

PROCESS AUTOMATION TOOLS FOR ACCELERATING CAE PROCESSES IN ANSA ENVIRONMENT

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ABSTRACT –

CAE is a key technology component in the product development process for automotive, consumer goods, aerospace and other manufacturing industries. In full vehicle CAE, Process Automation has the potential to reduce modeling and assembly time between 50% - 70% for metal and plastic components respectively. The technical approach includes feature recognition, element quality and mesh flow optimization etc. Benefits of this approach apply to Rocker, Closures, BiW, Door Trims, IP Assembly, Battery Tray, HVAC, Bumpers. In addition, Process Automation can be applied to the acceleration of CAE simulation for such sub-systems as Seats. Illustrative examples will be presented.