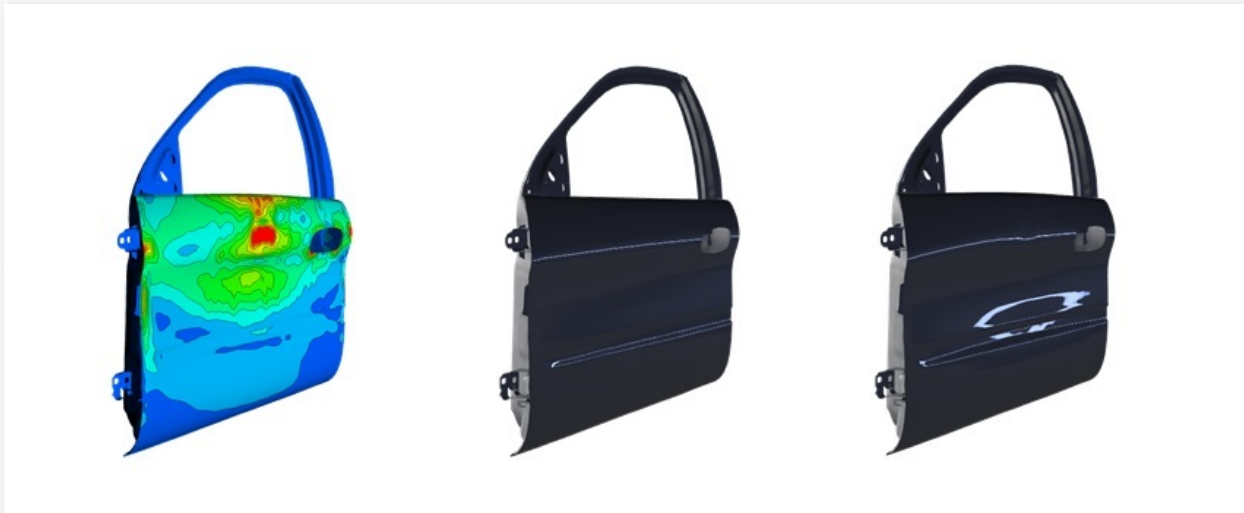February 13, 2018

BETA CAE Systems announces the release of the v18.0.2 of its software suite

About this release

BETA CAE Systems announces the release of the version 18.0.2 of its software suite with new tools and capabilities to further augment functionality and facilitate CAE processes.

The most important enhancements implemented are listed below.

Contents

Enhancements and known issues resolved in ANSA

Data management

It is now possible to check real-time whether the Model Browser entities of a model exist in DM with the aid of the new column labeled "DM".

When replacing a Part with a different version in DM, the internal Model Setup entities of the outgoing part would be kept, resulting in duplicated entries in the database.

Connections & Assembly

Several enhancements have been made for the function *Connector>New[From A_POINTs(auto)]* that creates connectors from pairs of Assembly Points. The function can now run on visible A_POINTs only, while in preview mode, it offers improved handling of connectors that through both the list and the drawing area.

Task Manager

The option of generating video files (already available in Morphing Parameters), has been added in the context menu of the Optimization Task.

Kinetics

The animation of deformations/ stresses/ strains for flex bodies consisting of solid elements is now supported.

Plugins

The Laminate Convert can be used for PAMCRASH model set-up.

Known issues resolved in ANSA

CAD Data to ANSA Translators

The parallel translation processes by multiple users logged in the same workstation and a common tmp directory would not be successful.

Model Browser

The ANSA id of a part could be changed when saving and re-opening a database.

Data Management

Applying the *Change Representation > Lumped Mass* function on a part, might double the mass of the part.

Connections & Assembly

The *Auto-Connect* function would erroneously detect the same part multiple times in case of unmeshed geometry.

Shell Mesh

When pasting nodes and single bounds changed to double bounds, the FE perimeters would not get updated automatically.

The function *Wrap > Constant Length* would not take into account the middle nodes and could thus generate intersections in the "Shells out of structure" mode.

Volume Mesh

The resulting number of Steps and Distance would occasionally differ from the given values.

Decks

The function *Util>Change Type* would corrupt the ANSA database file when features or FE perimeters were present.

NASTRAN

The Header would fail to read command entries that extended to more than one lines.

PAM-CRASH

Upon output, the Functions (FUNCT) window would erroneously appear.

Abaqus

In certain cases, the FILM entities defined on solids would not be imported.

RADIOSS

Function fields in material cards would not accept IDs with nine digits.

OPTISTRUCT

DRESPi DRESP1 was written upon output with the PTYPE field, even for RTYPEs not supporting PTYPE field, causing errors to OPTISTRUCT's solution.

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

Enhancements in META

Modal Response & FRF Assembly

Further performance improvement of all NVH Calculations when running in batch mode.

Decks

It is now possible to read PERMAS Corner Vector results.

Toolbars

Occupant Injury Criteria: A new reporting window has been created for each dummy and for each processed simulation or test results. It displays as bar chart all the results the selected regulation requires along with the regulation limits.

Known issues resolved in META

Decks

LS-DYNA: INCLUDE TRANSFORM and INCLUDE PATH keywords would not be read correctly.

States & Animation

States with sequential ids were missing from the UNV 2414 format.

Linear Combination

Unexpected termination might occur when trying to combine results with many States.

Project Files & METADB

CFD geometry and results could be wrongly written upon saving a metadb file.

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

Compatibility and Supported Platforms

ANSA files saved by all the first and second point releases of a major version are compatible to each other. New major versions can read files saved by previous ones but not vice versa.

META Project files saved from version 18.0.2 are compatible and can be opened by META version 16.0.0 or later. To be readable by META versions earlier than v16.0.0, they have to be saved selecting the option "Version <16.0.0".

Support for 32-bit platform has been discontinued for all operating systems.

Download

Where to download from

Customers who are served directly by BETA CAE Systems, or its subsidiaries, may download the new software, examples and documentation from their account on our server. They can access their account through the "user login" link at our web site. Contact us if you miss your account details. The Downloads menu items give you access to the public downloads. Customers who are served by a local business agent should contact the local support channel channel for software distribution details.

What to download

All files required for the installation of this version reside in the folder named **"BETA_CAE_Systems_v18.0.2"** and are dated as of **February 13, 2018.** These files should replace any pre-releases or other files downloaded prior to that date. The distribution of this version of our pre- and post-processing suite is packaged in one, single, unified installation file, that invokes the respective installer and guides the procedure for the installation of the required components.

For the installation of the software on each platform type, the.sh installer file residing in the folder with respective platform name, for Linux and MacOS or the respective .msi installer file for Windows, 64bit, have to be downloaded.

In addition to the above, optionally, the META Viewer is available to be downloaded for each supported platform.

The tutorials and the example files reside in the folder named "TUTORIALS". This folder includes the complete package of the tutorials and example files, and a package with only the updated ones.

The Abaqus libraries required for the post-processing of Abaqus .odb files are included in the installation package and can be optionally unpacked.

Earlier software releases are also available in the sub-directory called "old" or in a folder named after the product and version number.