BETA CAE Systems S.A.
announces the v14.2.3 release of the
ANSA & μETA pre- & post-processing suite

Introduction

BETA CAE System S.A. announces the release of v14.2.3 of ANSA / μETA pre- and post- processing suite.
This release focuses on the correction of identified issues and precedes the release of our major version 15.0.0, which will offer new advanced enhancements and solutions for your CAE processes.
The most noteworthy issues resolved are listed by category below.

Contents

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. The major version v14.0.0 was made available at the beginning of the 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, 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 v14.2.3 implements code corrections, and enhancements, to the v14.2.2 release.

Known Issues Resolved in ANSA

CAD Translations:

- The User Attributes of an incoming database would not be read when using ANSA_TRANSL.

Topo:

- Copied point coordinates would not be successfully pasted in Num.Input.

Batch Meshing:

- When a model included problematic surfaces, running a meshing scenario would lead to termination.

Shell Mesh:

- The ALIGN and PROJECT functions achieve now better accuracy by making projections on the geometry and not on the attached shells.

Volume mesh:

- Applying SMOOTH locally would lead to unexpected termination.
- 2nd order elements using TETRA RAPID can now be generated from linked boundary faces.

Connections & Assembly:

- Realizing connection points that referenced missing Multi-Instantiated parts would lead to termination.
- The Connection Manager launching delay has been fixed.
- When the option "Do not reconstruct" was enabled, realizing the RBE2 representation would lead to termination.

LS-DYNA solver deck:

- The options SFA and OFFA of *DEFINE_TABLE were wrongly exported in version 971R65/6.

and more...

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

Known Issues Resolved in μETA

Managing Curve Data:

- In the 2D Plot tool, after plotting certain curves the Y-axis minimum would be a small, but non-zero, value.

File Exporting:

- In certain cases, sessions and scripts would not be saved correctly in .metadb files.

Automation:

- Using the Create2DPlotWindow() script function to retrieve curves from .op2 files would lead to unexpected termination.

Abaqus Deck:

- For Abaqus result files, the selection of the surface for which results should be loaded was problematic.

STAR-CCM+ Deck:

- Model geometry read from Star-CCM+ .sim files might not be displayed correctly.

PERMAS Decks:

- PERMAS .uci files would not be read if there was an empty line between the "NEW" and "INPUT" lines.

and more...

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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 14.2.3 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_v14.2.3"** and are dated as of **December 24th, 2013.** 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 amd 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.

Documentation

New Documents

- New tutorial for ANSA / μETA for NVH: Modal Model Builder (MMB).

Tutorial files availability

A TUTORIALS folder in the public area has been added, including the tutorial documentation and the necessary demo files, to facilitate the tracking of the new and the updated tutorials. This folder includes the complete package of the tutorials and a package with the updated ones only.