

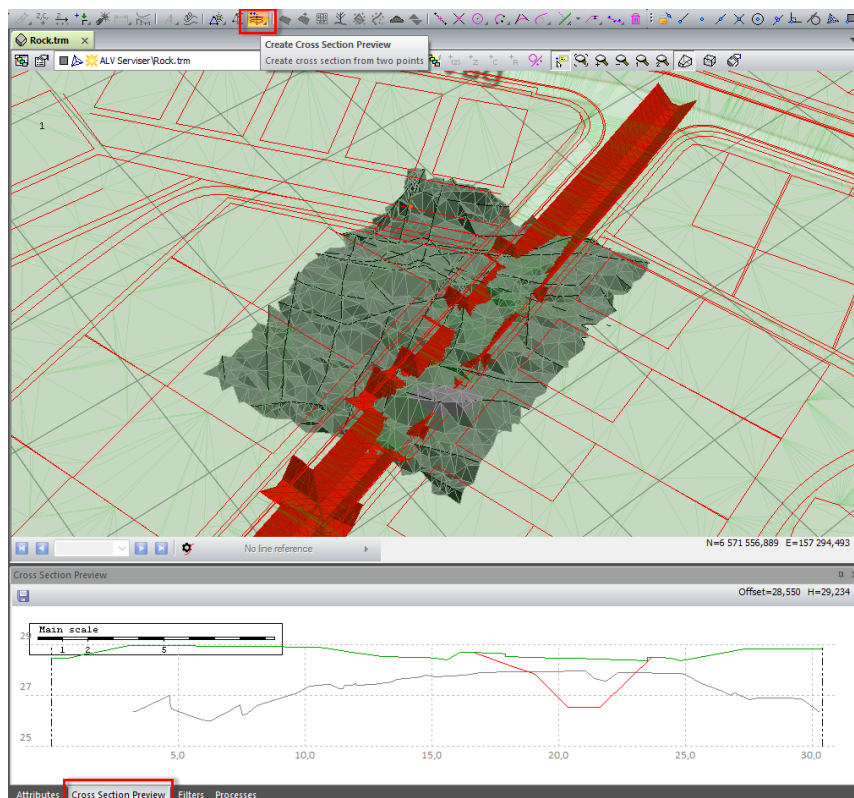
Leica Geosystems Release Notes

Product: iCON office
Date: 13 of September 2024
From: Torgny Israelsson



Release of iCON office version 2024.2.2

We are pleased to announce an engineering release of iCON office, **version 2024.2.2**. Before the Summer a new version, with many new features e.g., TIN model colors can be saved to file, improved trench model and new tools to set height to point and lines, was released. During the Summer we had time to fix several maintenance and stability issues and in addition, the different outputs from trench model (UIM) like volume and length reports, and cross sections from created trenches have been improved.



All users with a valid maintenance will be able to install and run this new version and migrate to Leica EID licensing.



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1 New Functions and Improvements

1.1 Improved Trench Reports (UIM)

1.1.1 Volume and Area Calculation

- New option to get a summarized volume and area report of all service trenches, with tabs for individual service trench volumes, in the same report.

Service Trench Volumes Created: 2024-09-11

File Name: ALV Serviser\ALV Serviser.uim
Service Trench Name: Hus 107
Calculation Interval: 0/000,000 - 0/003,028

! = Extrapolated value

Material Code	Name	Surface Area (m2)	Volume (m3)	Remark
-	Theoretical trench		6,08	
-	Soil Excavation		6,03	
-	Rock Excavation		0,00	
-	Rock Clearing	0,00		
-	Backfill		1,82	
-	Protection Fill		3,82	
-	Bedding, trench	3,83		
-	Bedding, pipes	7,00		

One tab for each service trench

Summary | Hus 107 | Hus 108 | Hus 109 | Hus 110 | Hus 111 | Hus 112 | Hus 113 | Hus 114 | Hus 115 | Hus 116 | Hus 117 | Hus 118 | Hus 119 | Hus 120 | Hus 121 | Hus 122 | Hus 123 | Hus 124 | Hus 125 | Hus 126 | Hus 127 | Hus 128 | Hus 129 | Hus 130 | Hus 131 | Hus 132 | Hus 133 | Hus 134 | Hus 135 | Hus 136 | Hus 137 | Hus 138 | Hus 139 | Hus 140 | Hus 141 | Hus 142 | Hus 143 | Hus 144 | Hus 145 | Hus 146 | Hus 147 | Hus 148 | Hus 149 | Hus 150 | Hus 151 | Hus 152 | Hus 153 | Hus 154 | Hus 155 | Hus 156 | Hus 157 | Hus 158 | Hus 159 | Hus 160 | Hus 161 | Hus 162 | Hus 163 | Hus 164 | Hus 165 | Hus 166 | Hus 167 | Hus 168 | Hus 169 | Hus 170 | Hus 171 | Hus 172 | Hus 173 | Hus 174 | Hus 175 | Hus 176 | Hus 177 | Hus 178 | Hus 179 | Hus 180 | Hus 181 | Hus 182 | Hus 183 | Hus 184 | Hus 185 | Hus 186 | Hus 187 | Hus 188 | Hus 189 | Hus 190 | Hus 191 | Hus 192 | Hus 193 | Hus 194 | Hus 195 | Hus 196 | Hus 197 | Hus 198 | Hus 199 | Hus 200

1.1.2 Length Report

- Separate reports, one for length of 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 running to for example every house.

Length Calculation - Service Trenches Created: 2024-09-11

File Name: ALV Serviser\ALV Serviser.uim
Service Trenches: Hus 107,Hus 108,Hus 109,Hus 110,Hus 111,Hus 112,Hus 113,Hus 114,Hus 115,Hus 116,Hus 117,Hus 118,Hus 119,Hus 120,Hus 121,Hus 122,Hus 123,Hus 124,Hus 125,Hus 126,Hus 127,Hus 128,Hus 129,Hus 130,Hus 131,Hus 132,Hus 133,Hus 134,Hus 135,Hus 136,Hus 137,Hus 138,Hus 139,Hus 140,Hus 141,Hus 142,Hus 143,Hus 144,Hus 145,Hus 146,Hus 147,Hus 148,Hus 149,Hus 150,Hus 151,Hus 152,Hus 153,Hus 154,Hus 155,Hus 156,Hus 157,Hus 158,Hus 159,Hus 160,Hus 161,Hus 162,Hus 163,Hus 164,Hus 165,Hus 166,Hus 167,Hus 168,Hus 169,Hus 170,Hus 171,Hus 172,Hus 173,Hus 174,Hus 175,Hus 176,Hus 177,Hus 178,Hus 179,Hus 180,Hus 181,Hus 182,Hus 183,Hus 184,Hus 185,Hus 186,Hus 187,Hus 188,Hus 189,Hus 190,Hus 191,Hus 192,Hus 193,Hus 194,Hus 195,Hus 196,Hus 197,Hus 198,Hus 199,Hus 200

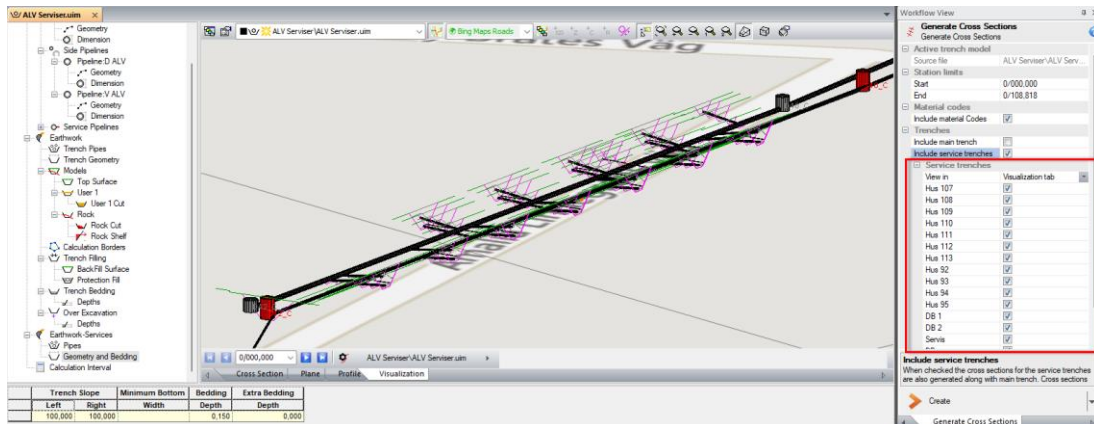
Material Code	Pipe Length (m)	Remark
DB	14,526	
SEW	41,236	
STO	44,290	
WAT	39,215	

- Pipe length report for all service pipes
- Summarized by material code
- One tab for each service trench

Summary | Hus 107 | Hus 108 | Hus 109 | Hus 110 | Hus 111 | Hus 112 | Hus 113 | Hus 114 | Hus 115 | Hus 116 | Hus 117 | Hus 118 | Hus 119 | Hus 120 | Hus 121 | Hus 122 | Hus 123 | Hus 124 | Hus 125 | Hus 126 | Hus 127 | Hus 128 | Hus 129 | Hus 130 | Hus 131 | Hus 132 | Hus 133 | Hus 134 | Hus 135 | Hus 136 | Hus 137 | Hus 138 | Hus 139 | Hus 140 | Hus 141 | Hus 142 | Hus 143 | Hus 144 | Hus 145 | Hus 146 | Hus 147 | Hus 148 | Hus 149 | Hus 150 | Hus 151 | Hus 152 | Hus 153 | Hus 154 | Hus 155 | Hus 156 | Hus 157 | Hus 158 | Hus 159 | Hus 160 | Hus 161 | Hus 162 | Hus 163 | Hus 164 | Hus 165 | Hus 166 | Hus 167 | Hus 168 | Hus 169 | Hus 170 | Hus 171 | Hus 172 | Hus 173 | Hus 174 | Hus 175 | Hus 176 | Hus 177 | Hus 178 | Hus 179 | Hus 180 | Hus 181 | Hus 182 | Hus 183 | Hus 184 | Hus 185 | Hus 186 | Hus 187 | Hus 188 | Hus 189 | Hus 190 | Hus 191 | Hus 192 | Hus 193 | Hus 194 | Hus 195 | Hus 196 | Hus 197 | Hus 198 | Hus 199 | Hus 200

1.1.3 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, so they are visualized in relation to the main trench, or in a new separate window.



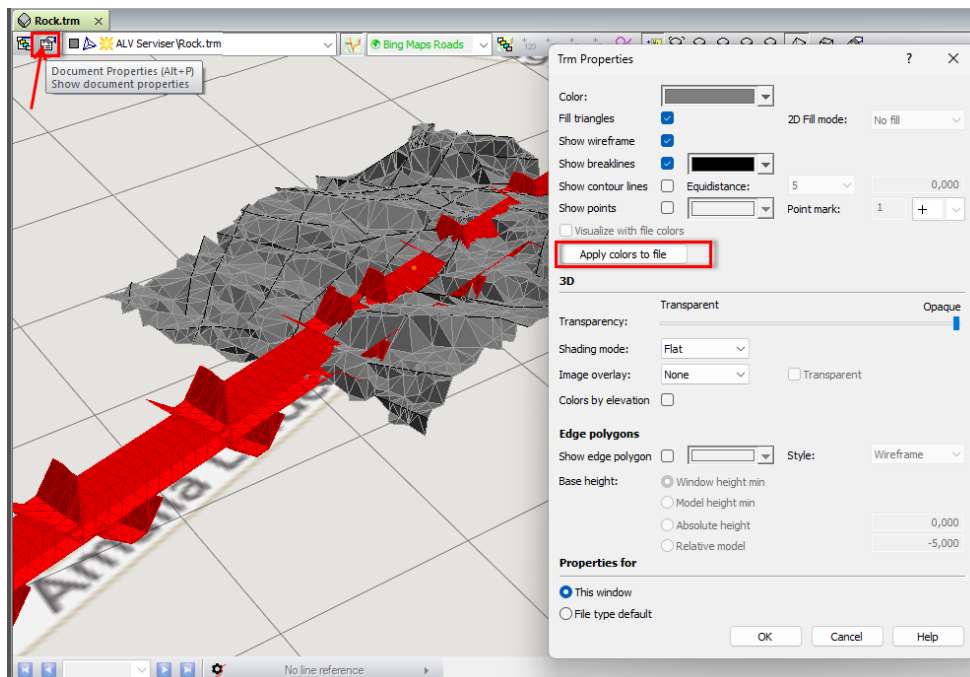
2 New Features Released in iCON office 2024.2.1

2.1 Save Colors to Terrain Model (TRM)

The selected color for:




- fill triangles
- break lines
- points

can be saved to file, so the same colors are used next time the model opens in iCON office, iCON site or MC1.



2.2 Data Preparation

To speed up the process to add height and attributes to point and lines, there are two new tools and one improved graphic tool to make use of.

-  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.
-  Pick Height from Text
 - Like a snap tool, it can grab a text height value from a DWG and add the height a coordinate file.
-  Set Point/Line Information
 - Two attributes selected from the active attribute list can be set to points and lines

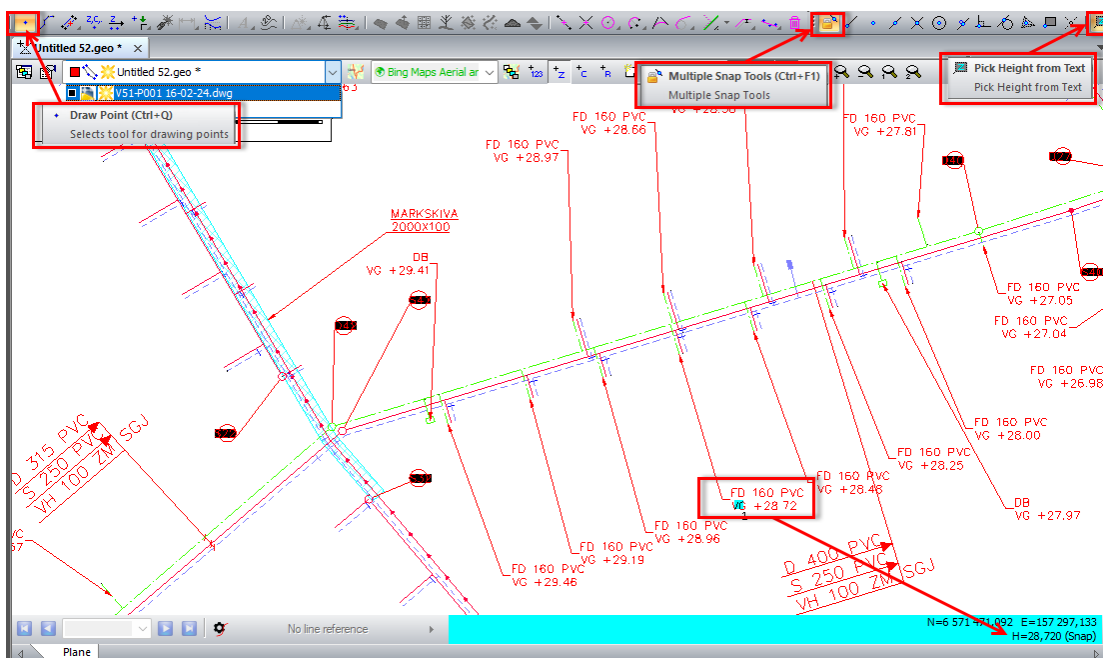
2.2.1 Pick Height from Text

This tool works similar as a snap tool, but it can pick a height value from Text or MText in a CAD file. It can be used in combination with:

- Draw Point
- Draw Line
- Add Height in Sequence

Open the DWG file and a coordinate file in the graphics. Make sure the coordinate file is set as active, because you would like to create the points in that file.

1. Select, Pick Height from Text, and it make sense to activate multiple snap as well.
2. Select a tool e.g. Draw Point
3. Pick/snap to a height from a Text or MText in a CAD file
4. Create a point in the graphics and the new point will get the height.

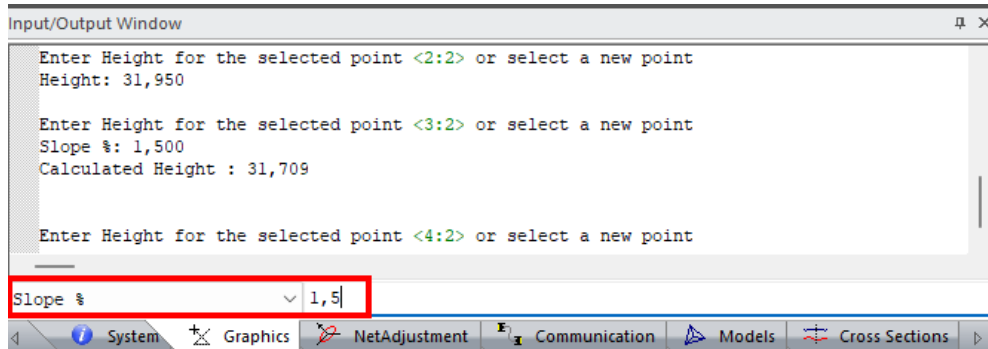
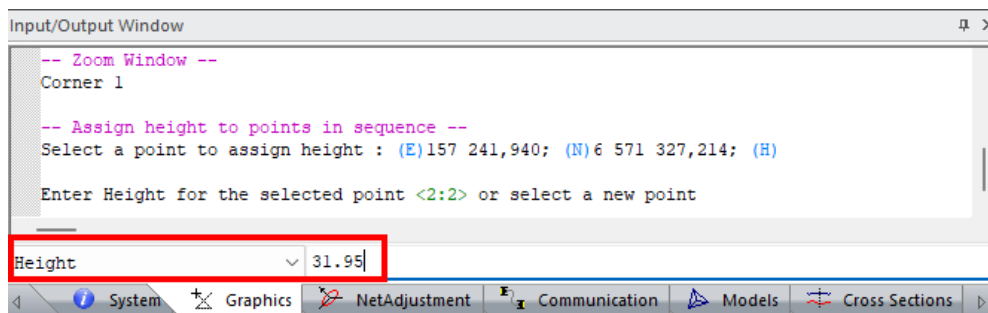


Pick Height from Text is fetching the height value 28.72 from the DWG and adding it when the new point is created.

2.2.2 Add Height in Sequence

Use this tool to add height to multiple points in a coordinate file. If the height should be fetched from Text or MText in a DWG, the tool could be used in combination with the snap tool, Pick Height from Text.

1. Select the tool and information in the Input/output window says what to do next.
2. Select a point to assign height to.
3. Add height to the selected point by selecting one of the options Height, or Slope %, in the drop-down list.
 - a. Height - Type in a height value and confirm with [Enter].
 - b. Slope % - Add a percent value and confirm with [Enter], this option only works if the point before has a height value. The slope percent is used to calculate the height of the selected point.
4. The next point in the line or next single point in the file, without height, is automatically selected and a height value can be added.



3 Bug Fixes and Maintenance

In addition, some annoying bugs have been solved and maintenance improvements done.

- Several stability issues reported to the crash server were during fixed the Summer.
- Updated Polish translation
- WMTS/WMS – Issues with background map services in combination with 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
- Coordinate system - Issues when selecting lok-file dependencies e.g., Geoid or correction models, from project folder. Fixed
- Parallel line tool - Incorrect arc created when using the parallel line method with inserted points. Fixed
- Crash when more than one dwg was used in a drawing. Fixed

4 iCON office Licensing

4.1 Articles

iCON office starts with **Core**, which enables import/export of data, 3D visualization, COGO calculations, coordinate system handling, visualization 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

5 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/>