

Hannover Messe 2019, Hall 9, Booth D35

Simit V10.1 – More openness for even more integrated simulation

- **Re-use of domain-specific simulation models**
- **Standardized interfaces for more system openness**
- **Real-time simulation of systems and machinery**

Siemens has extended its Simit simulation platform for virtual commissioning and operator training to include numerous new functions. The additions in Version 10.1 improve the simulation of automation applications through the re-use of various domain-specific simulation models over the entire lifecycle of manufacturing and process systems. Improved performance, openness and flexibility make the solution even easier to use, supporting the user in the creation of a comprehensive and integrated simulation.

Not only can automation applications be checked in detail through virtual commissioning with Simit; at the same time Simit can provide the system operator or production manager with a realistic training environment even before actual commissioning takes place. Various operations can be simulated dynamically, and can also be stored for subsequent analysis.

Due to the use of standardized interfaces, the system openness provided by Simit ensures that information can be exchanged or integrated even more easily, comprehensively and effectively. Data exchange is standardized on the basis of the OPC Unified Architecture (OPC UA) communication protocol. In addition, a dedicated interface enables the integration of the Advanced Process Modelling Platform gPROMS developed by Process Systems Enterprise (PSE). As a result of this increased openness, in Version 10.1 models from other simulation tools can also be integrated in the form of Functional Mock-up Units (FMUs), via the

Functional Mock-up Interface (FMI). The specific optimization of the technical process, including during system operation, is supported by the integration of the gPROMS platform from PSE with Simatic PCS 7. The range of operational uses for the models includes monitoring, soft-sensing, predictive controller and optimization applications.

For a fast-reacting simulation, Simit Version 10.1 offers the option of distributing simulations over various powerful processors. This means that complete machines can be validated virtually in real time, with mechatronic models and behavioral models for actuators and sensors being simulated as well as PLC applications being synchronized, emulated and finally tested. The Simit Unit now also supports the failsafe function for i-Devices on Profinet for time-critical and safety-related areas. The realistic simulation ensures commissioning can be carried out more quickly and with fewer risks.

Version 10.1 of the Simit simulation software supports both the established Simatic PCS 7 process control system and the new web-based Simatic PCS neo control system from Siemens. The latest functions of the Simatic ET200SP HA automation peripherals and the Simatic Compact Field Unit (CFU) can also be simulated. With Simit Version V10.1, Siemens also offers a new licensing concept for the cost-effective emulation of the Simatic S7-300 controller.



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This press release and a press picture are available at

www.siemens.com/press/PR2019040193DIEN

For further information on Simit, please see www.siemens.com/simit

For further information on PSE, please see www.siemens.com/pse

For further information on virtual commissioning, please see

www.siemens.com/virtual-commissioning

For further information on Siemens at the Hannover Messe 2019, please see

www.siemens.com/press/hm19 and www.siemens.com/hannovermesse

Contacts for journalists:

Evelyne Kadel

Phone: +49 211 6916-1003; E-mail: evelyne.kadel@siemens.comFollow us on **social media:****Twitter:** [www.twitter.com/MediaServiceInd](https://twitter.com/MediaServiceInd) and [www.twitter.com/siemens_press](https://twitter.com/siemens_press)**Blog:** <https://blogs.siemens.com/mediaservice-industries-en>

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