

**USING MODERN 3D MODELLING THROUGHOUT THE LIFECYCLE OF AUTOMATION
SYSTEMS WITH EXPERIOR**

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ABSTRACT

In the manufacturing and logistics industries, the use of 3D models of automation systems is becoming increasingly relevant. Traditionally, these industries only used simple simulations to support concept modelling in the early design phase as well as classic simulation in the decision-making process, but modern technology has given rise to the development of 3D modeling in new and exciting directions. Important game changers are virtual commissioning technologies and versatile 3D modelling software platforms that allows for custom 3D modelling tools and integration with company workflow. These technologies paves the way for control software testing prior to commissioning, realistic operator training, safe modifications and optimization during operation as well as handy retrofitting and refurbishment. This presentation presents the new modelling approaches and tools applied to support each stage of an automations system's lifecycle, and the System Lifecycle Management approach to integrate company workflow with 3D modelling.