

# Layout 2.5.16.2

## Release Notes

2016-01-27

### New Features and Changes

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- **DWG and DGN Format Support**
  - DWG Import and Export are now supported
    - Read support for files of version 2.5 through 2016
    - Write support for files of version 12
  - DGN Import is now supported
    - Read support for V7 and V8 DGN (including V8XM and V8I)
  - Memory constraint for Windows Mobile devices still applies. (No file size limit for tablets)
- **New QWERTY Keyboards, Numeric Keypads, and Calculator**
  - A new QWERTY keyboard with dedicated numeric keypad has replaced the current ABCDE one for faster and easier typing
  - The new and responsive keyboards provide better outdoor visibilities
  - The PRN calculator has received a graphical update to match with the new keyboards
- **Photo Note Improvements**
  - The ability for taking photo notes has been added for Windows Desktop 7/8.1/10 based tablets and Windows Embedded Compact 7 devices. (Windows Mobile devices already have this support)
  - Added the ability to view after taken the pictures
- **Multi-offset Layout Mode** – A new mode which allows fast and continuous offset staking on the same point.
- **Alignment Offset Improvements**
  - A new offset button has been added to the alignment toolbar
  - Able to define and store offset points base on the alignment station and offset
  - Able to define and store points on the alignment base on offset points
- **Graphical Point Selection for Defining Layout List** – Added an ability to mass select staking points on the map screen by dragging a region.
- **Circular Curves Support** – The Circular Curve is now a supported type in alignment vertical profiles
- **DXF Background Mode** – A new “Map DXF Entity Select” option has been added to the Map Configurations screen. Turning ON this option prevents users from interacting with DXF entities.
- **ASCII Export** – Range searching function in ASCII Export screen now support Alpha-Numerical Point IDs
- “Map Point/Line/Position Select” settings have been moved under the Map Configuration screen on the top toolbar for easier access
- The buttons for Staking List and the toggle for Use List have been redesigned to align with other similar functions.
- The build-in File Browser for Windows CE devices has received performance improvements

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- Improved the consistency of displaying cut/fill information related to alignments
- The Raw file statistics notes now include tilt compensation indicators
- The Electronic Bubble function has been added as one of the keyboard shortcut options
- The ability for using Unicode characters as project names has been temporarily disabled
- Improved error handling for long range Bluetooth connection
- Fine-tuned point/line selection radius
- Various icons throughout the program have been updated
- Various wordings in the Import/Export menu should now be more consistent

### Hardware Specific Updates

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- **ComNav**  
T300 – Added the support for Lefebure NTRIP Client
- **DT-Research**  
DT391GS (Trimble) – Added support for Trimble BD910/BD930 variant of DT391GS GNSS tablets
- **Geo-FENNEL**  
FGS1 – Added the support for Lefebure NTRIP Client
- **GENEQ**  
SXPro RTK – Added support for SXPad RTK Data Collectors  
SXPro GNSS – Added support for SXPro GNSS Data Collectors
- **GeoMax**  
Zenith 10/20 – Added support for the RTCM3.2 MSM correction type and removed NovAtelX  
Zenith 25/25Pro – Added 10Hz and 20Hz logging rate  
Zenith 35 – Improved Dynamic DNS functionalities  
Zipp20 – Improved compensator error handling  
Zipp20/Zoom90 – Improved EDM error handling  
Zipp20/Zoom90 – The Face Left/Right toggle in Level Instrument screen should function now
- **FOIF**  
A30 – Improved tilt compensation accuracy and reliability
- **Hi-Target**  
V90 – Added support for V90 GNSS receivers
- **Leica**  
CS15 – Fixed a screen glitch issue during local transformation  
CS20 – Added BT PAN “Shared” option for sending RTK correction directly to GNSS receivers

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CS20 – The translate function should not cause invalid point coordinates anymore

CS20/CS35 – Photo note has been enabled on these devices

CS35 – Keypad response time has been greatly improved

- **Linertec**  
LGN-200S – Added support for LGN-200S GNSS receivers
- **Navcom**  
SF-3040 – Added SBAS support for SF-3040 GNSS receivers
- **PENTAX**  
G5100T – Added support for G5100T GNSS receivers
- **Panasonic**  
FZ-G1 – Keypad response time has been greatly improved
- **South**  
Galaxy G6 – Added support for Galaxy G6 GNSS receivers  
Galaxy G1 – Improved tilt compensation accuracy and reliability  
S720/S750/S760 – Added support for a new generation of S720/S750/S760 series of data collectors  
NTS-370R10 – The onboard application should now properly initiate auto-connection
- **Stonex**  
S8 Plus – The driver for S8 Plus has received significant updates  
S9III Plus – The driver for S9III Plus has received significant updates  
S10 – Updated the driver to support internal compass in newer firmware (151016 or later)  
S10 – Improved tilt compensation accuracy and reliability  
R2W Plus – Fixed an issue with setting up plate angles
- **Winmate**  
S430T (Win CE6.0) – Added support for S430T (Win CE6.0) series of data collectors

### Coordinate Systems and Geoids

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- **Various Geoids and Grid Shift files have been added, check Help Desk at [MicroSurvey.com](http://MicroSurvey.com) for details.**
- Projection parameters for Malaysian GDM2000 Cassini coordinate system have been updated.

### Defects Fixed

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- Fixed an issue where certain DXF files with boundaries layer cause Zoom Extents to be very large
- With build-in file browser, certain files should not have duplicate entries anymore
- Fixed an issue where importing certain alignment profiles will prevent users from editing templates

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- Users can no longer enter illegal characters during DXF export
- Fixed a typo in the Adjust GNSS Point notice screen
- Opening a project with more than 30 points on a Demo license should now stop prompting excessively
- Local transformation to point at base should work better with imperial units now
- Choosing No when applying current orientation during multi-set setup no longer proceed to sideshot
- Fixed an issue where a special case of alignment file with cross-section causes station field to be empty
- The measure button in GNSS offset routine should now be visible on all devices