

# Release Notes



CDH/VAO Software  
Version 4.2r21

October 2009



All the features described in these Release Notes are supported for VAO products:  
VAO4.2r21 (MATLAB version, Linux x86\_64),  
VAO4.2r21 (MATLAB version, Windows XP 64bit) and  
VAO4.2r21 (Compiler version, Linux x86\_64).

#### **Development Environment for VAO4.2r21 (MATLAB version, Linux x86\_64):**

- Matlab Version: 7.5.0.338 (R2007b)
- Operating System: CentOS release 4.4, Kernel: 2.6.9-42.EL for Linux

#### **Development Environment for VAO4.2r21 (MATLAB version, Windows XP 64bit):**

- Matlab Version: 7.5.0.338 (R2007b)
- Operating System: Microsoft Windows XP Version 5.2 for Windows

#### **Development Environment for VAO4.2r21 (Compiler version, Linux x86\_64):**

- Matlab Version: not required
- Operating System: CentOS release 5.3, Kernel: 2.6.18-128.el5 for Linux

#### **Modification and Improvement in VAO4.2r21:**

- Matlab Multithreading available
- AMR-method for Frequency Responses Calculation and Panel Participation Frequency Responses has been improved for shorter calculation time.
- Two output formats of universal file from VAO:
  - I. complex, single precision, even spacing format and
  - II . complex, single precision, uneven spacing format

If the abscissa spacing is even, then the universal file is generated with even spacing format (format I), otherwise the file will be output using the uneven spacing format (format II).

- Support for all coordinate system types (rectangular, cylindrical, and spherical)
- New feature in Vaoviewer: Options->Save Animation Settings  
By new-start, all saved animation settings will be loaded.
- Bug by license-checking has been fixed for the case when one server is down.

- Bug by generating correction matrices has been fixed for reduced output for structural eigenvector data
- Bug by running "PPF (VAO-modc)" has been fixed for reduced output for structural eigenvector data
- Bug in Submodel-Bush with local coordinate system has been fixed

### **Limitation in VAO4.2r21 Compiler-Version (Non-MATLAB Version):**

- Submodel 'absorption' not supported
- Feature 'Matlab Interrupt' not supported
- Feature 'Variation of FRF with m-file Input' not supported
- Feature 'Transient variation of UO' not supported
- Feature 'Transient variation of CO' not supported
- Feature 'Cost function in optimisation' not supported

Please note: User can run optimisation without cost function.