



**SIEMENS**

*Ingenuity for life*

# SIMIT Simulation Platform

Transform every home office workstation into a virtual facility!

The current situation poses major challenges for companies: Many workplaces have had to be moved to the home office, teamwork is only possible without obligatory presence. In addition to computers and fast Internet connections, the most important technical cornerstones for a successful transition are an appropriate IT infrastructure on company's side and software solutions for efficient virtual collaboration. Thus, the virtualization of team meetings, project meetings, customer visits or trade fairs has become part of our everyday work - the new normal - in a very short time. Nonetheless, how can automation systems be successfully designed or systems optimized from the home office?

Ideally, the automation or production engineer has a virtual plant, a digital twin, available for this purpose. Engineering and testing work can be carried out comprehensively and safely on this virtual image. Wouldn't it be extremely helpful to be able to test automation

software, sequential controls and process optimizations from the home office?

Sounds like a dream? Not at all - it is already available today! Siemens has established a reliable software system based on decades of experience with the virtualization of machines and plants: SIMIT provides the manufacturing and process industries with a platform for generating simulation models of machines and plants. The virtual image of real systems that is created this way lays the foundation for their digital twin.

With the help of simulations, automation projects can be comprehensively tested and process changes validated - even without real hardware! SIMIT simulates the signal and device level and emulates virtual controllers. A simulation of the process level is also possible with SIMIT. The flexible, scalable and open simulation configuration enables automation engineers to optimize and verify control strategies, sequential controls and safety functions. With SIMIT, systems, machines and processes can be virtually commissioned and optimized - without direct access to the real plant. By the simple adoption of existing planning and engineering data as well as further simulation models, already existing knowledge can be used efficiently for the design of simulation environments.

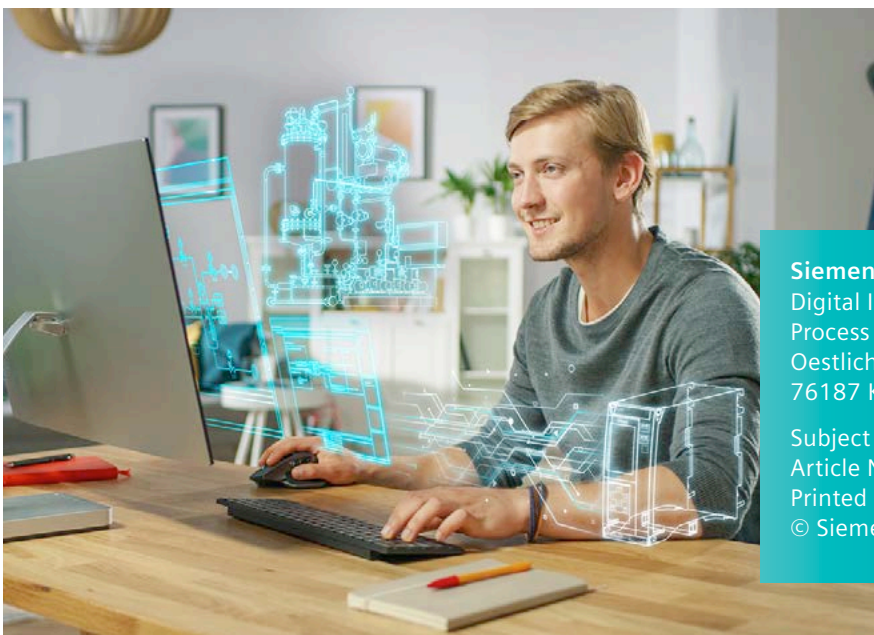
Planners, project engineers, plant or automation engineers who can access their company network via secure web access can also be authorized to access the SIMIT infrastructure. Consequently, the creation and extensive testing of automation programs, early error detection and elimination as well as the complete virtual commissioning is possible without restrictions from the home office!

#### **SIMIT: Your advantages at a glance:**

- Virtual simulation of plant and machine behavior using a digital twin
- Simulation improves the quality of engineering and automation by early identification of possible errors
- Use existing data to create the simulation

#### **SIMIT in Home office:**

- Can be operated locally on company computers
- Simple and easy installation
- Secure connection to installed SIMIT infrastructures in companies possible
- More engineering efficiency and greater planning reliability also without on-site work
- Virtual commissioning with SIMIT ensures that projects are completed on time - even without access to real plants and machines



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