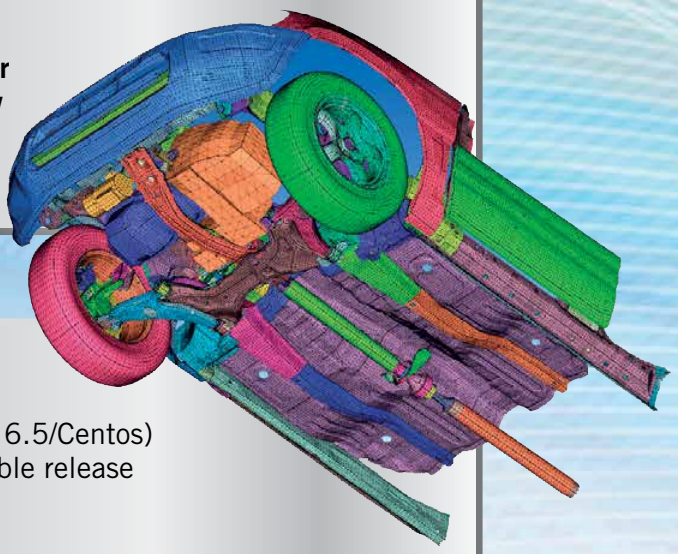
CUSTOMIZABLE 3D SOFTWARE PLATFORM FOR 3D DATA VISUALIZATION

OBJECT

Open environment for your custom-tailored know-how through 3D data

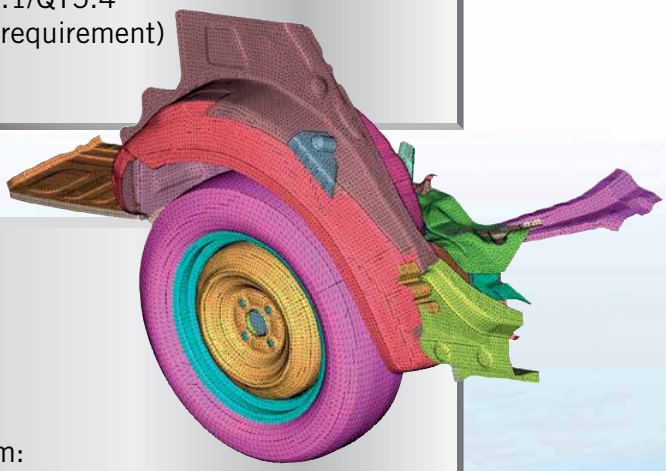


SUPPORTED PLATFORMS

- Windows 7 64 bit
- Linux 64 bit (Red Hat 6.5/Centos)
- available also as portable release

CORE PRODUCT

- Core Database: based on SQLite 3.8
- Graphics Library: VTK 6.1/QT5.4
- OpenGL 3.3 (minimum requirement)



SUPPORTED CAE FORMATS

Import 3D **Mesh** from:

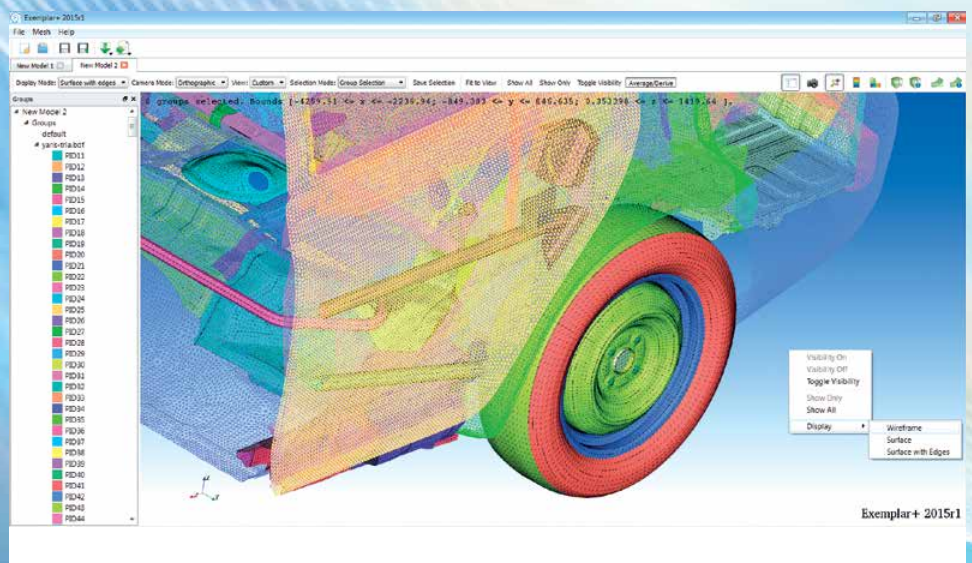
- *Nastran* **bdf**
- *Nastran* **op2**
- *Abaqus* **fil** and **odb**
- *Ansys* **rst** and **rth**

Import 3D **CAE Results** from:

- *Abaqus* **fil** and **odb** (Stress and Displacement results)
- *Ansys* **rst** and **rth** (Stress, Displacement and Thermal results, Steady State and Transient analyses)

Export 3D **Mesh** to:

- *Nastran* **bdf**

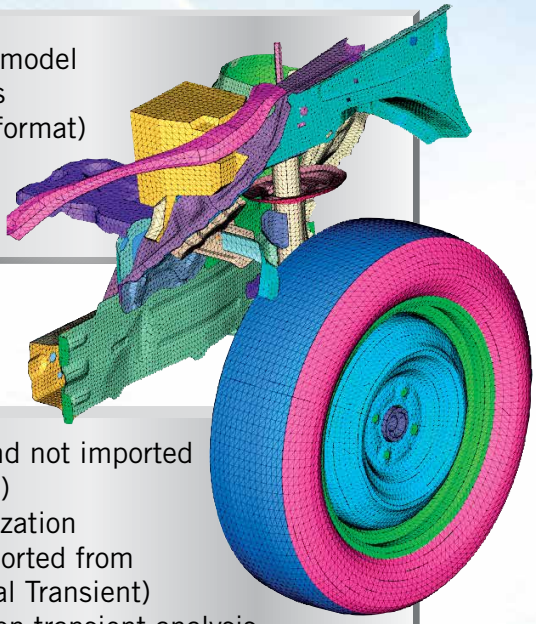


3D VISUALIZATION TOOLS ON MESH

- Automatic recognition, creation and coloring of groups based on properties or materials in the imported file.
- Manual group creation based on element selection
- Activation/Deactivation of groups from visualization
- Images export
- Choice of Rotation Center
- Ability to set different display options to each group.
- Selection of faces by single picking or by feature angle.

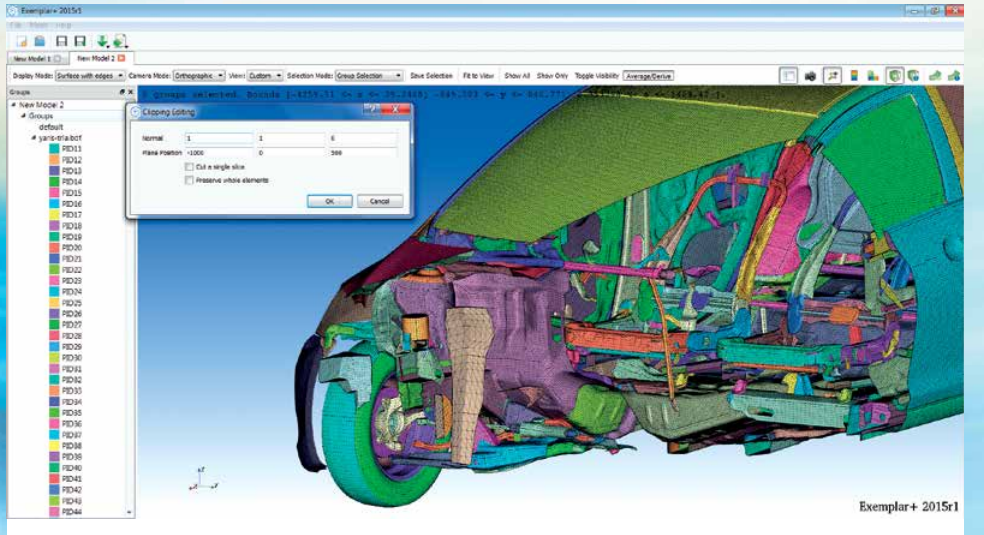
EXPORT DATA MESH

- Possibility to export mesh of all model or only of selected/visible groups
- Possibility to export results (txt format) from all model or only from selected groups



3D RESULT VISUALIZATION TOOLS

- 3D Results are saved as links and not imported in the database (no duplications)
- Scalar and Tensor results visualization
- Different time frame results imported from transient analysis (Ansys Thermal Transient)
- Creation of XYPlot graph based on transient analysis
- Deformed/Undeformed configuration view
- Clipping
- Wireframe/no-edge/element edge representation
- Probe result by node/element picking
- Cutting plane
- Cutting plane options (single slice/preserving whole elements)
- Contour Bar autoscaling
- Contour bar max/min manual control



exemplar

Solutions for Complexity

OPERATIONAL LOCATION

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