Release notes

D-Foundations 19.1.1.23780

06-03-2019

New features

MFO-1373	Model *Tension Piles (EC7-NL)* has been extended with a *Verification* option. This allows user to verify their designs made with the *Tension Piles* model according to NEN 9997-1.
MFO-1387	The program has been fully updated to the 2017 version of the NEN 9997-1 (for example, the use of the term characteristic instead of representative).

Limitation

MGEOLIB-854	Input files created with versions older than MFoundation 6.4 (MFoundation is the predecessor of D-Foundations) are no longer supported. When you want to read an old file you can use version 17.1 and save it with a different name.

Fixed bugs

MFO-1459	Model Tension Piles (EC7-NL): An error in the display of the correct levels for the option "Pile tip levels and net bearing capacity" has been fixed. Now the correct levels are shown.
MFO-1340	Model Shallow Foundations (EC7-NL): the determination of the minimum value for the effective width (b') for the check on the tip over stability now always takes the real minimum value.
MFO-1374	Model Shallow Foundations (EC7-NL): the determination of ae and ze are from now on based on phi =0 when the foundation layer is a cohesive layer. If the foundation layer is non cohesive, the actual value for phi is used instead of 0.
MINSTALL-542 & MINSTALL-754	ServiceTool: Minor bug fixes.
MINSTALL-809	Fixed issue that borrowing is not possible for all applications if a local license is present.

Improvements

MFO-1318	All Models: When editing CPT values, the column “Friction [MPa]” is now available for editing too.
MFO-1230	All Models: Improved check on the validity of the input file when it is read. Corrupt files are handled better and result in a error message when read.

MFO-1120	Model Tension Piles (EC7-NL): *Rt;d min* and *Rt;d gem* could be confusing so an explanation for these two values is added to the results.
MFO-1432	Model Tension Piles (EC7-NL): *% Clay* is replaced by *% cohesive layers*.
MFO-1217	Model Tension Piles (EC7-NL): When a real CPT was extended manually because it was not deep enough, the results could become inaccurate specially when this was done by adding only one point. This is now improved in the program itself as from now on checks are made on these manual additions to real CPTs and extra points are added automatically (for the calculation only) when needed.
MFO-1419	Model Tension Piles (EC7-NL):The lay out of the design results could be disrupted in case CPTs with long names were used. This is now fixed.
MFO-1423	Model Tension Piles (EC7-NL): In the Profiles window, tab Layers, sub tab Pore Pressure and OCR the text at the table headers could become not fully readable when the display settings are increased to 125%. This is now fixed.
MFO-668	Model Bearing Piles (EC7-NL): Corrected chapter headers that were too long when printing the *Report*.
MFO-890	Model Bearing Piles (EC7-NL): Added extra soil type Sandy Loam to be able to handle the determination of alpha_s for “Sterk zandig leem” based on the friction ratio when possible.
MFO-1414	Model Bearing Piles (EC7-NL): the option *Pile tip levels and net bearing capacity* sometimes displayed 0 as level where ******* was meant to be shown. This is now fixed.
MFO-1395	Model Shallow Foundations (EC7-NL): In case a slope is used, a warning now will be shown in case the given foundation level is below the toe of the slope.
MFO-1395	Model Shallow Foundations (EC7-NL): Added extra text in the report to indicate that a slope is always along the length of the foundation element.
MFO-1353	All EC7-NL Models: Corrected use of terms for limit states (EQU, STR/GEO, SLS) in program, reports and other results.
MGEOLIB-890	In the *Report*, besides the program version that created the report, also the version that made the calculation is displayed.
MINSTALL-808	ServiceTool: Added possibility to filter the available licenses (All, Server or Local licenses).
MINSTALL-672	ServiceTool: Version number is now shown for each entry in the license overview.
MINSTALL-752	ServiceTool: More information is provided when no license file is found.
MINSTALL-794	ServiceTool: Made manuals available through *Help* menu.
MINSTALL-816 & MINSTALL-835	ServiceTool: Improved the tool so it can handle the situation better when multiple licenses are available on the system: • Improved the view of treeview: show all server and local licenses. • Improved display of used/available licenses when using multiple license files.
MINSTALL-420	Improved error messages when no license is found.
MGEOLIB-910	In *Report Selection* window, add the possibility to use automatic text or user defined text for the *Page number* text.

MGEOLIB-911	In *Report* window, the left alignment of the sentences is improved.

Finally, some minor improvements (mainly typo's and small lay out errors) were made to the program itself as well as to its results.

User manual

MFO-1426	Model Tension Piles (EC7-NL): additional tutorials for the new verification option were created and added to the user manual. The belonging files were added to the group of Examples.

Verification report

MFO-1424	Model Tension Piles (EC7-NL): additional benchmarks were created and calculated for the new verification option. These have been added to the verification report as well as to the group of benchmark files.
MFO-600	CPT Interpretation models: new benchmarks using bm5-1a.gef and bm5-1b.gef were created, checked and added to the group of benchmark files and the verification report.