



September 19, 2023

## BETA CAE Systems announces the release of the v23.1.3 of its software suite

### About this release

We announce the third bug-fix release of v23.1.x series.

This new version is released to provide those of you still running tasks and processes in v23.1.x with spotless functionality and workflows.

A detailed list of the new features and improvements follows.

- [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

#### Modular Run Management

Adapted Library Items would not be saved in DM, in case the parent Simulation Run was stored in the data repository using an ANSA version prior to 22.1.0.

Furthermore, loading in the Model Browser a Subsystem from an external load path might fail to show incoming entities as contents of the Subsystem, leaving them Unassigned.

#### Compare

Unexpected termination could occasionally occur in case of comparison between connected geometry parts.

## Connections & Assembly

The conversion "FE to Adh Faces" would not succeed for COHESIVE elements.

Duplication of connectivity might take place in case of converting hexa elements through "FE to Cnctn Pts".

## Shell Mesh

Unexpected termination could occur when using the function Improve > Fix Quality, when clicking "Go to previous page" and "Go to next page" options repetitively.

## Volume Mesh

The conversion time of a mixed mesh has been improved up to 40%, when executing the Conv2Poly function.

The Conv2Poly function would not succeed to produce fully compatible mesh when applied on linked geometry.

## Batch Meshing

Working with CFD Mesh, quad shells would also be generated, despite requesting only tria shells.

## Decks

ANSA would unexpectedly cease functioning while executing Model Cut function.

Focusing on Laminates, unexpected termination could occur during the output of FiberSim metadata if the model contained faces linked to the exported mesh.

Moreover, BOLT Pretension I/O for Marc could not be executed as expected, whereas invalid output would occur upon exporting surfaces with BCs that were not properly defined in STAR CCM + format (\*.ccm).

## Plugins

Beam optimization tool would stop unexpectedly during conversion of members to beams.

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

## Known issues resolved in EPILYSIS

### SOL200

Unexpected termination would occur when a TOMVAR entity referenced a PCOMP and used a DDVAL table.

Furthermore, unexpected termination would also occur when the user requested IMAG or PHASE results on a DRESP1 with FRDISP.

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

## Known issues resolved in META

### General

When switching between models that comprised of too many groups (e.g., side-crash model with approx. 10 million elements) or even switching between pages, an unexpected delay of approximately 4' occurred. The problem arose due to the huge number of sets that were created with the ELINKs, which were not available in the DSY file.

### Decks

Results from nCode \*.fer file format were not read correctly.

Strain Energy results were not detected in SOL400 complex modes op2 files.

Unexpected termination could occur while reading complex displacement as deformation from HDF5 file (.h5 file), whereas HDF5 results for CWELD elements were not read at all.

Furthermore, 2nd order Pyramids were not read correctly when geometry and results were loaded from .h5 file and not all contact results from NX-Nastran were listed under Read Results card.

## LS-DYNA

Unexpected termination could occur in cases when initial results were present in a keyword file.

Keyword SET\_SEGMENT\_(NAME) faces were not read correctly.

Seatbelt reading in i10 format was not performed normally.

## Permas

META would abruptly terminate when reading sets containing char instead of integers.

Tensor results on nodes could not be successfully read when Average,Compute option was used.

## OpenFOAM

Material ID recognition was not consistent on Windows and Linux OS.

In addition, Heat Transfer Coefficient would not be loaded from OpenFOAM multi-region conjugate heat transfer cases.

## States & Animation

Fringe colors were flickering in animated gif on perPid mode when transparent parts were present.

## Managing Curve Data

It was not possible to plot LS-DYNA glstat results from multiple files.

Moreover, when switching to plot type 2.5D, occasionally the curves were not plotted.

## Curve Functions

When plotting ERP contributions from NASTRAN .pch files, the bar plot and the percentage values were wrong.

## NVH Calculators

Output of modal participation factors as PCH would be false if modal fraction was used.

Furthermore, unexpected termination would occur when trying to calculate strain corner results.

## Project Files & METADB

Data could not be saved properly in a Project file with references to results files. Consequently, an unexpected termination would occur when opening such a project file.

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

The changes taking place upon editing and overwriting a DM item or an attached file, would require a manual refresh in the list to become available.

Furthermore, the timestamp attributes (i.e., DM Creation Date, DM Modification Date) would falsely be initially reported using the time zone of the SPDRM server, instead of the time zone of the client machine that runs KOMVOS.

### SPDRM Client

Editing a plain Library File and saving it through the editing application would erroneously lead to the file being overwritten when the editing application was terminated. From now on, a question will pop-up, asking the user whether the file should be overwritten, or a new version should be created.

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

## Known issues resolved in FATIQ

### Calculations

When rerunning an analysis, the intermediate results were falsely calculated again, even if they did not change. Consequently, the

calculation time is now significantly reduced.

## Assign Loads

Parallel input option in Assign Loads window would display events instead of channels.

## Task

Unexpected termination would occur when deleting multiple tasks.

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 23.1.3 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\_v23.1.3**", "**KOMVOS\_v23.1.3**", and "**FATIQ\_v23.1.3**", and are dated as of **September 19, 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.