# SIEMENS

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Press

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# Integrating machine vision into factory automation: Basler and MVTec join Siemens open ecosystem

- New Industrial Edge partnerships enable easy integration of machine vision into Siemens automation technology
- Improves product quality control and addresses labor shortages
- Basler cameras combined with Siemens automation portfolio create a standardized infrastructure for visual inspection also for TIA
- MVTec app on Industrial Edge facilitates end-to-end anomaly detection

Two industry leaders in machine vision and industrial image processing are independently joining forces with Siemens. As a result of the new partnerships, customers will be able to integrate machine vision applications directly into their existing automation technology. By combining their respective strengths, portfolios, and experience, it will be possible to offer plug-and-play machine vision solutions – aligned portfolio of automation and machine vision components consisting of hardware and software.

Machine vision technology significantly improves quality control in production, making it less error prone, time consuming, and costly. Integrating cameras into automation currently is a cumbersome process, requiring a high level of specific expertise to match compatible components. It is expensive and is often implemented on standalone "islands" (e.g. dedicated industrial PCs). Combining Siemens' expertise in industrial automation and digitalization with the offerings of machine vision experts Basler and MVTec reduces complexity for customers, and lowers the barrier significantly, enabling

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customers to easily integrate machine vision solutions into their machines and systems.

"Together with our new partners in the open Siemens Xcelerator ecosystem, we're integrating machine vision into automation. This helps with many tasks, for example when it comes to difficult quality control or to reduce errors and thus defects in industrial production, or to react to the shortage of skilled workers. In doing so, we are taking an important step towards an adaptable, sustainable production and increasingly autonomous production processes," says Rainer Brehm, CEO Factory Automation at Siemens.

#### Standardizing visual inspection infrastructure with Basler

Basler AG is a leading full-line provider of advanced computer vision products such as cameras, lenses, and lighting. Siemens and Basler have agreed on an interface that makes it possible to use the Basler hardware portfolio throughout the Siemens automation portfolio and eliminates the typical challenges and errors that arise when connecting a camera to the automation system. The first product launch to address this is the "Basler Vision Connector" app. The app makes it easier to connect the Basler camera portfolio to Siemens Industrial Edge. The same interface used for the Edge app will also be used for a forthcoming S7-1500 technology module, which will allow Basler cameras to connect directly to the Simatic S7-1500 system on a broader scale, thus supporting conventional as well as AI-based machine vision applications. This newly defined standardized infrastructure for visual inspection offers an end-to-end solution for customers who already have an AI model but are not yet able to use it in an industrial environment. Dr. Dietmar Ley, CEO of Basler AG: "Our collaboration will enable us to offer customers pre-tested application scenarios and aligned product portfolio options to choose from, as well as to develop solutions that can help them significantly reduce their time-to-market."

#### End-to-end anomaly detection for visual inspection with MVTec

MVTec Software GmbH is a leading manufacturer of hardware-independent software for machine vision. The company is bringing the first application for surface inspection and optical quality control to Siemens Industrial Edge. The app called "Anomaly Detection for Visual Inspection" helps customers use AI to detect both structural and

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logical defects on objects and thus improve the quality of components. It is easy to learn, test, and use because it does not require programming or an in-depth knowledge of machine vision. By using the app, customers do not need third-party-stand-alone solutions. "By combining the Siemens Industrial Edge Ecosystem and MVTec's machine vision expertise, customers can easily leverage the power of AI-driven software apps for visual inspection," says Dr. Olaf Munkelt, Managing Director of MVTec.



Dr. Olaf Munkelt, MVTec (left), Rainer Brehm, Siemens (middle), and Dr. Dietmar Ley, Basler (right) announced the partnerships at SPS trade show in Nuremberg.



For more information on Industrial Edge please see: <u>https://www.siemens.com/industrial-edge</u>

For more information on the TM NPU please see: https://www.siemens.com/TM-NPU

For more information on Siemens at SPS 2023 please see: <u>https://press.siemens.com/global/de/feature/siemens-sps-nuernberg-2023</u>

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In fiscal 2022, which ended on September 30, 2022, the Siemens Group generated revenue of  $\in$ 72.0 billion and net income of  $\in$ 4.4 billion. As of September 30, 2022, the company employed around 311,000 people worldwide. Further information is available on the Internet at <u>www.siemens.com</u>.