SPDRM IMPLEMENTATION IN A EUROPEAN AUTOMOTIVE OEM

[1]Irene Makropoulou[*], [2]Niclas Dagson, [1]Menelaos Pappas
[1]BETA CAE Systems, Greece,
[2]ALTEN AB, Sweden

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ABSTRACT –
Contemporary CAE environments include a multitude of software tools that are used within the context of numerous processes. These processes, carried-out by several engineers, generate a great number of data in a daily basis. Within such an environment, a European OEM conducted a study on the lead time of the CAE-process at the time. The study concluded that the CAE-process was, at a large extent, based on manual, repetitive operations, and the level of transparency and traceability made the task of finding the right set of data difficult and time consuming.

In this context, BETA CAE System's SPDRM (Simulation Process Data and Resources Manager) was selected as a process and data management system for CAE. Process-wise, SPDRM had to establish a basic infrastructure for the CAE-process with integrated process chains from geometry to reporting, offering an interface to the OEM's PLM-system and flexible integration of various CAE-applications used in the CAE-process. From the data-perspective, SPDRM had to store data in a structured, efficient and quick-accessible way.

This paper describes this first implementation of SPDRM for process and data management for Crash, NVH and Durability, starting from the requirements, going through the implementation steps and concluding with the description of the deliverables: A unified platform for the management of data and processes with more automated tasks, where reusability of partial models across the simulation disciplines is natural.