

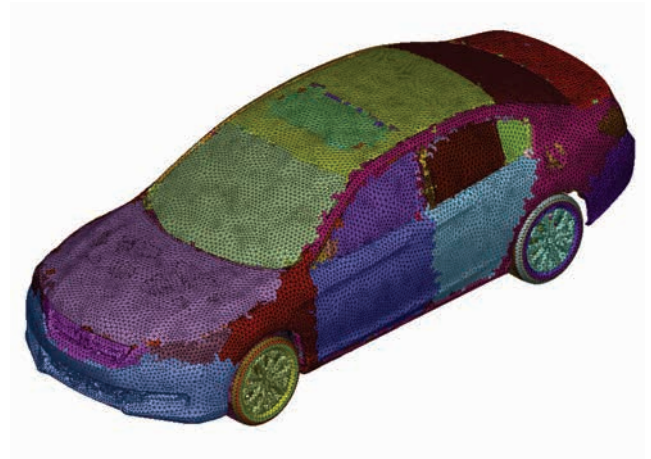
Honda R&D Co., Ltd. Automobile R&D Center: Exterior Acoustics full vehicle model generation

Challenge

- The generation of a full vehicle model for Exterior Acoustics, including tires and bumper faces.
- This process must be reliable and consistent, so that it can be applicable to both a trimmed body model, and a full vehicle model in the pre-processing phase.
- The quality of the final model should be reflected and certified during all steps of the process.

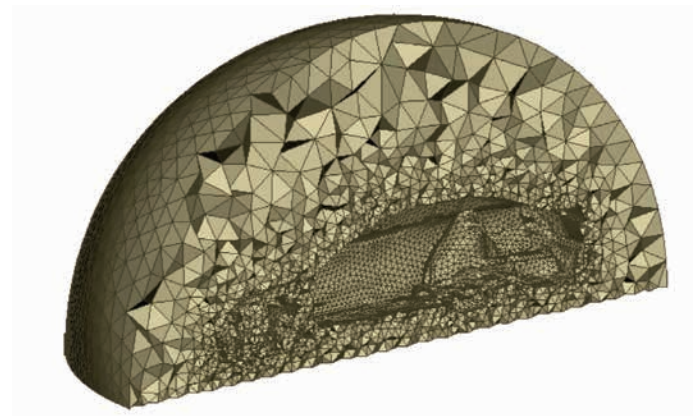
Approach

- A model preparation, consisting of making groups for wrap, ribs and unnecessary parts removal, holes and gap fill, and leak check is essential.
- The main model procedure consists of wrap, coarsen, intersections fix and solids creation.



Results

- Time reduction by 85%
- Increase of process automation and product reliability:
- Integration of the same process in more projects.



“The proposed procedure was very effective to reduce model creating time. Thank you so much for your co-operation!”

*Yasuhiko Kagiya, Assistant Chief Engineer,
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