

June 29, 2018

BETA CAE Systems announces the release of the v18.1.2 of its software suite



About this release

BETA CAE Systems announces the release of the new ANSA/EPILYSIS/META suite v18.1.2.

In this version new features have been added and corrections have been implemented for identified issues.

The most important enhancements and fixes implemented are listed below.

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Enhancements and known issues resolved in ANSA

Enhancements in ANSA

Model Browser

Replace > Part/Subsystem: The mapping of solid properties is now supported while the mapping of solid elements has been further improved.

Safety

New offset options have been introduced for the correct marking of the seat impact area for ECER17.

CAD to ANSA Translators

NX12 files are now supported using the NXOpen libraries.

Known issues resolved in ANSA

General

Utilities > Transform: This function could occasionally lead to corrupted database, when applied on a model that contained volumes.

Model Browser

Connections: After Converting FE to Connections, the contact used by the connection would not appear in the Model Browser as related to the connected Parts.

File > Input, Merge: All connections read would be offset by the maximum current connection ID. This could lead to connections quickly getting huge IDs. Subsequently, once the max ID reached the 2^{31} limit, no additional connections could be created.

FE Representations > NASTRAN CWELD: Duplicate CWELDs could be created upon the realization of such connections when the specified spacing was smaller than the existing element length.

Volume Mesh

Scripting > mesh.VolumesMeshV():

- Invalid argument would lead to unexpected termination.
- Execution in nogui mode could lead to unexpected termination.

Batch Meshing

General: When both connected multi-instantiated parts and frozen mesh existed, "Synchronize representation" or "Batch Mesh" could lead to unexpected termination.

Decks

Output: ANSA would occasionally cease to respond during File > Output of *.gz files in case of insufficient disk space.

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

Enhancements and known issues resolved in META

Enhancements in META

Curves

Support of *CONSTRAINED_SPR2 elements results (Failure, Length, Resultant Moment) when loading from swforc and binout LS-DYNA files.

NVH Calculators

When requesting animations from the FRF Assembly tool, the rigid body components were animated with zero displacements. They are now calculated based on their geometrical characteristics.

Modal Parameter Estimation

A button has been added to collect all poles of last order without having to explicitly pick them with the mouse.

Known issues resolved in META

General

The shortcut "Ctrl + Left/Right Arrows" to switch visibility, could be applied in wrong states.

Curves

Curves from LS-DYNA elout files with solid strain results might not be read correctly.

Performance improvement in Copying - Pasting curves.

Curve Functions

Type Min was incorrectly calculated in case the "Apply on X-range" did not match a curve point.

Project Files

Saving project with states created by User Field Function failed to save all states.

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 18.1.2 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".

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 "user login" 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](#) channel for software distribution details.

What to download

All files required for the installation of this version reside in the folder named "**BETA_CAE_Systems_v18.1.2**" and are dated as of **June 29, 2018**. 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, the.sh installer file residing in the folder with respective platform name, for Linux and MacOS or the respective .msi installer file for Windows, 64bit, have to be downloaded.

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 "old" or in a folder named after the product and version number.