

## **COMPREHENSIVE MANAGEMENT OF SIMULATION RUNS WITH ANSA, META AND SPDRM**

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### ABSTRACT –

The complete planning of CAE simulation activities is based on the list of analyses that need to be conducted on various configurations of the model at each project milestone. In all cases, the objective of the simulations is the assessment and improvement of performance attributes of the model at hand. This is achieved through the evaluation of hundreds or even thousands of simulation runs per attribute, thus, any advancement in the efficiency of this process has an immediate and considerable impact to the performance of the complete CAE team.

The management of simulation runs has been put under the microscope by several OEMs and software vendors, leading to substantial reduction of the CAE turnaround time by standardizing, systematizing and automating pre- and post-processing tasks. But is there more that can be done in this area?

This contribution explores the benefits and the value added to the management of simulation runs with the introduction of simulation data and process management in a simulation environment consisting of ANSA, META and SPDRM. This environment facilitates the planning of CAE tasks, enables their delegation to different users and teams, manages job submission and monitoring, automates the post-processing of run results and provides an interactive dashboard with summarized and comparative result information. The seamless integration of all simulation actors under a common data and process management environment is now possible and brings forth tremendous gains for the CAE teams.