



# Trimble Access

Version 2021.21

February 2022

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

## New hardware support

### Trimble R750 GNSS receiver

Trimble Access version 2021.21 supports the new Trimble R750 modular GNSS receiver.

The R750 modular GNSS receiver can be remotely operated as a base station for broadcasting RTK corrections or as a rover. Adaptable and scalable, choose the features you need now, with flexibility to add more functionality as your requirements change in the future.

For more information on the latest receivers, go to the [Trimble Geospatial GNSS Systems web page](#).

## Enhancements

### LandXML road enhancements

- Map loading times for files with a large number of alignments has been considerably improved.
- Support has been added for alignments with names containing previously invalid characters - \$"/<>?|. In earlier versions of the software an alignment containing one or more of these characters could not be staked out.

### Coordinate system database updates

The coordinate system database installed with Trimble Access includes the following enhancements:

- Added French Geoid Model RAF20.
- Added new Brazilian Geoid hgeoHNOR2020.
- Added new ICS83 LDP zones for Illinois.
- Added datum grid and zones for Saxony, Germany.
- Added support for Australian Vertical Working Surface (AVWS).
- Added support for the latest version of HTDP 3.4.0 in the United States.
- Added new kinematic datum and displacement model for India.
- Added kinematic datum and displacement model for Mexico.

## Resolved issues

- **Data storage issue:** We have fixed an issue where the automatic writing of data held in memory to disk every 3 seconds was, in rare cases, being suspended. The suspension by itself did not cause any data loss, as the data would still be saved when the job was closed, but if the process was suspended and the Trimble Access software was unexpectedly shut down, then some data loss could occur. The fix to the software ensures that the unexpected suspension of the automatic writing to disk cannot occur.

Because this issue was first reported with Trimble Access version 2021.10, ***all customers who have version 2021.10 or later installed are entitled to install version 2021.21.*** Trimble recommends upgrading at your earliest convenience.

- **Uploading Shapefiles to the cloud:** We have fixed an issue where uploading Shapefiles to the cloud uploaded only the .shp, .shx, and .dbx files for the job, and did not include Shapefiles for feature codes. Now all .shp, .shx, and .dbx files for the job and any feature codes used in the job are uploaded.
- **Import null values:** We have fixed an issue when importing an ASCII file where null values were erroneously shown as 0 values rather than ? values.
- **Photo attributes in Point Manager:** We have fixed an issue where the photo attribute field showed ? instead of the photo file name when using Point Manager to review a feature-coded point with a photo attribute.
- **Scanning with an S Series instrument using a TSC5 or TDC600 controller:** We have fixed an issue when scanning with a Trimble S Series total station using a TSC5 or TDC600 controller, where the scan points would appear in the correct position when viewed on the controller, but the .tsf file containing the scan points would not import correctly into Trimble Business Center. This issue was introduced in Trimble Access 2021.20
- **Radio connection to total station on Android:** Connecting to a total station using a radio is now more reliable on Android controllers.
- **SX10/SX12 plummet camera issue on Android:** We have fixed an issue where colors were not shown correctly in the live video feed of the Trimble SX10 or SX12 scanning total station plummet camera when using an Android controller. Snapshots captured using the plummet camera were not affected.
- **SX10/SX12 Wi-Fi connection on Android:** When using an Android controller and connected to a Trimble SX10 or SX12 scanning total station using Wi-Fi, you now only need to tap the **Connect on the Device to use with Trimble Access** message the first time that you connect to the instrument. The software does not present this message every time you connect.
- **GNSS RTK NTRIP mountpoint selection:** If the NTRIP caster uses a default coordinate location of 0,0 then the **Distance** field no longer shows a value. An issue was introduced in Trimble Access version 2021.20

where the software calculated the distance to the 0,0 coordinate, resulting in the **Distance** field showing a very large value.

- **Third-party NTRIP caster connection issue:** We have fixed an issue when connecting to third-party NTRIP casters that employ Basic authentication, where the **Establishing connection** progress bar would stop at 20% due to an unexpected response, or no response, from the caster.
- **Chinese subscription use:** To comply with Chinese data regulations concerning the upload of Chinese geospatial data to servers outside of China, Trimble Access now allows sign in with Trimble Identity for use of subscriptions, but prevents use of the Trimble Connect cloud platform if your IP address is determined to be in China.
- **Application errors:** We have fixed several issues that caused occasional application errors when using or closing the software. In particular:
  - When performing stakeout using a conventional instrument.
  - After capturing a panorama before starting a scan using a Trimble SX10 or SX12 scanning total station when running Trimble Access on an Android controller.
  - When performing dual prism offset measurements in the **Measure topo** form, and switching to another task that would allow you to enter another target height.
  - When starting to import a receiver file.
  - Attempting to apply a site calibration a second time, after importing a job from a jxl file which already contained a site calibration.
  - When loading a LandXML file with more than one **PlanFeatures** record in the map.
  - When configuring the EM120 radio after recently restarting the Trimble Access software.

## Roads

### New features

### Enhancements

#### LandXML road enhancements

- When staking a road using the menu where the road comprises only an horizontal alignment, or only a horizontal alignment and a vertical alignment, the road can now be used without first saving it as an RXL road. Previously these roads were treated as cross section roads which do require conversion to an RXL road before they could be used.

- When staking a road using the menu you can now filter the alignment list by name using the **Filter alignments by name match** field. This is very useful when you want to select the alignment by name and there are a large number of alignments in the file.
- Map loading times for files with a large number of alignments has been considerably improved.
- Support has been added for alignments with names containing previously invalid characters - \$"/<>?|. In earlier versions of the software an alignment containing one or more of these characters could not be staked out.

## Resolved issues

- **LandXML start and end stations:** We have fixed an issue where the start and end stations for LandXML alignments were not always visible in the map and therefore could not be selected in the map for stakeout.
- **Application errors:** We have fixed several issues that caused occasional application errors when using or closing the software. In particular:
  - When attempting to stake an additional point where the road has no templates assigned.

## Supported equipment

Trimble Access software version 2021.21 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 page](#) 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 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
- 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 2021.21 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 2021.21 onto a supported controller that has a *perpetual license*, the controller must have a Trimble Access Software Maintenance Agreement valid up to **1 June 2021**.

**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 2021.21 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 2021.21 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](https://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](https://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](https://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](https://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 2021.21 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 apps are supported when running this version of Trimble Access on a supported Windows device.

App	Contact
Roads	<a href="#">Trimble</a>
Tunnels	<a href="#">Trimble</a>
Mines	<a href="#">Trimble</a>
Land Seismic	<a href="#">Trimble</a>
Pipelines	<a href="#">Trimble</a>
Power Line	<a href="#">Trimble</a>
Katastermodul Deutschland	<a href="#">Trimble</a>
Monitoring	<a href="#">Trimble</a>
AutoResection	<a href="#">Allnav Ag</a>



App	Contact
BathySurvey	Geometius

Some apps, as well as additional apps, are supported for previous versions of Trimble Access. For more information, see the [Trimble Access App availability](#) webpage.

### 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. We are working on supporting more apps.

Trimble Access Apps	Contact
Roads	Trimble
Tunnels	Trimble
Mines	Trimble
Pipelines	Trimble
Power Line	Trimble
Katastermodul Deutschland	Trimble
Monitoring	Trimble
AutoResection	Allnav Ag
ALLNAV Rounds	ALLNAV

Some apps are supported for previous versions of Trimble Access. For more information, see the [Trimble Access App availability](#) webpage.

### Legal information

© 2022, Trimble Inc. All rights reserved. Trimble, the Globe and Triangle logo, Spectra, and Trimble RTX are trademarks of Trimble Inc. registered in the United States and in other countries. Access, VISION, and VX are trademarks of Trimble Inc. For a complete list of legal notices relating to this product, go to [help.trimblegeospatial.com/TrimbleAccess/](https://help.trimblegeospatial.com/TrimbleAccess/) and click the **Legal information** link at the bottom of the page.