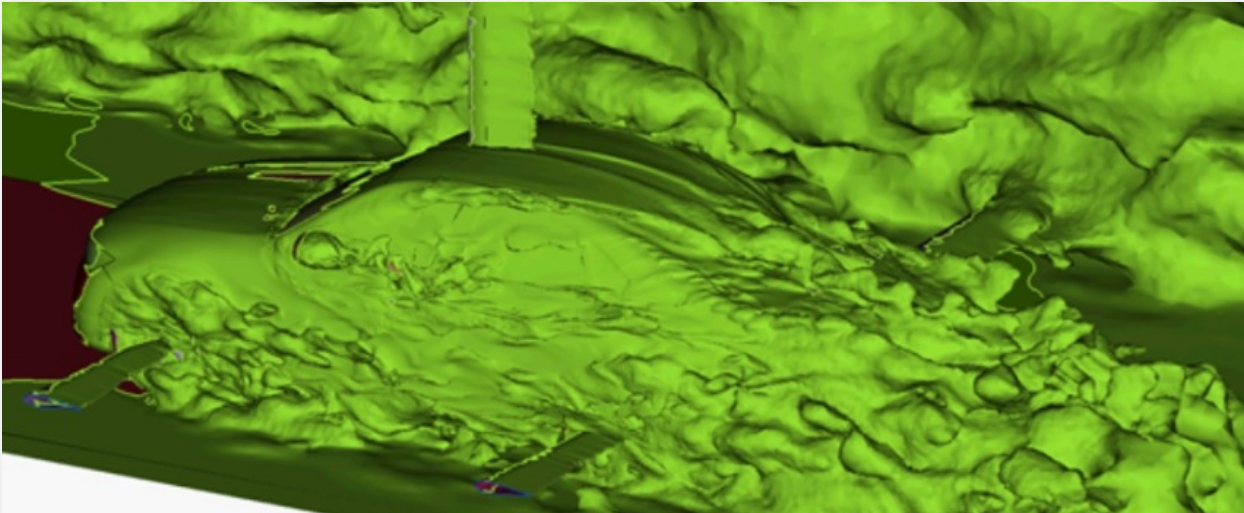


July 19, 2017

BETA CAE Systems announces the release of the v17.1.2 of its software suite



About this release

BETA CAE Systems announces the release of the new ANSA/EPILYSIS/META suite v17.1.2.

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

A new default column "MBContainer" has been added to all Database Browser lists to provide information on the Model Browser Container an entity belongs to. The Model Browser Container can be a Subsystem, a Simulation model, or a Loadcase.

Moreover, the ability to create a report for the selected Parts/Groups has been introduced in the Model Browser window through the *Actions>Create Report* function.

Compare

New capabilities have been added to the SGRAPH functionality to enable the mapping of PIDs and Parts Hierarchy between two structures.

Data Management

The "IsGroup" column has been added in the *Part List* tab of the Product Tree Editor, to facilitate the filtering of groups.

NASTRAN

A new check *Checks>Loadcase* has been introduced in the Header's list, which detects whether a loadcase file has the requested entities or not.

NVH Console

In addition to the new capability to open and edit the "Jobs Manager" window with any other NVHC window, *Bush Sensitivity calculations* support linking of symmetric connectors and DOFs.

LS-DYNA

Materials *MAT_211/*MAT_SPR_JLR, *MAT_215/*MAT_4A_MICROMECH and *MAT_280/*MAT_GLASS are now supported.

Known issues resolved in ANSA

General

The *Utilities>Compress* function would erroneously delete NASTRAN THERMAL related entities or parameters, such as SPOINTS, TEMPDs and nodes belonging to application region.

The *Database Browser>Save List* option would erroneously save all entities of a list of the DBB, instead of only the selected ones.

CAD Import / Export

Translating a CATProduct with *Flatten assemblies* option deactivated might lead to unexpected termination.

Model Browser

In Subsystems and, especially, Model Set-Up Entities ANSA would fail to recognize and hence list SPCs and Forces.

Model Browser

Changing the Type of a User Attribute through the drop-down menu in the respective window could lead to unexpected termination.

Compare

Upon creating of a Comparison Report through the "Compare Tool", the identified differences in the Thickness of parts would not be reported properly.

Connections & Assembly

Connectors in GEBs unexpectedly failed to be realized in case of Assembly Point search pattern, when the Assembly Points were created by Bolts.

FE Representations

Selecting or typing a ROBSCAN pattern in Connection Manager could lead to unexpected termination.

Scripting

Hot Points created by script function *Base.HotPointsWeldSpot()* would not be collected via the *CollectNewModelEntities.report* method.

The *IsolateSolidFlanges()* script function might not work when the first argument was set to 'None'.

Volume Mesh

Erroneous detection of inner volume with *Volumes>Define [Auto-Detect]* function, in certain cases with Layers in exclude or collapse mode.

In certain cases, layers generation could lead to unexpected termination.

NASTRAN

The check *Checks>Penetration [Intersections]* would not identify CWELD elements penetrating shells.

LS-DYNA

The DATABASE_OPTION settings would be written twice (before and after the Includes), if Includes were also written in the output file (inline).

Abaqus

Cases in *AUXILIARIES>CONTACT>Assistant*, where the activation of the *Create Individual Contacts* option in Contacts Wizard could lead to unexpected termination.

PERMAS

Ortho3d MEDINA materials are now read and converted to anisotropic materials with orthotropic properties in PERMAS.

CGNS

The output of models consisting of shell mesh only would lead to erroneous result.

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

Supported Interfaces

Support of Actran modal results from *.op2 files.

Support of PFMODE curve results from OptiStruct *.pch files.

NVH Calculators

Support of FRF components definition from Nastran *.pch files in the FRF Assembly tool.

File Export

It is now possible to export curves in their RMS values.

Toolbars

It is now possible to overlay results of different passengers with the Occupant Injury Criteria tool if the same dummy type is used for the different passengers.

Support of the KNCAP regulation.

Known issues resolved in META

Supported Interfaces

ELGEN keyword of certain element types would not be read correctly from Abaqus input files.

LS-Dyna rbdout and ncfrc time history results would not be read correctly from binout files of latest LS-Dyna versions.

Nastran CWELD elements were not read correctly from *.op2 files of MSC Nastran 2016 & 2017.

Unexpected termination when reading composite results for "All Layers" from Nastran files.

Read Results

Unexpected termination could occur when reading curves from XY PCH format files.

Handling Entities

Shell elements were not displayed on work stations with NVIDIA Quadro K4000 graphics cards, driver: 331.82.

Only one side of top and bottom results was shown when Smooth light was enabled.

Math Operations on Field Data

Unexpected termination when trying to combine results from different results files in Linear Combination tool.

NVH Calculators

Equivalent Radiated Power results from Modal Response tool were not displayed with the selected Unit system.

Bush sensitivities would be calculated incorrectly in case of non-zero bush structural damping.

METADB and Project Files

Zero value Reaction Forces would not be saved in project files and METADBs.

File Export

Unexpected termination when trying to save Energy curves in TABLED format.

Automation

Session files with if else statements would not be executed correctly in certain cases from META v17.1.0 and on.

Toolbars

Occupant Injury Criteria tool was using wrong filters for T4, T12 Accelerations and Acetabulum Forces of THOR-50 dummy.

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 17.1.2 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_v17.1.2**" and are dated as of **July 19, 2017**. 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.