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Hannover Messe 2023 | Hall 9 | Booth D53

First virtual Simatic controller enables more flexible, software-based automation

- **The Simatic S7-1500V is the first virtual controller from Siemens**
- **Expands the Simatic portfolio and is part of Industrial Operations X**
- **Ensures greater flexibility and scalability, and simplifies collaboration between IT and OT users**
- **Enables central management via Industrial Edge and is compatible with the Totally Integrated Automation (TIA) portfolio**

Siemens will be presenting a complete virtual programmable logic controller (PLC) for the first time at Hannover Messe 2023. The Simatic S7-1500V expands the existing Simatic portfolio and meets special market requirements such as virtual hosting of PLC computing. In the future, that means the range will include both hardware controllers and the virtual PLC. The new Simatic S7-1500V is part of Industrial Operations X. This is a continuously growing, interoperable portfolio geared towards production engineering, execution, and optimization which Siemens is adding to its portfolios on Siemens Xcelerator – the open, digital business platform. With Industrial Operations X, Siemens is consistently integrating IT and software capabilities into the world of automation, thus speeding up the transition from automated to highly adaptable production. After all, volatile markets, the labor shortage, and an increasing scarcity of resources all mean industrial firms have to structure their automated production more flexibly.

Benefits of the virtual PLC for users

And that's exactly what the new, virtual controller offers, since users can now also use proven functions of the S7-1500 hardware controller in the digital world. The virtual PLC is hardware-independent – in other words, no specific hardware is needed.

Industrial Edge Management makes it possible to manage the virtual controller and

other applications at a central level and adapt them flexibly to customer needs. Individual services can be booked and used in addition, so costs can be optimized. This kind of data-centered and software-based automation enables customers to respond more flexibly. “If the service specialists are not in the factory at a given moment, they will be sent a diagnostic message to say the controller has stopped, for example,” says Efrossini Tsouchnika, Vice President Control at Siemens. “The Industrial Edge Management System gives them the ability to access the virtual controller remotely. That means they can get the plant running again with no obstacles to action.”

Thanks to the virtual controller, PLC projects are easier to scale, and open data interfaces mean they can be readily integrated into other IT offerings. The Simatic S7-1500V is fully compatible with the TIA portfolio. Customers can thus re-use projects and data already in the TIA Portal and reduce their level of investment.

Increasing convergence of IT and OT

Using the Simatic S7-1500V, Operational Technology (OT)-oriented users can continue to use their trusted structures while benefiting from the advantages of an IT-oriented environment. But users accustomed to IT can also work in a familiar environment using the digital controller. That simplifies the collaboration between automation engineers from the world of OT and software users in the IT field, and further advances the fusion of these two environments.



The first virtual controller from Siemens is based on the functions of an S7-1500 hardware PLC and is made available via Industrial Edge.

This press release can be found at:

<https://sie.ag/3Uz7VoW>

For further information on the Simatic S7-1500V virtual controller:

www.siemens.com/virtual-plc

Further information about Siemens at Hannover Messe 2023 can be found at:

www.siemens.com/presse/hm23 and www.siemens.com/hannover-messe

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Siemens AG (Berlin and Munich) is a 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 addition, Siemens holds a minority stake in Siemens Energy, a global leader in the transmission and generation of electrical power.

In fiscal 2022, which ended on September 30, 2022, the Siemens Group generated revenue of €72.0 billion and net income of €4.4 billion. As of September 30, 2022, the company had around 311,000 employees worldwide. Further information is available on the Internet at www.siemens.com.