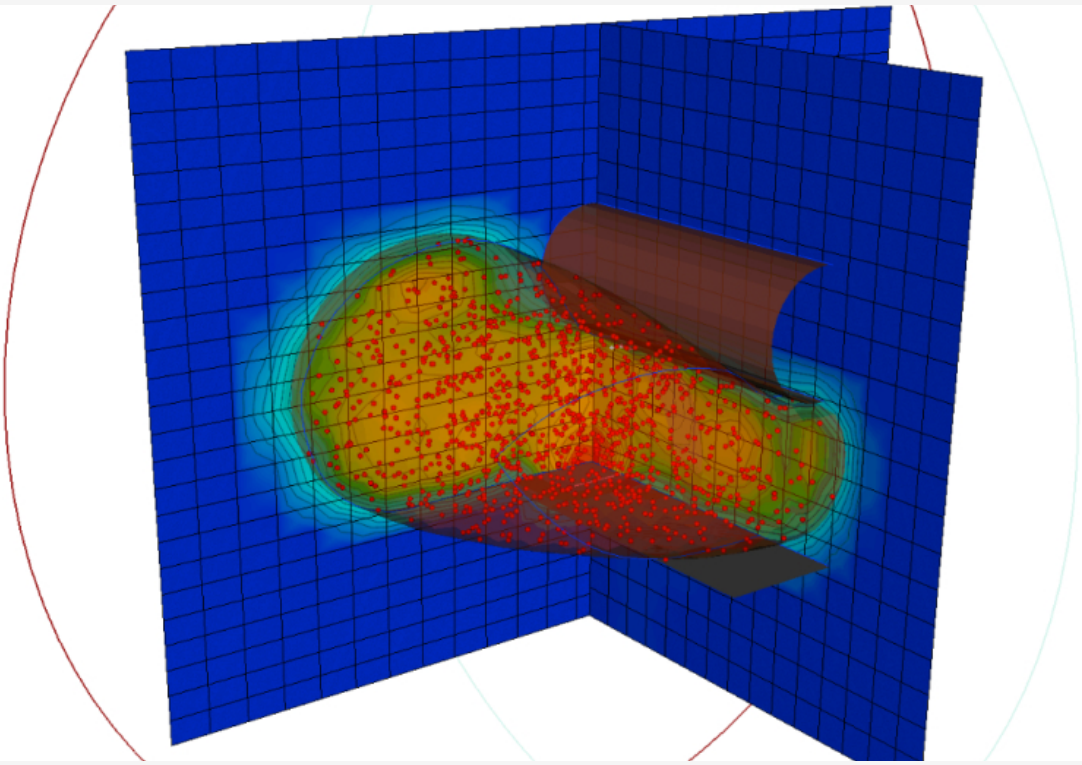
July 23, 2020

BETA CAE Systems announces the release of the v20.0.5 of its software suite



About this release

BETA CAE Systems announces the fifth bug-fix release of ANSA/EPILYSIS/META v20.0.x series.

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

Follows a selection of the most important items:

Contents

Enhancements and known issues resolved in ANSA

Enhancements in ANSA

CAD to ANSA Translators

The new library of CoreTechnologie (CT 2020 SP1 HF) is now available, supporting the formats of NX1899 (UGOpen) and Inventor 2020.

Known issues resolved in ANSA

CAD Import/Export

Hierarchies might not be loaded and Geometric Sets could be lost, when the setting "Translators [CATIA> Force single part] " was active, e.g. in CAD to ANSA functionality.

Moreover, focusing on CATIA Translators, activation of the "Read Features" option could result in a translation failure. ANSA versions affected depended on the operating system; Windows being more susceptible.

Batch Meshing

Abnormal termination could occur in cases where Batch Mesh was set up in units of meters [m].

NASTRAN

NASTRAN Header would not be correctly read, in case it contained an empty SET.

PERMAS

MEDINA MPC_LSURFACE definitions, imported from ANSA versions 20.0.0 and older, would not be correctly exported into Medina .bif file, even if listed in DB Browser.

Furthermore, MPC_LSURFACE definitions, imported from ANSA versions 20.0.0 and older, would not be correctly exported into PERMAS .dat file, even if they were listed in DB Browser. The export takes place as expected since ANSA v20.0.4.

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

Project Files & METADB

When loading a .metadb file per drag 'n' drop and a geometry file is already read in META, a menu pops up for the handling of the .metadb file. The available further actions to be taken are: Load, Overlay and Cancel.

User Toolbars – Fatigue > Haigh Diagram

The calculation time of the Safety Factor has been significantly reduced. This is an implementation that goes along with the enhanced responsiveness of 2D Plot window by displaying only up to 1000 points on the diagram.

Known issues resolved in META

Graphics

Unexpected termination could occur upon reading a new model, if Render functionality was enabled in multiple windows.

Read Results

Results were not properly loaded, even if any geometry parts were previously deleted from the model.

In addition, reading of results from column ASCII files was distorted in versions 20.0.4 and 20.1.2, whereas differences in HDF format written by NASTRAN v2020 compared to v2020 ALPHA caused an unexpected termination when trying to read the file.

METADB

Unexpected termination could occur while reading results from more than one lossy .metadb file.

NVH Calculators – Modal Parameter Estimation

Since v20.0.0, curves were not created when the option to plot curves was selected, without the option to output to .unv file at the end of the analysis. The problem occurred only when executing the function via GUI, whereas the process was applied correctly when using the respective command.

Data Management

META would cease to respond, when trying to save a curve with an asterisk (*) in its name to DM.

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 20.0.5 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" or "Version <16.0.0".

Support for Mac OS has been discontinued.

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 folders named **"BETA_CAE_Systems_v20.0.5"** and are dated as of **July 23, 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.