
HEITEC AG Press Information
Nuremberg, November 26, 2019

SPS 2019, Hall 6, Booth 330

Efficient engineering and rapid commissioning with HeiVM

Many production facilities have to be adapted to current market situations or cycles of innovation, in shorter and shorter timeframes. To make this possible without significantly impacting on plant availability, Erlangen-based automation specialist Heitec has developed digitalized models that designers, engineers, commissioning teams, and plant operators can utilize at any time.

With HeiVM (Heitec Virtual Machine), Heitec has developed a solution that draws on extensive libraries comprising almost 4,000 different virtual components, from robots and conveyor belts to automation systems, sensors, and actuators. The core competence of HeiVM, with its real-time capability, lies in the project and solution-based implementation of specific customer technologies. This enables all the relevant virtual commissioning products to be connected, like Siemens Mechatronic Concept Designer, ISG Virtuos, and Machineering Industrial Physics, in addition to all the standard robot controller emulations using the appropriate communication modules. By emulating the interface and plant in real time, the controller perceives no difference between the virtual and the real model, and automators can test and improve their programs in the familiar controller environment.

Commission machines virtually using HeiVM

For retrofitting and upgrading projects, Heitec has developed a model that can adjust all the necessary parameters and configurations of the virtual plant throughout the entire simulation process. This means the digital twin can be precisely adapted to reality and its operation can be kept highly dynamic. Plant operators can access the process via an intuitively operated, web-based HMI panel at a local or decentralized level, without having to terminate and re-start the simulation. In this way, HeiVM can be used to create a migration plan that

covers all production conditions, and reflects both the current situation and the desired target situation.

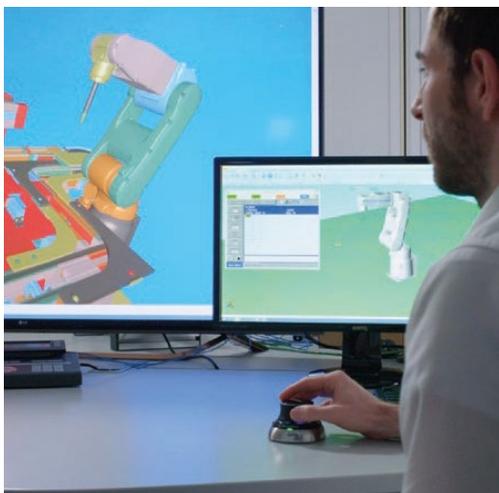
HeiVM solution for virtual prototyping

For performance upgrades, OEMs can use the virtual model of the plant, even before the actual start of production, to create appropriate automation and material flow models and test their functionality and performance over time down to the millisecond, and also optimize process workflows. This also gives OEMs the opportunity to work alongside the customer to pre-accept the plant using the virtual model, and incorporate desired changes and improvements into the programming and operation of the plant. That means changes to the electronics or mechanical systems can be integrated until just before the SOP (Start of Production), if necessary, without significant additional cost or effort. This can represent a huge cost saving during the actual commissioning process.

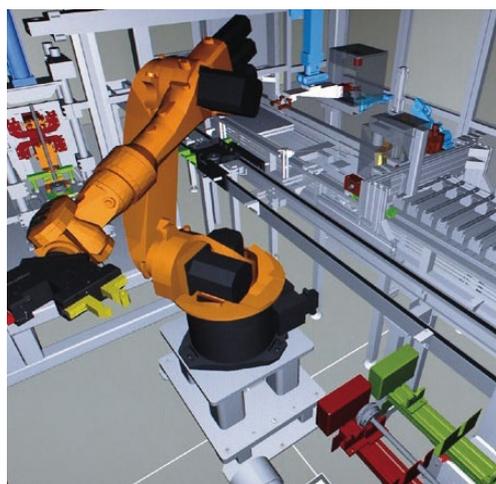
These solutions can be viewed at SPS 2019, from November 26 to 28, in Hall 6, Booth 330.

Caption:

A faster track to networked production with Heitec 4.0 (Source: Heitec)



Virtual commissioning improves quality and saves time (Source: Heitec)



HEITEC AG company profile

HEITEC stands for industrial expertise in automation, digitalization and electronics and offers solutions, products and services. With high-tech, reliable and economical system solutions, HEITEC helps its more than 2,000 customers increase their productivity and optimize their products. More than 1,000 employees in many locations in Germany and abroad guarantee customer proximity and industry expertise. More than 60 percent of the employees are college graduates or have a technical background. HEITEC has reported growth rates far above 10 percent in recent years, doubling its revenue in five years.

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