BETA CAE Systems S.A.
announces the v14.2.1 release of the
ANSA & µETA pre- & post-processing suite

Introduction

Consistant with our commitment for timely improvement of our code, BETA CAE System S.A. announces the release of v14.2.1 of ANSA & µETA pre- and post- processing suite.
This maintenance release focuses on the correction of identified issues.
The most notable 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 release every three months.
- Second point releases, such as v14.1.1, v14.1.2, v14.1.3, 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 v14.2.1 implements code corrections to the v14.2.0 release.

Known Issues Resolved in ANSA

General:

- Some colors in the color editor's list (e.g. in properties) were missing. Colors with names that included numbers were not available.

Connections:

- Seam welds: The zone of the T-JOINT, OVERLAP, LASER representations was created by offsetting edges instead of nodes.

Surface Mesh Reconstruct/ Reshape :

- Mid nodes of 2nd order elements could be wrongly placed if the reconstruction function was applied on unchecked faces.
- Pause/ Break could lead to unexpected termination.

Volume Mesh:

- Occasionally the neighboring faces prevented the growing of layers.
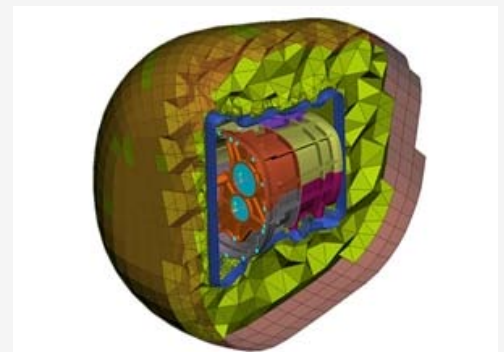
Optimization:

- The visualization of thickness change using the Simulate-DOE in Task Manager was not possible.

Hexablock:

- When meshing unmeshed macros, the "Sharp edges" check was applied on all the visible boxes.

DECK Abaqus:

- ANALYTICAL SURFACES with blank fields in segment definitions resulted in wrong shapes. Zero (0) becomes now the default value

DECK LS-DYNA:

  - *RIGIDWALL import could lead to unexpected termination in Windows OS.

DECK Pam Crash:

  - Occasionally spring elements did not respect the contact cards' hcont and as a result no penetration errors were reported.

DECK Medina:

  - The height of the Adhesive lines would be set as width and diameter.

and more...

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

Extensions & Known Issues Resolved in µETA

User Toolbars Extension:

  - The map Results user toolbar can now be used to map results within the same model.

Supported Solvers:

  - Results from Topology Optimization analyses in *.des file format were not read by µETA.
  - Reading Pam-Crash .DSY files with certain types of spring elements would lead to unexpected termination.
  - When reading Permas results files, wrong centroid values were calculated from the corner results of shell elements.
  - Certain STAR-CCM+ *.sim files would not be read by µETA.
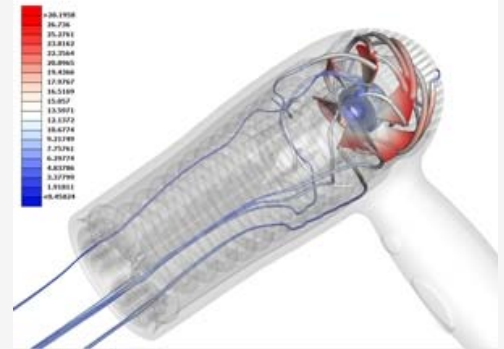
NVH:

  - The format of the DMIG coupling file, output by µETA, was not compatible with Nastran.
  - In the Modal response and FRF Assembly tools, creating 3D Displacements could lead to unexpected termination.

2D Plot:

  - Magnitude curves were not created from Permas results.
  - The command to reserve curve Ids did not work in some cases.

MetaDB Translator:

  - The MetaDB Translator did not work correctly for ANSYS results.

and more...

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

BETA CAE Systems in co-operation with **NVIDIA**, tested more **graphics hardware and drivers** for this ANSA & µETA version.
ANSA & µETA v14.2.1 was also tested and certified for the following configurations:

Linux 64bit

hardware	driver
Quadro K4000	319.32, 319.49
Quadro K5000	319.32, 319.49
Quadro 5000	319.32, 319.49

Windows 64bit

hardware	driver
Quadro 4000	320.00, 320.78
Quadro 2000	320.00, 320.78
Quadro K4000	320.00, 320.78

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_v14.2.1"** and are dated as of **October 7th, 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

Updated Documents

- μETA Users Guide
- ANSA Direct Morphing tutorial

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.