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)

- 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“)
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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

• 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
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