

**DISCRETE-EVENT SIMULATION MODELING – AND BEYOND –
WITH SAS SIMULATION STUDIO**

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ABSTRACT

Discrete-event simulation is important in its own right and is inevitably intertwined with many other forms of analytics. Source data often must be processed before being used in a simulation model. Collection of simulated data needs to coordinate with and support the evaluation of performance metrics. Or you might need to integrate other analytics into a simulation model to capture specific complexities in a modeled system. SAS[®] Simulation Studio provides an interactive, graphical environment for building, running, and analyzing discrete-event simulation models, and is deeply integrated with other SAS[®] analytics. We illustrate how SAS Simulation Studio helps you work with simulation models and address related challenges. You have full control over the use of input data and the creation of simulated data. With strong experimental design capabilities, you can simulate for all needed scenarios. Additionally, you can embed any SAS analytic program directly into the execution of your simulation model.