May 30, 2023

BETA CAE Systems announces the release of the v23.1.2 of its software suite

About this release

The new version 23.1.2 of ANSA, EPILYSIS, META, KOMVOS and FATIQ is now officially available.

This new release reveals the latest updates made to our expanded BETA product line, empowering teams and engineers through upgraded performance, boosted stability, and innovative product development implementations.

Follows a selection of the most important items:

Known issues resolved in ANSA
Known issues resolved in EPILYSIS
Known issues resolved in META
Known issues resolved in KOMVOS
Known issues resolved in FATIQ
Compatibility and Supported Platforms
Download

Known issues resolved in ANSA

CAD Import/ Export

The queue time for an available license via BETA LM is now controllable, through a dedicated setting.

Database Browser

Loading an ANSA Database with numerous User Attributes has been accelerated by 93%.

Modular Run Management

While saving a Simulation Model or Loadcase in SPDRM, the "Representation File Content" attribute would randomly be omitted,

leading to errors during the export of any Simulation Run that used the problematic entity.

Connections & Assembly

Concerning "Bolt On Solid" representation, the "Create contacts between parts" function execution in conjunction with D=0 would lead to aborted operation.

Unexpected termination could occasionally occur when realizing a connection while FE perimeters were visible, or while defining a connection curve manually via using different selection options.

Shell Mesh

Several cases that could lead to aborted ANSA operation have been successfully combatted. Such selected cases included:
- Applying Middle Mesh > Auto Generate [Extrude] on non-extruded parts.
- Replacing the existent layer elements connected to the external geometry.
- Executing Middle-Mesh on O-Junction (shells).

DECKs

Deleting modified entities during Model Cut would lead to unexpected termination.

During Beam creation process, ANSA would abort when edges were selected with "SelectFront Only" option.

Output of models containing SETs with ranges would require excessive time.

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

Known issues resolved in EPILYSIS

Performance

A significant performance increase (~3 times faster) has been achieved for the last frequency step in SOL111, in cases where Block Lanczos was used and multiple frequency steps were calculated.

Output

Unexpected termination could occur when calculation of participation factors was requested with the AMLS method, as this calculation is not currently available when the AMLS method is used.

SOL103

Abrupt software abortion could occur in SOL103, in case of multiple SUBCASEs with different output sets.

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

Known issues resolved in META

Managing Curve Data

Performance has now been significantly improved while reading curve data from THP files, reaching to 2.5 times faster on Linux OS and 5.5 times faster on Windows OS.

Moreover, axes titles and values would disappear, when applying a non-existing value as specific abscissa.

Curve Functions

META would unexpectedly terminate when multiplying curves via session commands.

Data Management

During Session Recording, META would not create the correct $ {DM_GEOMFILE_0 } variable in the session to automatically read the correct geometry, resulting in wrong outcome.

FEMZIP

Abrupt META abortion would occur, when reading LS-DYNA geometry from a FEMZIP file.

NVH Calculators

Focusing on FRF Assembly, the frequency range check for FRF components with uneven frequencies could issue wrong errors, if the required maximum frequency matched exactly the available maximum frequency.

Regarding Random Response, RMS result was not loaded for Auxiliary Stresses of CBAR elements.

User Toolbars

Grouped toolbars were not loaded correctly from the "Load" button of the Toolbar Designer.

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

Known issues resolved in KOMVOS

Data Management

Overwriting the existing DM item after editing its representation file, could unexpectedly fail.

The values of "ANSA Creation Date" and "ANSA Modification Date" displayed in the list of search results could be erroneous.

Machine Learning

The License Server arguments "lm_retry" and "lm_retry_timeout" are now also effective for the ML Toolkit during ML training or prediction.

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

Known issues resolved in FATIQ

Abaqus

Calculations for Abaqus Random Response were wrong in the case of multiple Analyses.

Calculations

Intermediate results would not be calculated when changing loads and re-running the analysis.

Post-processing

Transfer function plot could not be read from an .xml 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 23.1.2 are compatible and can be opened by META version 16.0.0 or later.

Support for Mac OS has been discontinued.

Support for 32-bit platforms 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 on our website. 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_v23.1.2"**, **"KOMVOS_v23.1.2"**, and **"FATIQ_v23.1.2"**, and are dated as of **May 30, 2023.** 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 a complete package, and one with only the updated files.

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.