Digital Layout

Version 1.2.1 & 1.2 Release Notes

July 2024

TOPCON

New Release

Topcon Digital Layout version 1.2.1 & 1.2 Release Notes - Introduction

Please take time to read these Release Notes. They contain information about the following:
New Features, Improvements and Defect Fixes

NOTE: It is always recommended, before upgrading your field software, user's backup their original project data; and following any update to your field software, users perform in-the-field checks to ensure data integrity

Version 1.2.1

Defects

- Fixed an issue where creating a known point on a non-default layer would cause TDL to crash.
- Fixed an issue where clicking on OneDrive or Google Drive in the file explorer without an internet connection would cause TDL to crash.
- Fixed an issue where laying out a line created between two points that were created by the Building Line setup would cause TDL to crash.
- Fixed an issue where design points with a CP prefix that are converted to known points would not appear in the map.
- Fixed an issue where the target setting will change to ATP1 if the user goes to the Settings menu within the Target Settings screen.
- Fixed an issue with certain layer lists not being scrollable.
- Fixed an issue where some angles are not undoing after selecting "Undo" within Enter Plan.
- Fixed an issue where wrong messages are displayed when toggling on different Line Snap settings.
- Fixed an issue where DWG files are only exporting in meters.
- Fixed an issue where deviations are not appearing when laying out Measured points.
- Fixed an issue where the software would display a green highlight when it is out of tolerance after selecting an offset within the Layout Line routine.
- Fixed an issue where two separate confirmations are displayed when deleting a point.

Version 1.2

New Features

Laser layout
Users can now select any points to layout and the instrument will automatically turn to that point on the floor or ceiling with a laser projected to the point. This allows users to quickly layout without having to use a prism. *This feature is only for instruments with reflectorless capabilities.*

Grid line setup
Users can now setup their instrument using grid lines.

Height transfer
Ability to set a benchmark elevation allowing TDL to tell the difference in height between a point and the benchmark, acting similar to a rotating laser. This can be used with both a traditional prism and reflectorless.

Plot scale
Plot scale is re-introduced to allow users to scale pdf drawings using the scale bar of the drawing.

Undo button for deleted linework
Users can now undo deleted linework. An Undo button will now appear when any linework made in TDL is deleted.

Use same setup location in a new job
Ability to re-use a setup location from one job to another within the same project.

Cloud storage
TDL now supports Google Drive and Microsoft OneDrive for cloud storage options.

Improvements

Segments
Ability to create segments in the Create routine when creating points. Users can create segments by entering a specific length of each segment or by entering the number of segments between two points.

Live digital tape
A live measurement box has been added to the Digital Tape routine. This will allow users to see live measurements after the first point of the measurement has been taken.

Layer list during import
Ability to select the drawing layers when importing a .dwg file so users can select only the layers needed to be imported into TDL.

Layout list improvements
Users can now select any specific points on their active layout list to start laying out as well as from the plan view.

Layout next line without resetting
Users can now select the next line to be laid out within the Layout Lines routine without having to back out of the routine.

Instrument height in Setup Anywhere
Instrument height can now be added within the Setup Anywhere routine.

Real-time elevation
Real-time elevation can now be displayed on the plan view to show the user's current elevation during layout in real time.

Layout point list saved between sessions
Layout point list will now be saved when restarting TDL so users can continue their progress without having to re-select points for their point list.

Creation tool menu
Redesigned creation tool menu to be more intuitive and provide better user experience.

Layer assignment for lines
When creating new line work, users can now assign new lines to specific layers.

Measured points layer assignment
Layers can now be assigned to measured points within the Measure routine.

Point in center of object
TDL can now create points within the center of objects such as: triangles, circles, squares, etc.

Create mid points by selecting two points
Users can now create mid points by selecting two points within the Create routine. Previously, one could only create a midpoint by selecting a line.

Delete segment in Enter Plan
Users can now delete a segment of continuous linework within the Enter Plan routine.

Deviation columns in point list
The deviation columns can now be toggled on/off within the point list.

Improved zoom and rotation
Improved zoom, pan and rotation within plan view for better experience with touch screens.

Results box for Calculate routine
Results box from the Calculate routine is redesigned to show users data in an easy-to-understand fashion. Additional data is also displayed on the plan view to provide users with more information.

Export linework in .dwg/.dxf
Users are now able to export TDL created linework in .dwg and .dxf file format.

Group points conversion
Users can now convert multiple points into control points simultaneously within the points list.

Point type column in point list
A new column is added in point list to show the point type for easier referencing.

Point conversion within plan view
Points can now be converted from plan view, not just from the point list.

Double click un-select
Any selected objects can now be unselected by double clicking the plan view screen.

Topcon Enterprise within file explorer
Topcon Enterprise has been added to the file explorer. This will allow users to quickly import/export files directly to and from Topcon Enterprise.

Millimeter support
Millimeter is now a supported unit in TDL.

Mini 360 prism support
The new Topcon mini 360 prism is now supported by TDL.

Date format
Users can select the date format desired in TDL generated reports for different countries/regions.

Point naming
The default point name for first point is now "1" instead of "1000".

Default job name
The default job name when creating a new job is now "Job1".

Defects

- Fixed an issue where projects would disappear after restarting TDL.
- Fixed an exporting issue where all points are exported as meters even if the export setting is set to a different unit.
- Fixed an issue where linework and points are appearing in different jobs when switching jobs.
- Fixed an issue where certain text fields only pull up the numeric keyboard on Android.
- Fixed an issue with LN-150 not connecting.
- Fixed an issue where projects would disappear after updating TDL.
- Fixed an issue with the zoom scale inconsistency within Scale and rotate.
- Fixed an issue where the "Horizontal search area" and "Vertical search area" within the Settings menu are not appearing.
- Fixed an issue where the solid circle of a point that has been laid out would show up as a hollow circle after adding elevation.
- Fixed an issue where an occupation point is only selectable within the map view.