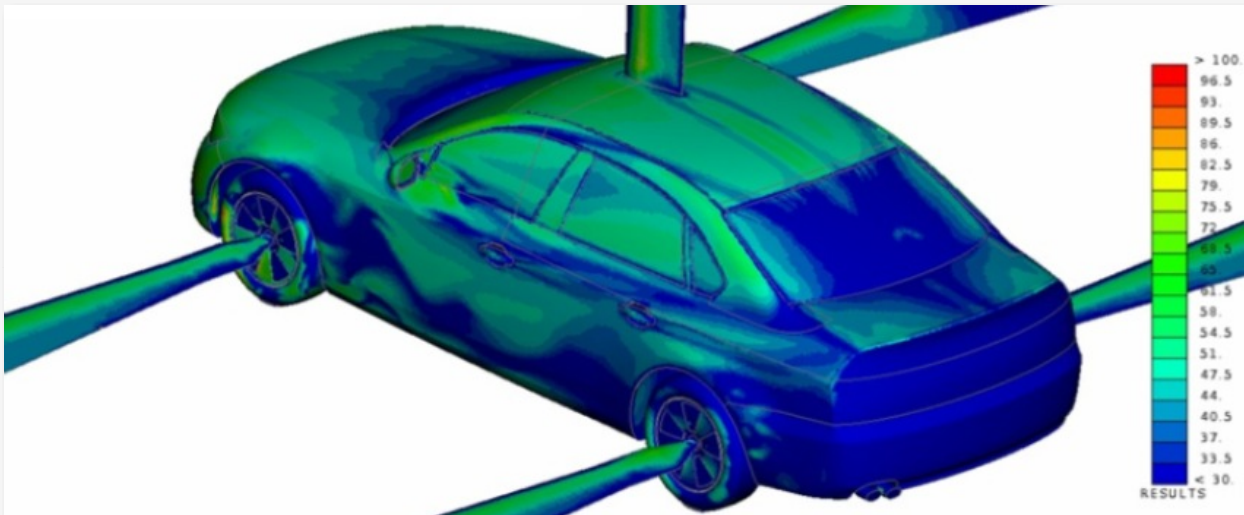March 4, 2016

BETA CAE Systems announces the release of the v16.1.1 of its software suite

About this release

BETA CAE System S.A. announces the release of v16.1.1 of its software suite. This maintenance release focuses on the correction of identified issues.
Users updating to v16.1.1 from v16.0.2 will find that fixes of v16.0.3, not already solved with v16.1.0, are also propagated to v16.1.1.

For further information about fixes on v16.0.2 issues please refer to v16.0.3 release announcement.

The most important additions and fixes implemented in v16.0.3 are listed below.

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Known issues resolved in ANSA

CAD Translators

General: Filenames containing spaces, hyphens, parenthesis, and non-valid characters were not considered valid and would be renamed upon saving or output.

Translate Credits from the NEW_ANSA_CATIA_V5 feature would be consumed, regardless of the used translator.

General

Applying the Transform[COPY] on Faces that belonged to two defined Volumes could cause unexpected termination.

Although appearing as active, ANSA functions would not work whith the Plugin Manager window activated.

Connections & Assembly

Adhesive Faces were split to triangular Faces during output, resulting in the creation of penta elements in subsequent realizations.

"RBE3 diam" value would be ignored upon the calculation of the RBE3 area.

Model Browser

Scripting Relative paths was not supported for User Actions script functions, CadToAnsa() script function, and specific cases of Tree Editor script functions.

Compare

Exporting connections would not work properly, failing to export the requested output file formats.

Images displaying the part's location in the model would be misplaced and erroneously sized.

Topo

In specific cases, applying the Flange function on many areas at the same time would result in unexpected termination.

Scripting: The CollectEntities () function would not return the correct number of CONS.

Shell Mesh

Grids: Applying the RELATIVE function on a picked COORD2 coordinate system could result in unexpected termination.

Elements: Scale Base Length option would not be respected by the Wrap [Variable Length] procedure.

Penetration Check: Inconsistent results and missing errors could appear upon checking in the case of Property Thickness and User Thickness.

Volume Mesh

Structured Mesh: Applying the Map function on models with Hexa Block transition zones could cause unexpected termination.

Solver DESCKs

Blank values (for Inertia or COG) would be ignored during the mass balance operation.

Theta argument of the base.LaminateLayerModify() function was not optional.

In certain cases outputting RBE3 entities for the Optistruct solver file would not perform properly.

NASTRAN

RBE3 entities might lose their WT1 values, after applying mesh editing functions.

Hidden values of A, I1, I2, J might not be updated during conversion of PBAR to PBARL.

THRU and BY values were not supported in DVALi field, in contrast to the tooltip text.

LS-DYNA

ANSA would not support multiple entries of the *CONTROL_MPP_DECOMPOSITION_ARRANGE_PARTS keyword.

The *DEFINE_CURVE_FUNCTION keyword would not be output, if it was nor referenced by another entity.

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

Known issues resolved in META

Supported Interfaces

Abaqus PHILSM results were not read if the results file path contained empty spaces.

The LOCAL command of ANSYS APDL was not fully supported.

Nastran results for Inverse of Displacements were not loaded correctly on MS-Windows workstations.

Curves were not read correctly or at all from certain LS-DYNA elout files.

Unexpected termination when trying to plot curves from Universal Dataset 55 files.

Unexpected termination reading certain JT files.

RadTherm solar and irradiance results were skipped in non-Natural Environment simulations.

General

Incorrect State animation when Generated States existed.

Unexpected termination could occur when adding FACE or HEDRA elements in the Statistics table.

NVH Calculators

Creating ASCII Modal Models, the field 10 name of grids was not output.

Wrong EIGRL keyword was output from the Modal Model Builder tool.

Incorrect results calculated by the FRF Assembly tool from UNV components connected with connectors having Local coordinate systems.

Managing Curve Data

Incorrect Header attributes (Subcase Title and Title/Subtitle/Label) for curves created from .pch files.

Setting logarithmic range on both X and Y axes did not work correctly.

Locking steps and using logarithmic ranges could block META.

Report Composer

Unexpected termination could occur when saving certain .pptx reports.

Variables were not replaced by their values when exporting a report in PDF format.

Toolbars

In the CompositePost toolbar materials were not read correctly from certain .csv files.

In the IIHS toolbar Small Overlap did not work correctly at certain cases.

Scripting

IdentifySomeElements() did not work for RADIOSS Accelerometers.

NodalScalarOfGroup() did not work for group of nodes.

Unexpected termination using several script functions.

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 16.1.1 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".

The support for 32-bit platform has been discontinued for all operating systems.

Documentation

New tutorial: Optimization with DOE

ANSA & META: Updated User's Guides

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 [PublicDir] link will give you access to the public downloads area.
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_v16.1.1"** and are dated as of **March 4, 2016.** 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 μETA 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.