



January 31, 2023

## BETA CAE Systems announces the release of the v22.1.6 of its software suite

### About this release

We are glad to announce the release of v22.1.6. For those still working with v22.1.x series, the launch of the new version is an excellent opportunity to update your processes with tools of bulletproof reliability.

Follows a selection of the most important items:

- [Known issues resolved in ANSA](#)
- [Known issues resolved in EPILYSIS](#)
- [Known issues resolved in META](#)
- [Compatibility and Supported Platforms](#)
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### Known issues resolved in ANSA

#### CAD Translators

CATProducts of R32 no longer lead to error, thanks to the integration of the updated CT libraries (CT\_2022\_SP4) in the new release.

#### CAD Import / Export

The Product Tree Editor would cease to respond during parts' selection in the list, while trying to highlight them in the viewer.

In addition, the META Viewer would only interact (e.g., via Show, Hide, Show only) with the tab of the Product Tree Editor that was active when the viewer was launched.

#### Modular Run Management

Significant speed-up has been achieved upon opening the Renumber Tool, in models that contain Subsystems with per-type numbering rules, as well as in functions that modify the contents of Subsystems by adding or removing entities. The latter improvement is particularly noticeable in the Copy functions of the Database Browser lists.

Unexpected terminations had been noticed, in sessions connected with SPDRM as an SDM back-end. This occurred when a Subsystem was selected in the Model Browser and ANSA attempted to fetch its metadata from DM, in cases where Subsystem overwrites had corrupted the indexing metadata of the Subsystem in DM.

## Volume Mesh

As for the Layers of the Structured Mesh, it would not be possible to assign different Growth Factors to different Properties.

## Connections & Assembly

Regarding Connection Manager, the Nodes marked as FROZEN\_DELETE, created upon Realize would be deleted upon Erase FE.

As for PENTA-CONTACT-ON-SOLIDS FE Representation, penetration values defined in the Realize field would lead to abrupt termination of ANSA.

## LS-DYNA

Executing the function Checks>Contacts twice would cause unexpected termination.

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

## Known issues resolved in EPILYSIS

### Performance

Significant speed-up has been achieved in cases where multiple RESVECS were requested. In specific, requesting RVD0F in 900 DOFs, the time spent went from 2h:40m to 25m.

### SOL200

Unexpected error would occur in the sensitivities calculation of an MFREQ subcase with zero load.

### SOLUTION TYPES

Unexpected termination would also occur, when single node CBUSH1D elements existed in the database.

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

## Known issues resolved in META

### Graphics

Executable scripts of ANSA/META have been updated, to handle the case of launching many jobs on cluster with nodes sharing a common user home directory.

### Handling Entities

Unexpected termination might occur, when feature selection was used on tetra or penta elements or when feature selection was used and, as next step, a new model was read.

### NVH Calculators

In cases where the maximum frequency requested in FRF Assembly was the same as the maximum frequency in a UNV file with Transfer Functions of a component, it could be possible, depending on the frequency request resolution, that META would not allow the FRF Assembly calculation to proceed, reporting that the frequency range of the respective UNV file is smaller than the frequency request.

### Solver Files

Nastran: Vectors for Aux Forces of BEAM elements read from punch file would not be drawn correctly.

LS-DYNA: Displacements from .d3rms files would not be loaded correctly.

Permas: It was not possible to read Scalar results in a local coordinate system.

### META Viewer

Error messages and unexpected termination could occur when importing project METADB files.

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 22.1.6 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\_v22.1.6**" and are dated as of **January 31, 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 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.