September 21, 2022

BETA CAE Systems announces the release of the v22.1.4 of its software suite

About this release

We are glad to announce the release of v22.1.4. Offering numerous enhancements and adjustments on recently tracked issues, this version is addressed towards those who have not migrated to the v23.x.x branch.

Follows a selection of the most important items:

Known issues resolved in ANSA
Known issues resolved in EPILYSIS
Known issues resolved in META
Known issues resolved in KOMVOS
Compatibility and Supported Platforms
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Known issues resolved in ANSA

General

Significant performance and memory footprint when Focus-related functionality, such as Near, is applied on solid elements.

The opening an ANSA database with rigid elements, defined on nodes, connecting more than 100000 nodes, has been accelerated and reverted to normal time and performance execution.

Connections & Assembly

The selection of Connectivity entities in Connection Manager list would take excessive time, due to the large number of User Attributes.

Compare

Unexpected termination might occur, when copying mesh between two models via the Apply Mesh function.

Data Management

Opening the Subsystems tab in DM Browser would unreasonably take more time than expected, when more than 1000 Interface

Attributes were referenced by the DM Objects.

IGA

The process Model Browser > DM > Save in DM would result in a corrupted database in case the model contained *ELEMENT_SHELL_NURBS_PATCH keywords.

Decks

Occasionally, the output of LS-DYNA main file through an Includes configuration within Includes Manager would add an empty line after specific keywords, like the *PARAMETERS or *TITLE.

Abaqus NON-STRUCTURAL MASS would wrongly be exported if MASS was zero or blank.

Reference of Radioss /GRSHEL/SHEL/ would be erroneously output, when used by a /SECT.

Scripting

The function utils.DeckInfo() would erroneously print the text "ID of Element with max value" instead of "ID of Element with min value" for CSV format.

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

Known issues resolved in EPILYSIS

SuperElements

Unexpected termination would occur during SuperElement creation, in case of an empty OSET.

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

New Documentation in META

Command Line arguments

The -s -foregr <session_filename > is again a valid syntax for META command line arguments.
In prior versions, this combination would provoke communication problems between META and optimizers that provide a META node in their workflows.

Read Results

META would unexpectedly terminate on Windows OS, while reading .op2 plot results.

Decks

In Pam-Crash, Time History nodal results curves were occasionally not interpreted correctly.

Upon reading geometry from Radioss, in some cases, transformation was not applied on beam elements.

Initial temperature values defined with parameters were not read properly during Abaqus Input.

LS-DYNA Nodal Rigid Bodies were not read from keyword files that use the i10 format.

States & Animation

Backward animation through the Page Up key was not synchronized among multiple active models.

NVH Calculators

In FRF Assembly, creation of large tables via command would unreasonably take excessive time.

In Modal Response, when modal matrices were used in FSI and the viscous damping was taken from the modes' list, time integration would not produce correct results.

Curve Functions

Reading and plotting scalar results from model entities would lead to unexpected termination.

Drag and drop of a 2d plot into the Report Composer would sometimes result in a black image.

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

New Documentation in KOMVOS

Design Variables

Group predictions of 3D results would fail to create a correct META project, containing the prediction.

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 22.1.3 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_v22.1.4"** and are dated as of **September 21, 2022.** 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.