New software version release announcement
December 9, 2010

BETA CAE Systems S.A. announces the release of ANSA v13.1.1
with new features and important code corrections

The official software release is comprised by the latest ansa_v13.1.1 that resides in the server at the time of this announcement.
These replace any pre-releases and files downloaded prior to this date (i.e. December 9th, 2010).

Main new features introduced

Known issues resolved

Compatibility

Documentation

Download

Main new features introduced

- CAD data translators, support of:
    - CATIA V5 R20
    - Pro/Engineer Wildfire 5
- Data Management
    - navigation and enhanced filtering tools in the Comparison tool
    - differences report for Comparison results
- Direct and easy handling of colors within Lists
- Enhancements in quality criteria within the graphic area
- Batch Mesh: Hexapoly algorithm added in Volume scenarios
- Hexa Block meshing enhancements
- Hexa Block meshing
- Results Mapper: align mesh and manual positioning
- Renumbering tool: more options added
- Laminates modeling: reporting of:
    - Weight and area per layer, sequence or material
    - o PCOMP mass
- Include Files Configurator
- Safety:
    - FMVSS201 U: saving of position, report of distance between FIZ and target point
    - Pedestrian: target point entity creation
- LS-Dyna: Support of custom made Section-ID numbering schema
- NASTRAN: New CWELD creation method
- Scripting language extensions
  and more…

For more details about the new software features, enhancements and corrections please, refer to the Release Notes document.

Numerous known issues resolved

- Delay in opening or importing files
- Oversizing of ansa files caused by repetitive transformations of the contained geometry
- Inability opening ansa files with connections data on HP-UX and SUN-Solaris platforms
- Graphics issues related to polygon area selection
- Properties removal of deleted Faces
- Improper recognition of Catia V4 files to be translated
- JT files translation issues
- Erroneous Faces Offset operation
- Instability of 'Advancing Front' and 'Best' meshing algorithms
- Creation of corrupted ansa files after meshing with 'Best' algorithm while having active all mesh generation options
- Recognition of holes by mesh Reconstruction
- Erroneous report of elements violating quality criteria in elements index
- Instability of volume elements changing order
- Pasting Volume element nodes
- Quality fix of Jacobian criterion for 2nd order solids
- Calculation of Jacobian criterion for 2nd order shell elements
- Malfunction of Volume Map meshing algorithm
- Volume mesh Layers creation issues
- Delay in connections realization
- Laminates tool: instability issues and improper treatment of GPLYID; improper export of PCOMPG (Nastran)
- Seatbelt tool instabilities
- Safety: malfunction of Automech for automatic kinematic configuration of dummy models
- Issues on import of Nastran files with NSM or NSMADD
- Saving and Reading ansa files with NASTRAN MPCADD
- Abaqus: improper export of Gasket Behavior
- Abaqus Cohesive elements net mass calculation
- LS-Dyna: erroneous export of Mat Plasticity Compression Tension Title
- Pam-Crash improper reading of Materials with Ply data
- Malfunctions in Pam-Crash Metric files treatment
- Issues on output of ANSYS Fluent files

and more…

For more details about the new software features, enhancements and corrections please, refer to the Release Notes document.

Compatibility

ANSA files saved by version 13.1.1 can be opened by version 13.1.0 but not by earlier versions.

Documentation

Updated documentation

- Updated ANSA v13.1.1 User's Guide
- Updated CAD data translators documentation
- ANSA v13.1.1 release notes
- New tutorials for:
  - FMVSS201U
  - Surface Wrapping & Morphing tyre for CFD
  - Morphing & Optimization with NASTRAN SOL 200 and with Isight
- Updated tutorials and best-practices
- Scripting language functions guide
- ANSA v13.1.0 release notes with fixed errors list

Download

Where to download from

Customers who are served directly by BETA CAE Systems S.A. may download the new software, examples and documentation from their account in our server. They can access their account through the user login link at our web site http://www.beta-cae.gr . Contact us if you miss your account details. The [Public] link will give you access to the public downloads area.
Customers who are served by a local business agent should contact the local support channel for software distribution details.

Those who receive the software from our server may follow the instructions bellow:

What to download

For the installation of the software on each platform type the following are needed:
1. the tar file with the respective platform name (e.g. Linux, IBM-AIX etc.), or the respective zip file for Windows and
2. the "common" .tar or .zip file
3. the "tutorials and examples" .tar or .zip file
Previous software releases can be found in the sub-directory called "old".

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