New feature

This version includes a new module "Direct Pipe" for the design of a pipeline using the Direct Pipe method. This new method enables to lay a prefabricated pipeline in one single, continuous working operation into the ground with the aid of the thrust unit, the pipe thruster. As with pipe jacking, earth excavation is executed by means of a navigable micro-tunnelling machine, which is directly coupled with the pipeline. The tunnel face is slurry supported; a bentonite suspension is often used for a controlled excavation of the soil.

Fixed bugs

- MDR-1207: In the Stress Analysis for load combination 4, the calculated maximum acting stress now includes the extra stress due to temperature variation.
- MINSTALL-809: Fixed issue that borrowing is not possible for all applications if a local license is present.

Improvements

- 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-420: Improved error messages when no license is found.

User manual

- MDR-1207: Table 26.5 (Set for calculation of the maximum stresses for load combination 4) is updated with the extra stress due to temperature variation.
- MDR-1190: Three new tutorials (tutorials 13, 14 and 15) have been added to explain the use of the Direct Pipe technique.
MDR-1112 The Input chapter has been updated and a new chapter (29) has been added for the Direct Pipe technique.

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