

Trimble RealWorks



GEOSPATIAL

January 2024

Version 2024.00 Release Notes

Introduction

These release notes describe the features and enhancements that are new in version 2024.00 of the Trimble® RealWorks® software. For further information, visit www.trimble.com/support/.

System Requirements

- Operating system: Microsoft® Windows® 10, 11- 64 bit
- Processor: minimum 2.8 GHz (Quad-Core) or higher, (additional cores with Hyper-Threading support strongly recommended)
- RAM: minimum 16GB (32GB and higher recommended)
- Graphics card: OpenGL 3.3 compatible with minimum 1GB VRAM (3GB or higher and OpenGL4.4 recommended)
- 3-button mouse

Other requirements

Solid State Drive (SSD) for maximum performance (pref. 500GB) - strongly recommended.

Upgrade Procedure

Install the software from this location (**Internet connection required during installation and license or subscription verifications**): [Support and Downloads](http://www.trimble.com/support/)

<http://geospatial.trimble.com>

New Features and Enhancements

Description	New or Enhanced	Feature Overview	Benefit/Comments
Magic wand in segmentation	New	A new innovative Magic Wand fence mode has been added: simply define a region by single left click and extend it if needed by additional clicks. Exclude unwanted areas using Shift + left click.	Productivity
Segmentation performance	Enh	The processing time in the segmentation tool has been greatly improved.	Productivity
Registration Report (Scan-based) and Refine Registration using TZF Scans	Enh	The accuracy of the overlap computation between TZF scans has been improved. As a result, when doing Registration Report (Scan-based) or Refine Registration using Scans, the links between stations are now more reliable. Completely separate scans now show no or very low overlap - e.g., indoor scans acquired in separate rooms with no common parts.	Quality
Annotations in Trimble Scan Explorer	New	The annotations generated in Trimble Perspective and Trimble RealWorks that are associated with a station can now be displayed in Trimble Scan Explorer. Share your annotations with others by using Media>Sharing>Publish.	Data compatibility, communication, interoperability
Auto-Segment commands (moving objects, steel beams)	Enh	Improved graphic card compatibility and stability in Auto-Segment Moving objects and Auto-Segment Steel Beams. Performances have been improved on recent NVIDIA graphics cards.	Component compatibility, productivity
Inspection Map CSV export	New	The Inspection Map can be exported as a CSV file containing the Inspection Map values of each cell.	Data export
Direct Panorama Export	Enh	The Export with Location and Orientation command now exports a 2:1 ratio panorama	Data export

		file using the full camera resolution available in the scanner.	
Tank Secondary Containment with multiple tanks	Enh	The Tank Secondary Containment tool now supports multiple storage tanks belonging to the same basin.	Scalable workflow
Trimble Scan Explorer: view using images	New	For low resolution scans the True Color mode is now displaying the panorama files at the full camera resolution available in the scanner.	Visualization, leverage imagery resolution
Display shortcuts	Enh	New shortcuts have been added to show/hide geometries or cloud only: View only this: Ctrl+W Display / Hide cloud: Ctrl+E / Alt+E Display / Hide geometry: Ctrl+R / Alt+R	Productivity
Segmentation shortcuts	Enh	New shortcuts have been added to switch between segmentation modes: Polygon: Shift + X Rectangle: Shift + S Circle: Shift + C Magic Wand: Shift + W	Productivity
Zoom Extents option	Enh	Zoom Extents on double click can be enabled or disabled in the preferences	Customization
Station 3D markers size	New	Station triangles now have their size adjusted according to the distance to the viewpoint in perspective mode, like in Trimble Perspective.	Visualization
Auto-extract target speed	Enh	Extraction speed is twice as fast as previous. Progress bar added for target detection and target creation, utilizing 100% CPU usage for creation.	Productivity

Resolved Issues

- **Unloading Unused Memory Blocks:** fixed application performance degradation
- **Target-Based Registration:** fixed issue where stations could become inverted in the Z-axis
- **Georeferencing:** unused TopoPoints were moved by georeferencing tool
- **Match Target:** command added to the targets contextual menu
- **Auto-Segment:** fixed wrong behavior where the whole scan is set as 'moving object'
- **Auto-Segment:** fixed GPU compatibility issues and improved stability after using Auto-Segment commands
- **Create Pipe:** when using Ctrl + Click to generate the first pipe element, the second click was incorrect
- **Create Pipe:** improved stability when entering the tool with a modeled pipe containing valves and flanges
- **Create Cable Tray:** improved stability when using 3D manipulators
- **Create Cable Tray:** fixed issue when trying to extend or connect segments
- **Project Management:** time reductions to open large projects or expand large scan groups
- **Zoom on Selection:** fixed error when selection contains a group containing only clouds
- **Zoom Extents:** in a multi project session, after closing one of the projects the zoom extents was incorrect
- **Sampling:** split per station was not persistent
- **Colorization:** fixed colorization generating blurry areas for panorama files (X7, X9 scans)
- X7 colorization
- **Create Mesh:** when using Station-Based projection, fixed scanner identification for X7 data
- **License Manager:** resolved potential error when selecting subscription license
- **License Manager:** fixed crash resulting from computer sleep and subscription license
- **Import Image:** imported images were using the original files while the project was not saved
- **Import:** fixed failing import of structured files stored in the drive root
- **Export Station Positions to CSV File:** North and East coordinates when exchanged when using NEEL convention
- **LAS Export:** the export is now faster
- **E57 Export:** in Trimble Scan Explorer, the generated files are named according to their station of origin
- **PTX Export:** export one station per file
- **Tank Secondary Containment:** fixed inability to hide tank

- **Ortho-Projection:** fixed instabilities after segmenting the point cloud
- **Publisher:** area scans were cropped when you published a project with a reduced size
- **Object Name:** when the mouse was over the 3D space, the N key was not usable to name or rename an object
- **Capture Screen:** incorrect zoom when the viewer is resized to be taller than wider
- **SketchUp Export:** fixed wrong error message when exporting data to SketchUp 2023
- **Display:** fixed question marks in digit display in 3D
- **Display:** fixed the point cloud display when the cloud contains a single point

Legal Notices

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Release Notice

This is the January 2024 release of the Release Notes. It applies to version 2024.00 of the Trimble® RealWorks® software.

<http://geospatial.trimble.com>