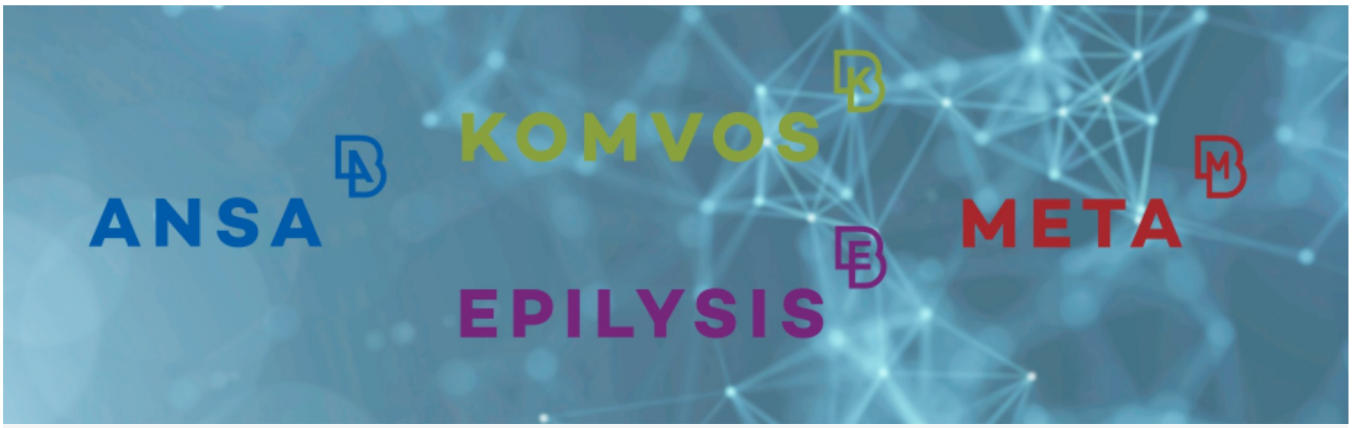
BETA
SIMULATION SOLUTIONS

physics on screen



July 26, 2021

BETA CAE Systems announces the release of the v21.1.4 of its software suite

About this release

The new second point release of our ANSA/EPILYSIS/META software suite is here to perfect your simulations' performance and reliability with version 21.1.x. Incorporating fixes in detected issues, v21.1.4 will solve possible issues and streamline further your simulation processes, paving the way for your upgrade to the brand new version 22.0.0.

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
Download

Known issues resolved in ANSA

Connections & Assembly

Unexpected rumination could occur when applying multiple Connectors that search for Assembly Points.

FE Representations

Upon Realization of:

- FEMFAT SPOT: Nodal thickness would not be assigned to inner shells.
- SPIDER2: The fill pattern of holes would occasionally be wrong.

Volume Mesh

The function Octree > Wrap would over-refine some areas of size boxes to reach the minimum surface length. The optimum way would be to refine to the closest length, respecting the option in ANSA settings that would not allow length violation inside size boxes in Octree-based generators. Now this behavior can be changed by activating or deactivating the respective setting.

DECKs

Executing the function Grids > Paste [Manual] could lead to unexpected termination, in cases when FE perimeters on solid elements needed to be updated.

Unexpected termination would occur when pressing the function Utilities > Undo, after opening KIN_CONTACT and KIN_BODY lists.

NASTRAN

Unexpected termination could occur while creating damping patches, via the respective AUXILIARIES > D.PATCHES function.

Unexpected termination could occur while setting the type of an NVH Time Load to PRESSURE in Loadcase Assistant.

OpenFOAM

Unexpected termination would occur when exporting for OpenFOAM chtMultiRegionFoam, solver cases that contained both normal and light volume representation volumes.

Optimization Tool

ANSA might terminate unexpectedly, pressing the 'Save the DV' file button, in case no DV file Task Item existed.

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

Known issues resolved in EPILYSIS

SOL200

SDISPLACEMENT would not be output in an Optimization Run.

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

Known issues resolved in META

Graphics

Unexpected termination would occur when globally activating the Line Integral Convolution Representation, if second order triangular elements were present in the model.

Read Results

FEMZIP/Abaqus, internal change of local Windows paths to universal was removed for Abaqus .odb and FEMZIP-compressed files. This change could increase the file path beyond the limit of 259 characters (number of characters the Abaqus and FEMZIP libraries can handle in Windows), rendering the file unreadable.

PowerFLOW

Some labels from PowerFLOW and PowerTHERM result files would not be read correctly as results, showing no-value results instead.

NVH Calculators

Modal / FRF Correlation: Unexpected termination could occur in a Modal correlation calculation, in case a file with multiple subcases was provided in the second model, and the modal information was not read from the first subcase.

Modal Response & FRF Assembly: Reading loads from universal file format datablock 58, Field 2 of Record 7, which corresponds to the number of abscissa data values, was erroneously considered as the number of increments in abscissa, resulting in a frequency range with one additional entry.

Flow Paths

Oil flow would not be generated on Ensight models.

File Export

Compression settings for save as U3D were not saved properly in META.defaults.

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 21.1.4 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_v21.1.4"** and are dated as of **July 26, 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.