

Release Notes



Revision 086 of AMLS 5.2 / FastFRS 2.2

January 2021



CAUTION: starting from AMLS 5.2 the new FlexIm daemon v11.16 and an updated AMLS 5.2 license file are required. The updated daemon and license file are backward compatible with AMLS 5.1. Please see the installation manual for detailed instructions.

CDH/AMLS - Enhancements version 5.2.r086 compared to 5.2.r063:

AMLS

- Improvements in accuracy and repeatability of results for frequency dependent elements (mounts).
- Several smaller performance enhancements and bug-fixes
- Updated user guide for applications of frequency dependent CAABSF elements

CDH/FastFRS - Enhancements version 2.2.r086 compared to 2.2.r063:

FastFRS

- Bug fix for FastFRS error “ran out of file” (occurred in very rare cases)
- Enabled support for ODS request in the Step 2 run using FRF-substructuring. FastFRS allows output for modal shape functions with more rows than the number of modes calculated by AMLS. In this case, a warning message is issued in log file

`Warning: The number of rows for the modal shape functions is greater than the number of modes that AMLS calculated. FastFRS_ODS will proceed by truncating the modal shape functions down to the number of modes calculated by AMLS`

- Minor bug-fixes and smaller performance enhancements
- Update of FastFRS user guide

CDH/AMLS 5.1 and CDH/FastFRS 2.1 legacy versions

With this release also an update for the previous AMLS 5.1 and FastFRS 2.1 series is provided.



AMLS 5.1.r354 / FFRS 2.1r354 compared to AMLS 5.1.r350 / FFRS 2.1r350

- Enhancements for frequency response simulation with frequency dependent elements
- Minor bug-fixes and smaller performance enhancements
- Bug fix for FastFRS error “ran out of file” (occurred in very rare cases)

Nastran Delivery Data Bases (DDB)

In this release the DDB for the following versions of Nastran will be available:

MSC: 2014.1, 2016, 2017, 2018, 2019, 2019FP1, 2020SP1, 2021.0
 NX/SC: 11, 12, 2019.2, 2020.1, 2020.2

As of the current DDB release, AMLS_20172 and AMLS_20182 can be used for all MSC-Nastran 2017 and 2018 sub-versions, respectively.

CAUTION: As of 2021 the DDB releases will no longer support MSC 2014 by default.

For extended long-term support of an older DDB version, please contact: support@cdh-ag.com. Please note that every new release of the AMLS DDBs is stamped with the creation date, which can be seen in the f06 file:

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*****
*****
**
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**          SUPPORT: SUPPORT@CDH-AG.COM                   **
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The following items have been updated in both MSC and NX/SC DDBs.

- Implemented support for MSC-Nastran 2021.0 and NX/SimCenter-Nastran 2020.2
- Enabled support for MSC Nastran parameter MDK4OPT for models that have direct matrix input of K2GG in solution 111

- Enhanced support for ODS requests with ESE for output in op2 file
- Bug fix for ODS output in op2 file when the same frequency is requested in multiple subcases
- Fixed error in DDB for frequency dependent elements used in conjunction with FRF-substructuring
- Bug fix zero-valued stress output in punch files
- Added option to compute residual vectors for fluid-only simulations using specification of RVDOF/RVDOF1 at the fluid loading grids. Available for NX-Nastran >=2019.2.
- Enhanced support for cases with only SDISP output requests. This applies to both MSC and NX Nastran.
- Improved support for eigenvector output using ANALYSIS=MODES in a modal frequency response run (SOL111).

In case of further questions please contact: support@cdh-ag.com

End of Release Notes

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