1.2 New Features of CadnaA 2017

The list of new features offered by CadnaA 2017 is subdivided into the following sections:

- Calculation/Configuration
- CadnaA-Objects
- Further New Features
- Miscellaneous
- Import/Export
- CadnaA-Options
- Bug Fixing

- Grid calculation now possible for all or selectable variants (default: just for the current variant)
- Grid spacing and grid appearance selectable per variant
- Road CNOSSOS-EU: vehicle classes and road surfaces editable
- Railway CNOSSOS-EU: extended settings for railway classes (local/global library)
- Road STL86: option „Calc Propagation acc. to RLS-90“ off by default
- Road/railway STL86/Semibel: new option „Calculation of negative Screening according to ISO 9613“
- Point/line/area sources: additional type of directivity for elements available (acc. to OEAL supplement 2001)
- Object „Symbol“: symbol type „Light Source“ selectable (with geometry + radius)
- Library Symbol 3D: "Anchor Point Offset“ and „Animation“ possible
Further New Features

- redesigned dialog **Plot-Designer**, now with menus, extended symbol bar and new features: designing multi-page printouts in a project, new freely positionable container, new command „Create Table“

- object appearance (**Options** menu): auxiliary polygon not shown in 3D-Special by default

- 3D Special (**Display** menu): new commands „Reload objects only“ and „Reload DTM and objects“

- 3D Special (**Display|Properties** dialog): new options „Terrain Height Palette“ and „Terrain Height color gradient“

- 3D Special (**Display|Properties** dialog): now Skybox (background) available, settings are saved in a local text block

- grid lines and areas of equal sound level are editable via **Options|Appearance** menu: enabling assigning text or level to grid lines and areas, enabling hatching for grid areas (e.g. for pure B&W output/print)

Miscellaneous

- railway Schall03 (2014): new attribute Cnn_NAXLE for number of axles, with nn=01..13

- railway FTA/FRA: attribute Cnn_NAXLE can also be used to set FTA throttle setting

Import/Export

- import of ASCII spectra available (for spectrum types: sound levels, sound reductions and absorptions)

- import of object geometries from OpenStreetMap XML (*.osm) available

- import of object geometries from SketchUp 2015 (*.skp) available

- export of SketchUp material (*.skm) from CadnaA for use in SketchUp
• option X/XL: new and extended LUA commands (e.g. for PlotDesigner, limits, partial levels, variants, building noise map, LUA events)

• option FLG: evaluation parameters NATd/e/n now also available for engine test runs (to enable previous setting use text azb08_twpl_x155 in text block OPT_OLD_CALC)

• option FLG: engine test runs for AzB08 calculated according to Federal Specification (Germany) 566/1/08: stages 3 & 4 now using approach datasets (to enable previous setting, see indent above)

• option FLG: new option „Reverse Thrust“ for air routes (in conjunction with INM, ECAC3, CNOSSOS-EU)

• CNOSSOS-Road: gradient correction corrected (3 dB error with 2 lanes)

• CNOSSOS-Railway: directivity corrected (vector pointing forwards was in wrong direction)

• HJ4.2-Industry: also in case of negative path difference: Abar>=0 dB