



**Release Version 3.4**

**Release Notes**

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**April 2014**



## CDH/OPTRAN Version 3.4 Release Note

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The following new features and enhancements have been added for the CDH/OPTRAN V3.4 release:

- 1) A “plot config universal” has been created where one can set parameters for all gnuplots made during a run. Examples of such universal choices for gnuplot are line width, line color, line font. See the CDH/OPTRAN V3.4 Usage Manual for a complete description.
- 2) The limitation in the number of grids defined in a set has been removed in CDH/OPTRAN V3.4.
- 3) The strategy used by CDH/OPTRAN to use AMLS to reduce the large coupling and panel matrices is not efficient in AMLS5.0+ as it takes too much memory for certain classes of problems. For this class of problems, one must reduce coupling, panel and gppf related matrices to modal coordinates independent of AMLS and Nastran and this can be triggered with PARAM,ROA,YES. The default is NO. The ROA parameter can be defined in Optran command line and as well as in the file CDHPOPTRAN.defaults located in the delivery directory.
- 4) Equivalent Radiated Energy (ERP) calculations can now be performed using CDH/OPTRAN. The ERP panels are specified using the bulk data ERPPNL entry. ERP computation in Optran is currently supported only in combination with MSC.Nastran. For a detailed description of the ERP feature, please refer to the CDH/OPTRAN V3.4 user manual.