

## New Features of CadnaR Version 2023

New features of CadnaR 2022 MR1 can be found [here](#).

- New function "Dosimeter" for determining the noise dose or occupational noise exposure level. Accessible via the Dosimeter-Icon in the toolbar or Tables|Libraries(local)|Dosimeter.
- New function: "Save Partial levels per Variant" in Tables|Variants. Before: Partial levels available only for the variant which was calculated last.
- New function: Calculation|Delete calculation results to delete partial levels and calculation results (single value and spectral) stored in receivers and receiver chains.
- Improved display of bitmap objects due to updated bitmap resampling.
- "Modify attribute" now available via the context menu of a multiselection. Attribute selection pre-filtered to the common attributes, i.e. attributes contained in all object types of the multiselection.

## New Features of CadnaR Version 2022 MR1

- New function: Calculation|"Source Group Calibration" for automated calibration of complex emitting structures such as machines based on measured values
- New function: "Build Machine" in the context menu of area sources for automated creation of complex emitting structures
- New function: "Deconstruct box-type source" to convert box-type sources into box-type obstacle and area sources
- New function: "Snap point to obstacle" for replacement of objects to a defined distance from obstacles (e.g. exact positioning of receivers in the measured distance from the machine)
- New function: Open \*.spa files to open files of the SchallPrognoseApp (SPA) of the German Federal Institute for Occupational Safety and Health (BAuA)
- New function: Import \*.xhn directivity files
- New function: Table|"Copy group activation" to transfer the activation states in Table|Group to the current variant for a more efficient creation of new variants based on existing variants.
- ISO 3382-3:2022 comfort distance  $r_C$  for receiver chains added
- For sources: Operating time added to consider sources that are not continuously active. Additionally, under Calculation|Configuration|General definition of the reference time (default: 8h) for the operation time correction.
- For sources: Removed  $L_{pA}$  definition of emission sound pressure level at a workplace for single sources. Replaced by  $L_{pA}$  definition at receivers for source groups.
- Receiver chain: Comfort distance  $r_C$  added as numerical value and in level diagram
- Bitmap: Option "Show bitmap in grayscale" added to map colors to grayscale.
- Receiver: Option Workplace at single source removed - replaced by Workplace at source group

- Modify objects | Modify attributes now allows access to the local (or with SHIFT pressed to the global) libraries when replacing strings if a library attribute is selected.
- 3D view: user-defined background color can be defined in the 3D properties (can be switched through with B in the 3D view)
- Quickly switch on/off the bitmap display with SHIFT+ click on the bitmap symbol in the toolbar.