

SIEMENS

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Visit us at **AUTOMATE** 2026, booth 1214

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The future of industrial AI isn't adding more intelligence.

It's orchestrating intelligence—so systems work together, safely
and predictably, in real production.



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Automate with Purpose: See Orchestrated Intelligence in Action.

From intelligent systems → to orchestrated operations
At Automate, Siemens is not showing individual demos.
We are showing how intelligence behaves in production
when it is orchestrated.

Every station represents a form of intelligence:

- Engineering intelligence
- Motion intelligence
- Robotic intelligence
- Quality intelligence
- Asset intelligence

The orchestration story is about what happens
when all of them are present at the same time.

Station 1 — Engineering Copilot Orchestration starts with intent, not execution.

Eigen Engineering Agent

Ready to efficiently advance automation? Meet the skills
shortage and keep up with rapid developments in the market?

By leveraging generative AI, the Eigen Engineering Agent
assists with tasks such as code generation, HMI creation,
and hardware configuration in TIA Portal. With support
from the Eigen Engineering Agent, automation engineers
can maximize their productivity, reduce repetitive tasks,
and minimize manual errors.

Orchestration Layer:

Engineering intent becomes executable guardrails.
Changes flow from engineering tools into live opera-
tions—consistently and safely.

Station 2 — SIMATIC AX Unified Elements Keeping orchestration continuous across the digital thread

Software Defined Automation: SIMATIC AX Logic Control Engineering & Unified Elements

Fast, collaborative, and built for the IT-minded. Based on
Visual Studio Code, SIMATIC AX offers state-of-the-art IT
tools in a lean development environment for programming
and maintaining SIMATIC PLCs and HMIs. With Git inte-
gration, modular design, and remote connectivity op-
tions, SIMATIC AX solutions increase quality and enable
collaboration from anywhere.

Orchestration Layer:

Engineering intent becomes executable guardrails. Changes
flow from engineering tools into live operations consistently
and safely.

Station 3 — FESTO Gantry (S7 1200 G2) State, policy, and “allowed behavior” made tangible The gantry makes orchestration physical.

Smart Automation Handling Demo (Siemens / FESTO Gantry Demo)

The smart automation handling demo is a plug-and-play
machine designed to showcase Siemens’ latest advance-
ments in industrial automation and motion control technol-
ogy. It demonstrates the advanced use-cases of a modern
automation system such as efficient motion control, flexible
machine safety, increased operational performance and ef-
ficiency, and IT-OT integration. This 3-axis gantry (+ 1 linear
axis for gripper) pick-and-place motion application performs
two functions: 1) plays a game of tic-tac-toe showcasing the
system’s ability for pick and place applications; and 2) draws
symbols on a drawing pad to showcase the system’s capability
to handle complex interpolated motion paths.

Digital Thread:

Smart Manufacturing
Advanced Machine Engineering

Solution:

This demo is highlighting the SIMATIC S7-1200 G2 motion
and integrated safety capabilities among other capabili-
ties of our DI portfolio. The “pick and place” and “drawing”
operations are being controlled by the SIMATIC S7-1200
G2 controller meanwhile the control of the FESTO stepper
motors is handled by the micro-drive TM ServoDrive within
the ET 200SP rack.

The controller is also handling the safety of the machine
and hosting a user-defined web page and wireless NFC for
easy access to diagnostic features.

Meanwhile, the Unified Comfort Panel HMI showcases
functions like HTML5 web-based visualization, multi-touch
operations, dynamic scalable vector graphics (SVGs), and
some new features like Unified Air – i.e. contactless operator
login using Biometrics.

For IT-OT Integration, the demo uses our Industrial Edge
platform to securely connect to the PLC, collect data, and
contextualize & visualize the data. Connection is done
using the built-in S7+ Connector app. Collecting data
is done using the Industrial Information Hub (IIH) app.
Contextualization and the visualization of this data is per-
formed by the Performance Insights industrial edge app.

Use-case:

Efficient Motion Control, Motion Control for SME

Portfolio:

SIMATIC S7-1200 G2 Controller, SIMATIC Unified Comfort Panel MTP1200, SINAMICS S210 Servo Drives, SIMATIC ET200SP Distributed I/O including TM Microdrives, SIMATIC IPC 227G with Industrial Edge, SCALANCE X Networking, SITP PSU 6200 Power Supplies, SIMATIC IDENT RF1040R, SIRIUS ACT 3SU1 Pilot Devices, SIRIUS 3SE6 non-contact safety switches, Cybersecurity, Safety Integrated and more, Virtual Commissioning through Digital Twin.

Orchestration Layer:

Demonstrates policy- and state-aware behavior. Encoded human knowledge defines what is allowed, blocked, or deferred in real time.

Station 4 — SIMATIC Pick AI + Digital Twin Where AI proposes—and orchestration decides

SIMATIC Pick AI with Digital Twin, featuring FANUC Robots and Nvidia

Experience how Software & AI change how we approach automation providing more flexibility and adaptability for engineering and operations. Experience how SIMATIC Robot Pick AI enables randomized bin-to-bin picking automating the unknown with full virtual validation before deployment as well of future-proof global deployments.

Digital Thread:

Smart Manufacturing

Solution:

- SIMATIC Robot Pick AI Pro V1 deployed to SIMATIC BX59A
- Hardware accelerated with NVIDIA L4 GPU
- Pick Point calculation in under 0.3 second
- SIMATIC Robot Interpreter for Standard Robot Command Interface (SRCI) for PLC and Robot programs deployed

Use-case:

- Dynamic robot picking based on 3D image feed
- Grasping of unknown objects
- Optimal pick point calculation
- Classification and description of grasped objects with VLM support
- Prompt engineering
- Context based AI reasoning based on visual input
- System integration and testing for picking system
- PLC + Robot + Camera + AI integration
- Collision analysis and avoidance
- Preprogrammed robot paths for static locations
- HMI design and usability

Portfolio:

Robotics: SIMATIC Robot Pick AI Pro V1 (App), SIMATIC Robot Library, TIA: TIA Portal, SIMATIC Controllers, WinCC Unified, PLCSIM Advanced, Distributed IO / IO Link, SIMATIC IPC BX59A with Nvidia GPU, SIEMENS Process Simulate, Nvidia Omniverse

Orchestration Layer:

AI adapts robotic picking based on product changes. Quality feedback triggers parameter proposals—but orchestration governs when, how, and whether changes are executed.

Station 5 — Inspekto PORTEX From detection to decision—with governance

Inspekto Portex Demo

The Siemens PORTEX Machine demonstrates a software-defined, AI-enabled industrial solution that integrates Siemens technologies to improve efficiency, quality, and operational insight. It enables intelligent quality inspection, proactive maintenance, and seamless OT-IT data integration with cloud platforms for smarter decision-making. Overall, PORTEX delivers scalable, cost-efficient deployments, reduces downtime and data integration effort, and accelerates AI-driven industrial operations.

Digital Thread:

Smart Manufacturing

Solution:

Production Operations and Optimization - Discrete Manufacturing

Use-case:

IT/OT Integration to Boost Productivity and Sustainability
Production and Quality Optimization
Production Transparency for Discrete Industries

Portfolio:

Mendix on Edge, Industrial Edge, SIMATIC WinCC Unified, Industrial AI Suite, Inspekto, Information Connector (IIH BFC)

Orchestration Layer:

Vision AI detects defects and proposes root causes. Recommendations are validated against simulation and operational constraints before touching the control layer.

Station 6 — Senseye Multiple objectives, one coordinated outcome

Senseye Demo

Senseye Predictive Maintenance demonstrates an intelligent, AI-powered solution that transforms industrial maintenance from reactive to proactive. By integrating Siemens technologies with advanced machine learning, Senseye enables organizations to predict equipment failures before they occur, optimize maintenance schedules, and maximize asset performance across their operations.

Digital Thread:

Smart Manufacturing

Solution:

Predictive Maintenance - Manufacturing

Use-case:

Proactive Maintenance Intelligence: Senseye continuously monitors equipment health using AI algorithms that detect early warning signs of potential failures, enabling maintenance teams to intervene before costly breakdowns occur.
Reduced Downtime & Operational Costs: By predicting failures in advance, organizations minimize unplanned

downtime, extend asset lifespan, and shift from costly emergency repairs to planned, cost-efficient maintenance activities.

Seamless OT–IT Integration: The solution bridges operational technology and IT systems, connecting machine data with cloud platforms and enterprise systems to provide comprehensive visibility and actionable insights across the entire organization.

Scalable & Flexible Deployment: Senseye’s software-defined architecture allows for rapid, cost-effective deployment across diverse industrial environments, from single machines to enterprise-wide implementations.

Data-Driven Decision Making: Advanced analytics and intuitive dashboards transform raw sensor data into clear, prioritized maintenance recommendations, empowering teams to make smarter decisions and optimize resource allocation.

Portfolio:

Industrial Edge, Information Connector (IIH, BFC), Senseye

Orchestration Layer:

Predictive maintenance identifies asset life extensions. Orchestration balances maintenance insights against throughput, availability, and production priorities.

Station 7 — Industrial Edge
Where orchestration actually runs

SIMATIC Industrial Edge

SIMATIC Industrial Edge is the execution backbone that securely deploys, governs, and operates intelligent applications at the edge bridging the worlds of IT and OT into a unified, resilient operations platform.

Industrial Edge extends the intelligence and flexibility directly to production, enabling real-time decisions, software-defined control, and enterprise-grade manageability without sacrificing the determinism and reliability that industrial environments demand. It also turns the factory floor into a first-class application runtime. Containerized edge apps are distributed from a central management layer directly to devices on the shop floor with role-based access control, and network isolation ensuring that only trusted workloads reach the edge. The Industrial Edge Management system provides a single pane of glass across every connected device, enabling operators to enforce configuration baselines, monitor device health, audit app usage, and respond to anomalies in real time.

Our Industrial Edge wall at Automate highlights the following three use cases:

- Seamless IT/OT integration with robust Southbound/Northbound connectivity, efficient data processing, and advanced dashboard capabilities.
- Software Defined Automation offering flexibility, scalability, and intuitive monitoring and operation, enabled by virtual PLC and virtual HMI both running on Edge.

- Centralized app and device management for scalable deployment, supervised operations, and optimized orchestration.

Digital Thread:

Smart Manufacturing

Solution:

Smart Manufacturing with Industrial Edge Computing

Use-case:

Production transparency and optimization, IT/OT integration

Portfolio:

SIMATIC Industrial Edge

Orchestration Layer:

The execution backbone that securely deploys, governs, and operates intelligent applications at the edge—bridging IT and OT.

Closing the Story — Why This Matters
Every station shows intelligence.

But Siemens’ differentiation is how that intelligence behaves together.

Without orchestration:

- Systems optimize locally
- Risks emerge globally
- People absorb the complexity

With orchestration:

- AI proposes, but systems stay safe
- Innovation scales without fragility
- Humans define intent instead of firefighting conflicts

Final takeaway line (strong, repeatable):

“The future of industrial AI isn’t adding more intelligence. It’s orchestrating intelligence—so systems work together, safely and predictably, in real production.”