

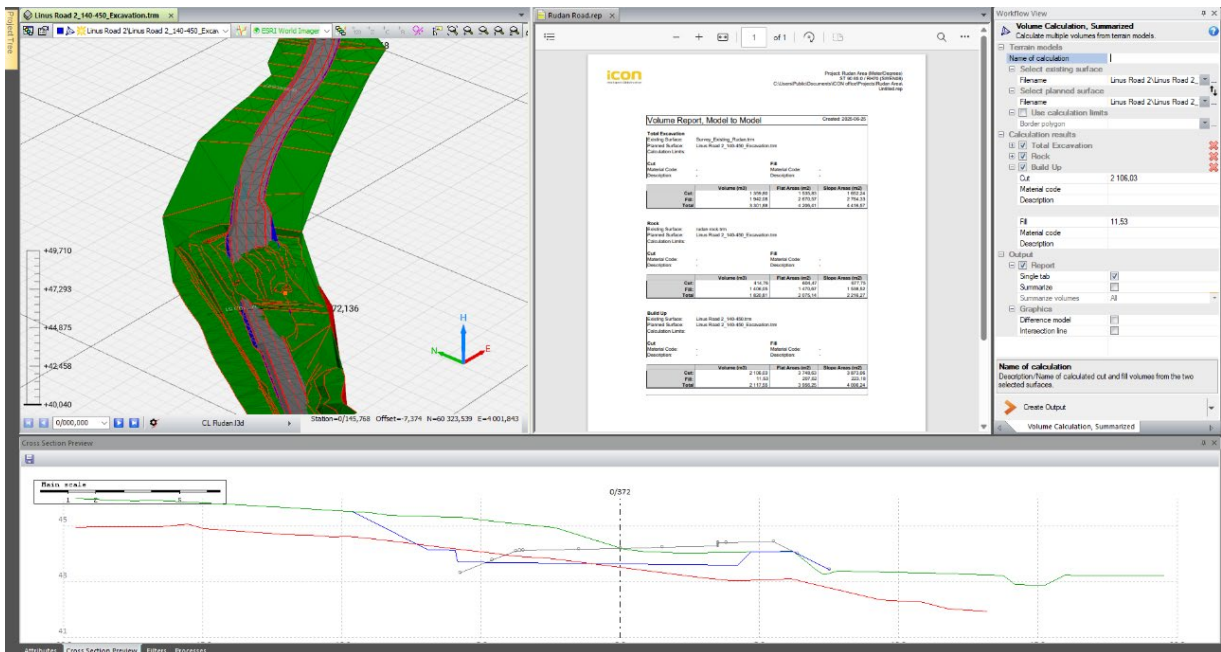
- when it has to be right



# Leica iCON office v2025.2.2

## Release Notes

**Product** iCON office  
**Date** 10<sup>th</sup> July 2025  
**From** Torgny Israelsson



## **Release of iCON office version 2025.2.2**

We are pleased to release Leica iCON office, **version 2025.2.2**.

In this version, the focus has been on improving volume calculation and reporting.

An example of features related to reporting is new options to add images or screenshots to reports. Workflow to calculate volumes from multiple surfaces and combinations of surfaces, and stockpiles from point clouds with surveyed boundaries, can now be done faster than before. A new function to calculate volumes directly from cross-section files is implemented.

Other improvements relate to speeding up common tasks, such as file selection in some important workflow views and searching and opening files in a project.

All users with valid maintenance will be able to install and run this new version.

**Please take your time to read these Release Notes!**

The release notes contain important information about the new version of the iCON office software and application features.

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# 1 Improvements

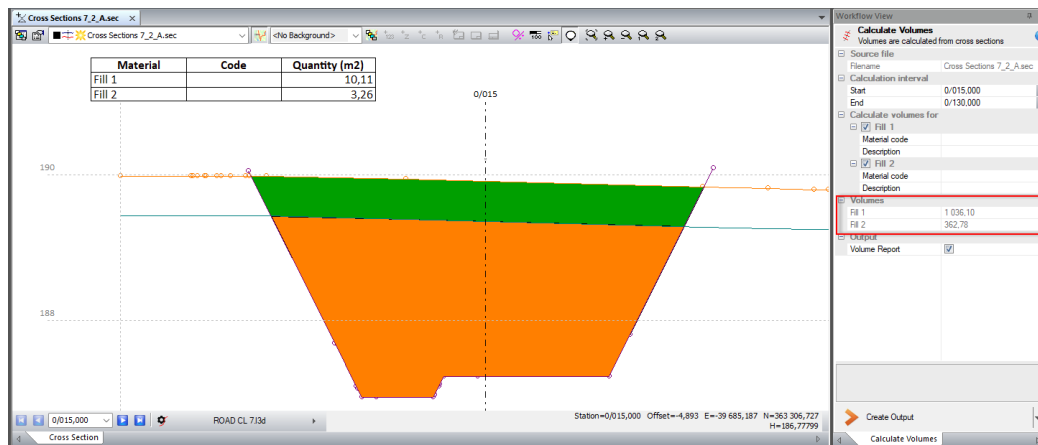
## 1.1 Volume Calculation

Several improvements regarding volume calculations have been made.

- A new function to calculate volumes directly from cross-section files with closed cross-section areas.
- A smoother workflow if multiple model volumes should be reported.
- In the tool, stockpile volumes from the point cloud, the surveyed perimeters of the stockpiles can be used to speed up the process.

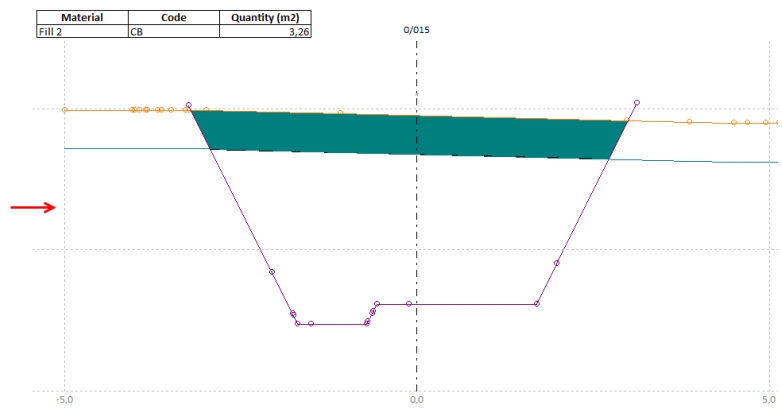
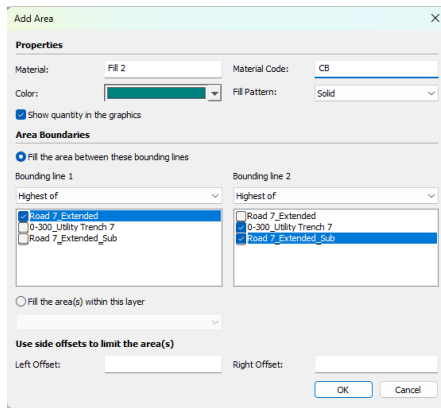
### 1.1.1 Volume Calculation from Cross Sections

New option in the Data menu for cross-section files to calculate volumes directly from sec-files that contain cross-section areas.



Cross-section with two closed areas.

- Preview of calculated volumes in the workflow view.
- It is possible to generate a volume report, including all available volumes in the cross-section file.
- Requires the license option, Volume.
- Volumes can be calculated between two layers with conditions e.g., between layer 1 and the highest of layer 2 and 3.
- Flexible:
  - The user can cut cross sections from any available TIN models (Data > Create Terrain Sections).
  - The user can define their own cross-section areas in Data > Manage Areas
  - Tip 1! The function, Extend Model, can be used to extend one surface to make sure the two models intersect.
  - Tip 2! It's possible to select a cross-section layer in the graphics and manually drag it, so two layers intersect. But it must be done at each section.

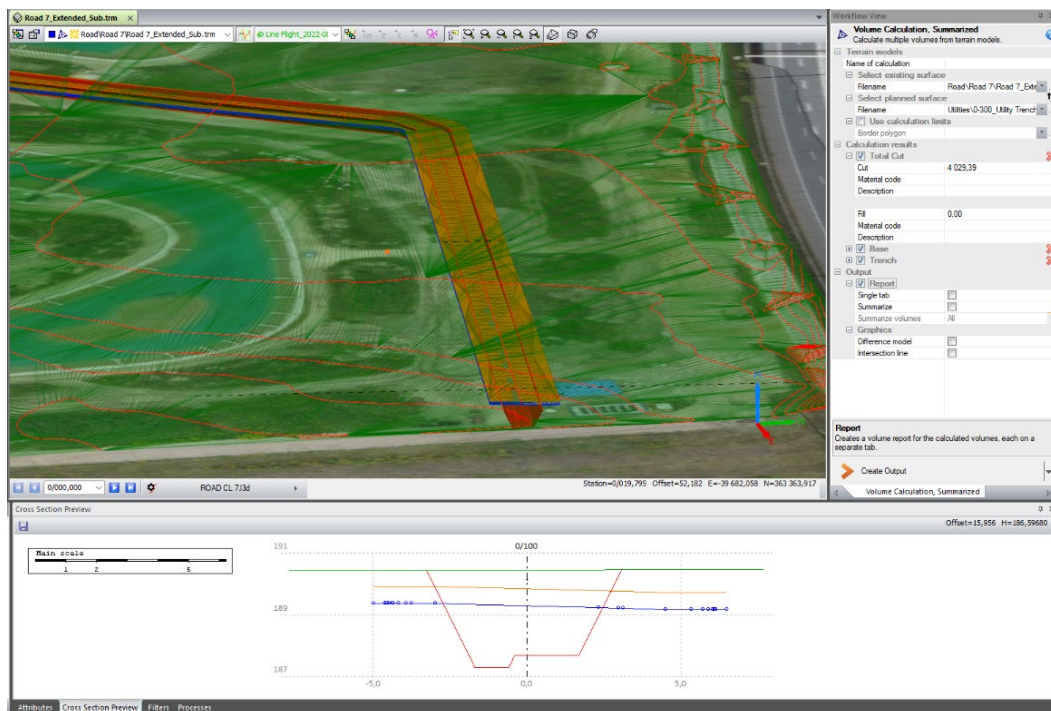


Dialogue to define or edit cross-section areas.

### 1.1.2 Volume Calculation - Summarised

New workflow to calculate multiple volumes between different combinations of surfaces. If used surfaces are open in graphics, the user has quick access to select input models for each calculation.

- Two surfaces are selected, and the calculation can be given a name and added to the list of calculation results.
  - Preview of the results.
  - Material codes and descriptions can be added.
- Another pair can be selected and added to the list, like in the first step.
- When all combinations of volumes are calculated, the required report and other outputs can be created.



The three volumes labelled as Total Cut, Base and Trench are calculated and added to the list.

### Different report options:

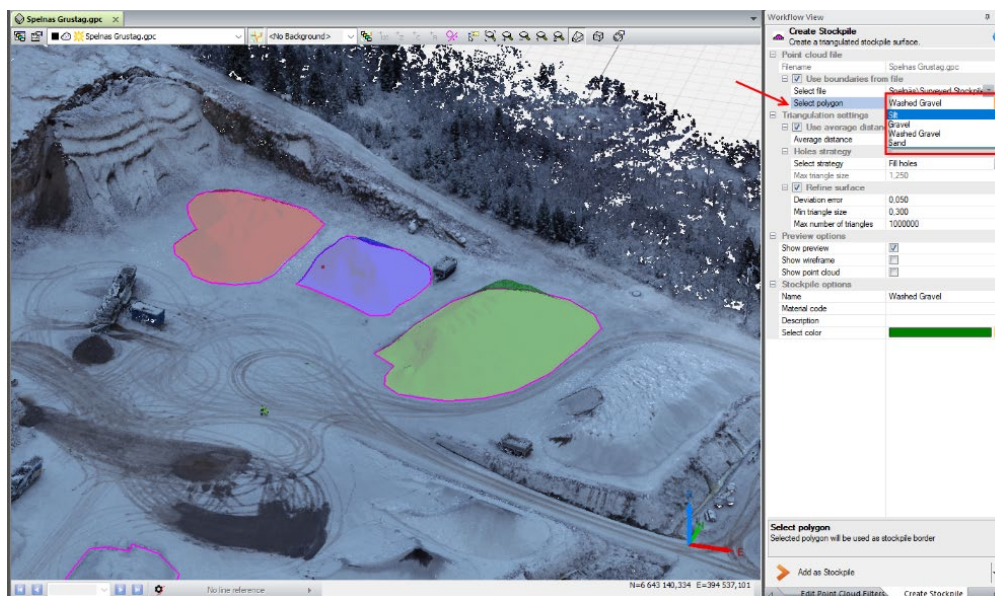
- One report, but each calculation is reported on an individual tab/page.
- A compiled report, i.e. all calculated values are displayed on one tab/page.
- A new report option that reports summed cut and fill volumes on the first tab/page.
  - All cut and fill volumes are summed up.
  - All cut and fill volumes are summed based on their material code.

Volume Report, Model to Model				Created: 2025-09-24	
Total Cut					
Existing Surface: Existing.tin					
Planned Surface: 0-300_UTILITY Trench 7.tin					
Calculation Limits:					
Cut		Fill			
Material Code:	-	Material Code:	-		
Description:	-	Description:	-		
	Volume (m3)	Flat Areas (m2)	Slope Areas (m2)		
Cut:	4 029.39	1 897.29	2 076.16		
Fill:	0.00	0.17	0.38		
Total:	4 029.39	1 897.43	2 076.54		
Base					
Existing Surface: Road 7_Extended.tin					
Planned Surface: Road 7_Extended_Sub.tin					
Calculation Limits:					
Cut		Fill			
Material Code:	-	Material Code:	-		
Description:	-	Description:	-		
	Volume (m3)	Flat Areas (m2)	Slope Areas (m2)		
Cut:	2 940.70	5 346.83	5 346.83		
Fill:	0.00	0.00	0.00		
Total:	2 940.70	5 346.83	5 346.83		
Trench					
Existing Surface: Road 7_Extended_Sub.tin					
Planned Surface: 0-300_UTILITY Trench 7.tin					
Calculation Limits:					
Cut		Fill			
Material Code:	-	Material Code:	-		
Description:	-	Description:	-		
	Volume (m3)	Flat Areas (m2)	Slope Areas (m2)		
Cut:	2 169.09	1 516.63	2 212.59		
Fill:	177.91	317.98	710.82		
Total:	2 346.99	1 833.98	2 923.41		

### 1.1.3 Stockpile Volumes from Point Cloud

Improved workflow when calculating stockpile volumes from point cloud, and the perimeters of the piles have been surveyed in the field.

- Surveyed files in the field can be used to define boundaries of stockpiles.
- The line name is automatically used as the name of the 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.
- AutoCAD export - In addition to a report, created stockpiles can be exported as surfaces to a DWG file, and each stockpile is added as an individual layer. If colours are used, the colour information is kept.



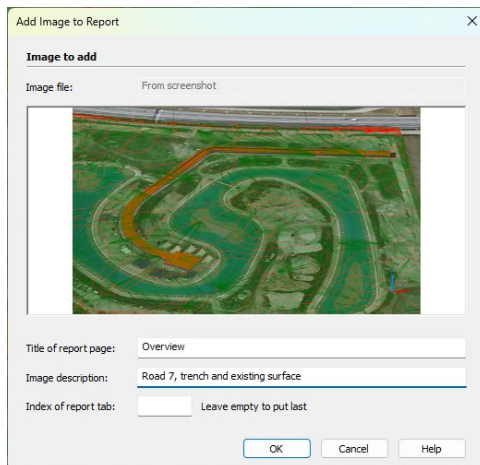
Three stockpiles are created based on the surveyed polygons

## 1.2 Add Image to Reports

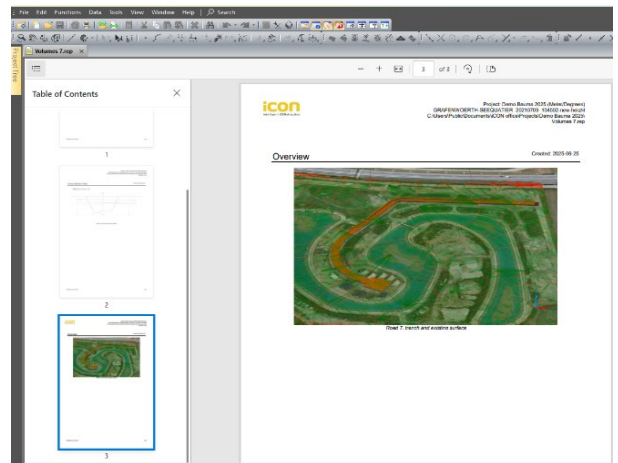
There is support for adding images and screenshots to all reports. The images are added on a separate page, and a title and description can be added.

An image can be added from:

- **Data > Add Image**, and a dialogue to browse for the image is displayed.
- **View > Save View as > Image for Report**, and the current graphical view is added as an image to the report.



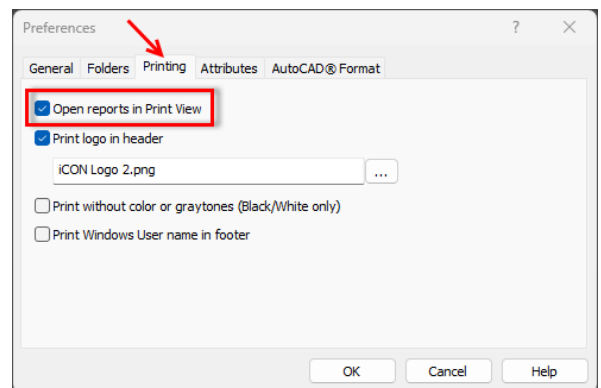
Dialogue to add a screenshot to a report



Report with image in print view

Reports have an updated Data menu with useful functions:

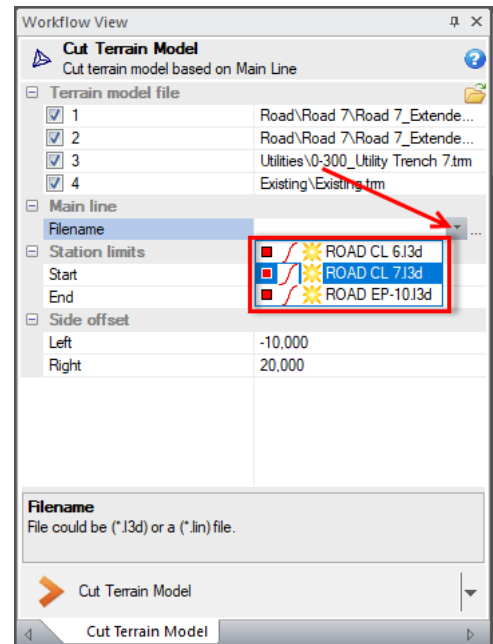
- Rename tab
- Delete tab
- Export to PDF or Excel
- Toggle display views for report:
  - Data View - The current report view with tabs.
  - Print View - Print preview i.e., how the report is displayed if exported to PDF or printed.
- To change the default display view for reports, go to:
  - **Edit > Preferences > Printing** and uncheck the option, Open reports in Print View.



### 1.3 Improved File Selection in Workflow Views

Several 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.
- No need to manually browse and find the file in its subfolder
- The old browse option is still available.

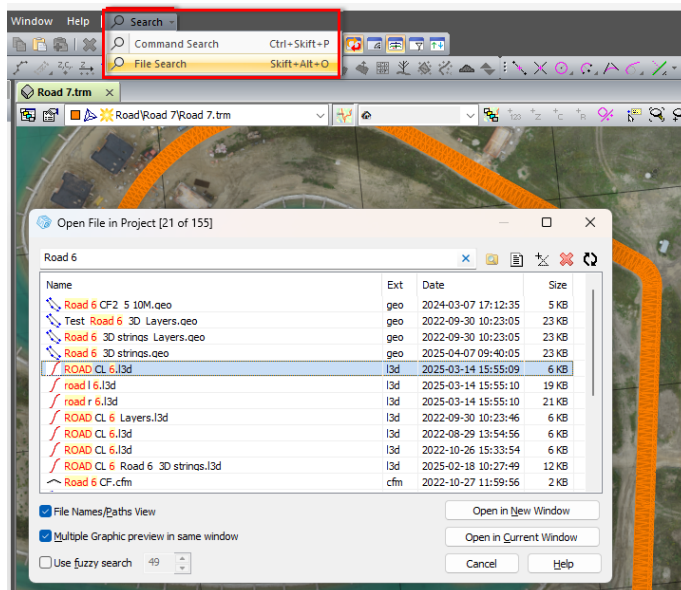


### 1.4 New Search Functions

#### 1.4.1 File Search

Many customers work with large projects that contain many files saved in folders and subfolders. To make it easier to find specific files, a new search function for files in active projects has been developed.

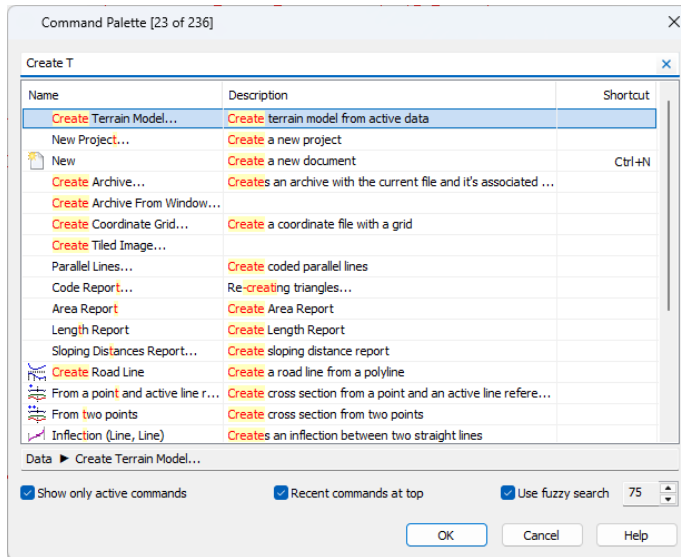
- Select **Search > File Search** to open the new search dialogue where you can search for files in the active project.
- Found files can be opened and deleted from the dialogue.
- It's a non-modal dialogue, so the user can still interact with the application and graphics.
- Setting to toggle between displaying the whole file path or just the file name.



File search dialog

## 1.4.2 Command Search

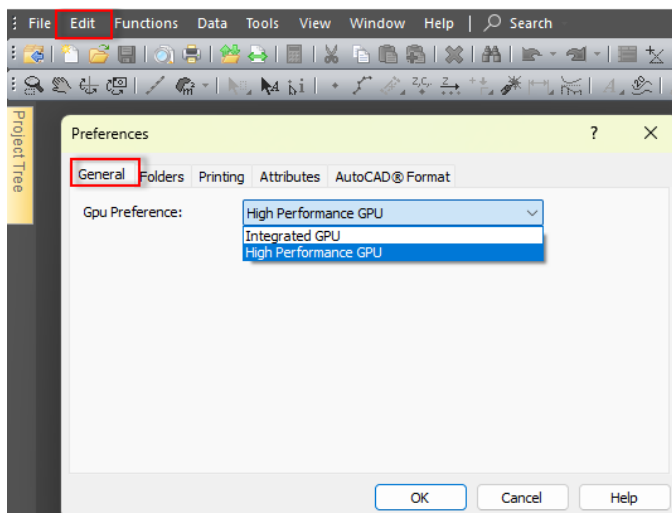
If you have problems finding a function, the new command search can be used to find the tool or menu option you are looking for and want to activate.



Command search dialogue

## 1.5 3D Graphics

- The 3D graphics have been updated, which will improve the visualisation of heavy data sets and enable more graphical functions in the future.
- If a computer has more than one graphics card installed, iCON office will automatically use the high-performance card.
  - If the integrated GPU is preferred, it can be changed in Edit > Preferences > General > GPU Preference



## 1.6 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 non-required metadata can be added when files are uploaded. This workflow is now supported, and a dynamic dialogue is displayed during upload, so the user can add required information.
- Naming of files on the server, based on added information, is supported for files uploaded from iCON office.

## 1.7 Trench

- The data menu for trench model (\*.uim) is updated so that the different menu options, e.g. create excavation model or volume calculation, using workflow views, can be closed without having to close the trench model.

## 1.8 Surveying – Traceability

Traceability attributes on point level, earlier it was only on file level, are added when coordinates are calculated from surveyed data (\*.plm):

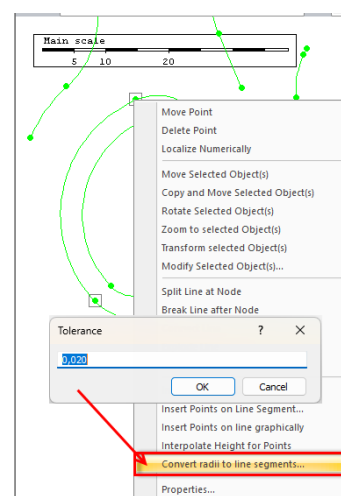
- Source file (sourceFile)
- Source station (sourceStation)
- Original point ID used in the plm-file (sourceRecord)

Point	N	E	H	Source file	Station	Original Point ID
1	7 070,475	5 082,451	797,752	Folgo_1.plm	SetUp_173	10
2	7 025,902	5 026,782	799,039	Folgo_1.plm	SetUp_173	9
3	6 990,883	4 994,765	800,061	Folgo_1.plm	SetUp_173	8
4	6 943,885	5 092,292	803,445	Folgo_1.plm	SetUp_173	11
5	6 943,888	5 092,302	803,445	Folgo_1.plm	SetUp_173	12
6	7 003,868	5 094,466	799,958			
7						

## 1.9 Coordinate Files

The new option, Convert radii to line segments, is available in the right-click menu for polylines.

If the selected line has radii, the radius for each curve will be converted to short line segments based on a user-defined tolerance.

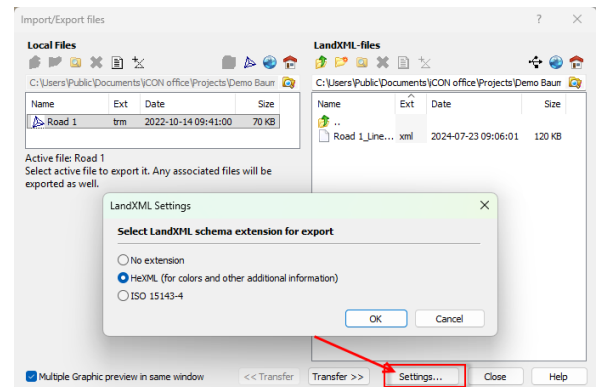


## 1.10 LandXML Export Settings

Settings are added to the LandXML export dialogue, so different XML extensions can be used when data is exported. If the HeXML extension is used when TIN surfaces are exported, many other Leica products can use the colour information.

The different XML export options are:

- No extension
- HeXML
  - Can be used for additional information e.g., surface colours that is not supported in standard LandXML.
  - Default option
- ISO 15143-4



## 1.11 IFC

IFC models contain a lot of different properties for objects to be displayed, and the user can decide which type of properties should be listed in the workflow view.

- The 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.

## 1.12 AutoCAD Export

Support for utilising a dynamic scale-bar inside a DWG template paper layout.

## 2 Bug Fixes and Maintenance

- when it has to be **right**



- Some reports changed layout, and colour was added to alternate rows, after they were saved and reopened. Fixed
- IFC - Deselection of objects was not reflected in the workflow view. Fixed
- DWG Layout Workflow - When switching between layouts, the text labels in the workflow view were not updated. Fixed
- DWG Export - The stored font selection was overwritten if a base drawing was used. Fixed
- DWG Export - Using code list when exporting lines to DWG, the lines were only exported if the code had a block name defined. Fixed
- Crop Model - Crash when a concave polygon was used for cutting a terrain model. Fixed.
- Colour 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.

### 3 iCON office Licensing

#### 3.1 Articles

iCON office starts with **Core**, which enables import/export of data, 3D visualisation, COGO calculations, coordinate system handling, visualisation in Google Earth and generating of drawings, etc.

Base Software		
971847	iCON office Core	It features import/export and COGO functionality and can be upgraded with various options.
Options		
971848	iCON office Road	iCON office Core is required for upgrading.
971849	iCON office Terrain	iCON office Core is required for upgrading.
971854	iCON office Trench	iCON office Core and Terrain are required for upgrading.
971853	iCON office Point Cloud	iCON office Core and Terrain are required for upgrading.
971850	iCON office Volume	iCON office Core, Road and Terrain are required for upgrading.
971851	iCON office Tunnel	iCON office Core, Road and Terrain are required for upgrading.
971852	iCON office Net Adjustment	iCON office Core is required for upgrading.
CCP		
6017858	1yr iCON office CCP	iCON office CCP extended one year
6017859	2yr iCON office CCP	iCON office CCP extended two years
6017860	3yr iCON office CCP	iCON office CCP extended three years
Migration		
971913	iCON office Migration	Migration from dongle to EIDs. Valid CCP is required.
Re-activation		
5311599	Re-activation Fee iCON office (>1yr)	Re-activation Fee iCON office (>1yr) applied if maintenance expired for +365days

### 4 Leica myWorld

Please use Leica myWorld to find the latest version of iCON office.

- myWorld >> my Downloads >> iCON >> iCON office) by using the following link: <https://myworld.leica-geosystems.com/>

myWorld