

New Features of CadnaA 4.1

The list of new features in **CadnaA**, release 4.1, is subdivided into the following sections:

- calculation/configuration
 - **CadnaA**-objects
 - further new features/miscellaneous
 - import
 - export
 - **CadnaA**-options
 - bug fixing
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- Nordic Prediction Method, Railway: calculation of maximum levels for LmaxF (in addition to LmaxM) **Calculation| Configuration**
 - new Swiss parking lot guideline implemented (SN 640 578:2006-07, Lärmimmissionen von Parkieranlagen - Berechnung der Immissionen)
 - Austrian railway guideline ONR 305011, edition 2009, implemented (now using propagation model accord. to ISO 9613)
 - new French guideline for road noise NMPB 2008 implemented
 - Concawe & Harmonoise: via keyword CALCCONF several attributes for meteorology specifiable (wind speed and direction, stability class)
 - QSI-statistics: now applicable to „Points on Iso-Lines“

CadnaA-Objects

- object "Crossing w/ Traffic Light": deviating distances and penalties (up to 25 m: + 2 dB, up to 50 m: + 1 dB); will be applied with STL86+ or SonRoad selected (Switzerland) **Road/Traffic Light**
- dialog **Building Noise Map**: new option "Use rounded values" **Building Noise Map & Facade Points**

Further new features

- new library-object **Color Palette** (menu **Tables|Libraries (local/global)**): Color palettes can be assigned to the evaluation parameters via dialog **Grid|Appearance** or to object types via dialog **Appearance (Options menu)** for the graphic representation.
- dialog **Grid|Appearance** (horizontal and vertical grids): new button "Apply"
- dialog **Options|Appearance**: option "Show Object type" is now saved
- dialog **ObjectTree**: status of ObjectTree-structure is saved to file
- dialog **ObjectTree**: new buttons for „Expand“ and „Collapse“ of ObjectTree-structure being displayed
- dialog **PlotDesigner** (Caption Preview): as before (save structure, Expand/Collapse)
- dialog **Group** shows indents as on dialog **ObjectTree**

Miscellaneous

- new keyword #(GLK, stw): exports the storey selection for the Building Noise Map
- new keyword #(RST, dx) dy, z: exports the settings for grids
- new attribute DISP_TEXT ("displayed text"): text of labels which has been generated using an assignment can be converted into „plain“ text
- dialog **Group**: location and size is saved only restart

Import

- ODBC-import: failing ODBC-connection can be reset (hold CTRL-key depressed while selecting the command **Database|Definition**)
- geo-referenced ERS-files (Bitmaps) can be imported using option BMP (from ERDAS ER Mapper)

Export

- KML-export to GoogleEarth now with optional export of object attributes (option BMP)

- BMP: geo-referenced ERS-files (Bitmaps) can be imported using option BMP (from ERDAS ER Mapper) **CadnaA-Options**
 - BMP: KML-export to GoogleEarth now with optional export of object attributes
 - CALC: **Batch-Only** menu available to select batch directory
 - FLG: fill the geometry of air routes up to a radius of 25000 m
 - FLG: new option "Military Designation" for airports (in conjunction with ICAN/AzB08)
 - FLG: export of AzB08-noise contours as txt-file
 - FLG: evaluation of maximum levels for aircraft noise, evaluation parameter „FlgStat D/E/N“ (arousal reaction accord. to *Griefahn* and DLR)
 - FLG: threshold level with predefined number of exceedances available within the evaluation of maximum levels
 - FLG: new evaluation parameter „SigmaFlgStat D/E/N“ (standard deviation of arousals)
 - FLG: QSI-AzB enables now years to be assigned within the Sigma-statistics
 - FLG: epsilon values (correction factors for sigma-calculation) extended by 2 to 5 years
 - FLG: KML-export of air routes and radar tracks
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- no crash when copying the ResultTable **Bug Fixing**
 - Pass-By: considers now self-screening option
 - CRTN: condition that a reflector must be at least 1.5 m above the road's surface is now considered.

