

1.2 New Features of CadnaA 4.4

The list of new features offered by **CadnaA**, release 4.4, is subdivided into the following sections:

- Calculation/Configuration
 - **CadnaA-Objects**
 - Further New Features/Miscellaneous
 - Import/Export
 - **CadnaA-Options**
 - Bug Fixing
-
- new industry standard: Nord 2000
 - new industry standard: NMPB08-Industry
 - new/updated railway standard: Schall03 (200X) has been updated based on the revised draft dated April 2013.
 - new railway standard: NMPB08-Fer
 - new aircraft noise standard: INM 7.0 & ECAC 3rd edition (for details ask for supplementary information)
 - CRN (UK): new railway classes added (DEFRA-report 2007 /79/).
-
- air route: new attribute ARTI (e.g. applicable to color approach and departure routes differently (ARTI = 1 or 0))
 - point/line/area sources: new attribute DIR_ANGLE enabling to set the direction of the directivity vector towards the north (=0 degrees to true North)
 - 3D symbols and 3D Symbol Library available (extension of the object type „Symbol“)

Calculation|
Configuration

CadnaA-Objects

Further New Features

- display of the 3D-Special view as a stereo image on external 3D-TV sets or monitors (also showing 3D symbols)
- dynamic symbol bar: The symbols displayed on the symbol bar are now editable (menu **Options|Edit Symbol Bar**)
- new keyword (#SetObjAtt, CalcConf, attribute name, value): sets attribute value in the calculation configuration
- In front of the menu item **Tables|Group** a mark is displayed when one group exists at least (also when defined via the ObjectTree).
- new command on the menu **Tables** menu, **Miscellaneous|Open INI-File** to open the INI-file presently used
- New command **Check for updates** on the **Help** menu checks via Internet for newer update with respect to the currently installed **CadnaA** version and configuration (standards/guidelines and noise types).

Miscellaneous

- option „acoustical Transparency“ with PLA-sources: Non-transparent buildings, barriers, or terrain contours in ray path set the transparency to zero.

Import

- Import of bitmaps from GoogleMaps (as an alternative to the import from GoogleEarth)
- Import of ESRI ASCII Grids (via **Grid|Open**): imports now also from ArcView Binary Files (*.hdr, *.flt)
- Import of railway classes for NMPB08-Fer (XML-Import)

Export

- Export ArcView Grid (via **File|Export**): exports now also to ArcView binary files (*.hdr, *.flt)

- option FLG: INM 7.0 & ECAC 3rd edition implemented
- options X & XL: Lua Scripting Language enables to automate tasks and work flows.
- option APL: Inserting emission time series via the clipboard using Copy&Paste now also available for all other source types (not just for „Road“)
- option APL: updated to AUSTAL2000-release 2.5.1

CadnaA-Options

1

- CRTN: Low Traffic Correction also applied for $m < 50$ veh/h (same correction as for $m = 50$ veh/h)
- roads receive two lanes with road width > 0 m already, just with FBABST=0 m they will have a single lane (can be controlled via the local text block OPT_OLD_CALC, text = STR_FBABST_X143)
- Nordic Prediction Model 1996, Railway: calculation of screening effect corrected

Bug Fixing

