Release Notes

Topcon Field v10.0
September 2025

Topcon Field V10 Release Notes

The following new additions/revisions have been made to Topcon Field v10.0.

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

- New Features
- Feature Enhancements
- Issue Resolutions

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New Features and Improvements

Overview Key Features

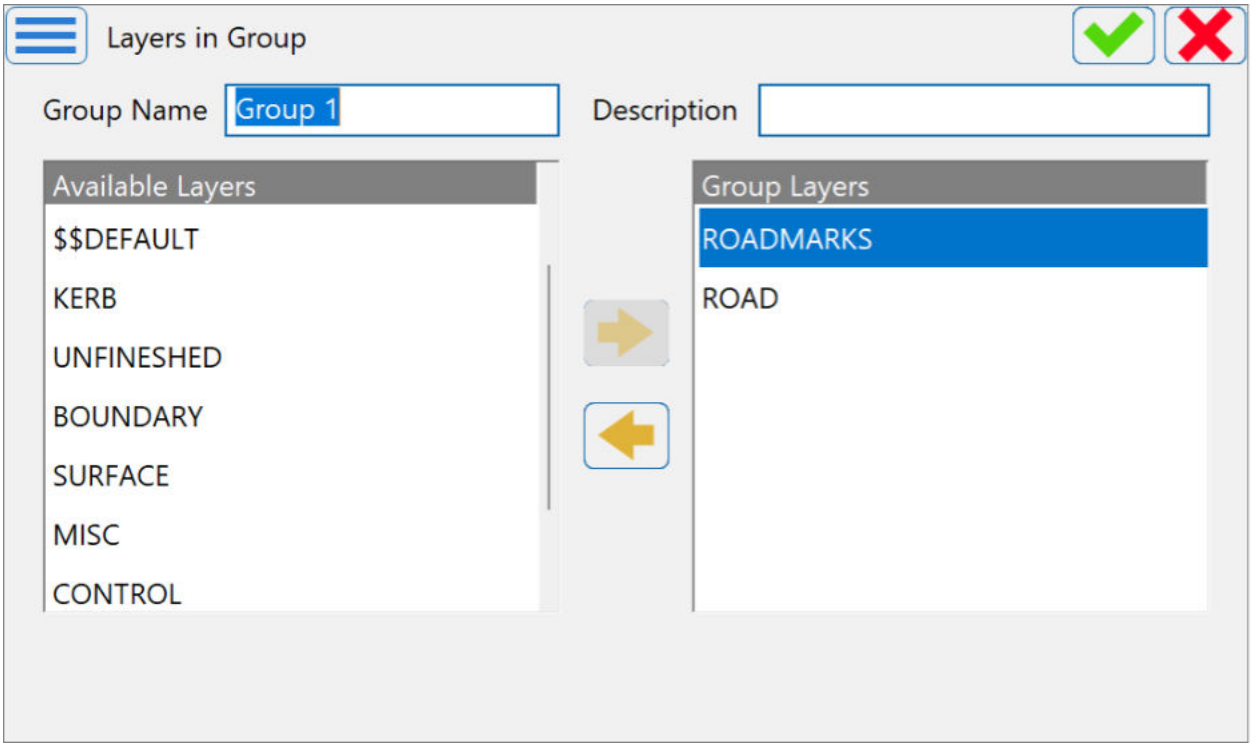
New Topcon Field V10 key features include:

WFS Support

WFS (Web Feature Service) is now supported. This allows users to connect up-to-date geospatial data directly into Topcon Field and select and stake points from WFS.

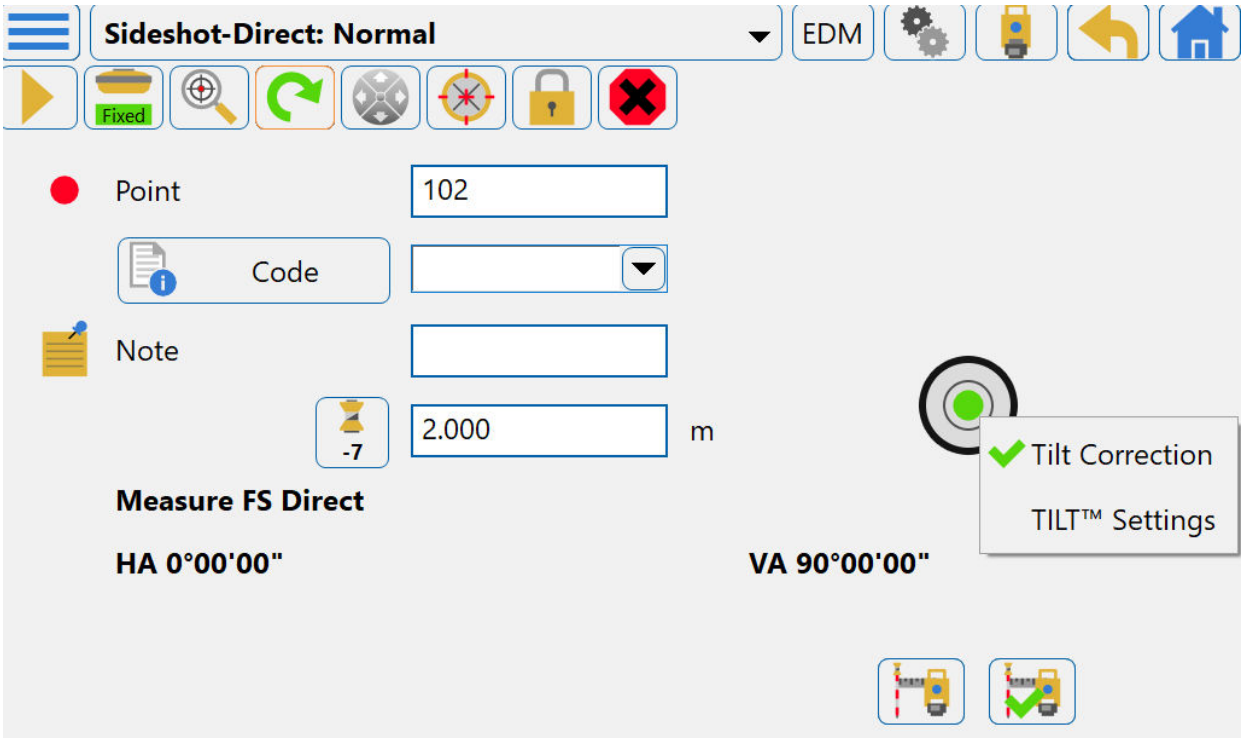
Layer Groups

Layers can now be sorted in groups.
This allows users to organize layers into logical groups for easier management and visibility control. Simplifying navigation when working with complex datasets.
Users can now toggle entire groups of layers on/off, reducing cluttering and focusing on relevant data.



TILT support in Hybrid Positioning mode

TILT is now supported in Hybrid Positioning mode. TILT is now available for optical measurements when connected with a Dynamic TILT/TILT enabled receiver. Allowing user to use automatic tilt compensation or tilt filtering in both GNSS and Optical measurements.



Massive improvements in 3D model, Point clouds and DWG handling

Significant improvements aiming at optimizing workflow and better data handling capabilities for use with 3D models, point clouds and DWG.

Significant Starpoint/Skybridge updates

Introducing several key improvements to the Starpoint/Skybridge configurations.

Coordinate Systems

Now possible to use localization directly from shared data files, simplifying data flows. Added new geoids and EPSG codes. Improvements include:

- Added localization support from the shared data file
- Added EPSG codes for additional Norway projections
- Added UruGeoide 2023
- Updated national Romania projection
- Added new Brazilian geoid

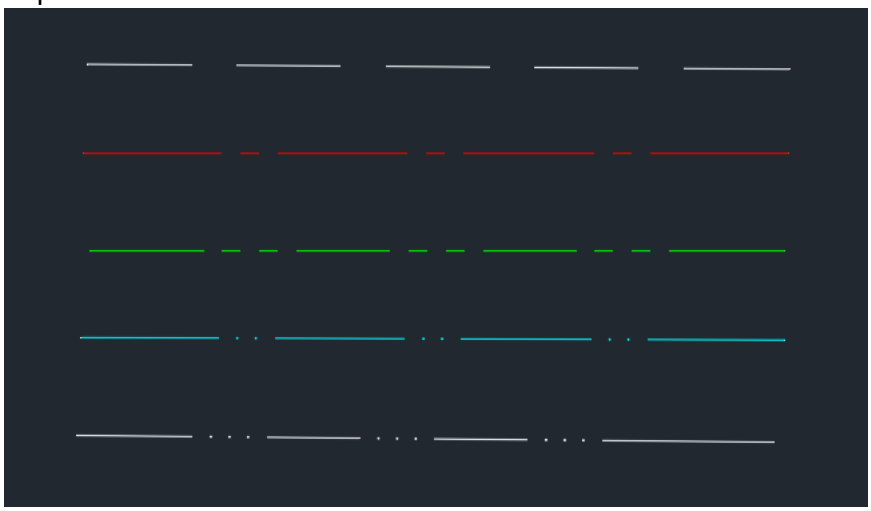
Import/Export

Added new file formats for improved interoperability. DWG handling improved for better handling of CAD data. Impro

- New file formats supported:
  - Trimble fxl format (Code Library)
  - Revit 2025
  - MaXML 1.8

- DWG handling improvements including:
  - Import 3D elements as an option
  - Import and show solids like C3D
  - Support C3D with pipes
  - Import region entities
  - Import C3D corridors as 3D meshes
  - Import parcel lines from C3D
  - Supported point mark styles on export

- Support for new line styles, added new line styles that where already available for Topcon Office



- Improved NZ Survey Report - added the Total Station Set Up and residuals data for backsight or resection and Stake out results to the report

- Added the option to export custom line styles to dgn-format

- Improved IFC import: Road entities (such as alignments, cross sections..) from IFC format import is now supported

COGO

Improvements to the volume report, making it more visual and informative include:

- Added option to visualize used surface on 3D map in Volume Report

- Added net volume to the Surface Volume report

Measurements

Different improvements to improve efficiency and user control. Highlights include support for TILT in hybrid positioning, Starpoint/Skybridge improvements amongst many others. Improvements include:

General

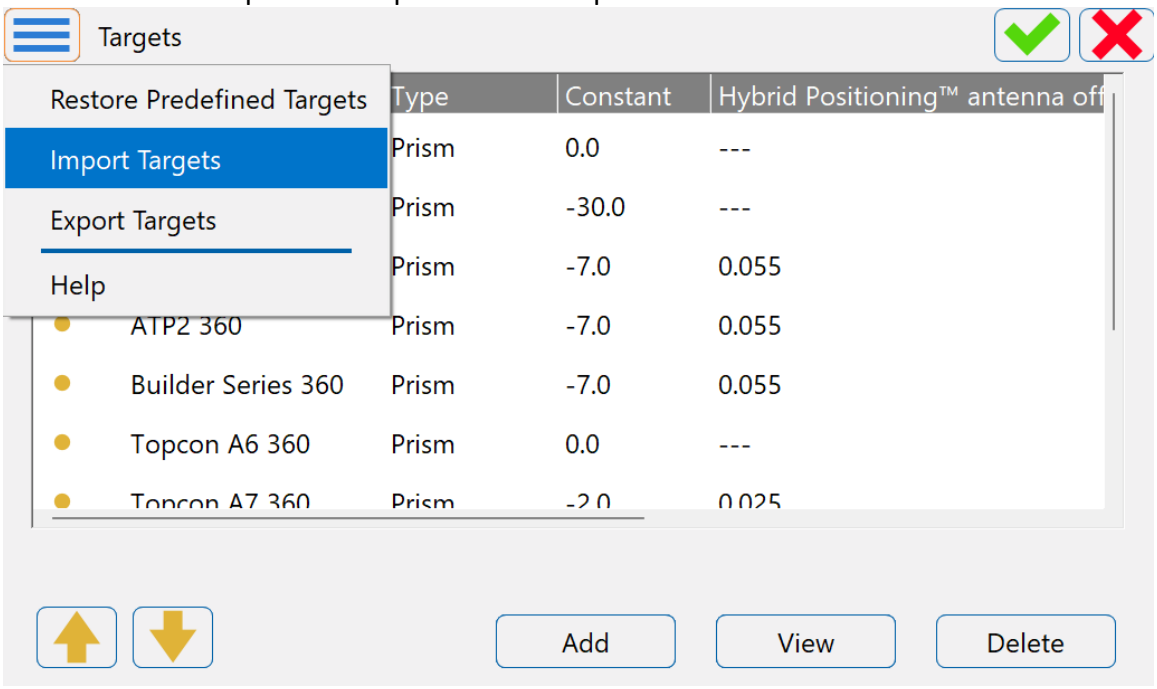
- Added option to overwrite point coordinates with a new measurement while keeping the code and attributes

GNSS

- Added Support for TILT in Hybrid Positioning mode. TILT functions now also available for optical measurements
- mmGPS: Auto initialization of PZS-1 at connection phase
- Added RTCM 2.1 and RTCM 2.2 formats for HiPer XR rover and base
- Automatic reconnection to the Relay mountpoint if it becomes active again
- Add Config Radio option under Setup>Status
- Added support for PP sessions with Hiper XR (from FW 5.6 or more recent)
- Mock Location: more devices supported with the ability to transmit HRMS and VRMS with an accuracy of less than 1 meter
- Added Galileo HAS PPP source, SkyBridge configuration now supports Galileo HAS PPP correction source.
- Added the SNR bar for LBand satellites, providing better insight to signal quality
- Allowed "BeiDou B2b" correction source for PPP and SkyBridge modes
- LBand satellites in SV List, LBand satellites now showing in SV list
- Support new SkyBridge base mode: transmitted
- Added an option to store a corrected base position when performing correct base without navigating to raw data to save the corrected position as a point
- Added Relative Position Accuracy Report

Optical

- Added monitor options for LN-100 and LN-150 instruments
- Support source and destination points for benchmarks
- Added ability to remove predefined prism configurations from Prism List
- Added observation info in Resection Routine
- Allowed import and export of current prisms



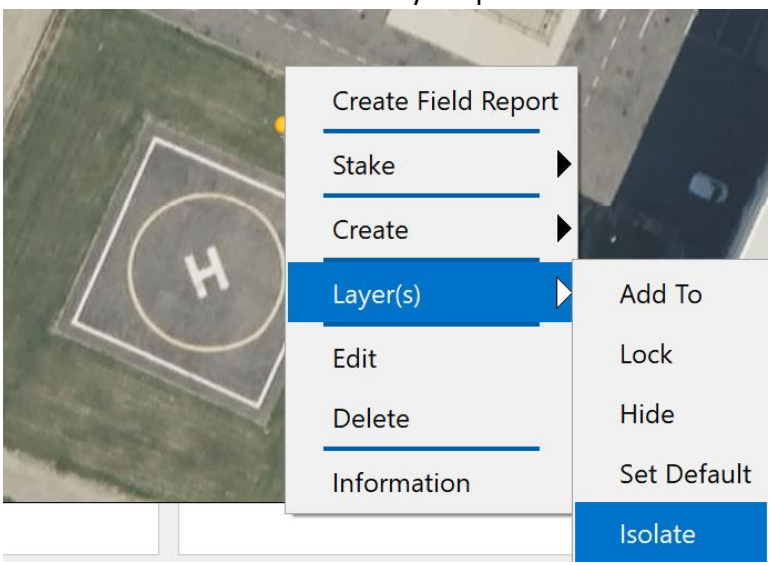
- Added option for user to adjust auto power off time for LN instruments
- Added resection options for 2D/2D+H in setup by Grid Lines

Map

Improvements to the map view include:

- Added WFS Maps Support with an ability to select & stake polylines from Web Feature Service maps server

- Added Isolate Layer option



Stakeout

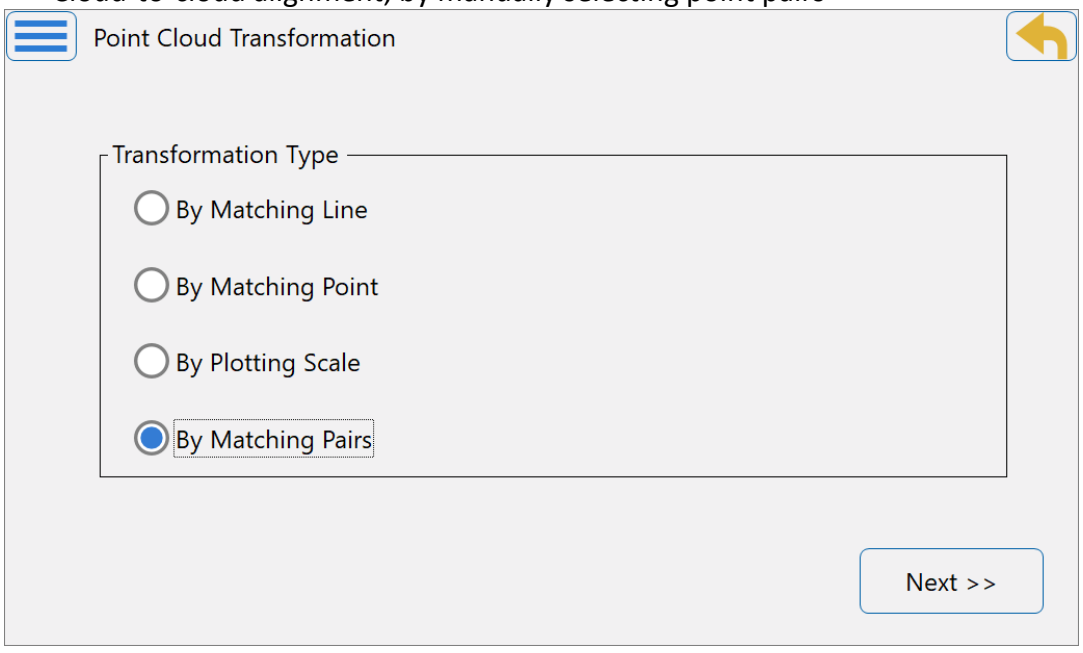
Improvements in (3D) stakeout, reporting and improving line stakeout workflow include:

- Added 3D Stakeout in Map view for IFC models and Surfaces
- Added date and time filter option when exporting a Stake Report in PDF format
- Added option to select the line and linework in Stake Map View to be able to continue stake next line or linework

Point clouds

improvements have been made to the visualization and handling of pointclouds including:

- Color by station setup, point clouds can now be visualized with color based on station setup
- Added the ability to do a resection from the point cloud for setup, use points from point cloud setup instrument using resection
- Allowed to select point cloud point setup, COGO, and more directly from map
- Cloud-to-cloud alignment, by manually selecting point pairs



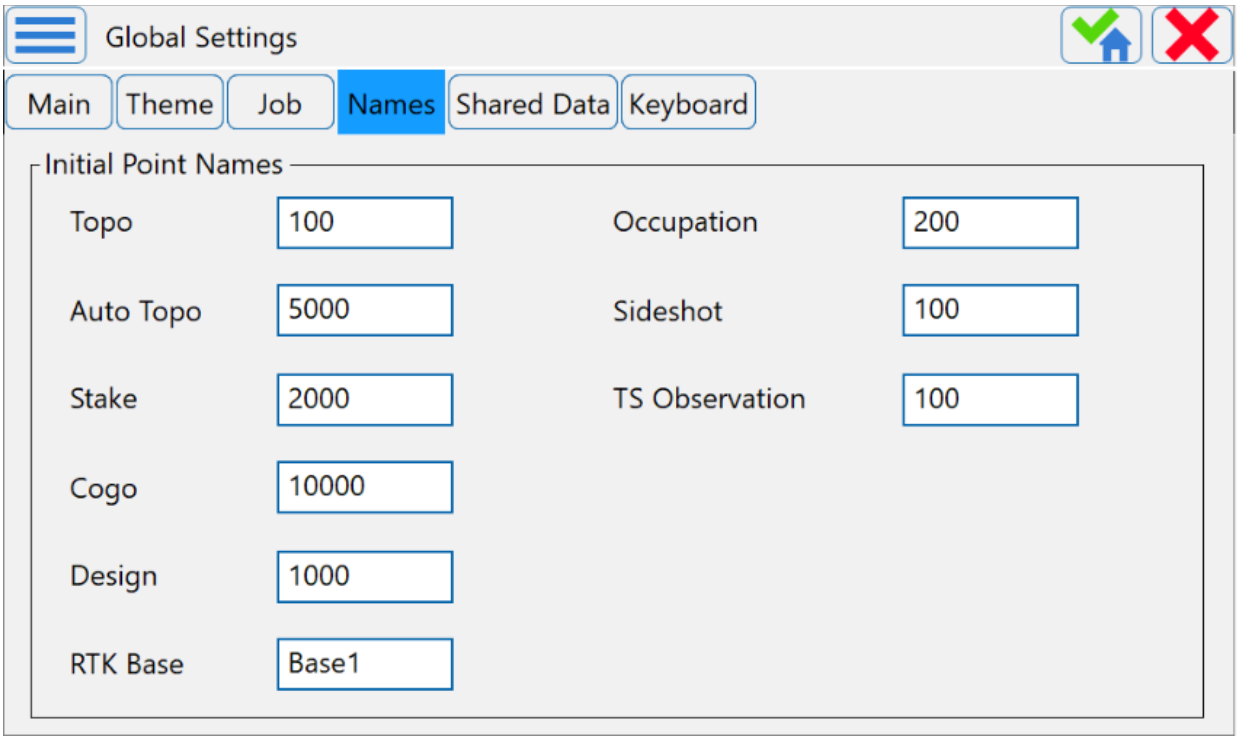
- Added possibility to create surfaces from point cloud data

- Implemented point cloud transformation by matching multiple points
- Added option for using planes to slice the point clouds

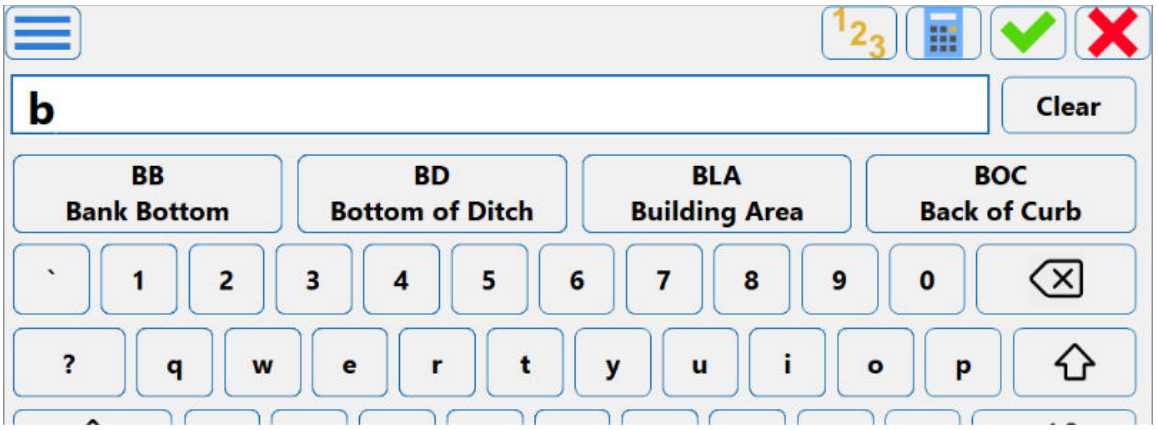
Other new features and improvements

Other improvements include:

- Layers group, layers can now be sorted in groups for easier layer management and visibility control.
- Added Option to change default point number for different point type



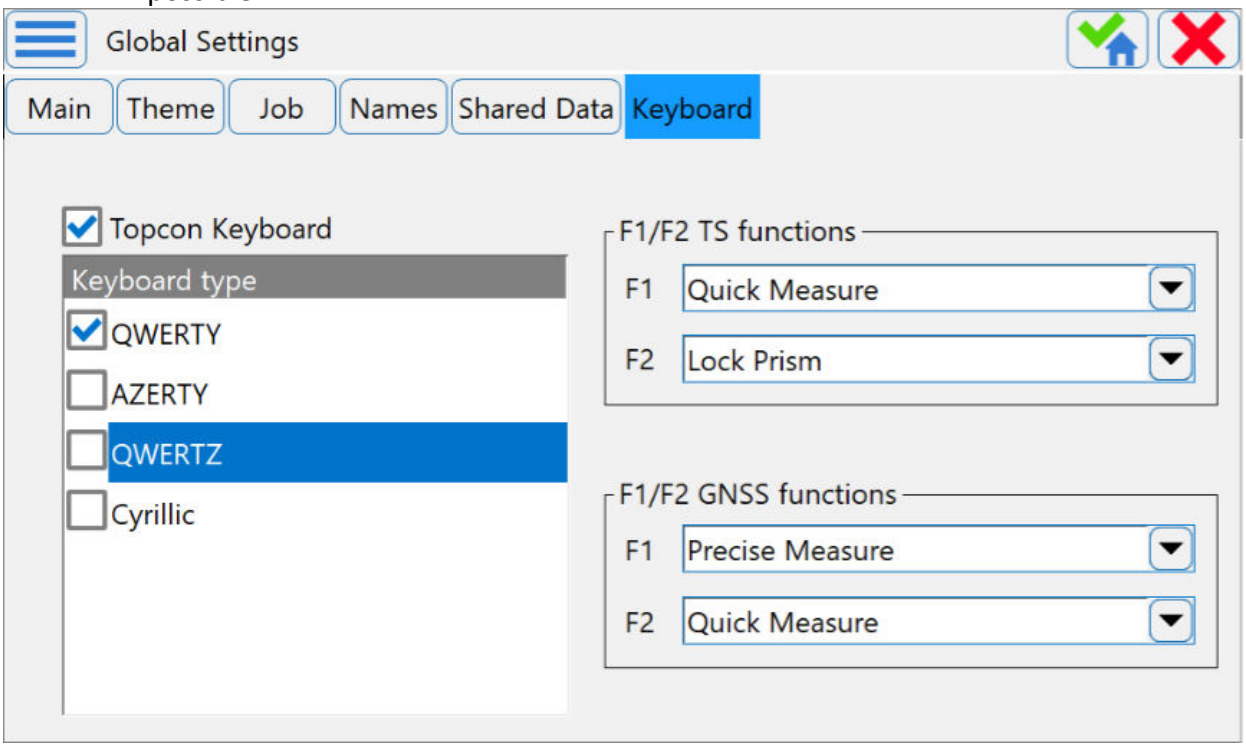
- Customizable contact details for inquiries to local support
- "Add Map" button added in Field report editor; now able to add multiple map screenshots to the Field Report
- Show both code names and descriptions in virtual keyboard suggestions



- Added transformation Results for 3D Model; now showing transformation results after performing transformation of 3D model

- Improved software activation workflow

- FC-5000/6000/6400, FT-100: assigning functions to hardware buttons F1 F2 now possible.



- Added an ability to edit Plane parameters such as crossfall and mainfall.