

# **BETA CAE Systems S.A.**

announces the release of  
**ANSA & μETA v14.2.4**

## About this release

BETA CAE System S.A. announces the release of v14.2.4 of ANSA & μETA pre- and post- processing suite.

This maintenance release focuses on the correction of identified issues for the ANSA & μETA 14.2x branch and is addressed to those who wish to continue to use the v14.2x branch, with its issues resolved, instead of upgrading to v15x.

Those corrections have been also propagated to the v15x branch.

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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 v14.1.0, v14.2.0 and so on, with code corrections but also with additional software features and enhancements are released every three months.

- Second point releases, such as v14.2.1, v14.2.2, v14.2.3 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 v14.2.4 implements code corrections, to the v14.2.3 release. It belongs to the v14x branch and is not compatible to v15x branch.



## Known issues resolved in ANSA

### General

When using ALL for LOCKED entities, the mouse cursor pointed in the middle of the entities list, making the quick selection inconvenient.

### Batch Meshing

Excessive nodes would be assigned on curvatures resulting in triangular shell elements concentration.

The performance issue of the meshing process when the Features treatment option "Sharpen" was applied has been fixed.

Circular shaped holes, sometimes, would not be recognized to be treated as such.

### Connections and Assembly

Triangular elements would be included on OVERLAP-CLOSED zones.

### Shell Mesh

When using Wrap>Select the option "Fill Holes with diameter less than" was not applied.

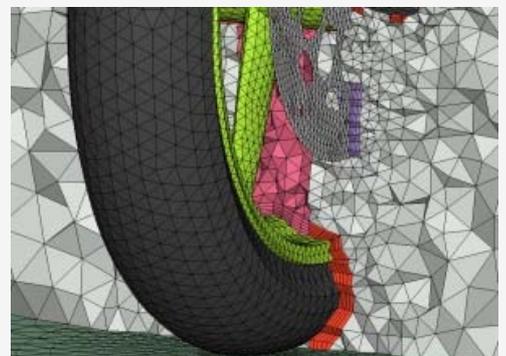
Applying the Spacing>Manual function with the Remesh option enabled could lead to unexpected termination.

Information message was not displayed when remeshing macros failed.

Shell Mesh reconstruction affecting attached solids in combination with "Distance from Geometry" quality criterion and Hidden view mode could cause unexpected exit.

### Solver Decks

When Enabling / disabling the values through the ANSA defaults file, the D.INFO options would not be updated accordingly.



Exporting in "Short Format" was not possible for ANSA parts with long Module IDs.

When NASTRAN Header Sets were not in an Include file they would not be exported.

NASTRAN Sets with ID ranges of entities were not exported using the THRU option. This is now feasible using the option "Create Ranges in Sets" at the Output Parameters>Miscellaneous tab.

PAM-CRASH: Incorrect added mass report could emerge due to erroneous mass scaling calculation.

PAM-CRASH: Erroneous "Time Step" calculation for Tetrahedral elements.

Importing PAM-CRASH PART\_BEAM with tapered beam definition could lead to unexpected termination.

## Scripting

The function SetANSAdefaultsValues did not update the D.INFO card.

The performance issue when modifying the fields of PAM-CRASH PART\_PLINK has been fixed.

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



## Known issues resolved in μETA

### New Annotations Enhancement

The cross section area of Bar and Beam elements is now available in the PIDs list while the visualization of their actual cross section is supported.

Transparency can now be applied on specific elements.

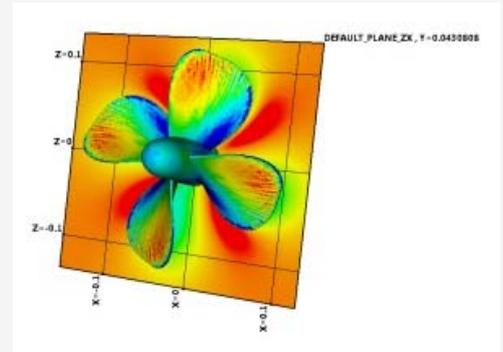
A new read option has been added for averaging the corner values of an element with the corner values of adjacent elements based on a user-defined threshold angle.

### Managing Curve Data

In certain cases, curves from Nastran XY punch format would not be plotted correctly.

### Variables

The defaults file command: variable {name} {value} would not work in certain cases.



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



## Compatibility

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 μETA version 14.2.4 are compatible and can be opened by earlier versions of μETA.



## 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\_v14.2.4**" and are dated as of **March 26<sup>th</sup>, 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, 32bit or 64bit 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 μETA 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.

