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New software version release announcement
February 11, 2011

BETA CAE Systems S.A. announces the release of ANSA v13.1.2
with new features and important code corrections

The official software release is comprised by the latest ansa_v13.1.2 files that reside in the server at the time of this announcement.
These replace any pre-releases and files downloaded prior to this date (i.e. February 11, 2011).

Main new features introduced

Known issues resolved

Compatibility

Documentation

Download

Main new features introduced

- Visibility control with the new NEAR function
- Connections Manager: new options in several FE-Representations
- Handling of tailored-blank parts by the SKIN function
- Jacobian criterion calculation methods
- OpenFOAM quality criteria: non-orthogonality and Warping (Face Flatness)
- New 'Growth ratio' quality criterion
- Mesh quality improvement for Jacobian on 2nd order shells and solids:
  - corner and mid nodes are moved
  - controlled by the Mesh Parameters (Freeze volume skin, Fix quality allow distance values)
- Support of solid elements in IDEAS-V universal format
- Hexa Block meshing enhancements
- Kinematics tool:
  - drawing mode per Kinematic Rigid Body
  - Explode view
- NX NASTRAN: Support of CPYRAM pyramid solid element
- Abaqus: New supported keywords
- PAM-CRASH: updates and numerous new keywords support for v2010
- PERMAS: New dependency errors detection function and new keywords support
- Enhancements in ANSA - TOSCA Environment
- Scripting language extensions
and more…

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

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Known issues resolved

- Windows platforms: missing focus from fields to be edited
- Compare Report: improper display of filtering results
- Blocking in conversion of hexahedral Dyna spotweld for self-welded parts
- Batch Mesh Wrap scenario: Improper target element length
- Volume Mesh Translate - Dual Sweep: ignoring local coordinate system
- Solid elements Fix Quality:
    - Abaqus min/max angles
    - Jacobian on 2nd order improper results
    - ignoring the Freeze Volume skin setting
- Improper operation of renumbering rules for Include files
- Importing STL files grater than 2Gb
- Includes Configurator: unable to load files on Windows XP 64bit
- NASTRAN RBE3 creation using the Facets option
- Abaqus: Improper reading of SPOS/SNEG of SETS
- LS-DYNA import Include_Transform:offset values for Parts were not applied for Part_Composite
- CFD Decks: copied Size Boxes improper handling

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 13.1.2 can be opened by versions 13.1.1 and 13.1.0 but not by earlier versions.

Documentation

Release Notes
For more details about the new software features, enhancements and corrections please, refer to the "ansa_v13.1.2_release_notes" pdf document, that can be downloaded separately. This can be also reached by the "Help>Ansa documentation index" accessed by top menu bar within ANSA.

Updated documentation
- Updated ANSA v13.1.2 User's Guide
- Updated CAD data translators documentation
- New tutorials for:
    - Hexablock Meshing
    - NASTRAN SOL 600
- Scripting language functions guide

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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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