

1.2 New Features of CadnaA 4.6

The list of new features offered by **CadnaA**, release 4.6, is subdivided into the following sections:

- Calculation/Configuration
 - **CadnaA-Objects**
 - Further New Features
 - Miscellaneous
 - Import/Export
 - **CadnaA-Options**
 - Bug Fixing
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- Chinese industrial and road noise standard implemented (HJ 2.4-2009) **Calculation| Configuration**
 - industrial source (point, line, area sources): diurnal patterns available for specification of detailed operating time (plus a list box on the source dialogs instead of the former check-box)
 - new train class for FRA 2012 (FTA/FRA Railway): FTA15_COMM... with correction values K from the original report
 - Austrian road and railway noise standards (RVS & ONR): new configuration option „Reflection Criterion“ (on „Road“ and „Railway“ tabs)
 - new and extended options for 2D and 3D object appearance **CadnaA-Objects** (**Options|Appearance** menu)
 - New command **Resample (Grid** menu) enables to re-interpolate the present grid to a new grid with a different grid spacing.
 - separate local and global libraries for 2D symbols (SymLib) and 3D symbols (SymLib 3D)
 - 2D and 3D symbols library objects are now available on the Library-Manager

Further New Features

- 3D-Special View: major revision and extension of all features
- dialog **Variants**: Input box „Modify Calculation Configuration“ enables to alter the configuration settings for variants independently.
- Prototype file: When launching **CadnaA** holding the Shift key depressed no prototype file will be loaded.

Miscellaneous

- extension of the keyword #(SetObjAtt, CALCCONF, ...): type (EVPx_TYPE) can be switched by „func“ or „expr“ to „=f(x)“
- new attributes for keyword CALCCONF (for ECAC3/INM)
- new attribute for diurnal patterns: TYPEI (0: road, 1:ind) toggles type of applications Road/Industry
- new attribute CONS_CHECK offers access to objects indexed by the consistency check (e.g. via dialog **Modify Objects**)
- CalcConf attribute TIME_DEN returns underscores for „empty“ hours ("DEN_" instead of "DEN ")
- new attribute DBRI for bridge type (for Schall03-2014 and CNOSSOS-EU)

Import

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Export

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CadnaA-Options

- option X/XL: Lua scripting: command imm:partlev() enables iteration over partial levels
- option X/XL: Lua scripting: new context menu command / new action on dialog **Modify Objects, Lua Command** offers user-defines function coded in file `cnacmd.lua`.

- STL86 shows now again the level correction for crossings according to the Swiss Guideline „Traffic Noise“ **Bug Fixing**
- Nord 96 (Road): bug with multiple reflection corrected
- ONR 305011: railway correction is now applied
- Nord 96 (Railway): correction for reflecting barrier now responds to the option „no reflection“ set