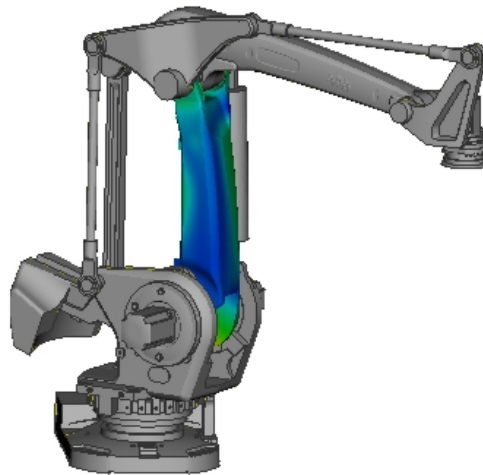*physics on screen*

April 26, 2018

BETA CAE Systems announces the release of the v18.1.1 of its software suite

About this release

BETA CAE Systems announces the release of the version 18.1.1 of its software suite with new tools and capabilities to further augment functionality and facilitate CAE processes.

The most important enhancements implemented are listed below.

Contents

Enhancements in ANSA

General

Nodes participating in the Explode View are now marked with a circle and are enclosed in a transparent sphere.

TRANSLATORS

Reference Sets are now supported in ANSA, offering the ability to filter data according to Reference Sets existing in *.jt model files.

AUXILIARIES>Inverse Forming

If the Workpiece Initial Thickness is left blank, it is automatically calculated based on the Property, or available nodal thickness.

Known issues resolved in ANSA

DECKs

Moving entities from "Out of Include" section to an Include could lead to unexpected termination.

Model Browser

After part replace, the content of Sets would erroneously change from facets to elements.

Shell Mesh

Fill>Holes: Unexpected termination could occur when filling holes on second order elements when reshape option was enabled.

Decks

Unexpected termination would occur in case of databases with composite properties when switching between decks.

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

Enhancements in META

Decks

Support of Abaqus 2018.

Support of FEMFAT fatigue results from *.h3d files.

Curves

Support of Altair Binary Format *.th files.

Toolbars

Occupant Injury Criteria: The Adult and Child Protection Scores, according to the selected Regulation, have been added in the PPTX report. The calculation of the score is supported for front and side Impact, front and rear passengers.

Known issues resolved in META

Handling Entities

ANSA User Attributes were not supported correctly in META.

Curves

Elout history variables were not read correctly from binout files.

Axis

Axis values were not correct in some cases since v18.1.0.

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

New Documentation

- Aerospace Modeling with ANSA and META
- Creation and Management of Superelements with model Browser
- Flex Body Simulation

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 18.1.1 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_v18.1.1"** and are dated as of **April 26, 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.