Trimble Access

Version 2021.00 February 2021

These Release Notes describe the new features and changes available in this release of the Trimble® Access™ software.

New hardware support

Trimble SX12 scanning total station

Trimble Access version 2021.00 supports the new Trimble SX12 scanning total station. The SX12 integrates high-accuracy surveying, imaging, and 3D scanning capabilities into your everyday workflow. Based on the popular Trimble SX10 scanning total station, the SX12 features a green focusable laser pointer with a spot size of just 3 mm at 50 m.

Trimble SX instruments are now supported by the Trimble Access Mines app, in addition to Tunnels, Roads and Monitoring.

Trimble T100 tablet

Trimble Access version 2021.00 supports the new Trimble T100 tablet.

The Trimble T100 features a large 10.1" LED display and is designed for all-day survey fieldwork. IP65-rated with military-grade MIL-STD-810G ruggedness certification, the Trimble T100 is protected against rain, mud, dust, sand, and extreme temperatures—as well as drops and shocks. Supporting the Windows® 10 operating system, the Trimble T100 provides a complete field to office solution.

Enhancements

Set scan limit for SX10 or SX12 scans

When scanning with a Trimble SX10 or SX12 scanning total station, you can now set a scan range so that only points within the specified range are stored. To limit the scan range, select the **Scan limits** check box, and then enter the **Minimum distance** and **Maximum distance** values for acceptable scan points. ***Points outside the specified range will not be stored***.

Capturing panoramas with the SX10 or SX12 Telecamera

When connected to a Trimble SX10 or SX12 scanning total station, you can now capture panoramas using the Telecamera. Panoramas can be captured at any time during a survey (tap ☰ / **Measure** / **Panorama**), or as part of a scan.

The Telecamera is available only when the **Framing** method is set to **Rectangle** or **Polygon**. Telecamera panorama images are fixed focus. For best results, the contents of the framed area should all be at a similar distance. Panoramas captured using the Telecamera are limited to a maximum of 1000 images.

Blink laser setting also blinks tracklight or TIL

When storing a point measured with DR mode, the instrument tracklight or target illumination light (TIL) now blink with the laser for the number of times set in the **Blink laser** field of the **EDM settings** screen, regardless of whether

the tracklight or the target illumination light is already turned on.

Surface inspections now available in the Video screen

You can now perform the **Surface inspection** Cogo function when viewing the **Video** screen or the map. Surface inspection point clouds visible in the map are now also shown in the **Video** screen. To select surface inspection point clouds to display, tap ⋮ in the map or video toolbar and select **Scans**. Tap a scan to select it.

Favorites and functions enhancements

You can now set a function key to escape from a form, or to display the on-screen keyboard. The keyboard is shown only if the current field allows text entry.

For more information, see the topic **Favorite screens and functions** in the *Trimble Access Help*.

Editing Measure codes

The following changes now make editing **Measure codes** buttons faster:

- When you tap and hold any code button on the **Measure codes** form you can now edit the code for that button without having to enter the **Edit measure codes** screen. When you have saved the change the software returns to the **Measure codes** form.

  TIP – To edit more than just a single code use the **Edit measure codes** button ✎.
- When editing a code, the previous code is highlighted, making replacing the code much faster.

Single tap to measure enabled by default when measuring codes

When measuring points using the **Measure codes** function, the **Single tap to measure** check box is now enabled by default, which means that a single tap on any code button will open the **Measure topo** or **Measure point** form.

To disable single tap, tap **Options** in the **Measure codes** screen and clear the **Single tap to measure** check box. When **Single tap to measure** is not enabled, then unless the correct button is already highlighted you will need to tap the button twice or tap **Measure** to progress to the **Measure topo** or **Measure point** form. This extra tap gives you a chance to make other changes, for example to add a string suffix.

For more information, see the topic **To measure and code observations** in the *Trimble Access Help*.

Report stylesheet EXSLT enhancements

Trimble Access version 2021.00 supports stylesheets that use the following EXSLT modules:

- **math**: math functions typically defined to use the math: namespace
- **date**: date and time functions typically defined to use the math: namespace (except for date:format-date, date:parse-date and date:sum)
- **sets**: functions to provide set manipulation typically defined to use the set: namespace
- **strings**: functions to provide string manipulation typically defined to use the set: namespace
- **functions**: functions that allow users to define their own functions for use within XSLT (except for func:script)

For details on the use of these extension functions within style sheets, refer to the exslt.org web site which provides full details on the functions.

NOTE – *Style sheets using these EXSLT extensions can be used in Trimble Access, but will not operate successfully in the ASCII File Generator utility program, or in Trimble Sync Manager, as these systems are based on solely on the style sheet functionality available the Windows operating system.*

Resolved issues

- **Code field focus when measuring points**: After measuring a point, the previous **Code** field is now selected so that it can be easily replaced. We introduced an issue in Trimble Access version 2020.11 where the cursor was positioned at the front of the **Code** field.
- **Job details:** We have fixed an issue where information about the job, including the **Description** and **Linked files**, was sometimes not shown in the jobs detail panel for jobs downloaded from the cloud.
- **Incorrect scale bar**: We have fixed an issue where the map scale bar did not always provide the correct information. This was an issue on the T10 tablet and the TDC600 or TCU5 controller.
- **Export settings**: We have fixed an issue where some export settings were not remembered the next time you exported using the same file format. This issue affected only settings written to style sheets.
- **Editing text in a field**: When you double-tap text in a text field, all the text in the field is now selected. In addition, when you tap and hold on text in a field, the pop-up edit menu no longer obscures the field on some controllers.
- **Video unavailable after SX10 scanning with a panorama**: We have fixed an issue where the software showed "Video unavailable: Scan in progress" for several seconds after completing a scan with a panorama using an SX10.
- **GNSS eBubble**: We have fixed an issue where the visibility and position of the **GNSS eBubble** per software screen was not remembered when switching between screens.
- **Internet RTK**: When connecting to a Trimble base receiver using a Direct IP connection, if the base receiver requires a password and you enter the incorrect password the software now shows a "Login failed, retry?" message.
- **BeiDou signal support**: Trimble Access now enables B2A signal tracking when a survey is started using a survey style that has BeiDou enabled. In addition, if the connected GNSS receiver has the BeiDou B1C option bit enabled, Trimble Access will switch on B1C tracking when a survey is started using a survey style that has BeiDou enabled.
- **Points with feature codes**: When measuring points using feature codes, the software now remembers when the **Match** and auto complete functions are enabled. In version 2020.00, these settings always reverted to **Auto off** and **Match** was disabled.
- **Measure codes in a PPK survey**: We have fixed an issue, introduced in Trimble Access version 2020.11, where the **Measure codes** function was not available during a GNSS PPK survey.
- **Integrated survey**: We have fixed an issue where during an integrated survey, the survey type shown in the status bar did not always update to the correct survey type when switching between active forms.
- **Application errors**: We have fixed several issues that caused application errors when using or closing the software. In particular:
  - When attempting to change the **Coordinates** field to **Ground (calculated scale factor)**, the software displayed the message "Cannot perform this operation. Please close other windows that are using the current

job."

- When editing a point name in the **Point manager** screen and then expanding or collapsing the row for that point.
- When working in a job with feature coded linework that included offset arcs, the software would stop working and the job could not be reopened.
- When adding a point from a linked CSV file to a site calibration if the point name had a trailing space.
- When attempting to continue a Broadcast RTCM survey after dismissing an error message when the software has disconnected from the receiver (such as when the receiver has powered down).

Mines

Enhancements

Tracklight or TIL now flashes when marking a point

For all auto stakeout routines, when a position is found within tolerance, the **Mark point** event sounds and:

- If the instrument has a tracklight, the laser pointer ***and*** the tracklight ***flash*** for the period defined in the **Mark delay** field.
- If the instrument is a Trimble SX12 scanning total station, the instrument changes to **STD** mode and the laser pointer ***stops flashing*** and moves to position itself at the EDM location. The laser pointer ***holds steady*** while the Target illumination light (TIL) flashes for the period defined in the **Mark delay** field. When the point is stored the instrument automatically returns to **TRK** mode and the laser pointer resumes flashing.

If a point within tolerance cannot be found, the point is skipped.

Retry skipped points

When using any auto stake method, if any points were skipped you can now tap the **Retry** softkey to retry auto staking the skipped points. Tap the **Tolerance** softkey to change the tolerance settings, if required.

Resolved issues

- **Auto stake point selection**: We have fixed an issue when defining laser lines, blast holes and pivot points where points that had been deleted were included in the point selection.

Roads

Resolved issues

- **Staking reference roads**: When staking out a reference road, station and offset values are now displayed when you select the reference road at the navigation screen. Previously they were displayed only when you selected the reference road at the selection screen. In addition, if you swap reference roads at the navigation screen, the reference road station and offset values are now correctly reported to the new road, rather than to the first

selected road.

- **LandXML string roads**: We have fixed the following issues:
  - Where points on a non centerline string where the string included curves, the positions could be incorrectly computed so that they no longer lay on the string.
  - Where a road that included strings that were not fully defined, the road could not be displayed in the map and therefore could not be edited, reviewed or staked.
  - The edited station interval was not being remembered after the software was shut down and restarted.
- **Application errors**: We have fixed an application error that sometimes occurred when tapping in the map when defining an RXL road from a LandXML cross section road.

Supported equipment

Trimble Access software version 2021.00 communicates best with the software and hardware products shown below.

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 64-bit controllers:

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

For more information on supported third-party tablets, go to www.trimble.com/support_trl.aspx?Nav=Collection-62098&pt=Trimble%20Access and click **Support Notes and Bulletins** to download the **Trimble Access 2019 on 64-bit Windows 10** bulletin.

Android devices

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

- Trimble TDC600 handheld
- Trimble TCU5 controller

For information on the features are not supported when running Trimble Access on an Android device, see the topic **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® 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.

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: R9s, NetR9 Geospatial, R7, R5
- Trimble SPS Series GNSS Smart Antennas: SPS585, SPS785, SPS985, SPS985L, SPS986
- Trimble SPS Series GNSS modular receivers: SPS85x
- Trimble Alloy GNSS Reference Receiver
- Spectra Geospatial receivers: SP60, SP80, SP85, 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**.*

Trimble office software

- Trimble Business Center
- Trimble Sync Manager

Installation information

To install Trimble Access 2021.00 onto a supported controller that has a ***perpetual license***, the controller must have a Trimble Access software maintenance agreement valid up to **1 February 2021**.

If you are using a Trimble Access ***subscription*** rather than a perpetual license, you can install Trimble Access 2021.00 onto any supported controller. To use the software, the License Administrator in your organization must assign a subscription to you using the Trimble License Manager webapp. On software startup, you must sign in using your Trimble ID to use the Trimble Access subscription on your controller. 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.

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 upgrade from an older controller to a new controller, you can relinquish your Trimble Access software license from an older controller that has current software maintenance 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.

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 www.trimble.com/installationmanager 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 www.trimble.com/support_trl.aspx?Nav=Collection-62098&pt=Trimble%20Access.

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

To download and install Trimble Installation Manager for Android, connect the controller to the internet, and then go to www.trimble.com/installationmanager 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 www.trimble.com/support_trl.aspx?Nav=Collection-62098&pt=Trimble%20Access.

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

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

We have made it easier for you to try out the latest version of Trimble Access. You can use Trimble Installation Manager to create a limited demonstration license and then install Trimble Access 2021.00 onto any Windows 10 computer. 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 only "connect" to the GNSS emulator and manual instruments.

NOTE – *You can only create a demonstration license for Trimble Access on devices that do not already have a Trimble Access license. Demonstration licenses are available only for Windows.*

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

Updating office software

When you upgrade to version 2021.00, you may also need to use Trimble Installation Manager to update your office software so that you can import your Trimble Access jobs. If you use:

- Trimble Business Center, you do not need to use Trimble Installation Manager as all required updates are handled using the **Check for updates** utility provided with Trimble Business Center.
- 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.

For more information, see the topic **Software setup** in the *Trimble Access Help*.

For more information

To view the *Trimble Access Help* on the controller, press the ☰ key on the keypad or tap ☰ in the Trimble Access software and then select **Help**.

To view the *Trimble Access Help Portal* from any computer, go to https://help.trimblegeospatial.com/TrimbleAccess/.

Trimble Access App availability

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 apps are supported when running Trimble Access on a supported Windows device.

Version 2020.xx of the Trimble Access software runs on the following 64-bit controllers:

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

Version 2018.xx and 2019.xx of the Trimble Access software can also run on 32-bit Windows 10 devices.

App	Contact	Available with Trimble Access version		
		2020.xx (64-bit)	2018.xx & 2019.xx (32-bit)	2017.xx
Roads	Trimble	✓	✓	✓
Tunnels	Trimble	✓	✓	✓
Mines	Trimble	✓	✓	✓
Land Seismic	Trimble	✓	✓	✓
Pipelines	Trimble	✓	✓	✓
Power Line	Trimble	✓	✓	✓
Katastermodul Deutschland	Trimble	✓	✓	✓

App	Contact	Available with Trimble Access version		
		2020.xx (64-bit)	2018.xx & 2019.xx (32-bit)	2017.xx
Monitoring	Trimble	✓	✓	✓
Athletics	Settop	✗	✗	✓
AutoResection	Allnav Ag	✓	✓	✓
BathySurvey	Geometius	✓	✓	✓
BestFit	Geoteam	✗	✗	✓
Buildings	Calvo Geospatial Consulting	✗	✗	✓
Highrise	Allterra Germany	✗	✗	✓
Inspector	Calvo Geospatial Consulting	✗	✗	✓
Level Me	Settop	✗	✓	✓
Locator	Allterra Germany	✗	✗	✓
QuickStation	Geoteam	✗	✓	✓
RM3D Output	Settop	✗	✗	✓
Utility Survey	Vivax Metrotech	✗	✗	✓

For more information about applications developed for the Trimble Access software suite, go to https://geospatial.trimble.com/access-apps.

Trimble Access apps supported on Android devices

The following Trimble apps are supported when running Trimble Access on a supported Android device. We are working on supporting more apps.

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

- Trimble TDC600 handheld
- Trimble TCU5 controller

Trimble Access Apps	Contact	Available with Trimble Access version	
		2020.10	2020.00
Roads	Trimble	✓	✓
Tunnels	Trimble	✓	✗
Mines	Trimble	✓	✗
Pipelines	Trimble	✓	✗
Monitoring	Trimble	✓	✗