SIEMENS Operations Copilot Instructions

August 27, 2025

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Operations Copilot

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Product Information:

Specifications:

- Product Name: Operations Copilot with AI agents
- Manufacturer: Siemens AG
- Capabilities: Enhanced with agents for AMRs and AGVs, Safe Velocity software for speed monitoring

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Product Usage Instructions:

1. Setting Up the Operations Copilot:

Follow the manufacturer’s guidelines to install and configure the Operations Copilot system in your facility.

2. Integrating AI Agents:

Ensure that the AI agents for AMRs and AGVs are properly integrated with the Operations Copilot system for seamless interactions.

3. Safe Velocity Software Configuration:

Configure the Safe Velocity software to enable fail-safe speed monitoring of autonomous vehicles on the shop floor.

4. Monitoring and Supervision:

Utilize the virtual Safe Velocity agent to supervise autonomous vehicles and analyze data from safety laser scanners efficiently.

5. Interactions Between AI Agents:

Enable cooperation between different AI agents designed for AGV

and AMR applications to enhance operational efficiency.

FAQ:

Q: Where can I find more information about Siemens at automatica 2025?

A: For further details on Siemens at automatica 2025, visit www.siemens.com/automatica.

Q: How can I contact journalists for press-related inquiries?

A: You can reach out to Hannah Arnal at Phone: +49 152 22572736 or E-mail: hannah.arnal@siemens.com, and Laura Egger at Phone: +49 152 58963051 or E-mail: laura.egger@siemens.com.

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Press

Nuremberg, June 23, 2025

automatica 2025 | Hall B6, Booth 303

Siemens advances autonomous production with new AI and robotics capabilities for automated guided vehicles

· Operations Copilot to interact with physical AI agents · Vision: Multi-agent systems with physical and virtual AI agents for

autonomous transport systems and mobile robots · New software-based safety solution Safe Velocity

At automatica, the leading trade show for automation and robotics, Siemens is announcing plans to integrate its Operations Copilot into driverless transport systems and mobile robots. The Operations Copilot is an industrial copilot for machine operation

and maintenance. As mobile transport robots increasingly operate as autonomous physical agents powered by artificial intelligence (AI), the Operations Copilot will serve as a user interface for humans. Through this agent-based interface, users will be able to configure autonomous mobile robots (AMRs) and automated guided vehicles (AGVs), assigning them tasks like transporting materials and goods across the shop floor. This is yet another building block for automating automation in a factory with the help of generative AI.

Siemens AG Communications Head: Christiane Ribeiro
Reference number: HQDIPR202506187188EN

Werner-von-Siemens-Straße 1 80333 Munich Germany

Press Release

Expansion of the Operations Copilot with AI agents for autonomous transport systems (Source: Siemens)

Operations Copilot will be enhanced with agents for AMRs and AGVs
In a next step, Siemens plans to expand the capabilities of the Operations Copilot by introducing AI agents specifically developed for use with AMRs and AGVs. These agents support both the commissioning and operation of individual vehicles and entire fleets. Commissioning in particular is a complex and time-intensive process: AGVs need to be integrated into the factory’s existing IT and OT infrastructure and configured for specific conditions like routes and transfer stations. To streamline this task, engineers can rely on the Operations Copilot: It leverages AGV sensors and cameras to generate a detailed understanding of their environment. The Operations Copilot can access all relevant technical documentation of the installed components and retrieve real-time system data through its agent interface. This enables commissioning engineers and operators to work more efficiently, resolve issues faster, and ensure rapid deployment.

“By integrating both physical and virtual AI agents into our Operations Copilot, we’re unlocking a new dimension of interaction between humans, robotics, and AI,” said Rainer Brehm, CEO of Factory Automation at Siemens. “This enables our customers to deploy autonomous transport systems more quickly, operate them efficiently, and enhance safety bringing us one step closer to a fully autonomous factory.”

New Safe Velocity software enhances safety on the shop floor
AGVs are equipped with navigation and sensor technologies, that allow them to move safely and reliably through production and intralogistics environments with no direct human intervention. When people or objects appear in their path, AGVs automatically slow down, stop, or navigate around these obstacles. Siemens’ new software solution, Safe Velocity, enables the fail-safe monitoring of vehicle speed, which permits the protective fields of safety laser scanners to be dynamically adjusted in real time. The TÜV-certified software is compatible with the hardware and software from a variety of AGV manufacturers and enhances existing safety systems to meet stringent industrial safety standards. Safe Velocity reduces the need for additional safety hardware. This simplifies system architecture, saves valuable vehicle space, lowers engineering complexity, and minimizes cabling requirements without compromising functional safety.

Safe Velocity software enables fail-safe speed monitoring of autonomous vehicles (Source: Siemens)

In the future, the Operations Copilot will interact with AI agents such as Safe Velocity to analyze targeted data from safety laser scanners and monitor the speed of AGVs. The virtual Safe Velocity agent supervises autonomous vehicles and can cooperate with other agents designed for AGV and AMR applications. This way, Siemens is building a

multi-agent system where the Operations Copilot orchestrates both physical and virtual AI agents, enabling seamless interactions and deeper integration between the real and the digital worlds.
Siemens will showcase how AI and robotics are already transforming automation and offer a glimpse into future developments at automatica in Munich from June 24 to 27, 2025.
This press release and press images are available at https://sie.ag/6YZE7K

Further information on Siemens at automatica 2025 at www.siemens.com/automatica

Contacts for journalists Hannah Arnal Phone: +49 152 22572736; E-mail: hannah.arnal@siemens.com Laura Egger Phone: +49 152 58963051; E-mail: laura.egger@siemens.com

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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.
Reference number: HQDIPR202506187188EN

Documents / Resources

	SIEMENS Operations Copilot [pdf] Instructions Operations Copilot, Operations

References

- User Manual

SIEMENS Operations, Operations Copilot, SIEMENS

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