

# Release Notes



**Revision 122 of AMLS 5.2 / FastFRS 2.2**

August 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.

**CAUTION: End of support warnings**

- This is the last AMLS release that officially supports the RHEL/CentOS 6.x operating system by default.
- This is the last AMLS delivery database release that officially supports MSC-Nastran 2016 and NX-Nastran 11 by default.

**CDH/AMLS - Enhancements version 5.2.r122 compared to 5.2.r086**

**AMLS**

- The AMLS scripts have been changed to override a non-default setting of KMP\_AFFINITY for both AMLS and FastFRS.
- Several smaller performance enhancements and bug-fixes

**CDH/FastFRS - Enhancements version 2.2.r122 compared to 2.2.r086:**

**FastFRS**

- New parameter CSVEIGV to export eigenvalue, eigenfrequency, modal mass, modal stiffness and modal damping information of structure and fluid modes to csv files “modal\_info\_struct.csv” and “modal\_info\_fluid.csv”.

Usage:

**PARAM, CSVEIGV, [yes, no]      default is no**

- Minor bug-fixes and smaller performance enhancements
- Improved usage of the CDH/FRF-substructuring application
- Update of FastFRS user guide



## Nastran Delivery Data Bases (DDB)

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

MSC: 2016, 2017, 2018, 2019, 2019FP1, 2020SP1, 2021.0  
 2021.1, 2021.2  
 NX / SC: 11, 12, 2019.2, 2020.1, 2020.2, 2021.1

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: This is the last DDB release that officially supports MSC 2016 and NX 11 by default.*

For extended long-term support of an older DDB version, please contact: [support@cdh-ag.com](mailto: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:

```

*****
*****
**
**          CDH/AMLS AND CDH/FASTFRS DMAP PROGRAM          **
**          COPYRIGHT 2007                                **
** THIS DMAP PROGRAM HAS BEEN DEVELOPED BY CDH AG          **
**          ALL RIGHTS RESERVED.                          **
**          CREATION DATE: 2021-08-15                     **
**          SUPPORT: SUPPORT@CDH-AG.COM                   **
**
*****
*****
    
```

The following items have been updated in both MSC and NX/SC DDBs.

- Implemented support for MSC-Nastran 2021.0, 2021.1, 2021.2 and NX/SimCenter-Nastran 2021.1
- Usage of the CDH/FRF-substructuring application has changed to USET to define the interfacing and response grids. The new configuration method is user friendlier and flexible to divide the whole model to FRF substructure(s) and residual structure. The main changes are
  - (1) USET, U4 is used in the transfer function run (step 1) for all response and interfacing grids.

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- (2) USET, U3 is used in the response run (step 2) for response grids only. Extra grounded CELAS2 required for step 2 in the previous release should not be used anymore.
- (3) USET U4 may also be used in the response run (step 2). In this case, a new set of interfacing grids may be defined and a new set of transfer functions are created and output to a OP4 file.
- FRF-substructuring is able to output OP4 files for the external CDH/TPA software to further streamline the transfer path analysis process.
  - Enhanced support for ODS requests with STRESS for output in op2 file. NX-Nastran needs version  $\geq 2020.2$ .
  - Enhanced support for simulations with only SDISP output requests. This applies to both MSC and NX Nastran.

In case of further questions please contact: [support@cdh-ag.com](mailto:support@cdh-ag.com)

End of Release Notes

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