industrial AI solutions will be a key enabler of future competitiveness, transforming the way we engineer, operate and maintain our plants. Our ambition is to operate production systems that are leaner, easier to maintain and more agile, allowing us to adapt faster to changing technologies, processes and market needs,” said Dr. Tobias Gerber, Vice President Technical Expertise Europe at BASF SE.

“We see the biggest opportunity for AI agents in the handovers between teams and disciplines,” said Vasi Philomin, Executive Vice President, Data and AI at Siemens. “Eigen Engineering Agent already helps engineers automate machines. Now we’re bringing this new class of AI to process industries such as chemicals and pharmaceuticals. Engineers direct the work, and Eigen translates plant designs into configured, validated automation projects. We’ll keep evolving Eigen at the pace of AI to compress the time from design to production.”

Eigen works in the PCS 7 engineering environment, separate from the running plant. Engineers review proposed changes and decide what moves to production through established testing and approval procedures. Customers retain ownership of their data.

Eigen Engineering Agent for Process Industries is offered as a separate subscription alongside customers’ existing SIMATIC PCS 7 licenses, allowing them to add AI capabilities to their current engineering environment. Siemens continues to help PCS 7 customers protect their investment and prepare for SIMATIC PCS neo, its next-generation distributed control system.



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This press release is available at https://sie.ag/6HTHJU
For further information on the Eigen Engineering Agent for Process Industries, please see www.siemens.com/eigen-engineering-agent-process-industries.

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Siemens is the technology company leading Industrial AI. By combining the real and digital worlds, Siemens enables customers across industries, from manufacturing to infrastructure and transportation, to scale AI safely, reliably and with real impact. With deep domain know-how, industrial data and a full technology stack spanning electrification, automation, digitalization and AI, Siemens redefines how real-world systems are designed, built and operated. This helps customers become more competitive, resilient and sustainable.

In fiscal 2026, Siemens generated revenue of €83.4 billion and net income of €9.5 billion, with around 319,000 people employed worldwide as of September 30, 2026. Siemens also holds a majority stake in the publicly listed medical technology company Siemens Healthineers. More information: www.siemens.com.