

1.2 New Features of CadnaA 4.5

The list of new features offered by **CadnaA**, release 4.5, is subdivided into the following sections:

- Calculation/Configuration
 - **CadnaA**-Objects
 - Further New Features/Miscellaneous
 - Import/Export
 - **CadnaA**-Options
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- revised and expanded calculation protocol (also enabling to display third-octave values), see **Calculation/Protocol** menu
 - CNOSSOS-EU (Common Noise Assessment Methods) implemented for source types Industry, Road, Railway, and Aircraft Noise
 - NMPB08 (industry, road, rail) fully implemented
 - NMPB-Fer-08: now considering Ch in the calculation of the barrier attenuation Abar
 - NMPB-Fer-08: now considering screen-body-interaction, with the number of screen-body-interactions editable („Railroad“ tab)
 - NMPB Road (1996 and 2008): different traffic flows possible for each time period D, E, N
 - OENORM S5011: emission spectra for time periods D, E, N may now be different
 - Nordic Road 96: Screen model extended to DeltaLts ("Correction for Thick Screens")
 - Nord 2000 (Industry): temperature gradient now in °/km
 - Schall 03 (2013): now with rail dampers and rail screening selectable as sound reduction measures at the rail (**Railway** dialog)
 - CRTN: evaluation parameter selectable (L10, Leq acc. to TRL method 1, Leq Australia)

CadnaA-Objects

- command/action "Generate Label": save/delete of user-defined label codes
- **Appearance** dialog (**Options** menu): save/delete of user-defined colors (for „Line“ and „Fill“)
- object Bitmap: new attribute PIXEL_X, PIXEL_Y (number of pixels in x and y direction)
- facade bitmaps: new option "Save Heights relative to Roof (z) of Point 1"
- command **Purge Tables** (**Tables/Misc.** menu): Deletes double or unused SET-S or SET-T modules from the local library (requires option SET).
- Receiver: new attribute LAERMARTI, noise type as an integer value (0=Total, 1=Industry etc.)

Further New Features

- ObjectTree and PlotDesigner: Objects can now be moved using Drag&Drop.
- **ObjectTree** dialog: When pasting objects either „Cut“ or „Copy“ is selectable.
- **Modify Objects/Modify Attribute** dialog: With multiple selections of objects now the common attributes are displayed on the list box (BEZ, ID, MARK, MEMO...).

Miscellaneous

- keyword #(Datum,...): now with format specification, e.g.: #(Datum, dd.MM.yyyy)
- new keyword #(Table, BPL_Geo): prints the geometry of optimizable sources
- new attributes PO_COMPLEX (1: self-intersecting, 0: not) and PO_UNDRGND (1: at least one polygon point is below terrain level, 0: none)

- DXF import: The option „Import DXF -Nets as Polys“ is now active by default. **Import**
- Import via ODBC also possible using **CadnaA** 64-bit
- Export ArcView: Export of air routes now with „corridor areas“ possible (requires Option FLG) **Export**
- Export ArcView: new option „Export inactive Objects too“
- Export ArcView: new option "Facade Points as Polygons"
- button "Export" on **Multiple Source Effect** dialog (**Calculation** menu) exports the results at the facade point to the Shape format
- Option SET: The command **Purge Tables** (**Tables/Misc.** menu) now deletes double or unused SET-S or SET-T modules from the local library. **CadnaA-Options**
- Option APL: updated to AUSTAL2000 release 2.6.11
- Option FLG: Shape Export of air routes now with „corridor areas“ possible

