

Nowości i zmiany w Geo Professional

Wersja standardowa zawiera wszystkie najnowsze funkcje. Wersja z długoterminowym wsparciem technicznym (LTS) jest aktualizowana wyłącznie o krytyczne poprawki błędów.

Wersja	Fakt	Część	Opis
2026.2.6	2026-09-11		Wersja standardowa
		Zmiany konserwacyjne	• Kody specjalne – kody specjalne w plikach PLM nie były uwzględniane podczas ponownego obliczania. Naprawiono • Zaktualizowane tłumaczenie polskie • Naprawiono błąd w podglądzie narzędzi chmury punktów. • Priorytet plików wykorzystujących przezroczystość w 3D był błędny. Naprawiono • Widok 3D nie obracał się już, gdy przytrzymywano lewy przycisk myszy i aktywne było narzędzie do zaznaczania grafiki, a mysz poruszała się w pustym obszarze bez obiektów, które można było zaznaczyć. Naprawiono • Naprawiono dwa problemy ze stabilnością wykryte przez Sentry, program do obsługi awarii.
2026.2.5	2026-09-03		Wersja standardowa
		Zmiany konserwacyjne	• Eksport LandXML — usunięto formatowanie wartości dziesiętnych w eksporcie atrybutów BIM Alliance . • Podczas korzystania z funkcji automatycznego ukrywania paneli/widoków są one teraz wyświetlane natychmiast, bez konieczności przesuwania animacji . • Ulepszono obsługę awarii dzięki nowemu oknu dialogowemu , w którym użytkownicy mogą przekazywać opinie i dodatkowe informacje. • Modele terenu - domyślne ustawienia dla 2D i 3D są zapisywane osobno . • Mapa wycinania i wypełniania – kolumna kolorów w legendzie była wyświetlana jako szkielec, a nie wypełnienie. Naprawiono • Plik współrzędnych – wypełnianie wielokątów nie działało. Naprawiono • Plik współrzędnych – lokalizacja w 2D z widoku numerycznego, z otwartym punktem odniesienia linii w grafice, wybrany punkt został wyświetlony na karcie przekroju poprzecznego. Naprawiono • Grafika - Podczas zmiany kolejności rysowania plików z liniami punkty nie były rysowane na górze. Naprawiono • Karta graficzna AMD Radeon – powolna grafika z kartą graficzną Radeon. Naprawiono • Rysunek – Statyczny obraz tła nie działał w widoku strony. Naprawiono • Statyczny obraz tła był przycinany do siatki odniesienia, nawet jeśli to ustawienie nie było używane. Naprawiono • Pliki w grafice - Opcje menu prawego przycisku myszy umożliwiające zmianę kolejności rysowania plików zostały wyłączone. Naprawiono • Po przełączeniu aktywnego pliku za pomocą listy rozwijanej , fokus nadal znajdował się na tej liście. Naprawiono • Przeciąganie wskaźnika poza grafikę podczas przesuwania powodowało dziwne zachowanie. Naprawiono

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			- Nie można zamknąć pliku DWG programu AutoCAD bez zamknięcia okna graficznego. Naprawiono - Awaria występowała, gdy ścieżka/nazwy plików były przełączane na pasku narzędzi drzewa projektu, a drzewo projektu było wyłączone. Naprawiono - Zaktualizowane szablony DWT Panele /widoki są wyświetlane bez animacji przesuwania - Aplikacja zawiesza się po wklejeniu ponad 100 tys. punktów w widoku numerycznym . Czas skraca się z minut do sekund. - Naprawiono problemy graficzne występujące, gdy wyświetlano wiele plików z dużymi różnicami wysokości , co mogło spowodować, że nie wszystkie dane były wyświetlane Linie konturowe – opcja właściwości „Łagodne krzywe” nie działała w przypadku plików NIV . Naprawiono - Podgląd wydruku z grafiki używał koloru tła, jeśli wybrano kolor. Naprawiono - Informacje o atrybutach nie były wyświetlane w dedykowanym widoku atrybutów , gdy punkty były wybierane w grafice. Naprawiono - Naprawiono awarię występującą podczas zamykania wielu okien z poziomu Plików w Grafikach lub opcji menu Zamknij wszystko . - Naprawiono problemy ze stabilnością wykryte przez Sentry, program do obsługi awarii, związane z problemami z pamięcią.
2026.2.4	2026-07-16		Wersja standardowa
		Grafika 2D	Opcja dostosowania rozmiaru krzyżyka do rozmiaru okna jest włączona w menu Widok > Opcje > Krzyżyk.
		Zmiany konserwacyjne	- Mapy tła – W niektórych przypadkach aplikacja mogła ulec awarii podczas korzystania z oprogramowania WMTS/WMS firmy Lantmäteriet . Naprawiono - Naprawiono problemy ze stabilnością związane z różnymi narzędziami i aktywnymi plikami. - Narzędzie do przycinania – problemy ze stabilnością podczas próby użycia narzędzia do przycinania dla niektórych zestawów danych. Naprawiono - Wstawianie punktów na linii w sposób graficzny – narzędzie mogło ulec awarii, jeśli linia miała promień, który nie pasował. Naprawiono - Zaktualizowane tłumaczenie szwedzkie
2026.2.3	2026-07-01		Wersja standardowa
		Nowa grafika 2D	- Nowy silnik okien 2D. Szybsze renderowanie dużych zestawów danych. - Możliwość obrotu wokół osi Z. - Kompas dostępny w oknie 2D. - Obsługa kolorów według wysokości modeli terenu w 2D. - Nowy pasek skali. - Okno dialogowe właściwości graficznych z ustawieniami dla okna 2D: - Włączanie/wyłączanie skali. - Włączanie/wyłączanie kompasu. - Włączanie/wyłączanie skali wysokości/nachylenia.

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			• Włączanie/wyłączanie ikony obrotu.
		Grafika	• Kolorowanie według nachylenia - Nowa opcja umożliwiająca kolorowanie modeli terenu (*.trm) na podstawie nachylenia trójkątów. • Easier access to enable Color by Elevation in graphics for supported file types, which currently are terrain models and point clouds. • Color mode - New setting in Files in Graphic with four options: • File color - Default option and file colors are used for visualization. • Elevation - Terrain models and point clouds in the active window are visualized based on elevation. • Slope continuous - Terrain models are visualized based on triangle slopes with smooth a gradient of interpolated colors. • Slope interval - Terrain models are visualized based on triangle slopes, with distinct colors within a fixed range. • Use window color code - New setting in file properties for terrain models and point clouds. • If selected, the file should follow the selected color mode of the graphical window as long as the selected window color mode is supported by the file type. • If not selected, the file is displayed with its file color i.e., the selected window color mode is ignored. • Cancel ongoing selection operation by using escape key [Esc]. • Background maps - Improved performance by better caching of data if it's allowed by used map service.
		Road	• If road line (*.l3d), cross-fall model (*.cfm) or cross section file (*.sec) are displayed in 2D window, the window is updated with three tabs, so it's easy to change view orientation between: • Plan. • Profile. • Cross section. • Current station for the active line reference is now clearly displayed in 2D plan, profile and 3D graphics. • Current station is displayed for all models that are using a line reference e.g., string-line model, tunnel, MBS and trench model. • If the arrows, at the bottom left corner, are used to change stationing, all three tabs are synchronized with the new chainage.
		Terrain	• The tool to create terrain cross sections and profiles by drawing a line in the graphics has been removed and is now added as an option to the workflow views: • Data > Create Terrain Profiles. • Data > Create Terrain Cross Sections.

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			- The create section tool could only cut through one surface, but the new option can cut through multiple surfaces. - Saving the drawn line is optional. New default - Terrain models open in the new 2D window.
		AutoCAD DWG	- AutoCAD DWG files with multiple layouts are displayed with tabs for all available layouts. Makes it easy to switch between model space and available layouts. Select a tab and right click to: - Delete a layout. - Rename a layout. - Edit layout texts. - AutoCAD DWG properties - New dialog to select color for layers.
		IFC	- IFC Search - Matched search results are highlighted in the column, Found in, in the filter window. - Improved behavior when selecting found objects after running a search in the Filter view. - Updated IFC engine.
		LandXML	New option in LandXML export settings to include BIM Alliance standard attributes when exporting to LandXML.
		ISO 15143-4	Import and export of ISO 15143-4 coordinate systems. The option is found in the wizard for coordinate system if any the alternatives Import localization or Export localization is selected.
		Point cloud	2D Polygon Filter - When a file with polygons is added, there are now two menu options: - Hide inside - Points inside the border polygons are hidden. - Hide outside - Points outside the border polygons are hidden. - In the workflow view, Edit Point Cloud Filters, the selection can be inverted like before.
		Maintenance changes	- Improved formatting of log messages both in the console log and log files. Transformation - The place for file search is changed from global folder to project folder, when selecting tpf-file. - The compare file report did not display the full date. It's fixed by moving the creation date to the report header. - View > Save View as > AutoCAD - When exporting selected objects to DWG the selected layer options were ignored. Fixed - Graphic - Better handling for all anti-aliasing multi-sampling configurations to ensure consistent behavior regardless of the NVIDIA override settings. The issue could cause black 3D screen for certain graphical cards.
2026.1.6	2026-04-13		Official Version --> Long-Term Support version (LTS)

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		Revision document	Changed the naming on the versions we release of Geo Professional - The Official version will in the future be named Long-Term Support version and aims for being a stable version where we only fix critical bugs. The color green will be used to graphically clarify the version. - The Latest version will in the future be named Standard version and aims to be a version, where we include new features and bigger changes and let our customers be included to evaluate and test. The color light yellow will be used to graphically clarify the version
		Terrain	- Functions > Validate surface - From this version it's possible to create a corrected surface even if only warnings like caps and needles are found in the model. Earlier the correction option was only available if validated models contained errors. Export points and line - If a coordinate file with points and lines is created from a terrain model, the user can decide if the new file should be visualized in the same window as the model or in a new window.
		ConX	SSO ConX login is supported and Leica myWorld login can be used.
		Net adjustment	- When saving approximate coordinates from a HNA-file, they can now be saved to an already existing file. - When adding new points graphically to a net adjustment, the existing point ID is suggested for the new point, if snap to point is used. If the point is created without snap, the suggested ID is incrementing ID by 1 from previous added point.
		Maintenance changes	- Remote support - New URL is added. - Improved handling when importing point cloud with long file path to the source file, to prevent the created HSPC.pack-files from being saved with a path that is exceeding Windows file path limit. Google Earth Export - Error message when saving the view for visualization in Google Earth. Fixed Trench - If the merge of the main trench model and selected top surface failed, which is the first step when calculating volumes for service trenches, the application crashed. Now a warning message is displayed in the input/output window and the user is advised to validate the top surface. Trench - The label for material code columns was not updated even if the default label was changed. Fixed - Attributes - When changing between different saved window layouts, the attribute drop-down list changed to an icon. Fixed Tunnel - Issues when visualizing break lines for some tunnel difference models (TDM). Fixed Tunnel - Compare survey to design outputs were empty in some cases. Fixed Rotate camera in 3D did not work. Fixed - The list of possible active line references was not updated if some road lines were closed. Fixed

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			• IFC - If some objects were selected in the Filter view and the user wanted to use the right-click menu in the graphics, the menu was not available until the selection tool was activated again. Fixed • IFC - Some IFC models can have very long tool-tip information blocking the view. Fixed by using line breaks for long descriptions. • MBS - Updated buildup layer file (standard.bup). • MBS - Check volume calculation did warn for missing codes in extra excavation, even if codes were added. Fixed • MBS - Changes in file type default settings were not saved. Fixed • MBS - If only one rock model was selected and start/end stations were added, the limitations did not affect the calculated volumes. Fixed • MBS - Surface area calculation did not work as expected in some cases, because duplicate codes were generated in the same layer. Fixed • Net Adjustment - When trying to move a point in a calculated simulation, the output window was filled with warnings. Fixed • GeoTIFF - When importing elevation data to a coordinate file (*.geo), nothing was imported. Fixed • When a line was selected and the right-click option, Connect Line, was used and as a second step a point in the line was moved, the application crashed. Fixed • Set point information - When the option, Show this dialog again for all selected objects, the selected/highlighted text was not pre-selected the second time a point was selected and the dialog displayed. Fixed • Reports - For reports with many rows, only the first page was displayed. Fixed • The tool, Add height in Sequence, did not work in 3D window. Fixed • System report - Crash when system report was created. Fixed • Help text - Updated introduction section, Working with Geo/iCON office, and the text about projects (create, open and delete).
2026.1.5	2026-02-03		Latest Version --> Standard version
		Leica DBX Tools	New version of Leica DBX Tools (v.20) - Import and export of data from/to Leica Captivate.
		Maintenance changes	• Support for HeXML 2.3 • Road line - The limitation of the number of digits that can be copied or typed in numerical view for road lines has been removed. • Coordinate system import - The button, Finish, was disabled in the import dialog for coordinate system, even if a file was selected. Fixed • Point cloud from MS60 - New station coordinates could not be applied. Fixed • Tunnel - Invalid model bounds in the plan view of TBS. When changing between different combinations of display modes of the TDM, the model was not always visible. Fixed • Updated Polish translation
2026.1.3	2025-12-22		Latest Version

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		IFC	IFC filter view - The filter view is now initiated directly when a file is opened.
		Maintenance changes	- New installation - Not possible to create a new project, if the active project couldn't be read or if it was a new clean installation with no available projects. The application would stop working when trying to create a new project. Fixed - Files in Graphics - Send backward did not work as expected. Fixed 3D graphics - Zoom with mouse wheel, when height was distorted, caused some issues. Fixed Reports - Some headers were missing i UIM length report and volume calculation from cross sections. Fixed Reset window layout - When the reset option was used, the language was reset to English. Fixed - Tunnel - Improved how the rotation center is defined for a TBS with a 3D dwg. - Issues with tooltip in 3D window in some special cases e.g., if a line was parallel to any coordinate axis. Fixed - Strange zoom limits were off for some specific IFC files. Fixed
2026.1.1	2025-12-08		Latest Version
		Files in graphics	New dialog (<u>replacement of Document in Graphical View</u>) to manage open files in the graphics. Dockable window - The user can decide where to place the window for easy access when working. - Non-modal i.e., the window is not blocking the application, so the user can continue to interact with e.g. the graphics window.
		File search in dialogs	Search functionality has been added to several dialogs to make it easier and faster to select input files. - Instant search and matched search results are highlighted. - The list of found files is sorted based on matched percentage. All files available in the project folder and its sub-folders are included in the search. - Filter - Only files of the expected file type(s) are listed.
		Code search	If a code list is selected for the active project, search functionality is available in the dialogs, Select Point Code and Select Line Code. - Instant search and matched search results are highlighted. - Search by code, description, layer or BH90. - Still possible to add any code i.e., code not available in active code list.
		3D Graphic	Improved Fly-Through in 3D window (View > Fly-Through) - Easier to access the function by the new fly-through icon at the bottom of the window, next to active reference line. - Updated dialog with more settings:

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			- The fly path can be limited by changing start and end station. - Pause option - Step forward and backward - Current station is displayed in both dialog and graphical window. Rotation center - Improved how the rotation center in 3D window is defined for surfaces and lines in the following formats: TRM, AutoCAD DWG, IFC and LandXML - If the cursor is held over an object, when the mouse button or the space bar key is pressed, that object and its height decides the rotation center. - If no object is found, the rotation center is determined like today i.e., at the center of visible objects. - For other file formats, the rotation center is defined at the center of all visible objects.
		Window Layouts	- In the menu Window, three more options are added so the user can create and save different layouts for different workflows. The size and location for the different windows are saved. Save Window Layout - The current layout, of windows and toolbars, is saved with any name. Apply Window Layout - Select layout from the list of available layouts. Manage Window Layouts - Possible to rename or delete already saved layouts. Restore Window Layout - The restore function is improved and includes even toolbar layout and width of project tree, workflow and other views etc.
		IFC	- Improved graphical functions to find objects by selecting objects in graphics and use options in a new context menu (right-click menu): - Toggle off options: - Hide selected objects - Hide non-selected objects - Hide selected IFC Type(s) - Hide non-selected IFC Type(s) - Select options: - Select selected IFC type(s) - With this option the user can select all objects of the same IFC type that currently are selected. - Unselect all - Show hidden objects - With this option all hidden objects, that are toggled off from the Filter View or the graphics, are visualized again.

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			• Search functionality - Improved search functionality in the filter view and it's possible to search for any property. Earlier only name, description and IFC type were included in the search. • To improve the search and get a more limited list of matched results, there are two settings that can be used: • Category - Select all, or which category to include in the search. • Property - Select all, or which property to include in the search. • A context menu is added to the filter view when items are selected: • Hide selected objects • Hide non-selected objects • Hide selected IFC Type(s) • Hide non-selected IFC Type(s) • Extract solids as surfaces - A new option, Merged, is added. • If not selected --> An individual surface (*.TRM) for every solid are created. • If selected and multiple solids are selected --> The extracted surfaces will be merged into one surface (*.TRM). • Save selection as AutoCAD DWG – Improvements when saving selected IFC objects direct to a DWG file. • If the option, Extract solids as surfaces, is used and selected IFC objects are saved directly to an AutoCAD DWG file, the objects are now saved as 3D faces in the AutoCAD DWG. • If the option, Extract solids as surfaces, is not activated, the selected IFC objects are saved as 3D points and poly lines in the AutoCAD DWG file.
		LandXML	Translation of exported attributes - Points and lines can have attributes included in the export and if both the new option, Translate exported attributes, is activated and an attribute file (*.ATR) is selected in project settings, the attributes are formatted and translated according to descriptions in the active attribute file.
		AutoCAD DWG	• AutoCAD DWG Properties - The dialog is updated with: • New options to add and delete layers. If layers are deleted, the user will get a chance to delete layer AND all entities linked to it. • Bold font is used for current layer. • Layer name is automatically displayed in tool-tip, if the name column doesn't fit the full name. • AutoCAD DWG export with base drawing (AutoCAD DWT) - When exporting a coordinate file and the used base drawing contains layer descriptions, the descriptions will not be replaced. The code description will only be set as a layer description for new layers or existing layers without description. • AutoCAD DWG export with AutoCAD DWT and code list - To avoid inserting both a point and a block at the

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			same position, when exporting a coordinate file, there will only be extra block inserted in these cases: - The user has point texts switched on (number/code/heights/remark/attributes) in the graphic. - The AutoCAD DWG block stated in the code list can't be found. → This means that in case the user only has point marks visible in the coordinate file and blocks are found in the AutoCAD DWT, no extra blocks will be inserted in the export.
		Coordinate files	Water flow direction - New option to turn on a symbol to visualize flow direction for 3D lines. The setting can be toggled on in document properties for coordinate files. Coordinate lines - A remark column is added to the numerical view for lines and the remark value follows to the length report.
		Terrain	- If a terrain model has a surface color saved to file, the same color is now used as identification color in e.g., Files in Graphics and as layer color in Cross Section Preview. - Difference model - If the points in the model should be visualized, the points are now displayed with selected cut and fill colors.
		Point cloud	Quick Compare - For the quick compare tool, where a point cloud can be compared with a surface (TRM), a cut and fill AutoCAD DWG with difference height values and legend has been added as output option.
		Maintenance changes	- Leica TS20 is added to the list of known total stations and the values for atmospheric correction are set accordingly. Tunnel - Default colors for the tunnel difference model (TDM) are updated. Attribute list - The 20-character limit for Attribute Type and Description is removed and the default width for both columns is increased. Length report - The report ignores points if special code R is used without a remark value added. Fixed - Volume calculation, Stockpile - The report title was not translated to Swedish. Fixed Leica DBX import - If a text field has a comma in front, it caused problems in the generated (*.GEO)- and (*.PLM)-files. The values could be shifted one step to the right. Fixed Updated report templates for MBS, UIM, Model to Model and Stockpile volume calculations.
2025.2.5	2025-11-26		Official Version
		LandXML	ISO LandXML Export - The ISO schema is strict when it comes to duplicated names. A single point can't have the same name as a line. New option to auto-resolve name conflicts between objects when exporting to ISO LandXML and DBX.
		Maintenance changes	Terrain - Volume calculation, model to model, when different border polygon files are selected, the volumes, in

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			the report, was adding up each time. The polygon volumes are not cleared between each calculation. Fixed • LandXML export - Line attributes are duplicated to next line. Fixed • Help Layer - The application could crash when the Help Layer was used in multiple windows. Fixed • Tunnel - When creating a colored difference map (*.TDM), the map is correct, but the legend is always placed at the start station even if a start station limit is used in the workflow view. Fixed • Tunnel - Blank 3D color difference model (AutoCAD DWG) was created for some TBS models. Fixed • Tunnel - To create a 2D difference model (AutoCAD DWG) could cause a crash for certain TBS models. Fixed • In the numerical view, point code description was missing if a point code that started with a dash. Fixed
2025.2.4	2025-11-11		Official Version
		Maintenance changes	• LandXML export - If there was a mix of single points with attributes and some without attributes in a coordinate file (*.geo) and the file was exported to LandXML, points without attribute were excluded in the export. Fixed • Point symbols had different orientation in 2D and 3D window. Fixed • Crop Terrain Model - Crop model with concave polygon, some gaps were observed. Fixed
2025.2.3	2025-10-15		Official Version
		Coordinate files	• Localize numerically - If the graphically function is used for a certain point in a line, the line node is expanded and the specific point is selected in the numerical view as well. • Localize graphically - If the right click menu option is used for a point in a line, the line is selected and the selected point is zoomed in to, in the graphics. • Line code description is added to the tool-tip information.
		Road	• Direction symbol is available in 3D window. • Vertical element height settings are now taken from the tab, Plane View Properties, in the property dialog.
		Terrain	Extend model with offset and height - New option, Automatic updates, is added so the user can decide if the model should be updated automatically when settings are changed, or triggered it manually. Initially, when the function is selected, no instant extension is done. Instead the user can verify the settings and decide when the first preview should be done.

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		LandXML	- For LandXML with Alignments a new option, L3D, is added in addition to the existing LMD and in some case MBS alternatives. If L3D is selected, all Alignments are imported as L3D files. - Exporting points and lines with attributes to LandXML (as decided within BIM Alliance Swedish). - UIM import settings are only displayed if the XML file contains <PipeNetworks>.
		IFC	Improved tool-tip information - The selected category, the setting is found in the workflow view, is added to the tool-tip information.
		AutoCAD DWG	In Data > External References it's possible to edit and fix a broken Xref path .
		Maintenance changes	- Code list - A new code list, based on the document TDOK 2019-0215, is added to the installation. - Terrain model - Colors were written with complete transparency (alpha = 0), so models were not visible in GeoPadNX. Fixed - Drawing - Coordinate list in drawing did not use the selected project settings for coordinates. Fixed Trimble DC - Failed import if the DC file contained more than one coordinate system. Fixed - Tunnel - When calculating a TBS and only sec-files were created, the application could crash when saving the sec-file. Fixed - IFC - shadowed triangles could be seen in some vertical areas. Fixed GeoTIFF - It could take a very long time to generate a tiled image if the file extension of the source file was *.tiff and the result was not visualized in the graphics. Fixed - Report to Excel - Values in the remark field could be lost in the export to Excel format. Fixed - Report to Excel - Dash '-' is replaced with 0 when exporting to Excel. - Report to Excel - Merged cells were were split into separate cells for reports generated from MBS, TBS and UIM. Fixed - Reports with image - When the description in an image tab was edited, the initial description was duplicated in adjacent cells. Fixed - Volume report, terrain model - In the Swedish version the report was not fully translated. Fixed DGN Import - In created DWG the unit was set to imperial measure unit. Fixed - Files in Graphic - When opening a new window, 2D or 3D, the same set of files are opened but the visibility state was not copied. Fixed. - Difference Model - Breaklines were not displayed with selected color when switching to wire-frame mode. Fixed - Cross sections - Layer properties were not written to the sec-file when a file created in an older version was re-saved in a newer version. Fixed - Modify points - Range function did not work as expected in some cases e.g., when start and end points were the same. Fixed - Cut and Fill Map - Height intervals and areas were not added to the correct layers in the DWG. Fixed - Attribute file - Error message when trying to set an atr-file. Fixed

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			- Trench - It was not possible to reset volume properties to default values. Fixed - Trench - In some cases excavation model with no bedding was created. Fixed - Code list - Length limitation is removed for code and description when editing code list. - New code list "bh90-2025-sb11-version-2025-1.cod" and AutoCAD templates "AutoCAD mallar "BH90 basritning 2025 - SB11 (Version 2025-1).dwt" according to BIM Alliance Sweden are added to the installation. - Network license - The license manager didn't prompt the user to add new credentials when the credentials were updated. Fixed
2025.2.2	2025-07-04		Latest Version
		Coordinate files	Convert radii to line segments - New option in the right click menu for poly lines to convert radius to short segments based on a user defined tolerance.
		Maintenance changes	Excel export - Numerical formatting issue is fixed. Excel export - Title description was added multiple times. Fixed Reports - In some cases it was issues with full and relative path, when image file was added to report. Fixed Reports - Images added were not displayed, if reports were saved to desktop. Fixed Reports - In some reports numeric values were not aligned to the right. Fixed - Tooltip was not shown in 3D for some AutoCAD DWG files. Fixed IFC - Files were not always visualized because no surface mode was selected in IFC properties. Filled + wire frame is now set as default. Fixed - File filter was not always properly initialized in File dialog. Fixed - Issue to open a TBS or MBS model, where there is an expected filename but a blank value is given instead. Fixed - New ISO-Landxml schema is added. - Updated Polish translation
2025.2.1	2025-06-25		Latest Version
		Reports	- Support for adding images to reports. Images can be added as: - Image from disc (Data > Add Image). - Screen shots (View > Save View as > Image for Report). - Updated data menu for report: - Export report to PDF or Excel. - Rename tab - Delete tab - Toggle display view for reports: - Data View - The current report view with tabs. - Print View - Print preview i.e., how the report is displayed if exported to PDF or printed.

Wersja	Fakt	Część	Opis
			To change default display view for reports: Edit > Preferences > Printing and uncheck the option, Open reports in Print view.
		Terrain	Volume Calculation, Summarized - New workflow to calculate and summarize multiple combinations of model to model volumes in one report with the following report options: - One report, but each pair of surfaces are reported in individual tabs/pages. - A new report option that reports summarized cut and fill volumes on the first tab/page. - All cut and fill volumes can be summed up. - All cut and fill can be summed up based on used material code. - A compiled report i.e., all calculated volumes are displayed in one tab/page. - Volume Calculation, Terrain Model - New options to add material code and description for calculated values. The information is added to the report. - Merge Models - Switch model option between source and input model is added to the workflow view.
		Stockpile	- Improved workflow when reporting stockpile volumes from point cloud. - Surveyed file in the field can be used to define boundaries of stockpiles. - Line name is used as name of stockpile, but it can be changed by the user. - Line code is used as material code, but it can be changed by the user. - If the line code is missing, the point code of the first point is used as material code. - If a line code description is available, it's used as description of the stockpile, but it can be changed. - In addition to a report, created stockpiles can be exported as surfaces to a AutoCAD DWG file and are added as individual layers. If colors are used, the color information is kept.
		Volume	New option in the Data menu for cross section files to calculate volumes direct from sec-files that contain cross section areas. - Preview of calculated volumes in the workflow view. - Possible to generate a report. - Requires the license option Volume.
		3D Graphics	Updated 3D graphic which will improve the visualization of heavy files and enable more graphical functions in the future. - Document properties for coordinate files (*.geo) is using the same dialog for 2D and 3D, but selected settings are saved separate for 2D and 3D window.

Wersja	Fakt	Część	Opis
			Possible to turn on and visualize direction symbol for poly lines in 3D window.
		File selection	A number of workflow views are updated with a new faster option to select files for the different functions. All open files of the right type, are selectable in a drop-down list.
		Search functions	File search - New search dialog where you can search for files in the project and in all its subfolders. - Found files can be opened and deleted from the dialog. - Setting to display the whole file path or just file name. - Command search to find and trigger functions without searching in the different menus.
		Bricsys 24/7	Improved support for the cloud service, Bricsys 24/7: - In Bricsys 24/7 it's possible to apply forms to certain folders on the server, which means that both required and not required meta data can be added when files are uploaded. This workflow is now supported, and a dynamic dialog is displayed during upload, so the user can add information. - Naming of files on the server, based on added information, is supported.
		Trench	- The Data menu is updated so the different menu options with workflow views, can be closed without having to close the trench model (*.uim). - A special attribute file, UIM.atr, suitable for trench projects is added to the installation.
		Surveying	Traceability attributes on point level are added when coordinates are calculated from a survey file (*.plm): - Source file (sourceFile) - Source station (sourceStation) - Original point ID used in the PLM-file (sourceRecord)
		IFC	- Last selected property type, to display in the workflow view for selected IFC objects, is now remembered during a file session. Sync properties - If the option is ticked, multiple objects are selected and the user would like to change the displayed property type for one object, the type is automatically changed for all selected objects.
		LandXML	Settings are added to the XML export dialog, so extensions can be used when data is exported to XML: - No extension HeXML (for additional information e.g. colors that is not supported in standard LandXML), this is the default option. ISO 15143-4

Wersja	Fakt	Część	Opis
		AutoCAD DWG	Support for utilizing a dynamic scale-bar inside a AutoCAD DWG template paper layout.
		Maintenance changes	• Some reports changed layout, color was added to alternate rows, after they were saved and reopened. Fixed • IFC - Deselection of objects was not reflected in the workflow view. Fixed • AutoCAD DWG Layout Workflow - When switching between layouts the text labels in the workflow view were not updated. Fixed • AutoCAD DWG Export - The stored font selection was overwritten if a base drawing was used. Fixed • AutoCAD DWG Export - Using code list when exporting lines to DWG, the lines were only exported if the code had a block name defined. • Crop Model - Crash when a concave polygon was used for cutting a model. Fixed. • Color by elevation was not working correctly for certain models. Fixed with the new 3D graphic. • Excel Export - Allow both *.xlsx and the old *.xls, when exporting reports to Excel format.
2025.1.3	2025-04-16		Official Version
		Terrain	Graphical properties for terrain models are saved separate for 2D and 3D.
		Graphics	The application will automatically use the high performance graphic card .
		AutoCAD DWG	• AutoCAD DWG containing object with height = 0 is visualized at height 0 in 3D view and not on the reference grid. • New option in the dialog, Document Properties for DWG/DXF files, called Clamp to reference grid. If selected, all objects are drawn on the reference grid in 3D window.
		Maintenance changes	• Trench - Some bugs and issues when creating excavation models of complex trenches are fixed. • Trench - When cut volumes for service trenches were calculated and the merged model of trenches and top surface couldn't be created, the theoretical trench depth was used instead. This could cause wrong cut volumes for service trenches. Fixed • Trench - Crash when inserting a side pipe and changing name in the import wizard. Fixed • Protection fill was drawn differently when exported from drawing to DWG. Fixed • Coordinate file - If a coordinate file was open in both 2D and 3D window, a change of properties in one view did affect the other view as well. Fixed • LandXML - Issue when importing one horizontal alignment with two vertical profiles. Fixed • HeXML - Schema version 2.1 is added. In some cases Captivate is exporting coordinate system with schema 2.1. • ESRI Shape - Imported of line with color, the color attribute was not imported. Fixed • Updated Polish translation • Cut terrain model - Not possible to change the station limits. Fixed

Wersja	Fakt	Część	Opis
			• Cross section - In the dialog to create cross section areas between layers, long layer names were not visible. Fixed • Create new project - Shortcut templates were not used correctly in some cases. Fixed • Compare files - Line names were not added to the report. Fixed • Point cloud - Some point clouds were not visualized when integrated graphic card was used. Fixed • Bricsys 24/7 - Empty project list in the select project dialog. Fixed • Net adjustment - File (*.HNA) without observations can not be opened. Fixed • View > Toolbar - Toolbar for point cloud and help layer could not be toggled on/off. Fixed • Drawing - If a terrain model was added to a drawing and saved and reopened again, the application could crash. Fixed
2025.1.2	2025-01-31		Latest version
		Map sources	New option to export global map sources to be used in GeoPadNX .
		Maintenance changes	• Net adjustment - Observations not properly updated when pasting into Data tab. • Auto join lines - Special code and remarks disappeared. • Create new project - If a user defined project template was used, no folders were created. • Connect lines - When lines with colors were connected, multiple color attribute lists were added to the file. • Connect lines - The function did not work as expected in some cases e.g., the line ID was not taken from the first selected line. • Volume report - In volume calculation, English version, the report said Difference Model, when it should be Model to Model. • Updated Swedish translation. • In some DWT layouts the angle 0, 0, 1 (top view) were missing. • HeXML schema 2.2 is added to installation.
2025.1.1	2024-12-19		Latest version
		Terrain	• Extend Model - In addition to extend a model with offset and height, an existing model can now be extended to another surface with user defined upward or downward slopes. The extend model can also be merged with the target surface. • New option to set surface colors for terrain models (TRM), when the models are created: • From point and lines in coordinate files. • From any of the surface extraction tools available for point clouds. • From the stockpile tool available for point clouds • Remove Colors - In the Data menu there is a new option to remove colors saved to file for terrain models. • Crop model - Two more cutting methods are added: • Keep triangles that are intersecting or inside polygon.

Wersja	Fakt	Część	Opis
			• Keep triangles that are intersecting or outside polygon. • The menu option, Heights, is implemented for difference models again, so a coordinate file can be draped on difference model and get updated height values.
		Trench	• Pipe related attributes e.g., diameter and thickness, are automatically set when importing pipes to a trench model. • New option in the Data menu to delete service trenches and their associated pipes from a trench model. • Support to set material codes for for pipes in service trenches. • Excavation Extension - The main trench can be extended with a user defined length in both ends of the trench. The created excavation model will be extended according to these values. Select the tree node, Earthwork, to add a backward and/or forward extension. • Excavation Extension for service trenches - Service trenches can be extended with a user defined length in the forward direction to extend the excavation model. Select the node, Earthwork-Services, to add a forward extension. • Trench model (UIM) can be exported to AutoCAD DWG. Select plan or 3D visualization tab and go View > Save View as > AutoCAD DWG file. • Excavation model - New option, Rounded endings, so the trench get nice rounded walls in the ends. • The property dialog is updated with support for service trenches. • Slope values for service pipes can be turn on and displayed in the graphics.
		Point cloud	• Stockpile Tool - Improved workflow when stockpile models and volumes are extracted from a point cloud. The following information can be set in the workflow view, before the stockpile is added to the list: • Material code • Description • Color - Selected color is used in the preview of the stockpile and when a TIN model (TRM) is created.
		Create new project	• A new updated, Create New Project dialog, with more settings. The following project settings can be done already in the dialog: • Coordinate system • Code list • Symbol file • Line type file • Attribute file • If the same settings, as in current project, will be used in the new project, a quick button, Copy from current project, is available. • The setting for attribute file (ATR) is changed from a global setting to a project setting i.e., each project can have a unique attribute file selected. If no ATR-file is selected for a project, the global ATR-file is used.

Wersja	Fakt	Część	Opis
		Short cuts	Useful short cuts if project code list or attribute file should be edited e.g. to enable more columns in the numerical view: • Go to, File > Open Active Code List, to open the selected code list. • Go to, File > Open Active Attribute Definition, to open the selected attribute file.
		Net adjustment	• Localize observation graphically - From the numerical view, right click on an observation and select, Localize graphically, and the observation can be seen in the graphical view. It works for Know points, Approximate points, Observations and New points. • Localize numerically - From the graphical view, select and right click on an observation symbol, and select, Localize numerically, and the observation can be seen in the numerical view. It works for points and observations. • Increased trace-ability - PLM-files used in the adjustment are added as source files to the report. • Movement of control points is added to the report for strict adjustment. • Create field protocol - Possible to create a field protocol from the simulated net with a list of what should be surveyed, including columns for additional information. • Use mean value for multiple distances - In the dialog for a priori standard deviations, a new setting is added and if selected, only one observation is created for each unique distance in the data set. The setting is added for both horizontal and leveling net adjustments. • Improved background colors in both horizontal and leveling net adjustment reports.
		PDF	AutoCAD DWG to PDF - Improved export dialog for 2D PDF with more settings and information about e.g. scale and resolution. Both active layout and model space can be exported to the same PDF.
		AutoCAD DWG	• Surfaces imported from DWG/DXF files can keep the color, if the option, Keep color from source, is selected in the dialog Extract Surfaces from AutoCAD. • The tool, Pick Height from Text, can now fetch a height from block attributes (it already works for Text and MText objects). • Improved and clearer highlighting when objects are selected in the graphics. • Updated ODA library.
		IFC	• Support for IFC 4.3 Alignments • Surfaces imported from IFC files can keep the color, if the option, Keep color from source, is selected
		Background maps	Settings > Edit Maps > Add New - The dialog to handle background maps is updated, so both the functionality to create new map sources e.g., generate tiles of a large GeoTIFF image or to add already existing map sources e.g. an already geo-referenced static image , can be reach from the same dialog.
		Graphics	• Improved visibility of selected points in an area selection. • Preview of the tool, Draw line, is more visible.

Wersja	Fakt	Część	Opis
			- New short cut command, Alt+M, for the measure tool. - Created but unsaved files are displayed with suggested names within brackets, instead of untitled.
		Maintenance changes	- Trench - Rock layer was not correct in some cases. Fixed LandXML from Civil 3D - Import of “PlanFeatures”, even if a required attribute is missing. - Net adjustment - Recalculating of a priori in net adjustment, with same settings gave different values. Fixed. - Not possible to validate an untitled i.e., not saved, terrain model. Fixed - When using a map service in a large area, only a part of the image was drawn. Fixed. - DWG Export - The color attribute for a circle defined by special code C, is not set when exporting to DWG. Fixed
2024.2.5	2024-12-09		Official version
		Coordinate file	- The 12 character limitation for line names is removed. - Description is added for line code in the numerical view.
		Maintenance changes	- Error 400 from license server if the computer name or Windows user name contains some special characters. Fixed - Terrain model - Different 2D and 3D settings can be applied for the two views. - To toggle all files in graphical window on/off, didn't work as expected. Fixed - Trench model - Crash in surface calculation because of some tolerance issues. Fixed
2024.2.4	2024-11-05		Official version
		Coordinate file	Line code - A browse button and a drop-down list to select a line code are added to the right click line properties dialog.
		Leveling	The 12 character limit when editing point numbers and codes in lvt-files is removed.
		Maintenance changes	- Set Point Information - The didn't work correctly with height and color changes simultaneously. Fixed - Save Graphic View - Older saved graphic view files (ggv) could not be opened in 2024.2 versions. Fixed - Insert Points on Line - The sloping distance option was broken. Fixed - Crash when adding color attribute to a line from the right click property dialog. Fixed
2024.2.3	2024-10-24		Official version
		Maintenance changes	- Several stability issues reported to the crash server have been fixed. - Cut and fill map - The contour lines in the created AutoCAD DWG didn't have delta height information. Fixed - Tunnel - The TBS calculated the surface area for rock wrong in some cases. Fixed

Wersja	Fakt	Część	Opis
			• Tunnel - Issues with outside rock are fixed. • Tunnel - The wire frame for the tunnel difference model was broken in 3D tab. Fixed • The tool, Copy to Active File, was hard to reset when the option, Apply for all Lines, was selected. Fixed • Trench - Default setting for high/low rock is changed from 0.7 m to 1.0 m. • Trench - When saving cross-sections generated from a UIM, suggested names were not displayed. Fixed • Trench - When creating an excavation model the preview was not cleared. Fixed • AutoCAD DWG - Incorrect scale for text was used. Fixed • ESRI Shape - Unicode issue when importing for example characters like å, ä, ö. Fixed • Leica GSI Import - Issue when importing leveling data is fixed. Wrong interpretation of code 334. • When points/lines were copied and pasted into a new file, the colors were not shown directly. Fixed.
2024.2.2	2024-08-23		Latest version
		Trench (UIM)	• Improved reporting and output for UIM with service trenches: • Create cross sections • All service trenches are listed in the workflow view and the user can decide which to include. • New option to open created cross section files in the 3D visualization tab of the UIM or in a new separate window. • Volume and area calculation • New option to get a summarized volume and area report for service trenches, with tabs for individual service trench volumes, in the same report. • Length report • Separate reports, one for pipes in the main trench and one length report for pipes in service trenches. • In the length report for pipes in service trenches, all pipe lengths are summarized on the first tab. If material codes are used, the pipes are summed up according to material code. Separate tabs for the individual service trenches. • Rock shelf is implemented for service trenches. When the main trench contains rock shelf, it's extended to the service trenches within the same stationing as well. Settings from the main trench are used. • Material code can be set for service pipes. New column to add code if the tree node Service Pipes is selected. • Create excavation model improvements: • Preview of excavation model in the visualization tab of the UIM.

Wersja	Fakt	Część	Opis
			- When creating a file of the model the user can decide to open the new excavation model in the 3D visualization tab or in a new separate window. Used models (top surface, rock, user1, backfill surface) are turned off as default in 2D plan view and 3D visualization tab so the pipes are visible. The models can easily be toggled on in Documents in Graphical View.
		Maintenance changes	WMTS/WMS - Issues with background map services in combination with AutoCAD DWG are fixed. - Updated mMap - Terrain model - Not possible to select triangle nodes without showing points in TRM. Fixed - Trench - When changing start station for a UIM, the stationing for the start of service trenches were not updated. Fixed - Issues when selecting lok-file dependencies e.g., Geoid or correction models, from project folder. Fixed - Parallel line tool - Strange arc created when using the method with inserted points. Fixed - Crash when more than one AutoCAD DWG was used in a drawing. Fixed - A number of stability issues reported to the crash server are fixed.
2024.2.1	2024-06-24		Latest version
		Trench (UIM)	Support for service trenches that connects to the main trench: - Add Service Pipes - A new option in the Data menu for trench models (UIM). - Added service pipes are listed below the tree node, Service Pipelines. - At the node, Earthwork-Services, the settings for service trenches can be found. - Create Excavation Model - New option, Include service trenches, to create a combined model with the main trench and service trenches. - Create Cross Sections - New option, Include service trenches, to create cross sections for service trenches. - Volume and Area Calculation - New option, Include service trenches, volumes and areas are calculated and reported for service trenches as well. - Flexible rock shelf: - It possible to specify the stations where rock shelf should be used. - Difference widths can be defined. - Improved excavation model: - If the new option, Include models, is selected the active models e.g., top surface and rock, and the defined calculation interval are used when the excavation model is created. - If not selected, the active models are not used and the trench depth value is used to define at which

Wersja	Fakt	Część	Opis
			level the walls should stop. • The last used coordinate file for pipe profiles is pre-selected in the wizard, when additional pipes will be added. • Improved trace ability - Information about used source files for the pipes is available in File > View/Edit File Info.
		Trench data preparation	• New workflow and tools to improve the data preparation of input data for trench models(UIM): • Add Height in Sequence - Height can be set to points and lines in a sequence. • Pick Height from Text - Similar to a snap tool, it can grab a Text/MText height value from a AutoCAD DWG and add the height a coordinate file. • Updated Set Point/Line Information tool, so two attributes can be set to points and lines. • Two service trench pipe related attributes can be added and make it possible to import multiple service pipes at once and service trenches are created automatically. • “PipeServiceName” - Name of a service trench. If used, a service trench with this name is created during import and the pipe is added to that trench. • “PipeServiceFrom” - From which pipe in the main trench, the service pipe is connected to. If used, it’s possible to insert e.g. all water pipes with its specific settings at once.
		Coordinate file (GEO)	• Add Height in Sequence - A new graphic tool to add height to points and lines by selecting one of the two options, Height or Slope %, in the drop down list. • Height - Type in a height value and confirm with [Enter]. • Slope % - Add a slope percent value and confirm with [Enter]. This option only works if the previous point in the line has height and this height and the slope is used to calculate the height for the selected point. • The next point in the line or single point in the file, without height, is automatically selected. • Set point/Line Information - The tool is improved and if the project has an attribute file(ATR) defined, two attributes for point and lines can be added. • Select attribute from a drop down list, give a value and update points/lines in graphics by selecting them. Select the tool again to show the dialog and change the input.

Wersja	Fakt	Część	Opis
		Terrain model (TRM)	- Improved 3D visualization: - Support for both solid color and wire-frame at the same time. - Contour lines can be visualized in 3D. - Points can be visualized in 3D. - Updated property dialog, 2D and 3D settings are merged to the same dialog. Color support - The selected colors can be applied and saved to file, so the same colors is used next time the model opens in graphics. - Extend model - New option to extend a terrain model(TRM) with a height difference and a slope value. The model is extended with the define slope until the height difference is achieved.
		AutoCAD DWG (DWG)	- Extract surfaces from Solids: - Data > Extract Surfaces from AutoCAD DWG, if a solid is selected it can now be extracted as a surface (TRM). The user decides if the highest or lowest level should be imported. <u>Requires the terrain license.</u> - Pick Height from Text - A new tool to pick a height value, Text/MText, from a AutoCAD DWG file and use in combination with Draw Point, Draw Line or Add Height in Sequence tools.
		IFC (IFC)	Solids - New options in the workflow view for IFC models, so selected objects can be saved as a surface instead as points and lines. The user defines if the highest or lowest level should be saved as a terrain model(TRM). <u>Requires the terrain license.</u>
		LandXML (XML)	Support for LandXML surface with the Property label, "M_Color" . The surface is visualized with color in the LandXML viewer and if imported, the terrain model(TRM) will get the corresponding color.
		Maintenance changes	- Updated attribute files(ATR) with attributes regarding trench model workflows. PDF - In some cases when a PDF file was opened by drag and drop from project tree, the application could crash. Fixed
2024.1.7	2024-06-24		Official version
		Maintenance changes	- Decimal setting in properties affects even if not used. - Pressing Enter when creating filter under Modify Points does not recognize values. - Pressing Enter when Modify Point value does not recognize values. - Within a session , the settings for Create terrain model should be retained. - Save last setting for scale, when create AutoCAD DWG. - Enter used directly in modify selected objects, result in no change.

Wersja	Fakt	Część	Opis
2024.1.6	2024-04-04		Official version
		Maintenance changes	• Geo crashes on selecting the drop down of files opened. • UIM Don't use the calculation intervals when calculating the pipe bedding.
2024.1.5	2024-03-22		Official version
		Coordinate system	Updated version of the localization file (version 5) with a new option to apply a local correction grid before the local transformation, see last page in the coordinate system wizard. • The option is used in shifted UKTM projections for highway projects in United Kingdom (TMx projection in Captivate). • If the combination of a local correction model and local transformation is not used, it's recommended to save the LOK-file as version 4 to make sure that older versions of MC1, iCON site, iCON 3D and GeoPad can use it.
		Maintenance changes	• To save untitled terrain models(TRM) to a file server could take a very long time. Fixed. • Volume Calculation(MBS) with border polygon could cause a crash in some cases. Fixed. • Point cloud(GPC) - If point type sphere was used, the point cloud could hide AutoCAD DWG data. Fixed. • LandXML(XML) import - Some stability issues when visualizing XML files are fixed. • Data > Create a Code Report(REP) could cause a crash. Fixed. • The drop-down box with active files could not scroll using the mouse wheel anymore. Fixed. • Trench(UIM) - Crash when copying and pasting pipeline geometries (E, N) with more rows than existing geometry. Fixed. • Stability improvements - A number of reports from the crash server were fixed.
2024.1.4	2024-02-09		Official version
		Coordinate file (GEO)	Now it is possible to get slope value, %, To point and From point on a coordinate line in object information (yellow popup).
		Maintenance changes	• Snap to insertion point in AutoCAD DWG was broken for block. Fixed. • Drawing(DRA) properties icon was misplaced under another icon. Fixed.
2024.1.3	2024-01-26		Official version
		GeoTIFF height model	Now it's optional to decide if EPSG code should be used when importing GeoTiff heights to coordinate file or point cloud.
		Graphics	• New button to toggle remarks on/off in graphic view. • Window and toolbar positions are saved separately for each version. It will solve issues e.g., windows in strange places, when jumping between multiple versions.

Wersja	Fakt	Część	Opis
		AutoCAD DWG (DWG)	• Hide selected objects - New option to isolate objects in AutoCAD DWG files. Select objects and the new option can be found in the right click menu. • Create Cut and Fill Map - Information about the different areas percentage of the total area is added to the AutoCAD DWG. • Select Units - The dialog when opening AutoCAD DWG files is updated with more information about the different options. • Change layer name in AutoCAD DWG by double click on layer in Properties.
		Trench (UIM)	The last used input file(GEO) is pre-selected in the dialog when inserting more pipes.
		Road (L3D)	Create Road Line - Possible to create a road line from a line even if all points don't have heights. Vertical nodes are only created at stations with height.
		Maintenance changes	• Parallel line tool didn't work as expected. Fixed. • Create cross section and profile did not work from UIM 3D-view. Fixed. • Snap to perpendicular was broken when drawing polyline and using undo. Fixed.