

PROCESS AUTOMATION FRO MODULAR CFD MODELING

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KEYWORDS –

CFD-meshing, pre-processing, data management, ANSA

ABSTRACT –

CFD model sizes tend to increase at a fast pace, making the whole process of model build up and update a very challenging task. Technical difficulties imposed by the need to handle large data files of several gigabytes with the corresponding time penalties, as well as the delay in all operations applied on them, in combination with the ever increasing need to create and update more and more variants during the different design phases, make the whole process slow and error prone.

ANSA Data Management functionality, which has been proven for years in industrial-scale automotive development processes, now extends its functionality to address the special requirements of CFD models (watertight models) and offers a very attractive solution that allows the fast assembly of large models from sub modules. Several needs for quick model update, multiple configurations handling and different ride height setup are met with this powerful ANSA functionality.