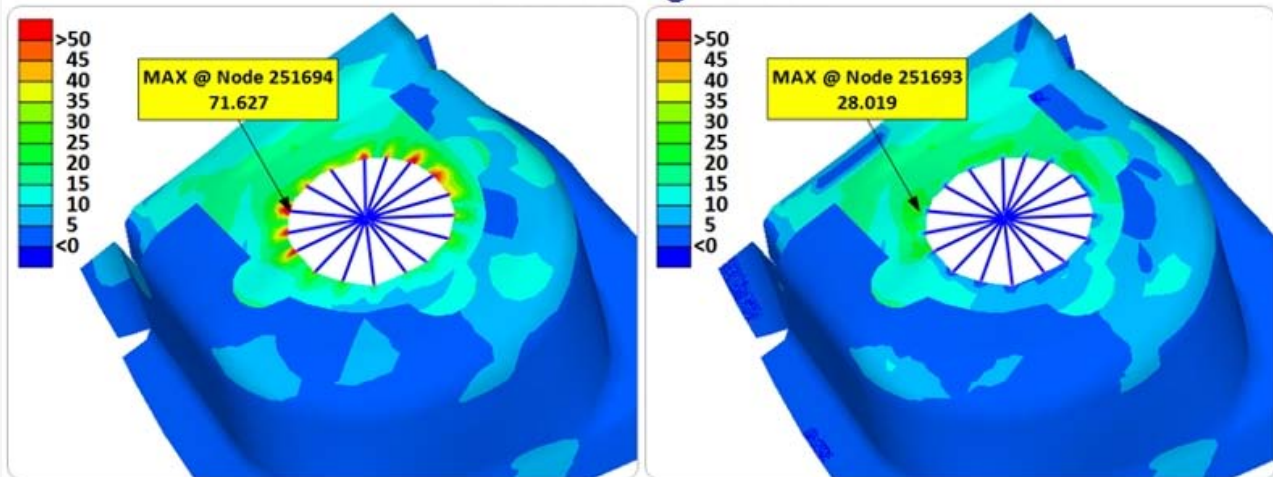


BETA CAE Systems S.A.

announces the release of

ANSA & μ ETA v15.1.1

Exclude Singularities



About this release

BETA CAE System S.A. announces the release of the v15.1.1 of the ANSA & μ ETA pre- and post- processing suite. With improvements and fixes to identified problems, this version further enhances and improves the performance of our latest v15.1x branch. Amongst the improvements and fixes of v15.1.1 the most noticeable are listed below.

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Understanding the Software Release Schedule

The plan

We are committed in delivering improved and enhanced software releases, the soonest possible, in order to meet the requirement of our customers for the continuous improvement of their experience and work. Therefore, we are working in releasing new software versions with code corrections, new software features and enhancements, in regular, frequent intervals.

- A major software version is released every year.
- First point releases, such as v15.1.0, v15.2.0 and so on, with code corrections but also with additional software features and enhancements are released every three months.
- Second point releases, such as v15.2.1, v15.2.2, v15.2.3 mainly with code corrections only upon their parent first point release, are scheduled on a monthly basis.

Each software release is accompanied by a detailed description of the introduced corrections and/or additions so that our customers can decide whether it is critical to implement this release in their environment.

This release

This release of v15.1.1 implements code corrections, to the v15.1.0 release, and the latest pre-existing releases of the 15.0x and 14x branches.



[Known issues resolved in ANSA](#)

[Parts Manager](#)

When a part was unmeshed, its mass would be zero in the Part Manager's attributes.

Replace: Correction in the Sets reapplication on the new part.

Compare

Comparing databases with more than five thousands PLINKs, could cause unexpected termination.

Connections and Assembly

Check: Connections>Maximum dist>By absolute distance option, ignored the defined distance and used instead the default one.

FEMFAT SPOT: Improvement of RIVET beam's Young's modulus calculation to comply with the FEMFAT specifications.

Mesh

The generation of hexahedral layers from quad shell mesh in combination with the collapse mode could create invalid layers.

Elements: Selecting three nodes, that all belonged to polygon elements, to create a tria element could result in unexpected termination.

DECKs

Checks: Tied Contacts check was limited to the Abaqus Deck.

NASTRAN: Any K2GG/M2GG header command referencing multiple matrices might be read erroneously.

PAM-CRASH: Outputting a database containing SETs with names of 80 or more characters, in PAM-CRASH version 2012 or newer, could result in unexpected termination.

ANSYS: Solid-to-solid checks for Property Thickness penetrations might be ignored or not detected correctly.

For more details about the new software features, enhancements and corrections please, refer to the [Release Notes](#) document.



Known issues resolved in μ ETA

LS-DYNA model geometry would not be loaded correctly from the .key file if it contained the keyword INCLUDE_TRANSFORM in more than one references.

Unexpected termination could occur when plotting curves from Abaqus files on MS-Windows workstations, if a user-defined abscissa was specified.

Erros ocured during the Fluent Mean Volume Fraction results reading.

OpenFOAM results on polygon and polyhedral meshes could not be mapped.

Sections forces from STAR-CCM+ *.sim files might not be calculated correctly.

User field function result sets, could not be created, if curves were specified in the calculation expression.

Curves from the glstat variable of LS-DYNA binout files could not be loaded as expected.

Unexpected termination when overlaying a session that created and deleted a report.

Exporting Model Reports could cause unexpected termination.

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.

The .metadb files saved with μ ETA version 15.1.1 are compatible and can be opened by earlier versions of μ ETA.

Support for 32-bit platform has been discontinued for all operating systems except for Windows.



Download

Where to download from

Customers who are served directly by BETA CAE Systems S.A. 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 <http://www.beta-cae.gr>

Contact us if you miss your account details. The [Public] 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 for software distribution details.

What to download

All files required for the installation of this version reside in the folder named "**BETA_CAE_Systems_v15.1.1**" and are dated as of **July 9th, 2014**. 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 following files have to be downloaded:

- the .sh installer file residing in the folder with respective platform name, for Linux and MacOS or the respective .msi installer file for Windows, 32bit or 64bit, and
- the tutorial example files that reside at the top level of the folder of this distribution.
- In addition to the above, optionally, the μ ETA Viewer is available to be downloaded for each supported platform.

The Abaqus libraries required for the post-processing of Abaqus .odb files are included in the installation package and can be optionally unpacked.

Previous software releases can be found in the sub-directory called "old" or in a folder named after the product and version number.



Documentation

Updated Documents

- Updated ANSA / μ ETA Users Guide

Updated tutorials

- ANSA: Pump Batch Meshing for CFD
- ANSA: CFD Model Comparison and Update
- ANSA: Direct morphing.



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