BETA
SIMULATION SOLUTIONS

physics on screen

February 02, 2021

BETA CAE Systems announces the release of the v20.1.5 of its software suite

About this release

BETA CAE Systems announces the v20.1.5 release for ANSA/EPILYSIS/META and KOMVOS, hosting numerous fixes in recently detected issues.

Follows a selection of the most important items:

Contents

Known issues resolved in ANSA

CAD Import/Export

Several cases, related to reading CAD formats, have been successfully combatted, as follows:

- Upon reading Neutral files using CoreTechnologie libraries, PID from Layers would not be correctly generated.

- Referencing CATIA Translators, 3D Point entities would be erroneously disregarded, when "Read features" mode was activated.

- When using ANSA Translator, the import of STEP files was susceptible to missing unit changes, encountered in assemblies designed in mixed units.

Compare

Time required for the creation of the Compare Report and the size of the generated METADBs are now significantly reduced.

Indicatively, in small models of ~40 parts, the execution time has been reduced from ~12min to ~3min and the generated METADBs

size from ~400MB to ~9MB. In large models of ~400 parts, the reduction is even more impressive in the generated METADBs size, from an excess of 15GB to less than 100MB, executed in ~47min in total.

FE Representations

The realization of SPIDER2 Representation could fail in case of nearby attached solids, whereas the treatment of non-circular BOLT holes would not be successfully applied.

Volume Mesh

Unexpected termination could occur when the function Structured Mesh > Extrude [Revolute] produced more than one volumes, according to connectivity, PID, or part of the source area.

Checking Mesh [Void Areas], areas at locations of hanging edge between a warped quad shell/facet and the two corresponding tria shells/facets are not identified as Void Areas anymore.

Deck Tools

Unexpected termination could occur upon Units Conversion in a database containing 3D Points.

Safety

Differences between CNCAP and KNCAP with EuroNCAP are now taken into account for Car Marking in the Pedestrian tool.

Morph

The robustness of Direct Morphing DFM functionality has been fortified, in cases of geometry with poor underlying surface quality.

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

Known issues resolved in EPILYSIS

General

Unexpected termination could occur when GPSTRESS was requested on fluid elements upon Output, and when a DRESP2 would reference a DRESP2 with higher ID in SOL200.

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

Known issues resolved in META

Decks – Fluent

Reading times of Fluent .dat result files have been significantly improved and META can now read multiple states of .h5 format for transient analysis. Furthermore, META is no longer terminating while reading "Volume Fraction" scalar results of Fluent .cdat files.

Decks – TAITherm

META would unexpectedly terminate, upon auto-detection of TAITherm files.

NVH Calculators – FRF Assembly

In certain cases where Linear Combination nodes were used as responses, calculations could be incorrect since v20.1.0, depending on the included loadcases.

Project Files & METADB

After loading a Project File, META displayed the list of all available results, besides the ones saved. In addition, Set IDs were not successfully saved in Project Files.

File Export

Unexpected termination could occur when exporting in 3DXML format.

User Toolbars

In the Crash & Safety domain, Occupant Injury Criteria Toolbar now efficiently offers C-NCAP 2021 Rating, whereas Haigh Diagram

was not successfully created for user created states, under the respective Haigh Diagram Toolbar.

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

Known issues resolved in KOMVOS

Input Model Definition

Input Model Definition would not work for CATProduct files, ProE files or JT format trees.

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 20.1.5 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_v20.1.5"** and are dated as of **February 2, 2021.** 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.