May 28, 2021

BETA CAE Systems announces the release of the v21.1.3 of its software suite

About this release

Thank you for contributing to bringing our software to its next level of maturity. You deserve the latest of the best. Today, BETA CAE Systems announces the availability of v21.1.3 of its software suite, the new second point release of ANSA/EPILYSIS/META and KOMVOS, incorporating numerous fixes in recently detected issues. Increase the reliability of your simulation work with this latest software release.

Don't miss some of the most notable improvements:

License Management for ANSA and META
Known issues resolved in ANSA
Known issues resolved in EPILYSIS
Known issues resolved in META
Known issues resolved in KOMVOS
New Documentation in ANSA
Compatibility and Supported Platforms
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License Management for ANSA and META

Focusing on the Command Line arguments, the LM retry option (-lm retry timeout) can now be restricted by user-defined timeout. The respective flag is followed by the desired timeout in seconds and its minimum acceptable value is 60.

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

Known issues resolved in ANSA

Graphics

ANSA might abort launching when executed via VirtualGL on remote environments.

GUI

ANSA would cease to respond, when loading specific types of .xml files.
Indicatively, such .xml files would contain GUI Settings saved with any list windows (e.g. Properties, Materials) visible, affecting ANSA response even upon initial launch.

Database Browser

Unexpected termination could occur upon deletion of solid elements when deleted directly (e.g. through the Database Browser list of solids) or indirectly (e.g. through the deletion of other containers like includes or Model Containers).

Shell Mesh

Unexpected termination could occur when projecting points to open holes via Project [Holes].

Pasting nodes that lie on boundary of volumes in light volume representation mode via Grids > Paste [Auto] function would lead to erased volumes.

Laminates

Laminate Convert would occasionally lead to unexpected termination.

Optimization Tool

Unexpected termination could occur when Cross Sections were morphed and recalculated during a DOE run, or when Simulate was used and the Design Variables modified cross section thickness and shape.

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

Known issues resolved in EPILYSIS

NVH

DMIG coupling generation weighing factors would not be correct when the coupled Fluid and Structure surfaces were parallel.

SOL200

Topometry optimization would stop in first cycle, when a PCOMP property was used.

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

Known issues resolved in META

General

Certain settings in "Fraction Plot Options" of FRF Assembly might not be initialized correctly after Ctrl+N.

Certain settings in Modal / FRF Correlation Tool would not reset to their default values with Ctrl+N.

"Output in Unv58" settings under Modal Response would not be restored correctly.

Read Results

PAM-CRASH MTOJNT elements, as well as PERMAS EKINMASS scalar results, were not read correctly. Marc Element Type 84 was not read at all, whereas unexpected termination could occur when reading Marc Logarithmic Stress results.

NASTRAN

When multiple META sessions were using femzip NASTRAN models to read results simultaneously, META could become unresponsive. In addition, unexpected termination could occur when coordinates systems were defined with mixed single and double precision.

States & Animation

Unexpected termination would occur when Time was shown on the Animation Bar and the selected States Method was Interpolate.

Identification of Entities & Data

Parts identify function failed to exclusively identify the picked part in the GL area and, consequently, indicate it in the list.

Math Operations on Field Data

Unexpected termination could occur when reading scalar nodal results in Fourier Transformation for Abaqus.

NVH Calculators

FRF Assembly: When modal participations were requested for a single component, with no connections, the calculated results would be zero.

Modal Response: If the method without large masses was used to calculate enforced motion for ASCII modal models, the enforced motion displacement at the excitation points was calculated as zero.

Project Files & METADB

Unexpected termination could occur when reading element thickness.

File Export

Unexpected termination could occur while exporting a video with animating cycles.

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

Known issues resolved in KOMVOS

GUI

Thanks to the "Compare Containers" option, available under the Context Menu when selecting Parts, the properties and attributes of multiple Parts can be successfully compared.

DM Schema Editor

Clicking OK in the "Accepted Values Editor" window would lead to unexpected termination.

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

New Documentation in ANSA

Tutorials

Modular Model and Run Management

- Modular set-up of a static simulation for EPILYSIS
- Modular set-up of a crash simulation for LS-DYNA

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 21.1.3 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" 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_v21.1.3"** and are dated as of **May 28, 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.