RELEASE NOTES



Trimble Access

Version 2022.01 July 2022

This release of the Trimble[®] Access™ software includes the following changes.

New hardware support

Trimble TDC650 handheld GNSS receiver

Trimble Access version 2022.01 supports the new Trimble TDC650 handheld GNSS receiver.

The TDC650 can be used as a handheld, with a monopole using the integrated antenna, or mounted on a pole and used with an external antenna.

The TDC650 can only be used with Trimble Access subscriptions, and is designed for GNSS-only surveying using the integrated GNSS receiver. It does not support connections to external GNSS receivers or total stations, and Trimble Access apps that require conventional surveys cannot be used on the TDC650. These include Trimble Access Tunnels, Mines, and Monitoring.

Resolved issues

- **Sign in using Edge browser**: We have fixed an issue where a server connection error message appeared if you signed in to Trimble Access using the Microsoft Edge browser and then attempted to sign into Trimble Access using a different Trimble ID when the Edge browser was still open.
- Job files created from JXL: We have fixed an issue where if you created a job from a JXL file, some settings from the JXL file were not copied into the job. These settings were **South Azimuth**, **Grid coordinates** orientation (North-East, South-West, etc.), **Distance** type (Grid, Ground, or Ellipsoid), and **Magnetic declination** value.
- Available USB drive: We have fixed an issue where the software did not always show that a USB drive was available after you had inserted the USB drive into a USB port on a Windows controller or PC.
- **DTM delta display in the map:** When using a LandXML or 12da file that does not include at least one alignment, deltas are now shown on the map when staking a DTM from the file.
- **Photo attributes**: We have fixed an issue where the **Photo** field displayed the previously used photo file name. The field is now cleared ready for a new name.
- **Stakeout with null target height**: We have fixed an issue where the stakeout angle deltas were not populated if the target height was not set (had a null value).
- RTX Quickstart incorrect coordinates: We have fixed an issue where the incorrect coordinate was being used in the QuickStart function in RTX surveys. The magnitude of the error was equivalent to the amount



of tectonic plate motion at the location over a 5 year period. This error resulted in RTX converging in the incorrect location, followed by a small de-convergence then convergence to the correct location.

- WFS: We have fixed an issue to do with handling of GML position data in a WFS.
- **Time intervals in Danish**: We have fixed an issue where the software would not accept any value entered in a time interval field if the value included hours, not just minutes.
- Performance issues: We have improved the performance of the software. In particular:
 - When switching between the video view and the map.
 - When performing a resection.
 - When performing a site calibration.
 - When staking out roads, alignments, or polylines using GNSS, the eBubble could become unresponsive and the stakeout deltas could become slow to update.
- Application errors: We have fixed several issues that caused occasional application errors when using or closing the software. In particular:
 - On running the software after installing Trimble Access version 2022.00, on some Windows controllers an error message reported the DX9 driver was not supported.
 - When setting a DXF file to visible or selectable in the map **Layer manager** where the file included a spline for a hatching boundary.
 - When exporting to DXF without first opening the job containing the points you are exporting.
 - When creating a surface from scan points selected in the map when the map is orbited (not in plan view).

Roads

Enhancements

12da road improvements

Support for staking strings that do not follow the alignment, for example traffic islands and kerb returns. The software now shows stakeout deltas to the closest part of the string.

Support has been added for 12da files that include horizontal alignments defined using the Westrail cubic spiral.

Resolved issues

• **Design elevation**: We have made the following improvements to the display of the design elevation at the stakeout navigation screen:

- We have fixed an issue where a vertical construction offset was applied a second time.
- We have fixed an issue where, for certain workflows, you could not reload the original elevation.
- The **Design elevation** value at the base of the form is no longer adjusted by any specified vertical construction offset.
- The **Target elevation** value at the top of the form is now the design elevation plus any specified vertical construction offset.
- If you edit the **Design elevation** in the navigation screen or in the **Confirm staked deltas** screen, then once you measure and store the point the **Design elevation** returns to the original **Design elevation** value.
- 12da one string/two string stakeout: We have made the following improvements to the One string and Two string stakeout methods for 12da roads:
 - When you select a string it is now highlighted correctly in the map.
 - We have fixed an issue where the **Start** button was sometimes missing, depending on the geometry of the string.
 - Improved handling for strings that cross over the alignment. Previously the computed target position could be on the wrong side of the road.
 - The target position in the cross section view now updates to the correct position after selecting a different string.
 - The target icon for a selected station on a string no longer remains onscreen when you switch to the **One string** stakeout method.
 - Incorrect handling of the scale factor resulting in some overlap of strings.
 - A tangency issue that resulted in some strings being drawn incorrectly.
- LandXML roads: We have fixed several issues with LandXML roads, including:
 - If the master alignment definition for a LandXML string road contained one or more station equation elements (StaEquation) these elements were not read and included in the road definition.
 - Improved support for horizontal alignments where consecutive elements are non-tangential. Previously selecting a non-tangential element produced an error message.
 - If you changed the station interval during stakeout, the new station interval was added and the LandXML road was saved with all records in the rxl file format, but the file had an xml file extension.
 - A display issue where triangles on curves were not shaded correctly in the map.
- **Null stakeout deltas**: We have fixed an issue where null deltas were shown when staking in Roads in an integrated survey with **Precise elevation** enabled. This was an issue only when using an R12i receiver with **IMU tilt compensation** enabled.

- **Application errors**: We have fixed several issues that caused occasional application errors when using or closing the software. In particular:
 - When you select an RXL road from the stakeout list when the road is set to visible but not selectable in the map, and then attempt to select the road in the map.
 - When the Stake method is Station on string and you apply a calculated construction offset before selecting a side slope string.

Documentation clarification

BIM model support in Trimble Access 2022.00

NOTE – In response to feedback, we are providing an updated explanation of the **DWG** and **NWD BIM** model support and the **Download BIM** models as **TrimBIM** files features that were added in Trimble Access 2022.00. The main points to note are:

- BIM models are **not** supported when running Trimble Access **on an Android device**. This limitation applies to all types of BIM models, including IFC, TrimBIM, DWG, and NWD files.
- Trimble Access supports the reading of standard AutoCAD entities from DWG files. In many cases, it may be better to use a DXF file rather than a DWG file.

DWG and NWD BIM model support on Windows controllers

In addition to IFC and TrimBIM files, Trimble Access on Windows now supports two additional BIM model file formats:

- Drawing (.dwg) files created using Autodesk AutoCAD software
- · NWD (.nwd) files created using Navisworks software

NOTE – Trimble Access supports the reading of standard AutoCAD entities from DWG files. Some CAD applications, for example Civil 3D, use AutoCAD extensions to create 3D objects which may not be supported by Trimble Access. Using a DXF file may be better than trying to use DWG, or you could try converting a Civil 3D drawing to a standard AutoCAD DWG format. For more information, visit Autodesk's Knowledge Network to learn how to convert Civil 3D drawings to standard AutoCAD format.

We have renamed the IFC group box in the Map options screen and the Video options screen to the BIM model (DWG, IFC, NWD, TRB) group box. Use these options to change the transparency of objects in the map and video screen, and whether individual faces or whole objects are selected in the map.

When running Trimble Access on a Windows controller you can use any supported BIM model file format for surveying fieldwork including measuring points, stakeout, and cogo calculations including scan to surface inspections, and center point or centerline calculations.

For more information, see the topic **BIM models** in the *Trimble Access Help*.

Download BIM models as TrimBIM files on Windows controllers

The **Sync settings** screen now provides the **Download as TrimBIM** check box to download BIM or 3D models (including Industry Foundation Classes (IFC), Navisworks Drawing (NWD), AutoCAD Drawing (DWG) and SketchUp (SKP) files) from Trimble Connect as TrimBIM files. TrimBIM files are smaller, faster to download to the controller, and faster to load the first time you use them in Trimble Access. Alternatively, to download IFC, DWG and NWD files in their original format, *clear* the **Download as TrimBIM** check box.

NOTE – Conversion of NWD files to TrimBIM format using Trimble Connect is in BETA. It is only supported when you upload NWD files to Trimble Connect using Trimble Connect for Windows, not Trimble Connect Web.

For more information on assimilating BIM models as TrimBIM files in Trimble Connect, refer to the Trimble Connect documentation.

Supported equipment

Trimble Access software version 2022.01 communicates best with the software and hardware products listed below.

NOTE - For best performance, hardware should always have the latest available firmware installed.

For more information on recent software and firmware versions, refer to the Trimble Geospatial Software and Firmware Latest Releases document.

Supported controllers

Windows devices

The Trimble Access software runs on the following Windows® 64-bit devices:

- Trimble TSC7 controller
- Trimble T7, T10, or T100 tablet
- Supported third-party tablets

For more information on supported third-party tablets, go to Trimble Access Downloads and click **Support Bulletins – Trimble Access** to download the **Trimble Access 2021 on 64-bit Windows 10** bulletin.

Android devices

The Trimble Access software runs on the following Android™ devices:

- Trimble TSC5 controller
- · Trimble TDC600 handheld
- Trimble TDC650 handheld GNSS receiver
- Trimble TCU5 controller

A small number of features are not supported when running Trimble Access on an Android device. For more information, see the section **Tips for Android devices** in the *Trimble Access Help*.

Supported conventional instruments

Conventional instruments that can be connected to the controller running Trimble Access are:

- Trimble scanning total stations: SX12, SX10
- Trimble VX™ spatial station
- Trimble S Series total stations: S8/S6/S3 and S9/S7/S5
- Trimble mechanical total stations: C5, C3, M3, M1
- Trimble SPS Series total stations
- Spectra[®] Geospatial total stations: FOCUS[®] 50/35/30
- Supported third-party total stations

The functionality available in the Trimble Access software depends on the model and firmware version of the connected instrument. Trimble recommends updating the instrument to the latest available firmware to use this version of Trimble Access.

NOTE – Connections to the SX10 or SX12 are not supported when using the TCU5 controller or the TDC600 model 1 handheld.

Supported GNSS receivers

GNSS receivers that can be connected to the controller running Trimble Access are:

- Trimble integrated GNSS surveying systems: R12i, R12, R10, R8s, R8, R6, R4, R2
- Trimble modular GNSS surveying systems: R750, R9s, NetR9 Geospatial, R7, R5
- Trimble SPS Series GNSS Smart Antennas: SPS986, SPS985, SPS985L, SPS785, SPS585
- Trimble SPS Series GNSS modular receivers: SPS85x
- · Trimble Alloy GNSS Reference Receiver
- Trimble TDC650 handheld GNSS receiver
- Spectra Geospatial integrated GNSS receivers: SP85, SP80, SP60
- Spectra Geospatial modular GNSS receivers: SP90m
- FAZA2 GNSS receiver
- S-Max GEO receiver

NOTE – Because Spectra Geospatial receivers use different GNSS firmware to other supported receivers, not all functionality in the Trimble Access software is available when a Spectra Geospatial receiver is in use. For more information, refer to the support bulletin Spectra Geospatial receiver support in Trimble Access.

Installation information

License requirements

You can install Trimble Access 2022.01 using a perpetual license that is licensed to the controller or as a subscription license that is assigned to an individual user. Licenses are required for the General Survey app as well as for each Trimble Access app you want to use.

Perpetual license

To install Trimble Access 2022.01 onto a supported controller that has a *perpetual license*, the controller must have a Trimble Access Software Maintenance Agreement valid up to **1 June 2022**.

TIP – To upgrade from an older controller to a new controller, you can relinquish your Trimble Access software license from an older controller that has a current Software Maintenance Agreement using the appropriate Trimble Installation Manager. Once your distributor has reassigned the licenses to your new controller, you can install Trimble Access to the new controller using Trimble Installation Manager.

Subscriptions

If you are using a Trimble Access *subscription* rather than a perpetual license, you can install Trimble Access 2022.01 onto any supported controller.

To use the software subscription:

- 1. The License Administrator in your organization must assign a subscription to you using the Trimble License Manager webapp.
- 2. The first time you start the Trimble Access software, you must sign in using your Trimble ID to download your Trimble Access subscription license to the controller. Otherwise you are prompted to sign in only if you have previously signed out.
 - Subscriptions are locked to that controller until you sign out. Once signed out, you can run Trimble Access on a different controller and sign in to lock the subscription to that controller and use the software.

Don't have a current license? You can still try out the software

You can use Trimble Installation Manager to create a limited demonstration license and then install Trimble Access 2022.01 onto any Windows 10 computer or a supported Trimble controller running Android.

Demonstration licenses are limited to adding 30 points per job, however large jobs created elsewhere can be opened and reviewed. Demonstration licenses allow connections to GNSS receivers and total stations for the first 30 days. After 30 days you can emulate a total station survey using a manual instrument (Windows and Android), and emulate a GNSS survey (Windows only).

NOTE – You can only create a demonstration license for Trimble Access on devices that do not already have a Trimble Access license.

For more information, refer to the topic **To try out software** in the *Trimble Installation Manager Help* for your controller operating system.

Installation and upgrades using Trimble Installation Manager

To install the software to your controller, use the appropriate Trimble Installation Manager for your controller operating system:

- Trimble Installation Manager for Windows 👺
- Trimble Installation Manager for Android

To install the software to a Windows controller

To download and install Trimble Installation Manager for Windows , connect the controller to the internet, and then go to install.trimble.com and select the **TIM for Windows** tab.

To run Trimble Installation Manager on the controller, tap the **Search** icon in the Windows task bar and enter **Install**. Tap Trimble Installation Manager , in the search results to open the Trimble Installation Manager. When you run the software, it updates itself automatically with the latest changes and software releases.

Jobs that were last used in Trimble Access version 2017.xx and later are automatically converted to the latest version of the software when you open them in Trimble Access. There are a number of tools for converting older jobs. For more information, refer to the **Trimble Access: Converting jobs to a newer version** document, available from forms.trimble.com/globalTRLTAB.asp?nav=Collection-62098.

Trimble Installation Manager for Windows can be installed and uninstalled as required, without affecting the Trimble Access software.

For more information refer to the Trimble Installation Manager for Windows Help.

To install the software to an Android controller

Trimble Installation Manager for Android is often preinstalled on Trimble Android devices.

To download and install Trimble Installation Manager for Android , connect the controller to the internet, and then go to install.trimble.com and select the TIM for Android tab.

To run Trimble Installation Manager on the controller, go to the Android **Apps** screen and tap the Trimble Installation Manager for Android icon. When you run the software, it updates itself automatically with the latest changes and software releases.

NOTE – Trimble Installation Manager for Android **must remain installed** on the controller for the Trimble Access software to run.

Jobs that were last used in Trimble Access version 2019.xx are automatically converted to the latest version of the software when you open them in Trimble Access. There are a number of tools for converting older jobs. For more information, refer to the **Trimble Access: Converting jobs to a newer version** document, available from forms.trimble.com/globalTRLTAB.asp?nav=Collection-62098.

For more information refer to the Trimble Installation Manager for Android Help.

Updating office software

You may need to update your office software, so that you can import your Trimble Access version 2022.01 jobs.

All required updates to Trimble Business Center are handled using the **Check for updates** utility provided with Trimble Business Center.

TIP – If you are using other office software such as Trimble Link™ to convert job files to other file formats, install the Trimble Installation Manager onto the computer where Trimble Link is installed and then run Trimble Installation Manager to install office updates.

Solution Improvement Program

The Trimble Solution Improvement Program collects information about how you use Trimble programs and about some of the problems you may encounter. Trimble uses this information to improve the products and features you use most often, to help you to solve problems, and to better meet your needs.

Participation in the program is strictly voluntary. At any time, you can choose to participate, or not to participate in the Solution Improvement Program. To do this, in Trimble Access tap ≡ and select **About**. Tap **Legal** and select **Solution Improvement Program**. Select or clear the **I would like to participate in the Solution Improvement Program** check box.

Trimble Access Apps

The Trimble Access software suite offers surveyors and geospatial professionals a range of specialized field applications designed to make fieldwork easier. With an easy-to-use interface, optimized workflows, and real-time data synchronization, the Trimble Access software suite enables you to accomplish more every day. Improve your competitive edge by selecting the applications that best suit the work that you do.

Trimble Access apps supported on Windows devices

The following Trimble Access apps are supported when running this version of Trimble Access on a supported Windows device:

- Roads
- Tunnels
- Mines
- · Land Seismic
- · Pipelines
- · Power Line
- Katastermodul Deutschland
- Monitoring
- AutoResection
- BathySurvey

NOTE – Changes to the Trimble Access apps that are supported can change after release. For up to date details, or details on apps supported with previous versions of Trimble Access, see Trimble Access App availability.

Trimble Access apps supported on Android devices

The following Trimble apps are supported when running this version of Trimble Access on a supported Android device:

- Roads
- Tunnels
- Mines
- Pipelines
- · Power Line
- · Katastermodul Deutschland
- · Monitoring
- AutoResection
- · AllNAV Rounds

NOTE - Changes to the Trimble Access apps that are supported can change after release. For up to date details, or details on apps supported with previous versions of Trimble Access, see Trimble Access App availability.

Legal information

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