About CadnaA

Cadna A®



DataKustik

Version 2026 MR 1 (64 Bit) (build: 215.5625)

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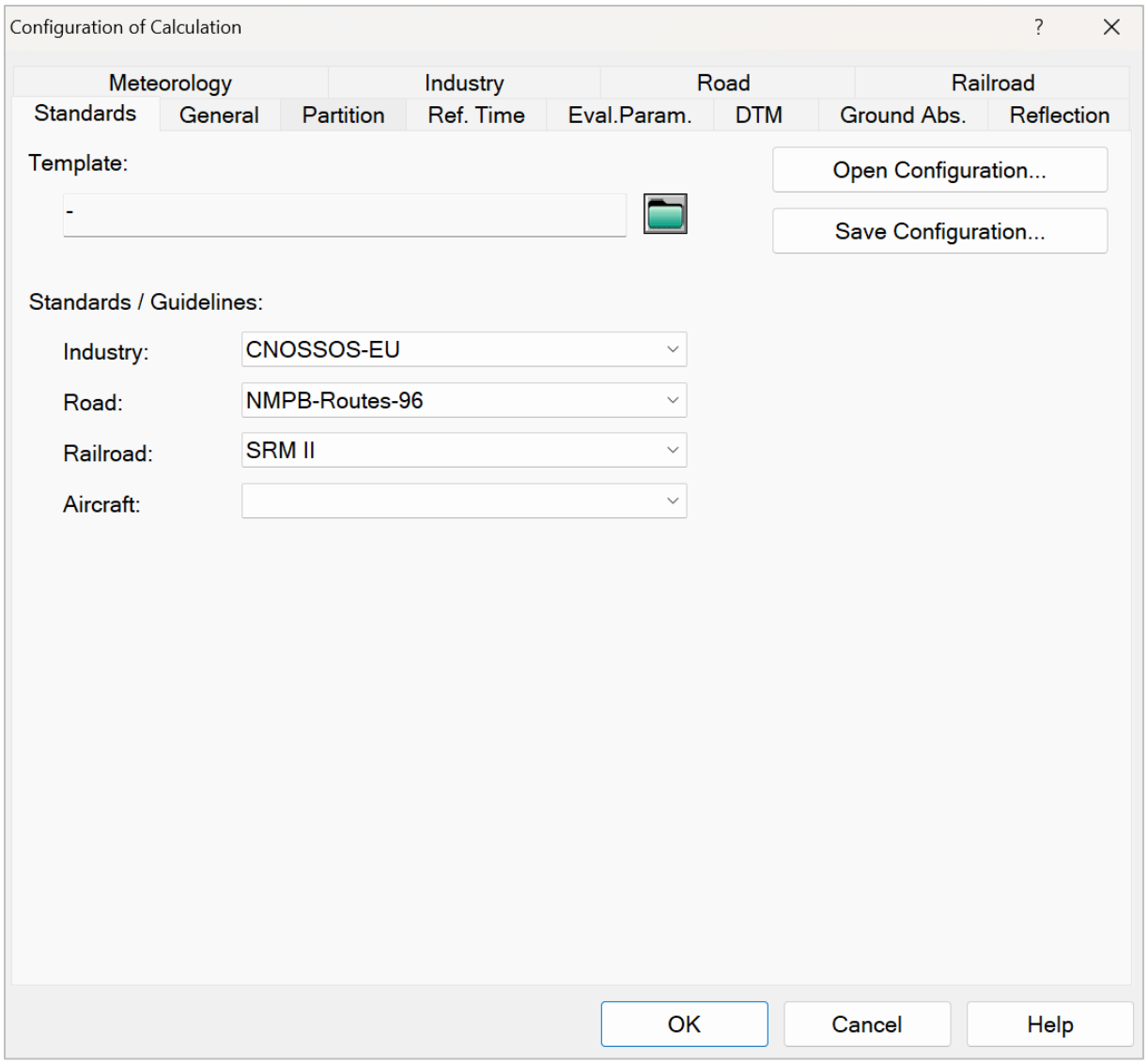
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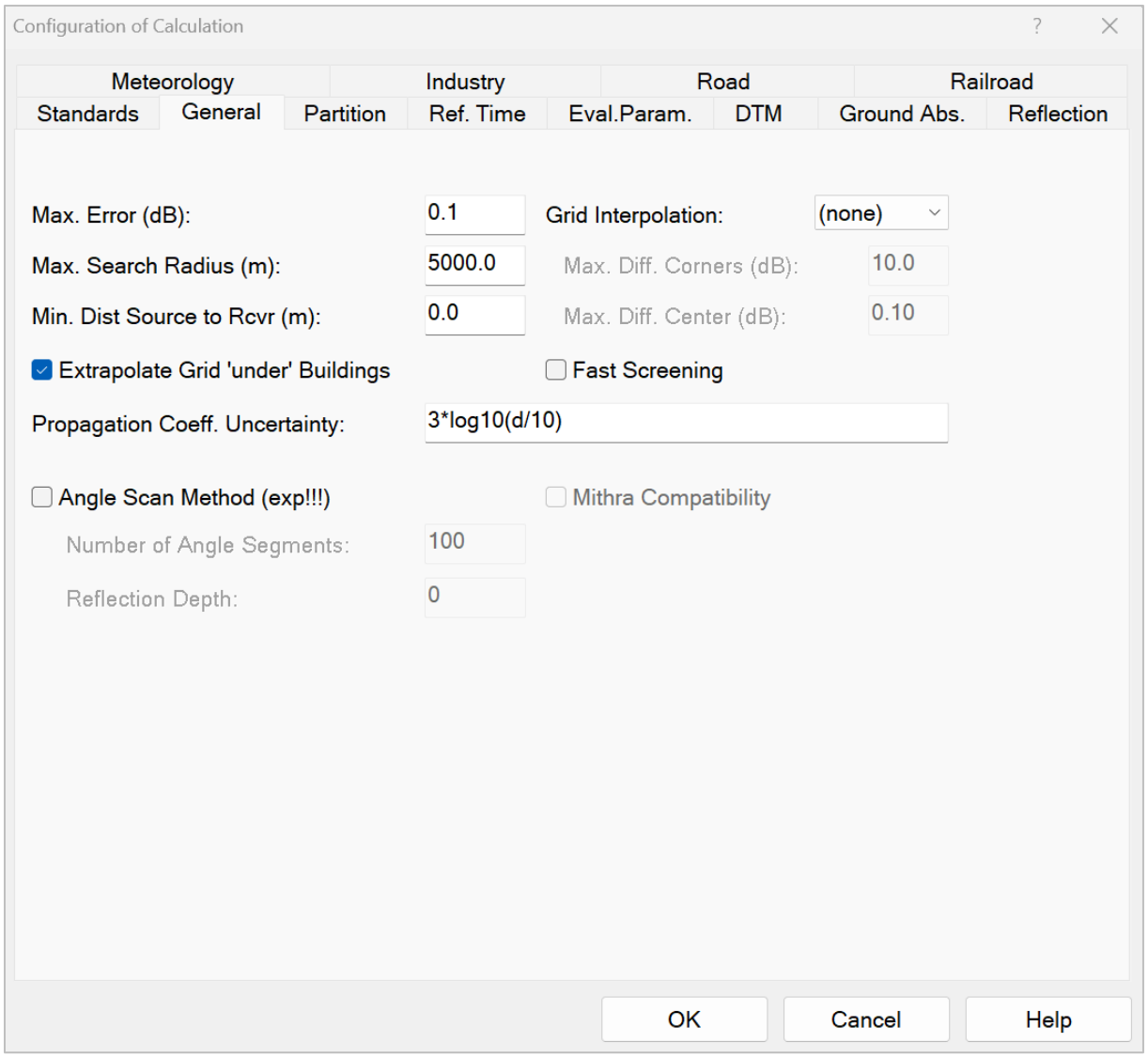
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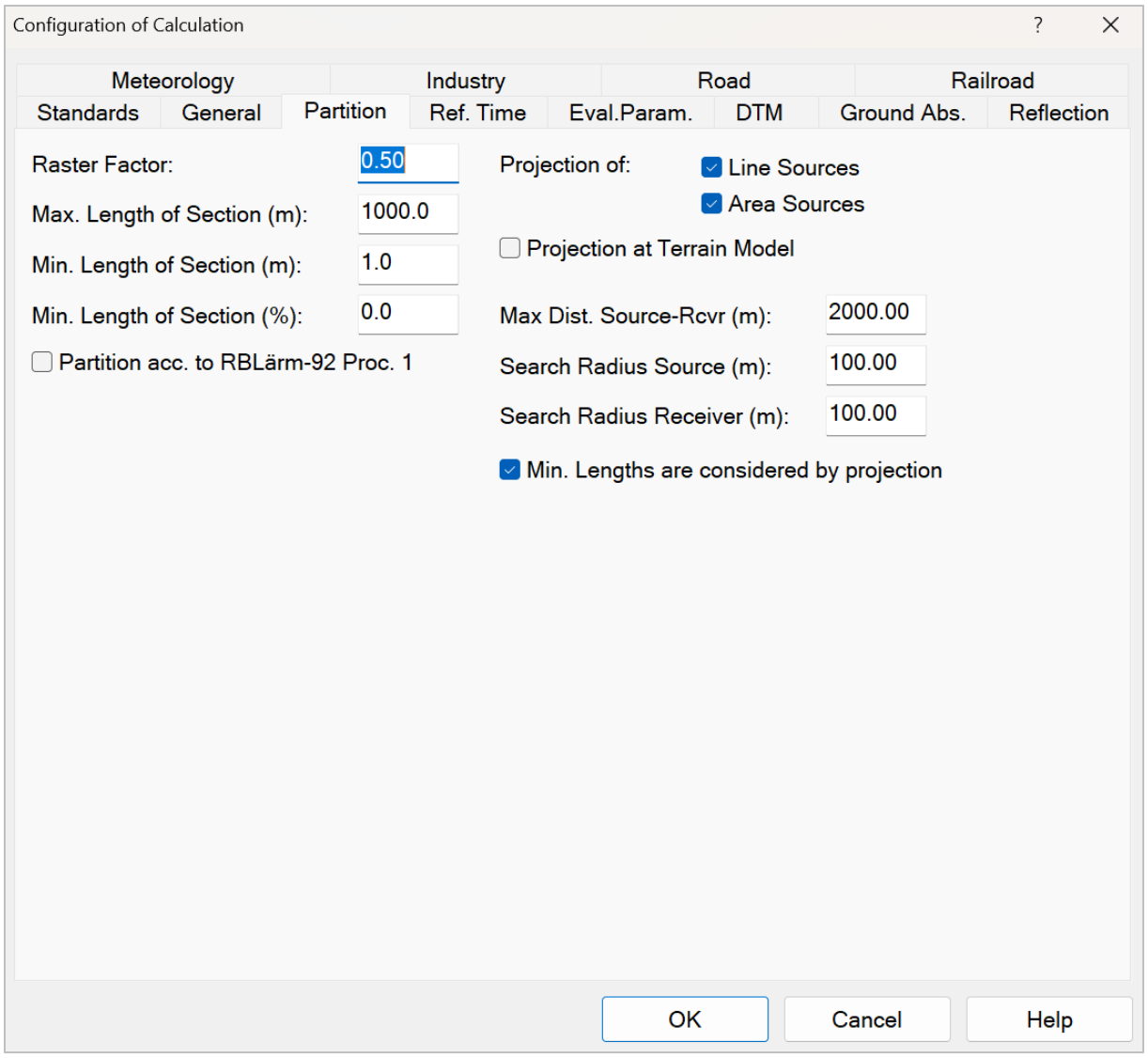
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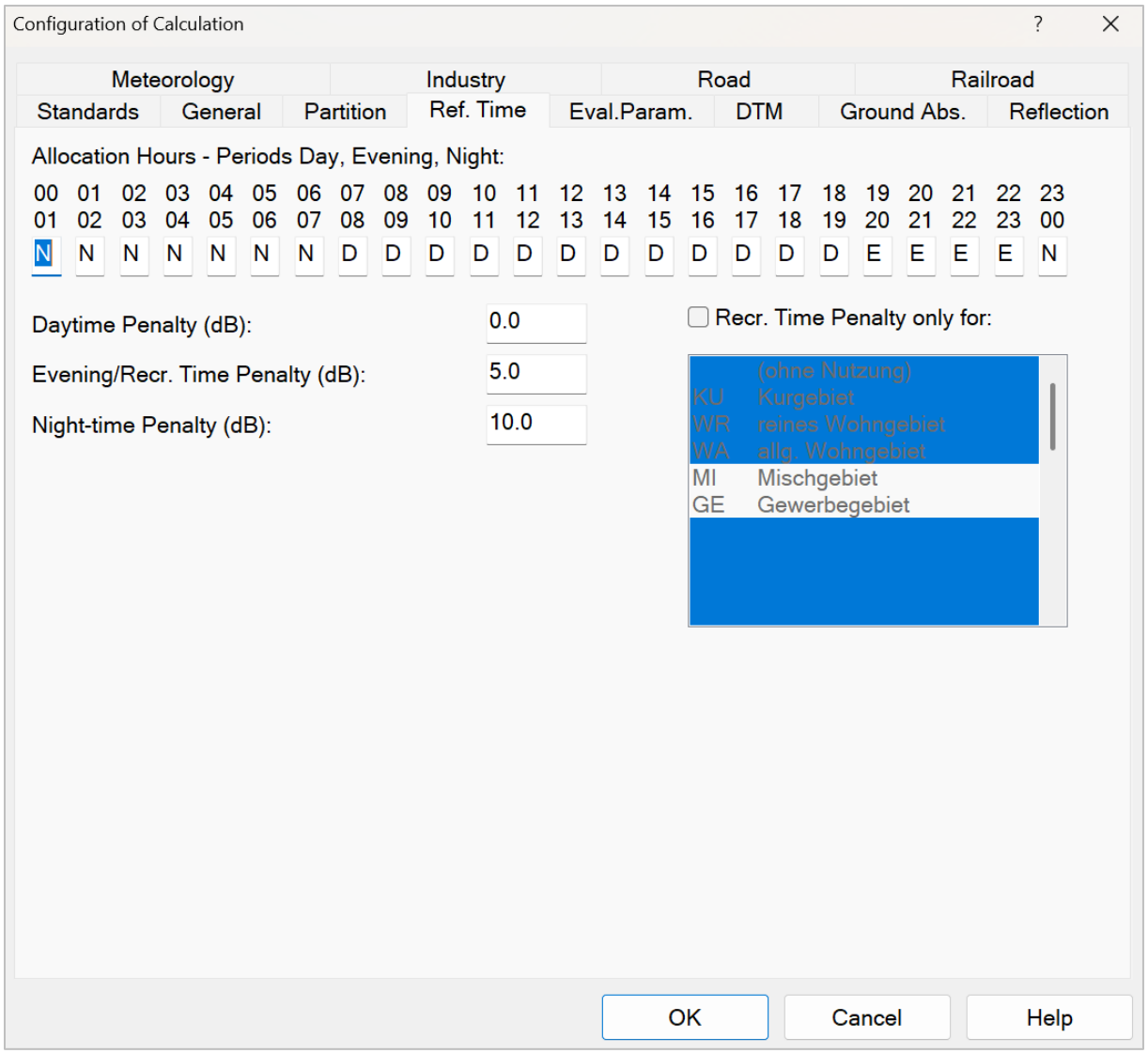
Licensee:
Kajaja Acoustics OÜ, Tallin, Estonia

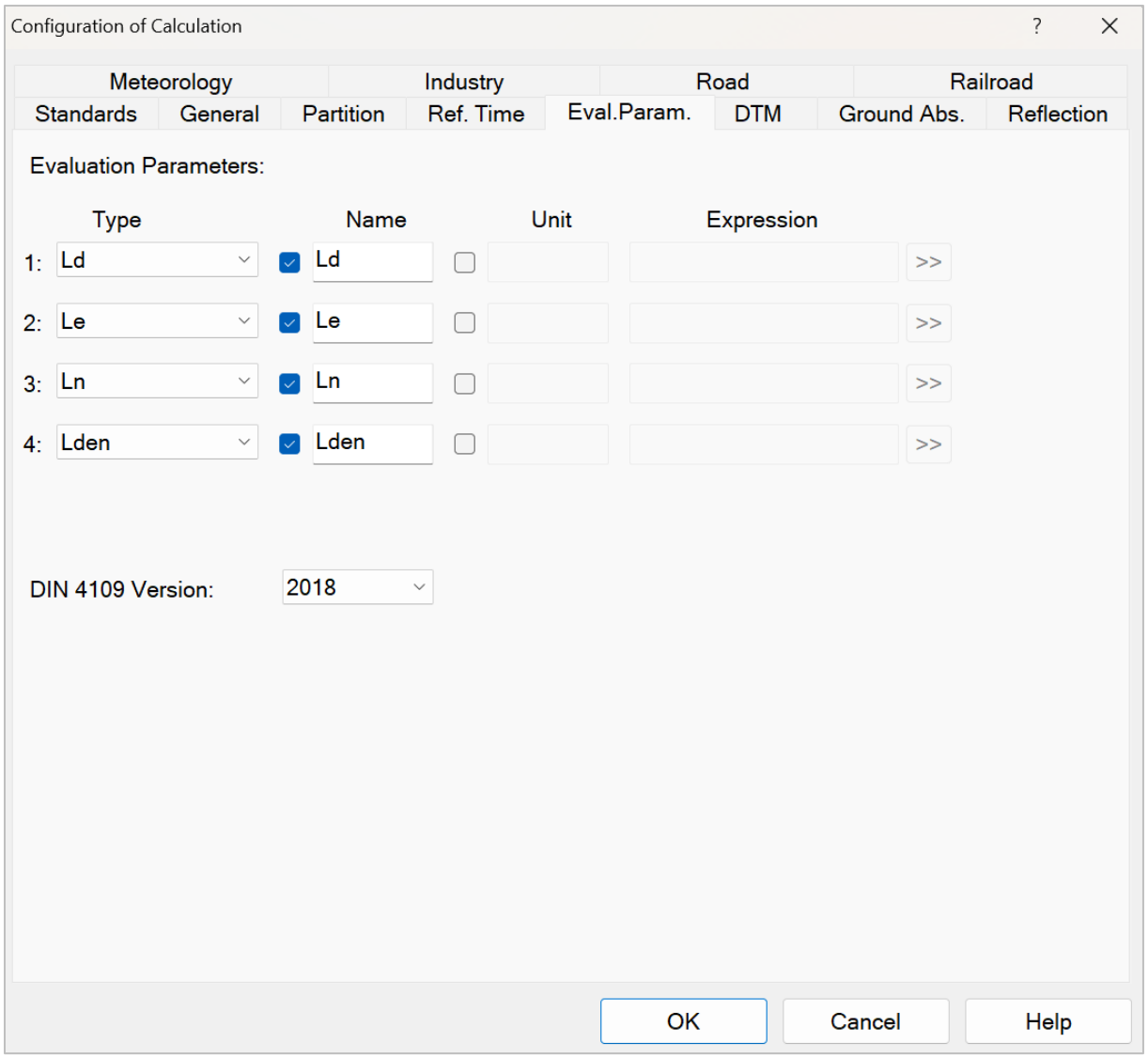
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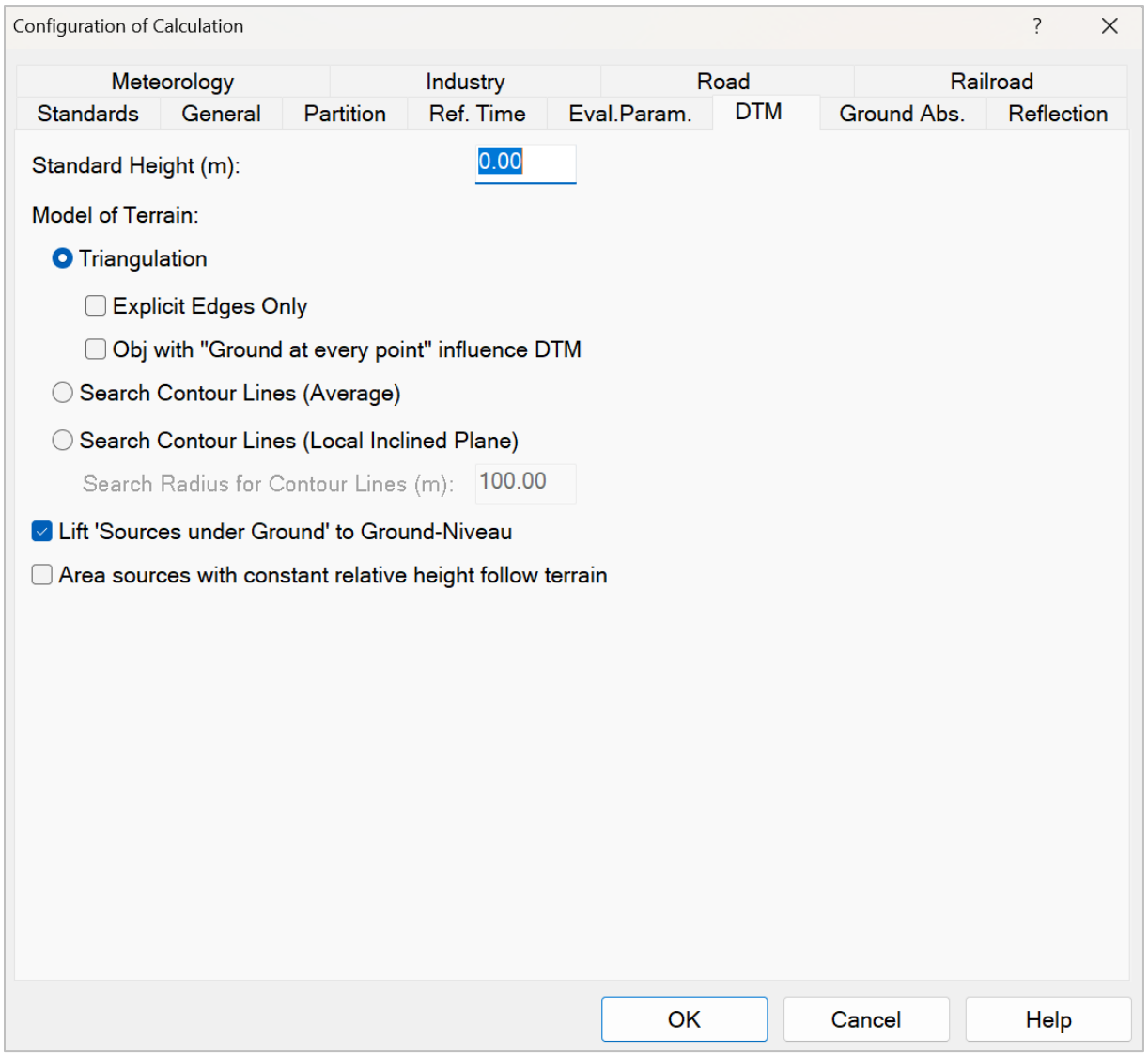

Configuration of Calculation
Meteorology
Industry
Road
Railroad
Standards
General
Partition
Ref. Time
Eval.Param.
DTM
Ground Abs.
Reflection
Template:
-
Open Configuration...
Save Configuration...
Standards / Guidelines:
Industry:
CNOSSOS-EU
Road:
NMPB-Routes-96
Railroad:
SRM II
Aircraft:
OK
Cancel
Help

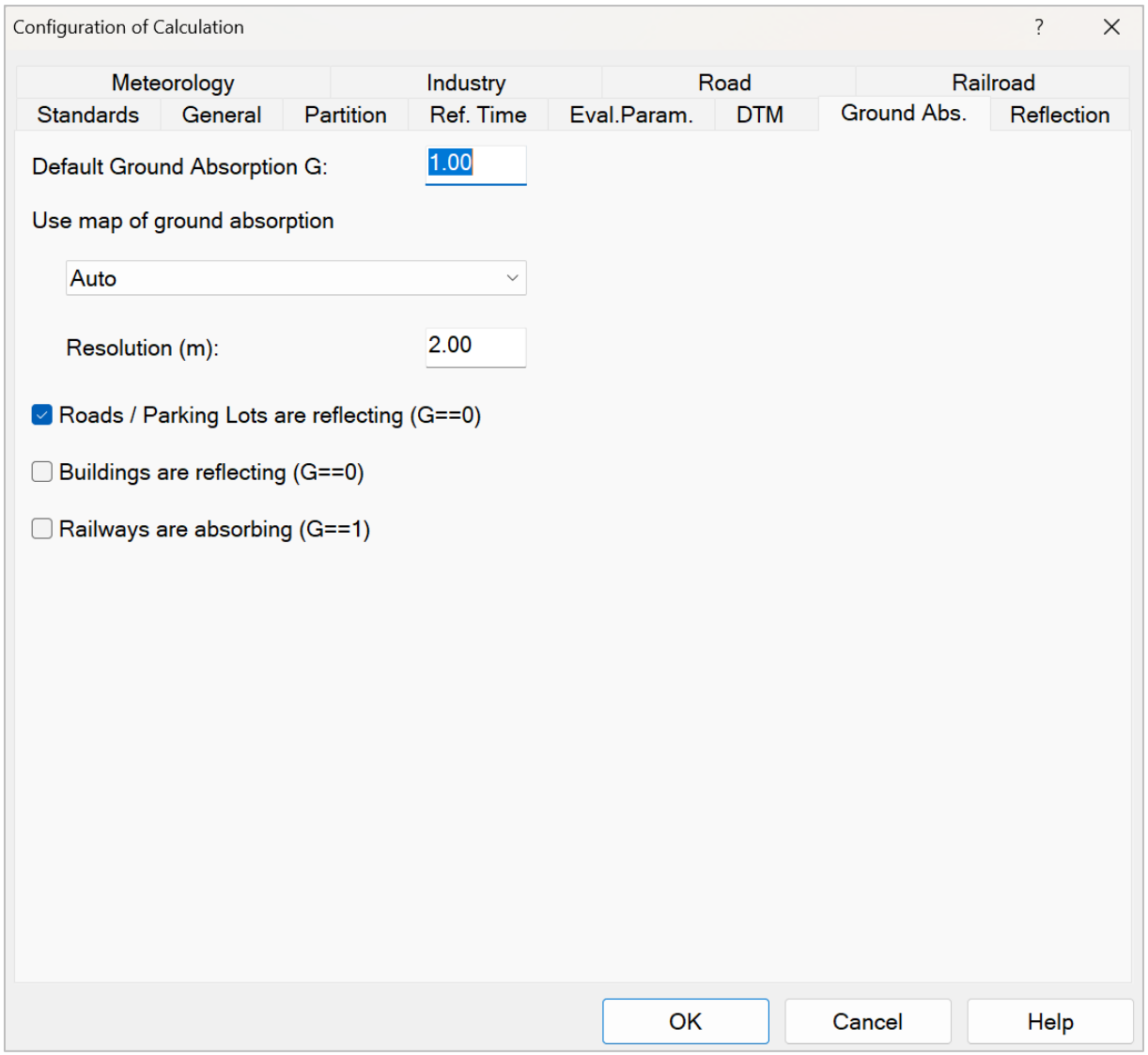

Configuration of Calculation
Meteorology
Industry
Road
Railroad
Standards
General
Partition
Ref. Time
Eval.Param.
DTM
Ground Abs.
Reflection
Max. Error (dB):
0.1
Grid Interpolation:
(none)
Max. Search Radius (m):
5000.0
Max. Diff. Corners (dB):
10.0
Min. Dist Source to Rcvr (m):
0.0
Max. Diff. Center (dB):
0.10
Extrapolate Grid 'under' Buildings
Fast Screening
Propagation Coeff. Uncertainty:
3*log10(d/10)
Angle Scan Method (exp!!!)
Mithra Compatibility
Number of Angle Segments:
100
Reflection Depth:
0
OK
Cancel
Help

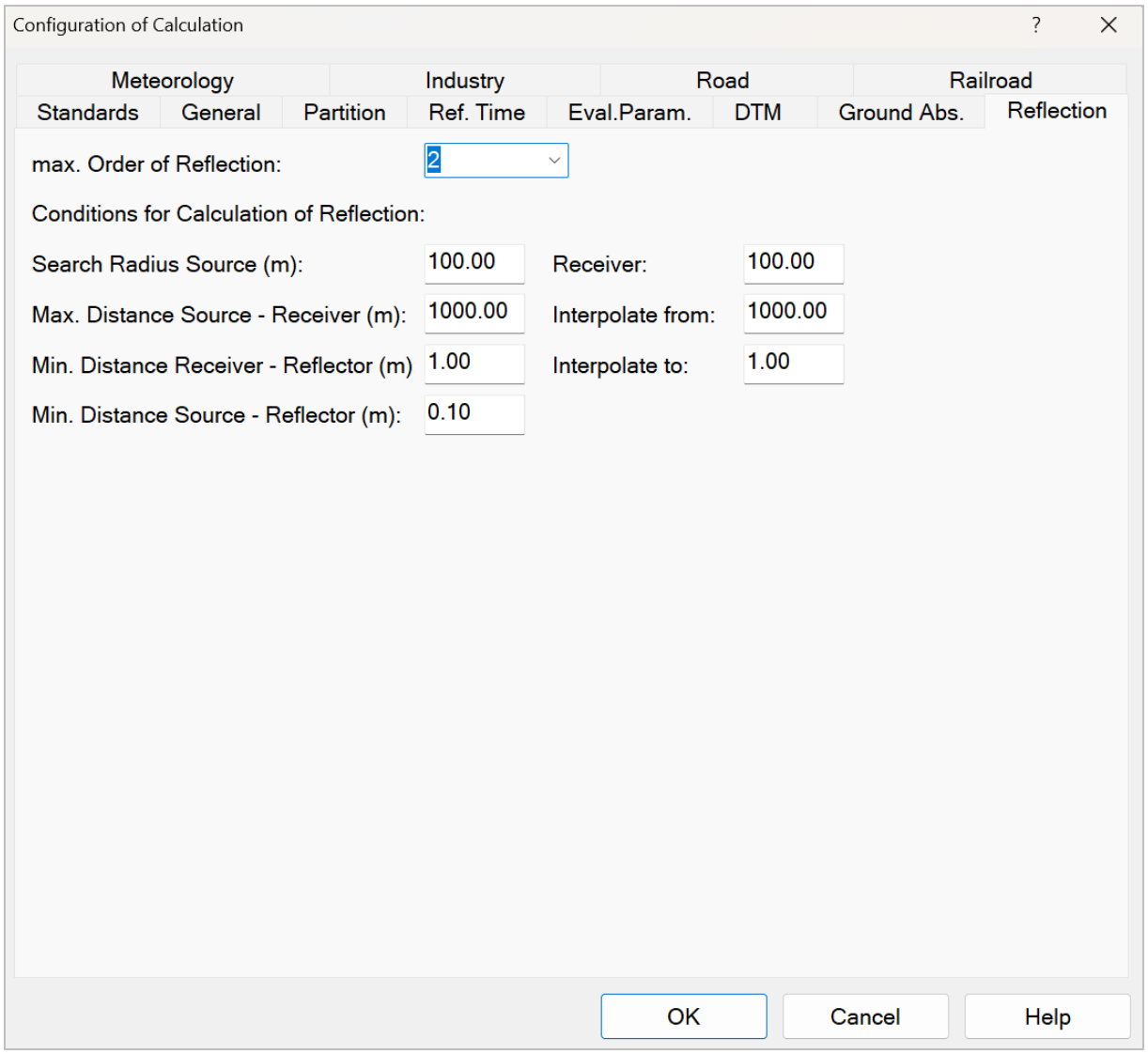

Configuration of Calculation
Meteorology
Industry
Road
Railroad
Standards
General
Partition
Ref. Time
Eval.Param.
DTM
Ground Abs.
Reflection
Raster Factor:
0.50
Max. Length of Section (m):
1000.0
Min. Length of Section (m):
1.0
Min. Length of Section (%):
0.0
Partition acc. to RBLärm-92 Proc. 1
Projection of:
Line Sources
Area Sources
Projection at Terrain Model
Max Dist. Source-Rcvr (m):
2000.00
Search Radius Source (m):
100.00
Search Radius Receiver (m):
100.00
Min. Lengths are considered by projection
OK
Cancel
Help

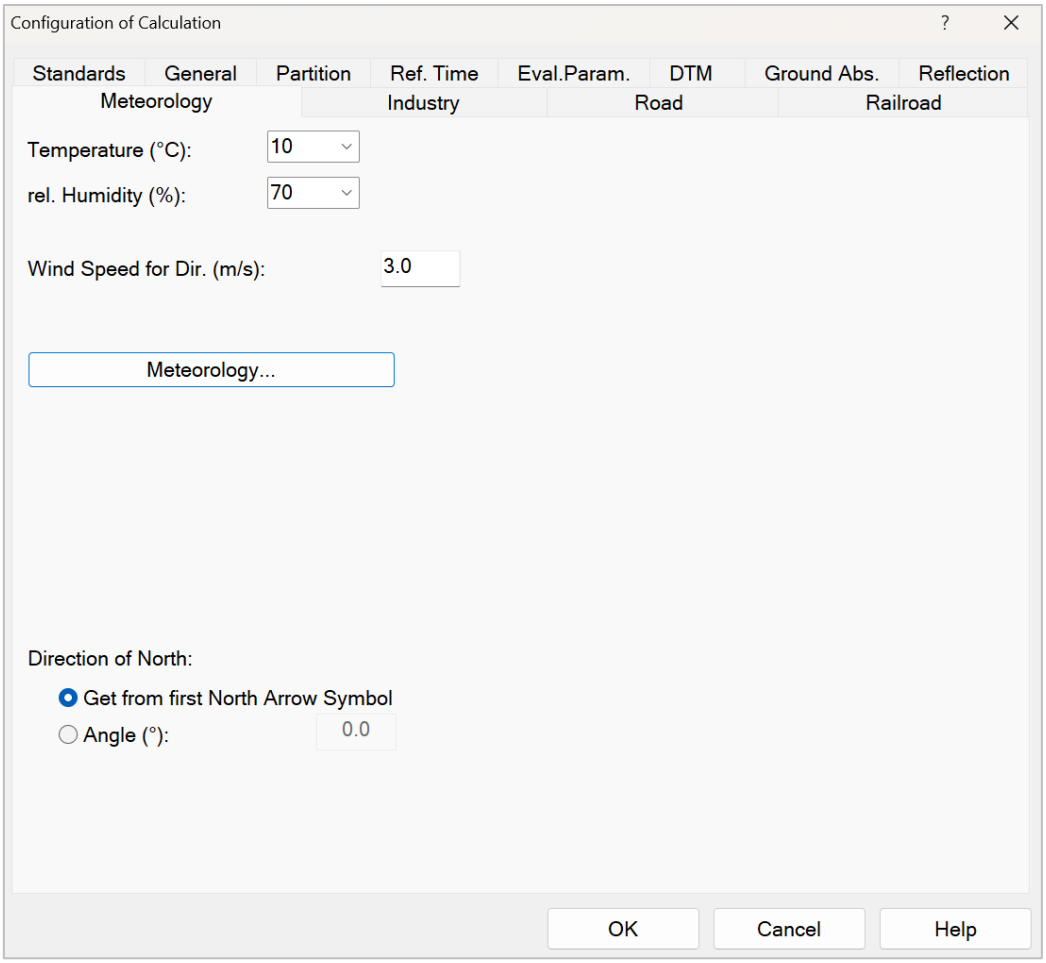

Configuration of Calculation
Meteorology
Industry
Road
Railroad
Standards
General
Partition
Ref. Time
Eval.Param.
DTM
Ground Abs.
Reflection
Allocation Hours - Periods Day, Evening, Night:
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 00
N N N N N N N D D D D D D D D D D D E E E E N
Daytime Penalty (dB):
0.0
Evening/Recr. Time Penalty (dB):
5.0
Night-time Penalty (dB):
10.0
Recr. Time Penalty only for:
(ohne Nutzung)
KU Kurgebiet
WR reines Wohngebiet
WA allg. Wohngebiet
MI Mischgebiet
GE Gewerbegebiet
OK
Cancel
Help

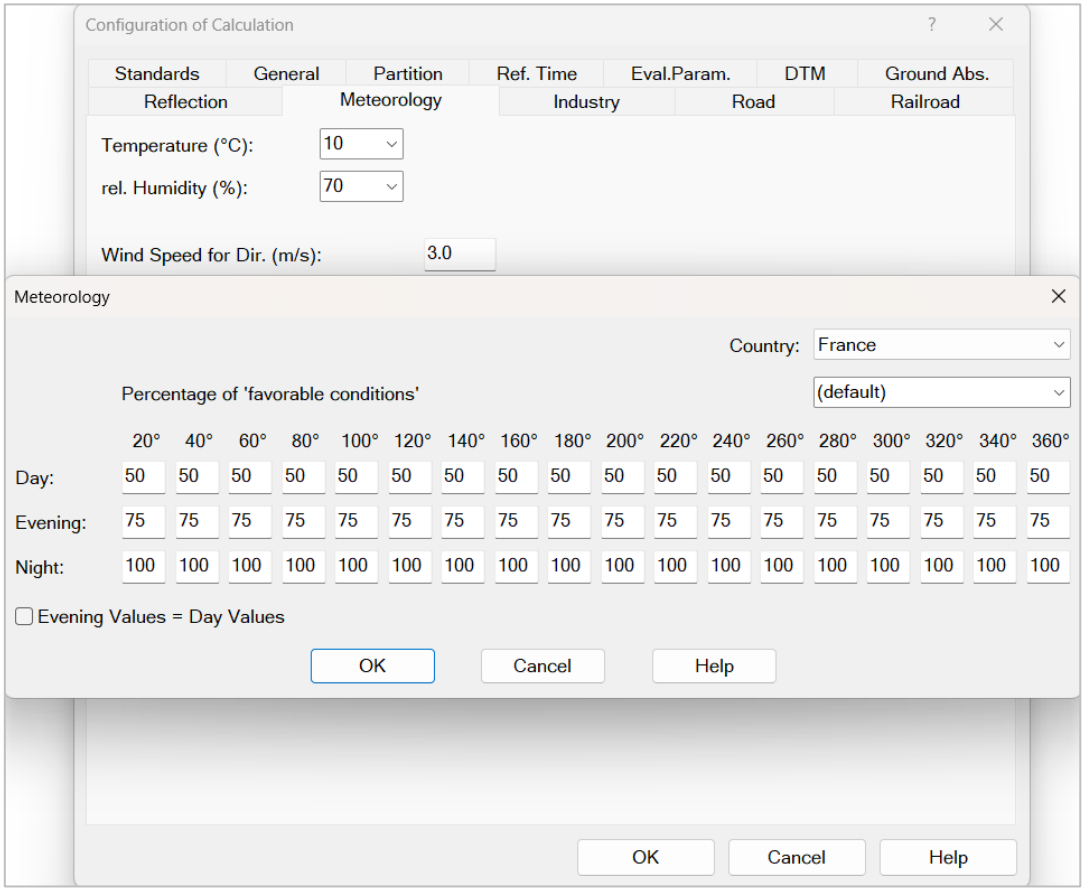

Configuration of Calculation
Meteorology
Industry
Road
Railroad
Standards
General
Partition
Ref. Time
Eval.Param.
DTM
Ground Abs.
Reflection
Evaluation Parameters:
Type
Name
Unit
Expression
1: Ld
Ld
>>
2: Le
Le
>>
3: Ln
Ln
>>
4: Lden
Lden
>>
DIN 4109 Version:
2018
OK
Cancel
Help

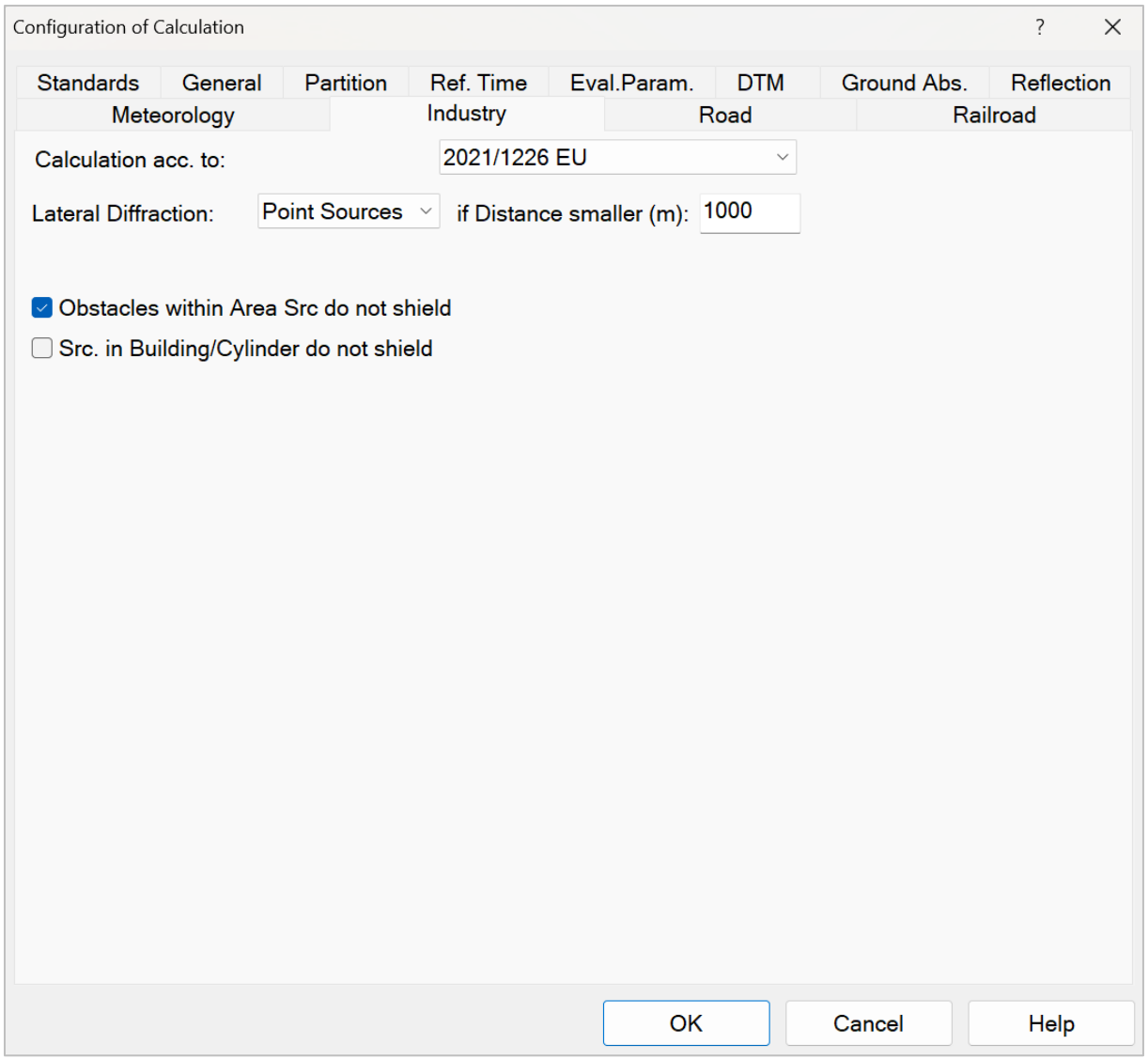

Configuration of Calculation
Meteorology
Industry
Road
Railroad
Standards
General
Partition
Ref. Time
Eval.Param.
DTM
Ground Abs.
Reflection
Standard Height (m):
0.00
Model of Terrain:
Triangulation
Explicit Edges Only
Obj with "Ground at every point" influence DTM
Search Contour Lines (Average)
Search Contour Lines (Local Inclined Plane)
Search Radius for Contour Lines (m):
100.00
Lift 'Sources under Ground' to Ground-Niveau
Area sources with constant relative height follow terrain
OK
Cancel
Help

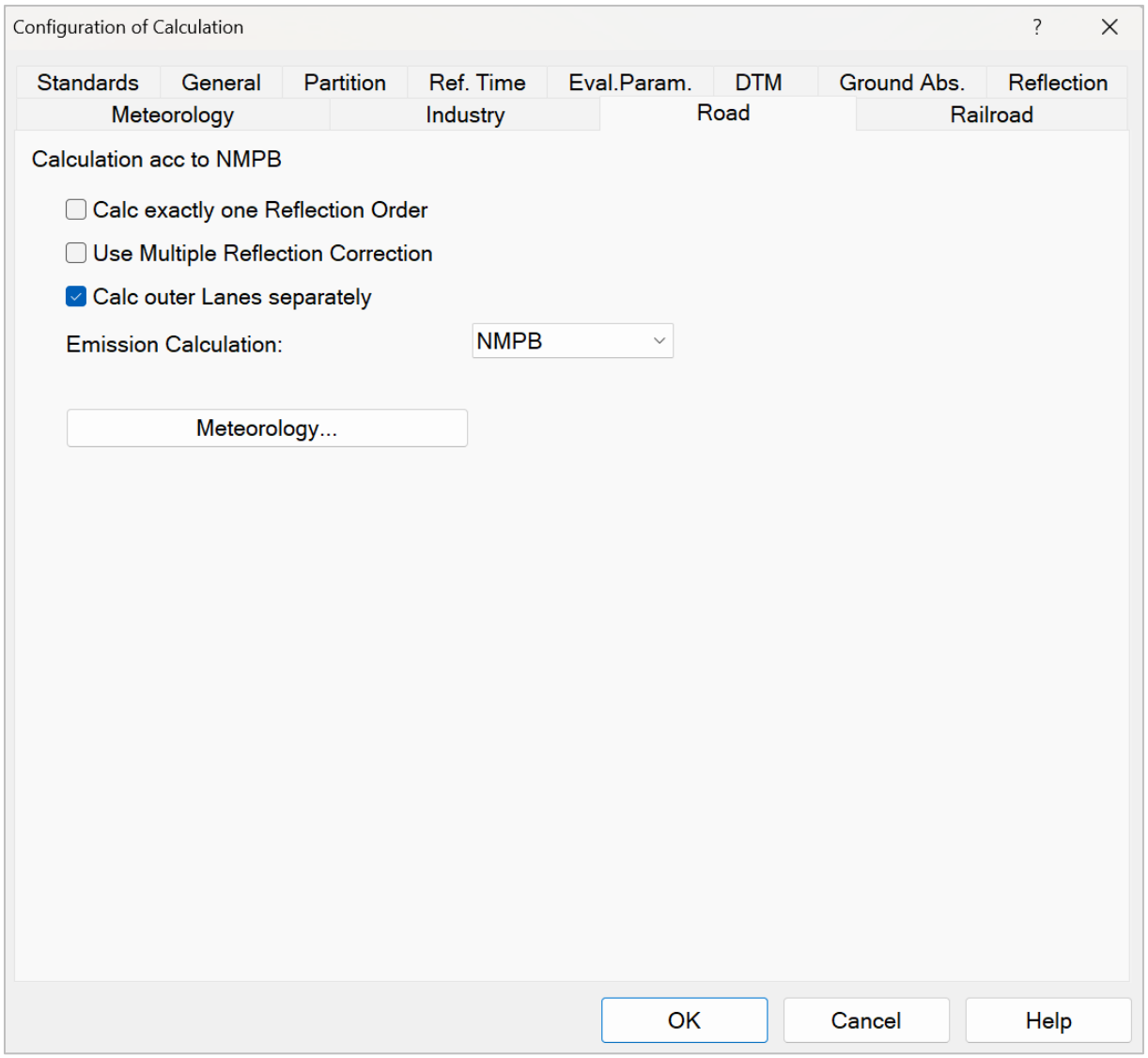

Configuration of Calculation
Meteorology
Industry
Road
Railroad
Standards
General
Partition
Ref. Time
Eval.Param.
DTM
Ground Abs.
Reflection
Default Ground Absorption G:
1.00
Use map of ground absorption
Auto
Resolution (m):
2.00
Roads / Parking Lots are reflecting (G==0)
Buildings are reflecting (G==0)
Railways are absorbing (G==1)
OK
Cancel
Help

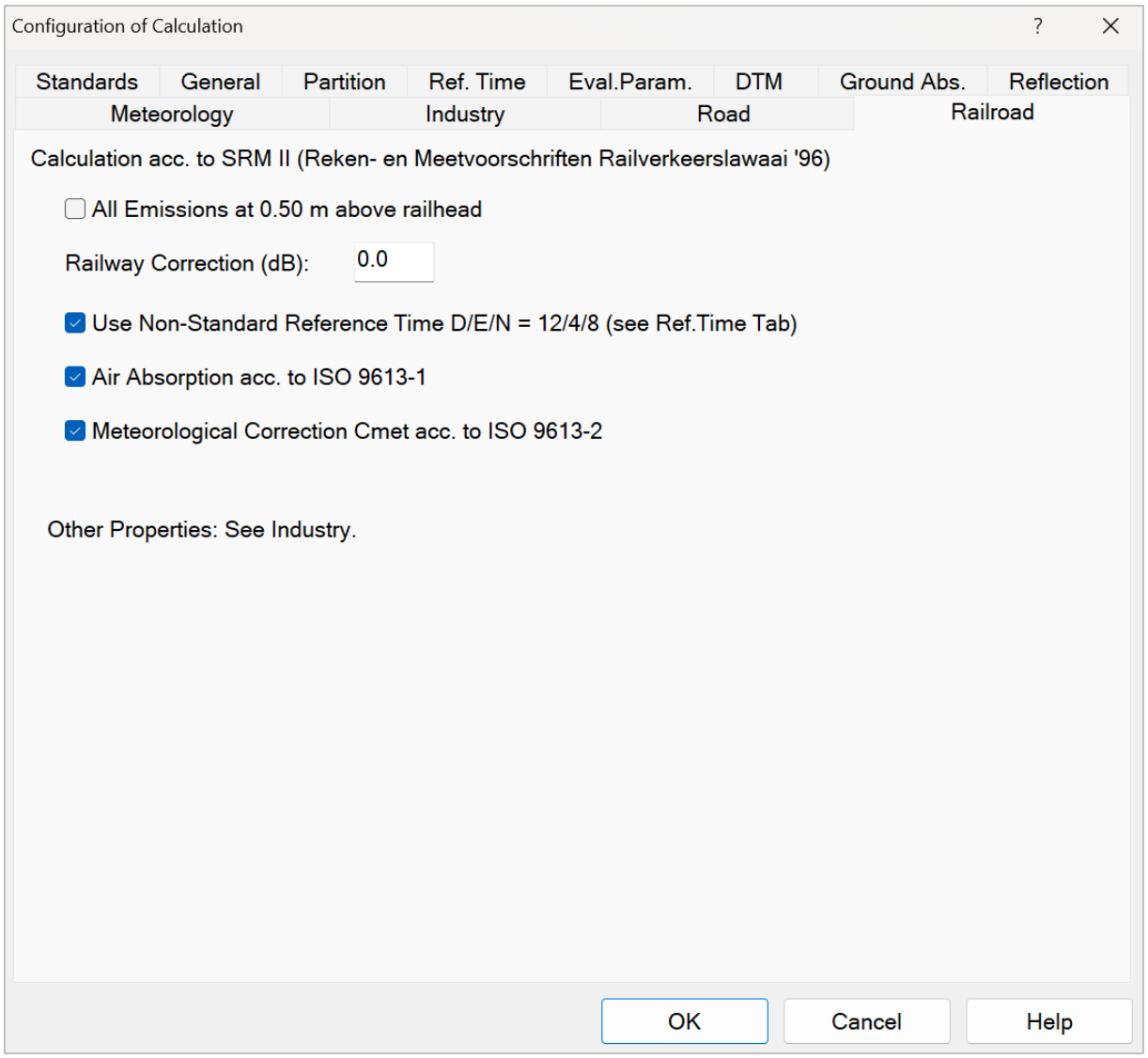

Configuration of Calculation
Meteorology
Industry
Road
Railroad
Standards
General
Partition
Ref. Time
Eval.Param.
DTM
Ground Abs.
Reflection
max. Order of Reflection:
2
Conditions for Calculation of Reflection:
Search Radius Source (m):
100.00
Receiver:
100.00
Max. Distance Source - Receiver (m):
1000.00
Interpolate from:
1000.00
Min. Distance Receiver - Reflector (m)
1.00
Interpolate to:
1.00
Min. Distance Source - Reflector (m):
0.10
OK
Cancel
Help

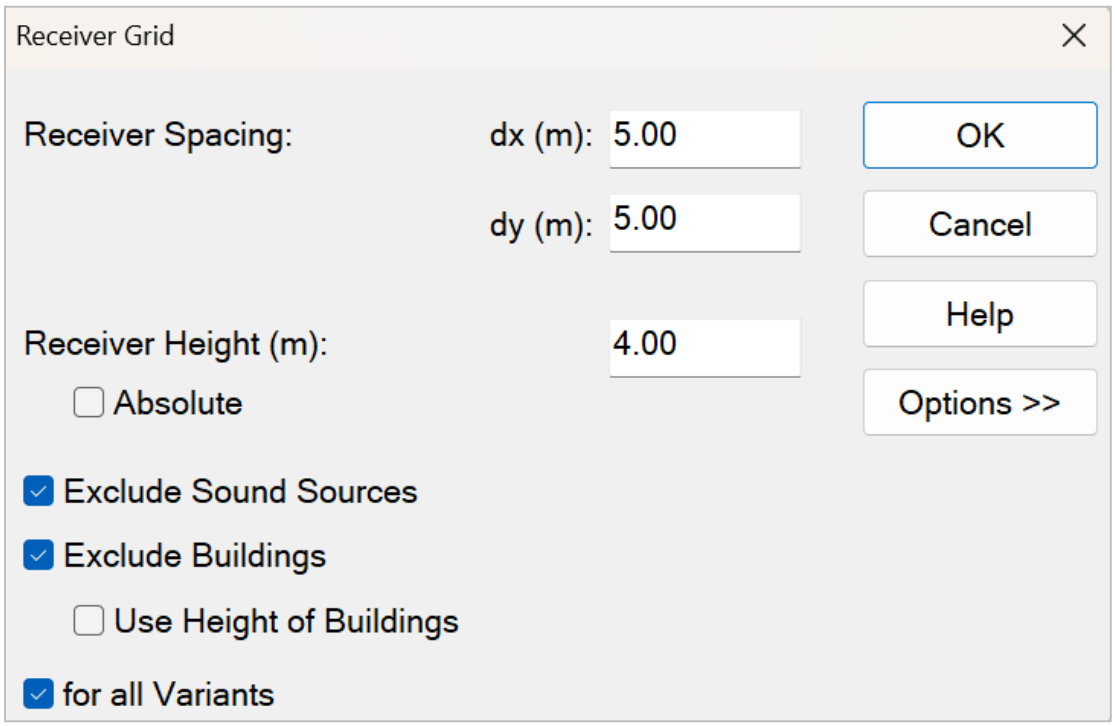

Configuration of Calculation
Standards
General
Partition
Ref. Time
Eval.Param.
DTM
Ground Abs.
Reflection
Meteorology
Industry
Road
Railroad
Temperature (°C):
10
rel. Humidity (%):
70
Wind Speed for Dir. (m/s):
3.0
Meteorology...
Direction of North:
Get from first North Arrow Symbol
Angle (°):
0.0
OK
Cancel
Help


Configuration of Calculation
Standards
General
Partition
Ref. Time
Eval.Param.
DTM
Ground Abs.
Reflection
Meteorology
Industry
Road
Railroad
Temperature (°C):
10
rel. Humidity (%):
70
Wind Speed for Dir. (m/s):
3.0
Meteorology
Country:
France
Percentage of 'favorable conditions'
(default)
20° 40° 60° 80° 100° 120° 140° 160° 180° 200° 220° 240° 260° 280° 300° 320° 340° 360°
Day: 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50
Evening: 75 75 75 75 75 75 75 75 75 75 75 75 75 75 75 75 75 75
Night: 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100
Evening Values = Day Values
OK
Cancel
Help
OK
Cancel
Help


Configuration of Calculation
Standards
General
Partition
Ref. Time
Eval.Param.
DTM
Ground Abs.
Reflection
Meteorology
Industry
Road
Railroad
Calculation acc. to:
2021/1226 EU
Lateral Diffraction:
Point Sources
if Distance smaller (m):
1000
Obstacles within Area Src do not shield
Src. in Building/Cylinder do not shield
OK
Cancel
Help


Configuration of Calculation
Standards
General
Partition
Ref. Time
Eval.Param.
DTM
Ground Abs.
Reflection
Meteorology
Industry
Road
Railroad
Calculation acc to NMPB
Calc exactly one Reflection Order
Use Multiple Reflection Correction
Calc outer Lanes separately
Emission Calculation:
NMPB
Meteorology...
OK
Cancel
Help


Configuration of Calculation
Standards
General
Partition
Ref. Time
Eval.Param.
DTM
Ground Abs.
Reflection
Meteorology
Industry
Road
Railroad
Calculation acc. to SRM II (Reken- en Meetvoorschriften Railverkeerslawaai '96)
All Emissions at 0.50 m above railhead
Railway Correction (dB):
0.0
Use Non-Standard Reference Time D/E/N = 12/4/8 (see Ref.Time Tab)
Air Absorption acc. to ISO 9613-1
Meteorological Correction Cmet acc. to ISO 9613-2
Other Properties: See Industry.
OK
Cancel
Help


Receiver Grid
Receiver Spacing:
dx (m):
5.00
dy (m):
5.00
Receiver Height (m):
4.00
Absolute
Exclude Sound Sources
Exclude Buildings
Use Height of Buildings
for all Variants
OK
Cancel
Help
Options >>