

New Features of CadnaA Version 2019 MR1

The list of new features offered by **CadnaA**, version 2019 MR 1, is subdivided into the following sections:

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

Calculation | Configuration

- SonROAD18 (Swiss): new converter for traffic figures
- SonROAD18 (Swiss) now using propagation accord. to ISO 9613-2
- CNOSSOS-EU: ground absorption in the source-region Gs may be specified by a string variable at each source (e.g. CNOSSOS_GS=0.7)
- NMPB08 (Road, France): new updated road types
- Nordic 96-Road: calculation of L_{Amax} for n-th vehicle
- Nordic 96-Road: new option “hb interpreted as source height” on/off
- Nordic 96-Rail: new train types (BM 71, BM 74/75)

CadnaA-Objects

- barrier: now with cylindrical cantilever (just for 3D view, calculation as with screening edge of a plane cantilever)
- building noise map & facade points (**Options | Building Noise Map** dialog): new options “Height is following terrain” and “Lower Receiver max. 20 cm below eave”
- optimisable source: now enabling selection of a 2D directivity for a reference point

Further New Features

- new local and global library **Directivity** (**Tables** menu)
- new types of directivity: rotationally symmetrical (as before), 3D directivity and 2D directivity (in angular steps 5/10/15°, in octaves or third-octaves)

Miscellaneous

- dialog **Options|Appearance**: new option „Overlay Display if Iso-Lines” for object type „Grid: Area”, enables the labeling of iso-lines while displaying iso-areas
- dialog **Options|Appearance**: For lines and fillings a transparency (%) can be specified (with type “Cartographic”, not for type “Simple”).
- Building Evaluation + Facade Points (dialog **Options|Appearance**): 2D appearance settings for angle (°) and reference (Y-Axis, North, Paper)
- object tables: When selecting the „Delete” command from the table’s context menu while holding down the CTRL-key all table lines are deleted – after safety prompt.
- local text block CNABATCH (for batch calculations): The coding CALC_RASTER=2 to calculate all variants now also applies with PCSP calculations.
- new dialog **Proxy Server Settings (Options menu)**: offering various settings for web access via a proxy server

Import/Export

- import filter “Sketchup 2015”: Layer and group designation are saved as string variables in the memo-window.
- CLF import (common loudspeaker format) via **Directivity** dialog into the local or global library **Directivity** (*.clf1, *.clf2)
- bitmap import via WMS: access to WMS server now offering authentication (per user name and password)
- bitmap import from Google Maps, Bing Maps or OSM: URL of a map section can be copied via the clipboard transforming the bitmap according to the selected coordinate system
- options for Google Maps import: default now „Use Bitmap Dimensions“

CadnaA-Options

- options X & XL: new Lua function `cna.get_ini_path()` (reading file path + filename of CADNAA.INI file) and `X:break_lines(Y)` (object X gets broken by object Y)
- options X & XL: new command **Lua-Skripts Presets** on **Extras** menu to run Lua scripts automatically
- options X & XL: new supplied Lua script "Transfer attributes" for transferring attributes between objects