

New Features of CadnaA Version 2021 MR2

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

- **CadnaA-Objects**
- Calculation/Configuration
- Further New Features
- Miscellaneous
- Bug Fixes

*The new features of **CadnaA** 2021 MR1 are in Italics.*

CadnaA-Objects

- Label: Arithmetic operations within the text field, e.g. #(ObjAtt, 02000000, LP1++LP2, 1, 0.500) can be used to calculate the sum level of day and night.
- Road: Road surfaces implemented according to RAL - "Richtlinien für die Anlage von Landstraßen".
- *New object: CadnaB-Building for extended transmission calculations from outside to inside and vice versa with our new software CadnaB.*

Calculation | Configuration

- Configuration of calculation → Tab Industry now with the following new options:
 - Obstacles within Area Sources do not reflect
 - No attenuation for sources within built-up areas
- Configuration of calculation → Tab Industry: All settings concerning meteorology have been moved to a separate tab "Meteorology".
- National interpretation of CNOSSOS-EU implemented for France and Spain.
- FTA 18: Missing train classes added.
- *Options for CadnaB Interop: Settings regarding synchronization with CadnaB (variant, evaluation parameter, time of synchronization).*

Further New Features

- Extended Undo and Redo functionality (e.g. editing geometry, actions via „Modify Objects“ and object tables)
- Local/global library: Display of sound level spectra in octaves (instead of 1/3 octaves) possible with provided template files. Files are automatically installed in the installation directory.
- Menu Options → Appearance: New buttons to copy/paste a layer including all defined settings.

Miscellaneous

- New attributes to define the directivity of industrial sources: DIR_PHI, DIR_PSI and DIR_THETA
- *Consistency Check:*
 - *Warning if a referenced directivity has been deleted in the directivity library.*
 - *Warning if "Li from interior sources" refers to a sound level spectrum that has been deleted.*
- *Display of 1/3 octaves instead of octaves for library tables Sound Levels, Sound Reduction Indices and Absorptions.*
- *New attribute for building evaluations LP1_STW (floor with maximum level)*

Bug Fixes

- RLS-19: When using the guideline RLS-19, the reflection condition of RLS-90 was used up to now. This error has been corrected with version 2021 MR2, so that the reflection condition of RLS-19 is now used. A detailed explanation can be found in the German version of CadnaA at Help -> Contents -> CadnaA 2021 MR2 New Features -> Link in CadnaA.
- When converting a traffic source to an industrial source or when using "Long Straight Road" conversion of sound power level corrected.
- TNM: Screening for cylinder and self-screening corrected.
- *Land use: Incorrect assignment of land use when using "empty lines" (land uses without short and long name) fixed. For a detailed description, see Help -> Contents -> CadnaA 2021 MR1 New Features -> Link in CadnaA.*