

VCollab - powerful multi-disciplinary 3D Visualization

VCollab offers powerful 3D Visualization with high performance simultaneous visualization of large 3D-Data-Sets from CAD/CAE/CAM.

Among the key features and benefits of the VCollab product are:

- **Multi-disciplinary CAD/CAE/CAM-Visualization**

- Use VCollab to present data from different CAx disciplines simultaneously. VCollab provides you instant access to
- o Simultaneous 3D Archiving of CAD/CAE/CAM-Data
 - o 3D-CAx-Presentations in the Intra/Internet, Powerpoint, Word, ... including animation
 - o 3D-CAx-Design Reviews
 - o 3D-CAx-Communication

of your CAx data inside your company or in communication with your suppliers.

Use VCollab to view your CAD design and CAE results simultaneously using ONE viewer in 3D - no need to e.g. keep and maintain past versions of your post-processors available.

- **Large 3D-Data-Sets are compressed and displayed very fast**

Use VCollab to view your large 3D-data sets from CAD/CAM without waiting for startup and the next frame. The optimized compressed file format of VCollab enables fast loading and file storage requirements in the area of only percents of the original file.

VCollab provides you fast and performant access to your huge datasets including animation from

- o CAM, e.g. Delmia
- o DMU where VCollab handles large data files efficiently. Supported applications are e.g. Catia, UniGraphics, Pro/E, IDEAS, SolidWorks, 3D StudioMax.

Culling and Level of Details/LOD-support implemented in VCollab offer the framerates you need for visualization of large datasets.

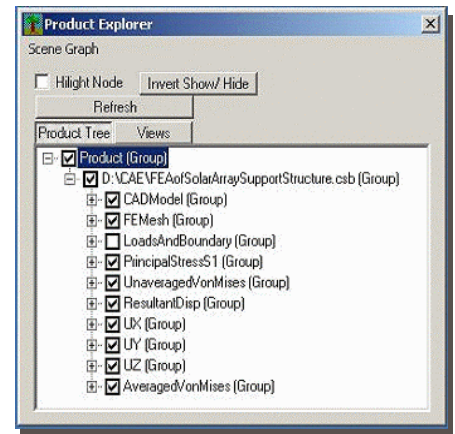
- **Animated and Simultaneous Presentation of your 3D-Data**

Use VCollab to present your 3D-data sets from CAx simultaneously and intriguing. VCollab offers you easy to use presentation of your 3D-data from design (Digital Mockup), calculation (CAE-results) as well as Computer Added Manufacturing (CAM).

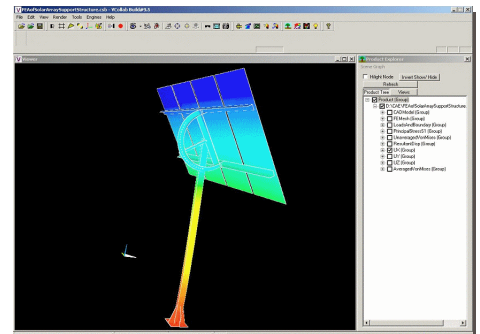
VCollab is integrated through a seamless plugin with

- o **Internet Explorer** to visualize data in the intranet for your co-workers and internet when working with your suppliers
- o **Powerpoint**: present your inventions and results online and offers the flexibility to react to the feedback of your attendees instantaneously

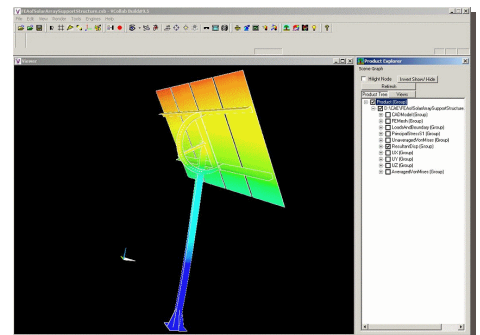
Visualization Explorer



Displacements from CAE calculation

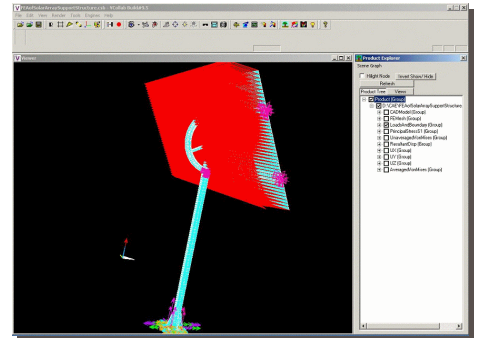


Principal Stress from CAE calculation

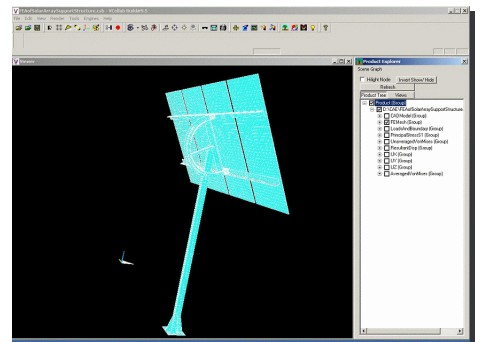


- **MS Office:** Communicate your creations and findings in Word and Excel
- **Improves Collaboration**
Use VCollab to improve the collaboration between different working groups inside your company or with your supplier. VCollab offers
 - Combined datasets from different disciplines
 - Web integration of visualization
- **Stereo Virtual Reality (VR)**
Use VCollab to visualize your 3D-data on your desktop PC. VCollab offers integrated
 - **passive** stereo support
 - **active** stereo support
- **Supported CAM/CAD/CAE applications**
VCollab supports the following applications:
 - CAM
 - ◆ DELMIA
 - CAD
 - ◆ Catia, UniGraphics, Pro/E, IDEAS, SolidWorks, SolidEdge, AutoCAD/MDT, 3D StudioMax, ...
 - CAE
 - ◆ Nastran, Abaqus, Ansys, LS-Dyna, Patran, FEMAP, ADAMS, Dynamic Designer, ...

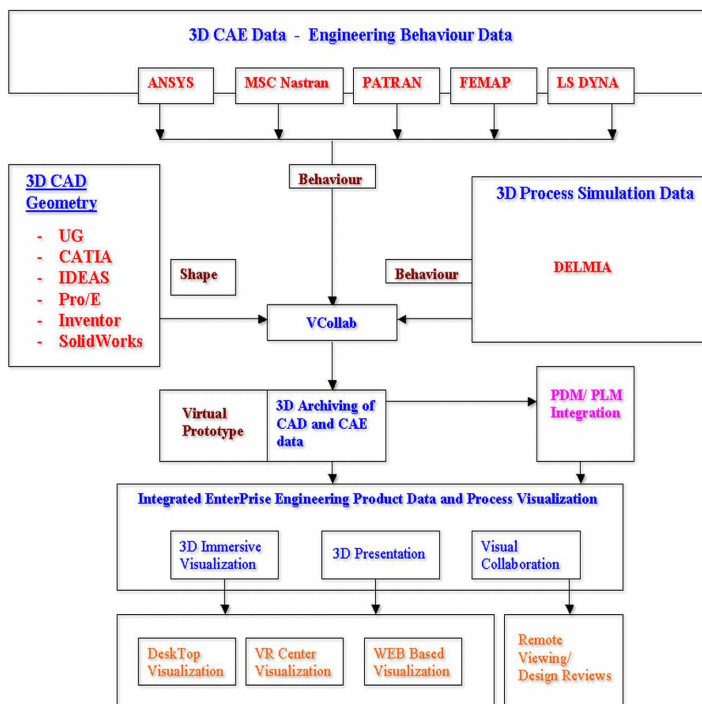
Boundary Conditions



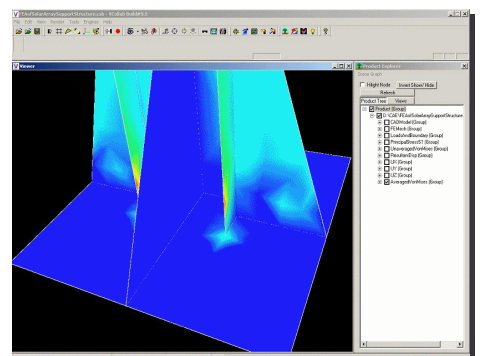
FEM Mesh



- **Integration of VCollab in the virtual development process**
This schema shows how VCollab can be integrated in the virtual development process:



Averaged vonMises



Vcollab is a product from VirtualE3D (www.virtualE3D.com) distributed by

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