May 22, 2020

BETA CAE Systems announces the release of the v20.1.2 of its software suite

About this release

BETA CAE Systems announces the 2nd bug-fix release of v20.1.x series for ANSA/EPILYSIS/META and KOMVOS.

Apart from fixes in the detected issues, this version also hosts noteworthy enhancements and implementations.

Follows a selection of the most important items:

Contents

Enhancements and known issues resolved in ANSA

Enhancements in ANSA

Shell Mesh

The Optimesh [Topology Result] function now supports the reading of solver files.

Volume Mesh

A new improved algorithm for the connection of Layers on standard and linked Faces has been introduced, offering enhanced quality and robustness.

From Includes to Model Browser Plugin

The execution mechanism of the plugin has been improved to store information for previously migrated models both on model and on include level.

Known issues resolved in ANSA

CAD Import/Export

The IGES output hierarchy tree from CATIA V6 would be empty of geometry, resulting in possible misplacements and/or missing instances.

TOPO

Upon Cross Sections [Cut] functionality execution, unexpected termination could occur when Faces Draw > Cross Hatches was active.

Data Management

DM Caching Mechanism might not take into account addition of attachments on DM items and.

Modular Run Management

Assembly and Loadcase Points could fail to be transformed when loading Subsytems with transformations defined on their adapters, causing Smart Assembly operations to fail.

Connections & Assembly

When reading VIP2 connection files, the Subtype information would not always be imported to the corresponding connection.

NASTRAN

ANSA could unexpectedly terminate upon export of NASTRAN files that contained Contact entities in Windows OS.

Scripting > ANSA_TRANSL

In case of both ANSA_TRANSL and ANSA_TRANSL.py loaded by ANSA, it would not be possible to execute the functions of the betascript ANSA_TRANSL.

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

Known issues resolved in EPILYSIS

SOL200

Malfunctioning cases have been successfully addressed, mostly related to unexpected terminations or unable-to-run processes.

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

Abaqus

The reading performance of .odb files has been significantly enhanced. Coupling sets information reading from the .odb file is now totally omitted when the "Create coupling sets" option is deactivated.

User Toolbars – Optimization > SOL200 Plot

Noteworthy performance enhancements for large .f06 files, as the .f06 file is now read only once unless its contents change.

Known issues resolved in META

Read Results – ACII

The parsing of results from a .csv file could unexpectedly stop when an empty field was encountered.

Read Results – Scalar

META was unable to read fiber orientation tensor results on tetrahedral elements.

Decks – Adams

Unexpected termination could occur when reading ANSA Kinetics results.

Decks – Fe-Fatigue

The columns of CSV files would not be read correctly in case the previous ones contained null results.

Session

Recorded sessions with Advanced Filter operations would not be reproduced correctly if extra colons (": ") were present in the filter (e.g. when searching for entities by name and the name included a colon).

Project Files & METADB

METADB files containing CONM2 elements could not be read correctly by 20.1.1, if saved in versions 20.0.1 - 20.0.3. In addition, METADB files containing CONM2 elements or having plots with plot attributes could not be read correctly by versions 20.0.1 - 20.0.3, if saved in versions 20.1.0 or 20.1.1.

META Viewer

META viewer would not be launched when executed with --rasterizer mesa-llvm since v20.1.0.

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

New Documentation in KOMVOS

Tutorial: Demo Process Built with KOMVOS

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 20.1.2 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" 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_v20.1.2"** and are dated as of **May 22, 2020.** 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.