



Release Notes

Topcon Office v9.1

January 2025

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Topcon Office V9 Release Notes

The following new additions/revisions have been made to Topcon Office v9.0.

Please take time to read the release notes. They contain information about the following:

- New Features
- Feature Enhancements
- Issue Resolutions

Unless otherwise noted, new features, improvements and resolutions are included in the Topcon Office base configuration. Items that are included in specific modules have a module designation at the end of the description. Module designations:

- (Survey) – Survey module
- (Site Prep) – Site Prep module

Information

System Requirements:

Operating System

Microsoft Windows 11 (64-bit version)

Microsoft Windows 10 (64-bit version)

Processor Speed

2GHz Core2 processor or higher

RAM

2GB RAM or more recommended

Memory

Local hard drive space of 2GB or higher recommended

Computer Resolution

1280x1024 display resolution

Internet Connectivity

Can be required by some functionality.

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Notes

CIAM Web workflow for SSO login

CIAM (Customer Identity Access Management) is crucial for any large organization that sells SaaS and connected device products. It safeguards customer data, protects customer identities, and serves as a foundation for creating a seamless user experience. CIAM acts as a central point where customers and sales channel users can self-manage their identity and access settings.

Integrating with CIAM ensures the necessary security for our customer data and improves the overall user experience for dealers and customers alike for licence activation, Enterprise and SiteLink 3D connection.

New Features

File Menu

Import - TP3/RD3/MJF - Road templates as corridor templates. These templates are copied into the Corridor template library.

Edit Menu

Property Manager - Edit elevation will automatically switch the "Has Elevation" if elevation is entered/edited.

Inquiry Menu

List Data – String report section improved to include string segment slopes.

View Menu

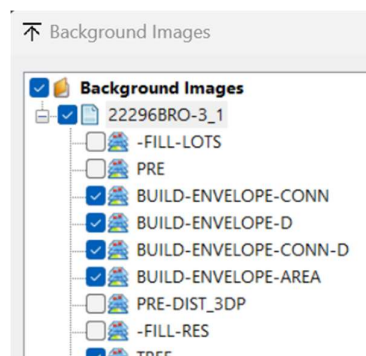
3D View – Improved speed for deselecting/reselecting large amounts of data

Background Images

Background Image Settings panel switched to Modeless panel allowing the panel to remain open while still working in the survey view.

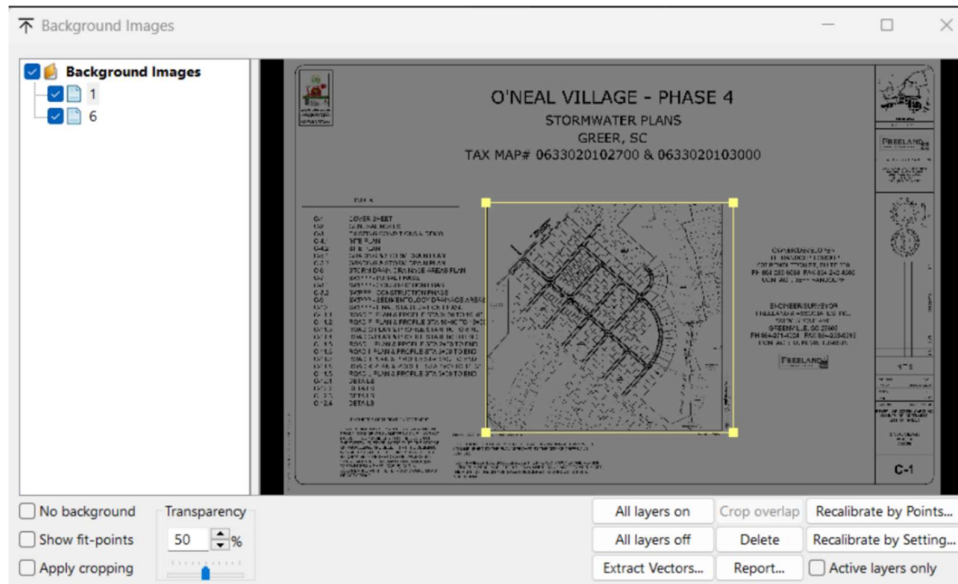
Updated to retain all PDF layers which is displayed in a tree list for viewing and control over PDF and its layers (if present). This allows for better isolation of vector layers making the tracing process cleaner and more accurate.

A “tree” list is displayed in the Background Images panel that can be expanded/collapsed by clicking the +/- icons and checkboxes can be toggled On/Off to show/hide. Both Preview and Survey view will be updated.



Other updates include:

- Modeless Panel allows the user to dynamically turn On/Off pages and layers.
- Preview Page or Layer
- Background image rename
- Active layers only (hides inactive layers)
- Autocrop overlapping pages
- Manual cropping in the preview window by clicking the path to crop (polygon). Multiple polygons can be drawn to crop the background image
- No background (hides white background page)



Settings Menu

Snap modes - Vector Snap - Snap settings updated to support PDFs containing vector data. Users can snap to vector endpoints, midpoints, intersections.

Insert Menu

String/Polyline/Polygon - Display directional arrow during Right click> "Follow" command along the selected path for clarity.

Polygon – Circle entity can be selected to create a circular polygon.

Modify Menu

Edit Strings - Added Report feature to Edit Strings command.

Survey Menu

Translate/Rotate (Survey/Site Prep)

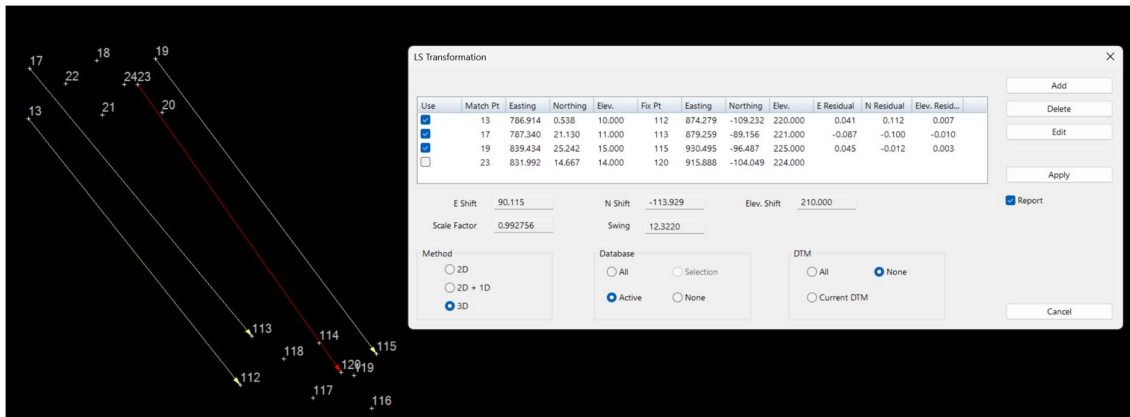
- Improved to add "Pick" buttons to select Origin, Destination and Rotation angle.
- Updated to support single object selection to translate/rotate.

Least Squares Adjustment (Survey/Site Prep)

The LS Transformation feature has been rewritten and enhanced to include 2D+H and 3D transformation options. This update allows for more accurate transformations, including the ability

to adjust heights automatically. The new options will help reduce manual work and potential errors in height adjustments

- Least Squares Adjustment supports 2D, 2D+1D and 3D transformation methods.
- Updated to use new customised report. Reports include LS transformation parameters and list of points transformed with their deltas.
- Updated to support DTM transformation.
- Use check box available to allow the user to refine which paired points will be used for transformation computations (highlighted yellow in survey, or red if not in use).



ADAC (Survey)

- ADAC Maintenance holes updated to include Inlet and Lintel checkboxes if Nil
- Component info - Data Quality default to "APlus" instead of "A"
- ADAC panel to display all tabs when sized at minimum
- XML version included in exported file
- Work Approval ID - Nullified instead of blank.
- Alignment – If alignment is not required for a feature it's no longer set zero but nullified.

Model Menu (Site Prep)

Insert PDF

- Ability to view and select which layers will be visible after import. All layers are still imported.
- Retain separate PDF layers (if present in original PDF) which can be viewed in View> Background Images.
- PDF Insertion to allow toggling PDF page colour between existing (white), transparent, or hide PDF when selecting world coordinates by pressing SPACE bar.
- Hold previous setting and scale for subsequent imports or pages.

Takeoff Menu (Site Prep)

A new feature has been added to create a Design/Subgrade + Over Excavate surface. This combines the design surface with over-excavate areas cut out, allowing contractors to work with a single surface instead of two separate ones.

Additional Takeoff surface types added:

- Over-Excavate & Subgrade Design - Subgrade surface that has the over excavate areas cut out.
- Over-Excavate & Design - Design surface that has the over excavate areas cut out.

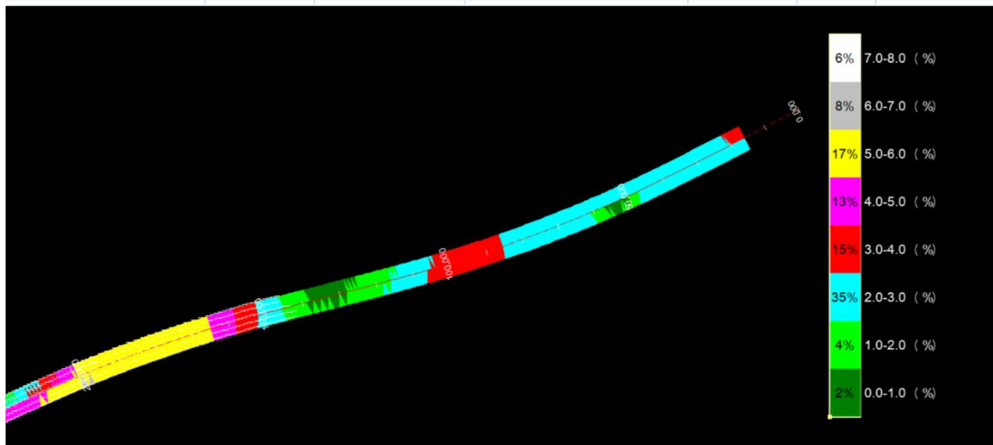
Surface Menu

Display Cut Fill DTM with C and F in Status bar

DTM Settings> Colour Fill settings

- "Auto fill" improved to use the depth range set instead of rounding to the nearest 1. This allows improved autofill for shallow DTM's such as Cut Fill DTM's (Road resheet/resurface etc).
- Colour Map Report
 - Updated to include percentage of influence for Slope and Elevation
 - Colour fill legend updated to allow inclusion of percentage value in the legend.

Slope Zone	Plan Area (m ²)	Plan Area (ha)	% To Total Plan Area	Surface Area (m ²)	Surface Area (ha)	% To Total Surface Area
0.00% - 1.00%	76.715	0.008	1.56%	76.717	0.008	1.56%
1.00% - 2.00%	180.189	0.018	3.66%	180.210	0.018	3.66%
2.00% - 3.00%	1,720.922	0.172	34.96%	1,721.521	0.172	34.93%
3.00% - 4.00%	741.364	0.074	15.06%	741.803	0.074	15.05%
4.00% - 5.00%	658.829	0.066	13.38%	659.498	0.066	13.38%
5.00% - 6.00%	819.623	0.082	16.65%	820.867	0.082	16.66%
6.00% - 7.00%	399.579	0.040	8.12%	400.418	0.040	8.13%
7.00% - 8.00%	325.978	0.033	6.62%	326.886	0.033	6.63%



Planes - Arrows displayed on Plane grid to show direction of slope (downhill).

Planes - Toggle for visibility directly via planes list

Point Cloud (Survey/Site Prep)- Georeferenced Point Cloud updated to provide transformation using 2D, 2D+1D and 3D.

SiteLink 3D Menu

Device Data - Sitelink Device ID updated to include model name to make finding the correct machine easier.

Resurface Module (Site Prep)

IRI report - switched to utilised customised reports

Resurface report - renamed Wide Table option to Resurface Table

Coordinate Systems

- New geoid for Romania
- New Uruguay URUGEOID2023_IGM110 geoid
- New Japanese datum JGD202

Fixes

- Installation - fixed issue on silent installation with SCCM by non-admin
- Installer - removed obsolete check for Explorer11
- File> Import MJF - "Use Office Survey Code" setting to hold existing Layer properties if duplicate layer name found during Import
- Import LandXML with roads fixed to set different template string names for right side
- GC3 localisation file export could not extract localisation in SiteLink portal
- Import DXF - unnamed mesh will be named automatically
- File> Import LandXML - Fixed alignment with coordinates and geometry including arcs >180 not importing with correct geometry
- Improved import of Autodesk *.dwg files containing Xrefs. In some instances attempting to ignore the import of the xrefs resulted in Office going into an unresponsive state.
- GC3 localisation file export could not extract localisation in SiteLink portal
- File> Import DWG - blocks/symbols should import as Scalable
- File> Import - ccad v4 LAZ no longer displays error
- Export DWG fixed to hold carriage return in text when exported
- File> Export ESRI with coordinate projection fixed to export project projection
- Fixed custom linestyle contour lines when exporting DWG
- Fixed issue with Legend in Drawing not opening
- Drawing Editor - CF DTM legend retains same position if inserted in Survey view
- File> Show Plot Windows
 - Context menu updated to include linework and point insertion option.
 - Frame color updated for easier recognition when using light color background setting.
- View> Layer Order - fixed layer order being flipped. Layer at the top of the list is drawn last/on top and takes priority
- View> Layer Manager - Multiple layer Lock supported
- Insert> Text labels - updated to allow creation of new layer by entering new layer name
- Insert> Text> Text Labels - fixed for multiple point selection
- Insert> Arc> Fillet - updated to not allow zero radius
- Improved Follow logic when using the follow toggle to create linework.
- Modify> Edit Points - updated to use configured tab sequence in grid
- Corrected issue with Rotate Text conflict with Point Snap setting.
- Elevation adjustment through the Property Manager no longer resets the annotation style and position
- Fixed incorrect number of strings reported as when joining linework to create strings.
- Model> Elevate> Set Elevation by Increment fixed to not skip increment on open polylines
- Corrected display of selected polygons in drawing editor
- Model> PDF/Image> Trace - abbreviated prompt
- Customised Reports fixed to support language settings
- Model> Color Settings - fixed to support polylines
- Strings created when updating the survey view from the road view now have their color property set to bylayer.
- Optimised speed for profile view (Resurface/Road/Profile design) when Smooth indicator On.
- Resurface> IRI report fixed issue for job in Feet, to set segment length interval to nearest foot (Site Prep)