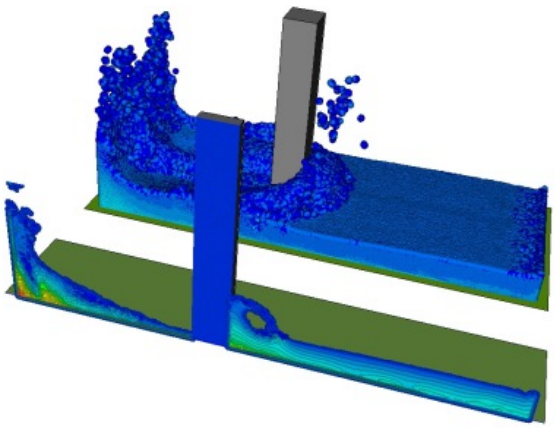
March 18, 2020

BETA CAE Systems announces the release of the v20.0.3 of its software suite



About this release

BETA CAE Systems announces the release of v20.0.3 for BETA Suite products.

Apart from fixes in the detected issues, this version also hosts a few noteworthy enhancements and implementations.

Follows a selection of the most important items:

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Enhancements and known issues resolved in BETA Suite

Communication with License Manager

ANSA and META could fail to cycle through all the available License Servers, when trying to re-acquire License credits.

ANSA could fail to turn in Idle Status, while remaining in Launcher window mode.

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

Enhancements and known issues resolved in ANSA

Enhancements in ANSA

Modular Run Management

It is now possible to add the following ANSA generators into Model Browser Containers:

- RESULTS_MAPPER
- INVERSE_FORMING
- DAMPING_PATCH
- COUPON_TEST (Abaqus only)
- FS COUPLING (NASTRAN only)

Additionally, from now on GEBs are not pulled automatically into Subsystems based on their connectivity. Instead, they are managed manually with drag and drop.

Connections & Assembly

Apart from the significant performance improvement in the Connection Manager and, specifically, in the Seam welds [Auto-Connect] function, the DYNA SPOT WELD FE Representation has also been enhanced, in the following ways:

- Upon realization of connections with PSOLID or PCOHESIVE Body Property that lie too close to bounds, the error message "Connections were too close to bounds !" is now printed in the ANSA Info window.
- Moreover, in case no projection is detected, the error message "No projection found within specified 'Search Dist' !" is now displayed.

Shell / Volume Mesh

The script function base.GetNormalVectorOfShell() has been enhanced to work also with SOLIDFACETs.

Known issues resolved in ANSA

CAD Import / Export

Excessive time would be required to translate specific IGES files

Model Browser

The Model Browser window would not open for ANSA DBs that contained a big number (>10000) of Include entities.

TOPO

Unexpected termination might occur while deleting Faces with joined Perimeters via Faces > Delete function.

Volume Mesh

Abnormal termination would occur upon execution of Volume > Extrude function or when trying to read DB containing old extrude volumes.

Feature Manager

Hole zones would not be preserved upon Change Diameter execution under Design Actions.

Safety

Focusing on Seatbelt tool, Tension tool would not work correctly, when tria and line elements were used in the Seatbelt entity.

NASTRAN

Unexpected termination would occur when applying a GEB_MT with NSM representation and blank SID.

LS-DYNA

Unexpected termination would occur when outputting file with negative offsets in Include Transform card.

Abaqus

Unexpected termination would occur when adding or removing output variables in Output Requests upon STEP [New > Loadcase] execution.

Fluent

Fluent HDF files output from ANSA could not be read in the latest version of Fluent 2020.

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

Known issues resolved in EPILYSIS

Optimization

Unexpected termination would occur when parameter DESPCH1 had a negative value.

SOL103

Unexpected termination would occur if RESVEC was requested but no items were found.

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

Enhancements and known issues resolved in META

Enhancements in META

Decks

New element types and classes are now supported for MARC.

User Toolbars

CompositePost toolbar advances in reading of result labels for all layers and all states.

In Crash & Safety area, THOR-50M v1.7 and THOR-05 dummy are now supported under Occupant Injury Criteria toolbar.

Known issues resolved in META

Decks

Unexpected termination could occur when loading:

- For Actran, multiple result files.
- For nCode, nodal results from *.fer files.
- For Medina, second order results for a first order geometry.

NVH Calculators

In the area of Modal / FRF Correlation, apart from the erroneous reading of Ansys complex results, erroneous behavior was also noticed when trying to animate modes from Pam-Crash, DYNA3D decks and METADB.

META Viewer

Unexpected termination would occur when trying to copy a window.

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 20.0.3 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 "sign in" 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 for software distribution details.

What to download

All files required for the installation of this version reside in the folder named **"BETA_CAE_Systems_v20.0.3"** and are dated as of **March 18, 2020.** 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, download from the respective folders, the .sh file for Linux or the .msi file for Windows.

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 "Previous_Versions" or in a folder named after the product and version number.