

# Release Note



**Revision 050 of AMLS 5.2 / FastFRS 2.2**

February 6<sup>th</sup>, 2020

## Enhancements of CDH/AMLS version 5.2.r050 compared to 5.1.r297:

### AMLS

- Update of Flexlm daemons to latest version 11.16.5.0 to avoid an identified vulnerability in Flexlm.  
**CAUTION: AMLS 5.2 only runs with the updated Flexlm daemon v11.16 and an updated AMLS 5.2 license file.**  
The updated daemon and license file are backward compatible with AMLS 5.1.
- Performance update due to new Intel compiler and MKL 2019 (e.g. support of Intel AVX512 instruction set)
- Improvements in AMLS phase 3 performance, including improved parallelism and memory bandwidth requirements
- Introduction of internal checksum verification of the distribution
- Improved output to the user in \*.log files, including more detailed license checkout reporting
- Update of AMLS user guide
- Several smaller performance enhancements and bug-fixes

## Enhancements of CDH/FastFRS version 2.2.r050 compared to 2.1.r297:

### FastFRS

- Performance update due to new Intel compiler and MKL 2019 (e.g. support of Intel AVX512 instruction set)
- Improvements in FastFRS performance for machines with more than 24 cores
- Update of FastFRS user guide
- Minor bug-fixes



## MSC and NX/SC 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 and 2019FP1  
 NX / SC: 10, 11, 12 and 2019.2

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: Future DDB releases will no longer support MSC 2014 and NX 10 by default.

In case there is a special need for an older DDB version, please contact: [support@cdh-ag.com](mailto:support@cdh-ag.com). Please note that every new release of AMLS DDBs is stamped with the creation date, which can be seen in the f06 files. So for this version the following can be found in the f06 file:

```

*****
*****
**
**
**          COPYRIGHT 2007          **
**   THIS DMAP PROGRAM HAS BEEN DEVELOPED BY CDH AG   **
**          ALL RIGHTS RESERVED.          **
**          CREATION DATE: 2020-02-02          **
**
*****
*****
    
```

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

- Fixed problems in NX11, NX12 and NX2019.2 DDBs for missing Nastran datablock PVT0 in OP2 files.
- Fluid residual vectors will be automatically calculated for fluid loads in MSC-Nastran. For NX/SC-Nastran, RVDOF card is required to activate the computation of fluid residual vectors.
- Previously, if PARAM, FFRS, YES was set in SOL103, it occupied a FastFRS license. This error has been corrected.
- Resolved performance issue for models with B2PP input matrices
- Resolved subcase ID issue for ESE op2 output in combination with the FastFRS-ODS feature (affects MSC-Nastran 2018+).



For further questions contact: [support@cdh-ag.com](mailto:support@cdh-ag.com)

End of Release Note

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