Getting products onto the market faster and with consistent high quality requires an optimized engineering workflow as well as the shortest possible startup and commissioning times.

The SIMIT simulation software executes the real-time simulation for comprehensive validation and verification of automation solutions, completely decoupled from the automation program itself.

The new SIMIT 9 generation of software relies on a uniform simulation platform. Users can execute virtual commissioning of the automation program, machines and processes. Additionally, it can be leveraged for realistic training environments for plant operators. Without extensive knowledge of process modeling or physical equipment available, you can easily use the SIMIT platform.

SIMIT 9 offers a clear and user-friendly interface for intuitive operation and fast learning. Allowing automation projects to be implemented and completed earlier, with more efficiency and reliability.

Leveraging simulation for system validation and operator training

SIMIT 9 advantages at a glance
- Faster commissioning with fewer risks
- Intuitive, user-friendly and easy setup of simulation
- Higher plant availability, safety and optimized production
- Maximum decision-making reliability due to improved quality of engineering and automation
- Train plant operators before the plant is actually
SIMIT 9 – The unique simulation and emulation environment for your SIMATIC projects

- Simple and flexible virtual commissioning for improved engineering efficiency and greater reliability
  The growing pressures of plant schedules and profit margins demand shorter commissioning times and smoother startups. One frequent challenge is inconsistent data and work procedures.
  With SIMIT 9, testing and optimization are performed in a completely virtual environment – with a fully integrated Virtual Controller. All relevant automation functions can be tested reliably and efficiently before actual commissioning. Where all developmental and functional weaknesses are detected and corrected prior to the actual commissioning. Thus the plant can be started up on-time, or even ahead of schedule.

- Safe and efficient training of plant personnel in a virtual environment
  With the aid of training systems, the use of resources is significantly reduced while any impairment, risk to personnel or ongoing operation is minimized.
  With Operator Training, SIMIT 9 offers an effective way of meeting the growing challenges in the market and offsetting the lack of experienced personnel resources. With the support of SIMIT, realistic training environments for plant operators can be implemented with lower cost in time and effort than ever before.
  The plant operators work with the original operating displays and automation programs, the only difference being that the plant being operated is virtual instead of real. This ensures a low-risk and efficient operation of the plant. Simulate plant startups, shutdowns, transitions, and abnormal interruptions to expedite operator awareness to ensure low-risk and efficient operation of the plant.

SIMIT 9 – user-friendly, flexible, open:

- User-friendly offering fast configuration
  – Complete integration of the Virtual Controller into the SIMIT user interface
  – High degree of reusability of the information from the engineering system

- Maximum flexibility
  – Reuse of existing snapshots, even after complete reloading of the Virtual Controller
  – COMOS-SIMIT interface for automatic modelling of project data
  – Expanded library of standard components and new components
  – Extended import functionalities

- System openness
  – Support for Windows 10 and Windows Server 2012 R2
  – Export of template information
  – Interface for external couplings developed by SIMIT partners
  – Remote License Server for Virtual Controller commissioned.