

## 1.2 New Features of CadnaA 2017

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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
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- grid calculation now possible for all or selectable variants (default: just for the current variant) **Calculation | Configuration**
  - 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“
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- point/line/area sources: additional type of directivity for elements available (acc. to OEAL supplement 2001) **CadnaA-Objects**
  - 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:  $A_{bar} \geq 0$  dB

## CadnaA-Options

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## Bug Fixing