



# Trimble Access

Version 2020.00

May 2020

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

## New features




### Trimble Access is now available on Android

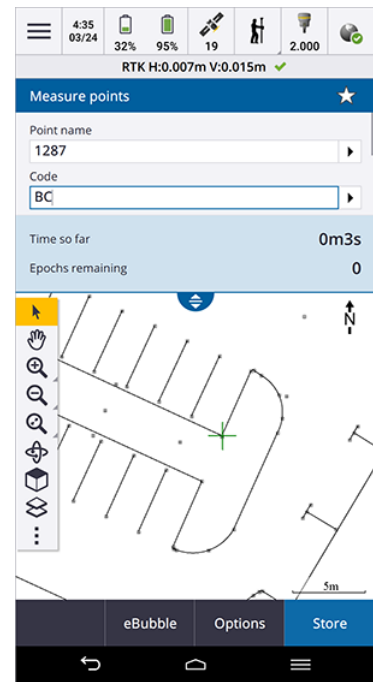
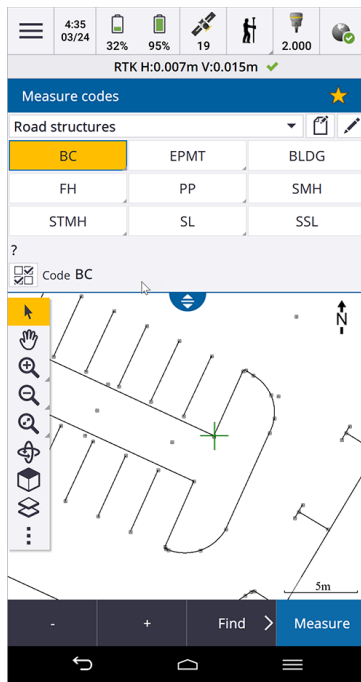
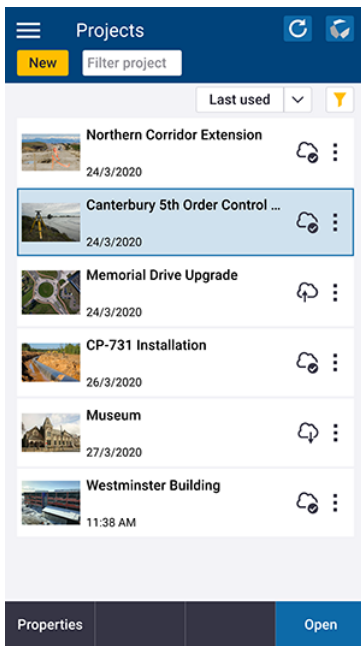
Trimble Access version 2020.00 supports the Trimble TDC600 handheld, an ultra-rugged smartphone running the Android™ 8.0 operating system. The TDC600 handheld features a high resolution 6-inch display, 4 GB RAM and 64 GB internal storage.

The Trimble Access Roads app is supported when running Trimble Access on the Trimble TDC600 handheld. We are working on supporting more apps.

Install Trimble Access to the TDC600 using Trimble Installation Manager for Android. For more information, see [Installation information](#).

Trimble Access supports using the TDC600 in portrait mode or landscape mode. There are small differences in the UI to accommodate portrait mode. These are:

- To view a form as well as the map, tap  and swipe down to view more of the form, or tap  and swipe up to view more of the map.
- To view more softkeys, tap  or swipe right to left along the row of softkeys.
- There is no **Esc** softkey when Trimble Access is running in portrait mode. To exit a screen without saving any changes, press the Back key on the device.




The TDC600 can connect to all supported GNSS receivers and most conventional instruments using Bluetooth. To perform a robotic survey you will need to connect the TDC600 to a TDL2.4 radio.

**NOTE** – The Trimble Access software offers the same features as when running on a Windows device, except for the following:

- The controller cannot connect to the Trimble SX10 scanning total station or Spectra Geospatial total stations.
- **SX10 scan data** (.rcwx files) and **IFC files** are not supported.
- The map **Limit box** is not supported.
- The **GNSS emulator** and **Simulate controller** functions are not supported. For this reason, the **About** screen does not include the **Support** softkey.
- The Android operating system does not support an Internet network connection to an external modem or cellular phone that requires Bluetooth DUN (dial-up networking). Instead, create network connections using Wi-Fi or the internal cellular modem.

## Snap-to toolbar

The **Snap-to** toolbar provides a simple way to select locations on objects in the map by snapping onto a specific point, even if no point exists. For example, you can use the **Snap-to** toolbar to accurately select the end point of a line or polyline or the center of an arc from linework in a map file, such as an IFC or DXF file.

To display the toolbar, tap  on the map toolbar and then select **Snap-to toolbar**. The following **Snap-to** tools are available: **Snap to midpoint**, **Snap to end**, **Snap to intersection**, **Snap to PI of arc**, **Snap to center**, and **Snap to nearest**.


Select the required tool from the **Snap-to** toolbar and then select the line, arc, or polyline in the map to "snap" to the appropriate location on the selected item. If a point does not already exist at the selected location, Trimble Access calculates a point. You can use calculated points like any other point, for example to stake out or to perform other Cogo functions. To be able to reuse a calculated point in the future, tap and hold in the map and select **Create point** to create a point from the calculated point and store it to the job.

The **Snap-to** toolbar is only available when you are using General Survey.

For more information, see the topic **Snap-to toolbar** in the [Trimble Access Help](#).

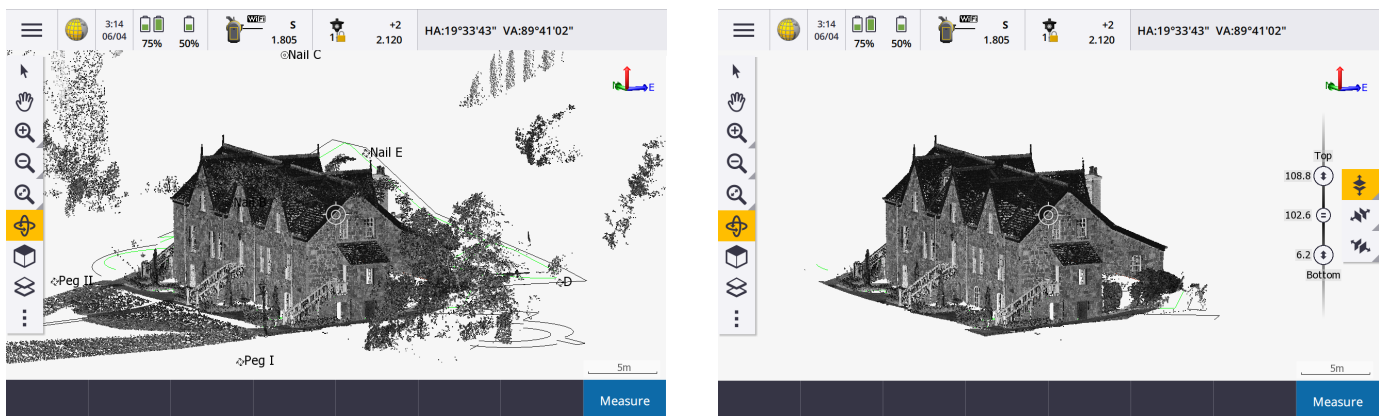
## Limit box

The **Limit box** enables you to exclude data in the map to view more clearly the area you are interested in. The **Limit box** is especially useful when viewing IFC files or point clouds, where you can exclude parts of the model or point cloud so that you can view inside the model or point cloud.

To display the **Limit box** tools, tap  on the map toolbar and then select **Limit box**. The **Limit box** toolbar appears to the right of the map. You can set the size of the **Limit box** using the vertical, side, or front/back sliders, or by entering limit values.

To align the limit box sliders with the orientation of the scan data or IFC model, set the **Reference azimuth** for the job in the **Cogo settings** screen.

The following images show viewing an IFC file without the **Limit box** (left) and with the **Limit box** enabled (right):



For more information, see the topic **Limit box** in the [Trimble Access Help](#).

## Polylines support


Polylines can now be stored in the Trimble Access job database. To enable this, we have replaced the **Key in alignment** function with **Key in polyline**, and we have added new **Stakeout polyline** functions.

To key in a polyline, select points in the map and then from the tap and hold menu select **Key in polyline**, or tap  and select **Key in / Polylines**.

You can stake a polyline from the **Stakeout** menu or from the map. Trimble Access provides the same stakeout methods for a polyline as for a line: **To the polyline**, **Station on the polyline**, **Station/offset from polyline**, **Slope**

**from polyline**, **Station/skew offset from polyline**, and a new method **Distance along polyline**. The new **Distance along polyline** method enables staking of the **slope** distance along the line rather than the **horizontal** distance. Staking the distance along a polyline is useful for staking structures such as conveyor belts and also enables positions along a vertical polyline to be staked. When selecting a polyline to stake out from the map, tap near the end of the polyline that you want to designate as the start. If required, tap and hold in the map and select **Reverse polyline direction** to reverse the polyline.

For more information, see the topics **To key in a polyline** and **To stake out a polyline** in the [Trimble Access Help](#).

**NOTE** – You can still stake out alignments that have been created using Trimble Access Roads or Trimble Business Center software, or third-party design packages. To stake out an alignment, select the alignment from the map and select **Stakeout**, or tap  and select **Stakeout / Alignments** and then select the alignment file. See the topic **To stake out an alignment** in the [Trimble Access Help](#).

## Staking the distance along a line and staking vertical lines

You can now stake the **slope** distance along a line using the **Distance along line** stakeout method. Traditional line staking methods typically use stationing or chainage which are always measured on the **horizontal**. Staking the distance along a line also enables positions along a vertical line to be staked.

For more information, see the topic **To stake out a line** in the [Trimble Access Help](#).

## Measuring points using independent subsets of tracked satellites

In RTK surveys, you can now measure points with independent subsets of the currently tracked GNSS satellite constellation. This allows for consecutive measurements to be independent of each other, without having to revisit the point after a significant period of time to ensure the constellation has changed. The **SV subset** function divides all tracked SVs into two subsets with an even spread throughout the sky, and can be used to make an occupation independent without having to return at another time. The **SV subset** function is available from the **Satellites** screen or the **RTK Initialization** screen.

For more information, see the topic **Satellites** in the [Trimble Access Help](#).


## Precision display

Trimble Access now enables you to choose the confidence level for the display of GNSS precision estimates. In previous versions this was always DRMS for horizontal precision and 1 sigma for vertical precision. You can now choose from 1 sigma horizontal and vertical, DRMS (which sets DRMS for horizontal and 1 sigma for vertical), 95% horizontal and vertical, and 99% horizontal and vertical. To configure this setting, tap **Units** in the **Job properties** screen and select the required option from the **Precision display** field.

## Enhancements

### Job folders now supported

You can now create and store jobs in folders inside the project folder. This feature was supported in Trimble Access versions 2017.xx and earlier but was not continued in Trimble Access 2018.00 onward.



To create a folder on the controller, tap  in the **Jobs** screen or in the **New job** screen. The folder path is shown at the top of the **New job** screen. Folders created in Trimble Sync Manager are downloaded with the project. For Trimble Access to be able to use the job, the combined length of the project folder name and folder names must not exceed 100 characters. The name of the job is not included in the 100-character limit.

To move a job to a different folder, use the **Copy job** function in Trimble Access to copy the job and all linked files to the new folder and then delete the original job.

**NOTE** – To avoid data synchronization issues, do not move jobs downloaded from Trimble Connect to a different folder.

For more information, see the topic **Managing jobs** in the [Trimble Access Help](#).

### Edit Measure codes enhancements

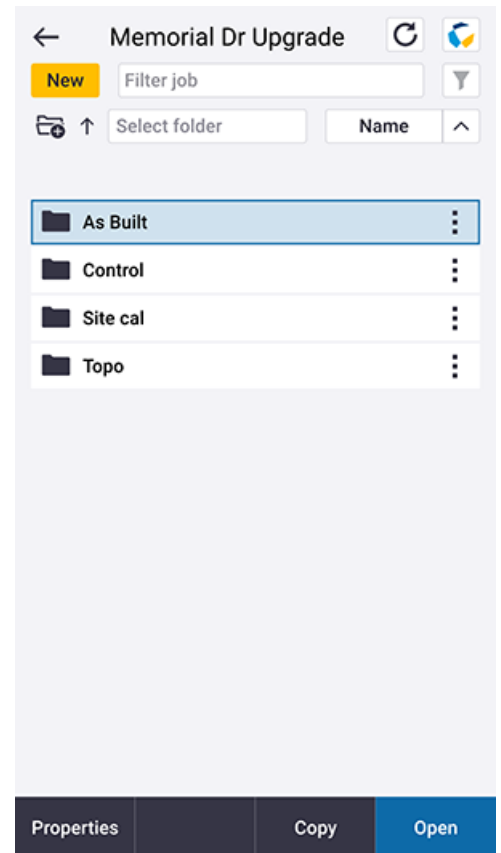
In Trimble Access 2020.00, **Measure codes** buttons are now set up using the new **Edit Measure codes** screen. The full screen **Edit Measure codes** screen separates the tasks of configuring the available code buttons from the task of carrying out measurements. Configuration tasks include adding or changing codes within a group, re-ordering codes, managing code groups, selecting the number of code buttons per group and setting up templates for picking up coding routines. To view the **Edit Measure codes** screen, tap  and select **Measure / Measure codes**, then in the **Measure codes** form, tap .

When you set up a template for a coding routine, if the template does not use all of the available buttons, you can now assign the unused buttons to additional codes. For example, in a 3x3 button layout you could use 7 buttons in the template and assign the additional 2 buttons in the group to codes that you commonly measure but that are not part of the template. In a road cross section survey you might use additional buttons to measure a nearby manhole or stormwater grate while surveying the road cross section.

For more information, see the topic **To assign codes to buttons** in the [Trimble Access Help](#).

### Configuring the default name of the next point

Trimble Access now supports using different point names for different types of points. In previous versions of the software, the default name of the next point was always incremented from the last used point name in the previously opened job.



When creating a new job you can configure whether the point names in the new job auto increment from the last used job, or start based on the values set in your job template. You can edit the next point name fields when creating the new job or at any time in an existing job.

To specify the next point name for different point types, enter the required point name in the appropriate field(s). To use the same point name thread for different types of points, for example Topo points and Rapid points, set the **Next point names** for both **Measure points** and **Rapid points** to the same name.

Available point types include measured points, stake out points, keyed in points, construction points, laser points, scanned points, lines, arcs and polylines.

When creating a new job:

- If you have selected **Last used job** as the template, the default values for the next point name fields will continue from the last used job.
- If you have selected a template, select one of these options to determine the default name of the next point:
  - **Continue from last job:** Populates the next point name fields with the next available point name from the **last used job**.
  - **Template:** Populates the next point name fields with the names specified in the template.

For more information, see the topic **Additional settings** in the [Trimble Access Help](#).


## Storing IFC, DXF, Shapefile and LandXML design attributes with as-staked points




When staking entities in an IFC, DXF, Shape, or LandXML file, you can now choose to save the design file attributes for the selected entity with the as-staked point. To do this, tap **Options** in the **Stake out** screen and set the **As-staked code** to **Design file attributes**.

## Map enhancements

- **Background image enhancements:**
  - Rotated georeferenced images are now supported.
  - Grayscale background images are now supported.

For supported image file types and associated world files, see the topic **Map background files** in the [Trimble Access Help](#).

- **Exploding polylines named in TBC:** For a polyline named in Trimble Business Center, each segment in the exploded polyline is now given a unique name, based on the polyline name and a segment number.
- **Displaying labels for DXF, Shape, and LandXML files:** You can now show or hide names, codes, and elevations for entities in DXF files, Shapefiles, and LandXML files separately from your label display settings for other background file types. To change these settings, tap  in the map toolbar, select **Settings** and select the appropriate **Display** check box(es) in the **Map data controls** group. The software shows these extra labels only when the file is set to selectable in the **Active map** screen. If the file is only set to visible, the extra labels are not shown.


- **Displaying station values:** You can now show or hide station names for LandXML roads. Previously this setting only applied to RXL alignments and RXL roads. To change this settings, tap  in the map toolbar, select **Settings** and select the **Display station values** check box in the **Map data controls** group. Previously this setting was in the **Display** group.
- **Hatching in DXF files:** Trimble Access now supports hatching in DXF files. To show hatched polygons, tap  in the map toolbar, select **Settings** and select the **Hatch polygons** check box. In addition, Trimble Access now supports RGB colors defined in the DXF file.
- **Unnecessary map redraws:** The map no longer redraws when you open the **Active map** screen and then exit without making any changes.
- **Lighting effects:** You can now control the lighting effects applied to surfaces displayed in the map. Lighting effects give more graphical depth to surfaces, but can introduce shading or shine effects in small areas on some surfaces. To disable lighting effects, tap  in the map toolbar, select **Settings** and clear the **Lighting effects** check box.
- **Selected entity highlighted during review:** When reviewing an arc, polyline, or feature coded linework from the map, the selected entity is now highlighted in the map. Previously only points or lines were highlighted.
- **Calculated resection positions:** The calculated position of a resection is now displayed with a yellow dot before storing a resection.
- **Copying points into the job:** When using points selected from map files (such as a DXF file) or from linked files (such as a CSV file) to key in points or to compute an inverse or distance, the selected points are now copied to the job only when you tap **Store**.
- **Check coordinates warning:** Now when you add a point or map file that is a long way from data already in the job then the software warns the new data is a long distance from existing job data and prompts you to make sure the coordinates are correct. Tap **Yes** to continue, or tap **Cancel** to cancel the operation.
- **Keying in points elevation:** When keying in points from the map, if the map is in **Plan** view (2D), the **Elevation** field is set to null (?), and a value is optional. If the map is in one of the 3D views, the value in the **Elevation** field is calculated with reference to the ground plane, surface or IFC file. You can edit this value if required.
- **Keying in multiple points:** When keying in multiple points from the map, you can now tap in the map to define the coordinates for each point. Previously this was only available for the first point. To do this, tap in the map when the current field in the **Key in point** form is the **Northing** or **Easting** field.

**NOTE** – The **Coordinate view** option must be set to **Grid** or **Grid (local)**. **Grid (local)** is available only when the **Advanced geodetic** option is enabled.

## IFC file enhancements

Trimble Access 2020.00 includes the following enhancements for IFC files:

- You can now create points from selected vertices in the IFC file and save the points to the job. To do this, tap and hold in the map and select **Create point**.
- You can now select curved edges (polyedges), such as the rim of a cylinder, which can then be staked as a polyline.

- You can now review attribute information for vertices, edges, and surfaces in an IFC file in Trimble Access. To do this, select the entities in the map and then tap **Review**. If you selected more than one entity, select it from the list and tap **Details**.
- Trimble Access can now compute the center line of pipes and ducting in an IFC model. To do this, select the pipe and then tap and hold in the map and select **Compute centerline**.
- Data from IFC models can now be shown in the **Video** screen when the controller is connected to a Trimble SX10 scanning total station. To enable the display of IFC files, in the **Video** screen tap  and then select **Settings**. In the **IFC options** group, enable the **Overlay on video** switch.
- Selected entities are no longer lost when the selectability of other layers in the file are changed. Note that if the layer a selected entity is in is made non-selectable then the selection is lost.
- Improved selection and display of surfaces. In particular:
  - The selected surface is now displayed as a custom blue color instead of cyan to provide better contrast when the original material color is close to cyan.
  - The selected surface remains bright even when it occupies a dimly-lit portion of the model.
  - The selected surface is opaque even when on transparent parts of the model.
  - You can now deselect a surface by tapping it.

For more information, see the topic **BIM and IFC models** in the [Trimble Access Help](#).

## Reporting Measure to surface data

Measure to surface data is now exported and displayed in the Survey Report.

## Improved surface display controls

The surface display controls for a road are now separate to those for a surface in a TTM, DXF or LandXML file. The display options for all surfaces are now selectable from a drop down list. Select the new **Outline** option to display a line around the outside edge of the surface with no shading.



For TTM, DXF or LandXML surfaces the options are:

- Color gradient
- Shaded
- Triangles
- Color gradient + triangles
- Outline

## CAD toolbar enhancements

Trimble Access 2020.00 includes the following enhancements to the CAD toolbar that was introduced in version 2019.00:



- To display the CAD toolbar, tap  on the map toolbar and then select **CAD toolbar**. You can no longer display or hide the CAD toolbar from the map **Settings** screen or from the map tap and hold menu.
- The software now filters the list of available feature codes to show only line feature codes defined in the feature library when you tap the **Start join sequence** button  in Drawing mode, or when you tap a control code button when no feature code is entered in the **Code** field in the **Measure points** or **Measure topo** form. Previously all feature codes in the feature library were listed.
- In Drawing mode the software now warns if there is no relevant control code defined in the feature library when you tap the CAD toolbar button, rather than when you attempt to draw the object. This is consistent with when warnings are given in Measure mode.

### Reference azimuth job property

You can now specify a reference azimuth for a job. The reference azimuth can be used to align the job with, for example, a building footprint. The reference azimuth is specified as a property of the job in the **Cogo settings** screen.

You can specify or change the reference azimuth for the job in the **Map settings** screen. 3D map views (Top, Front, Back, Left, Right) are always oriented to the **Reference azimuth**. The **Reference azimuth** is also used by the map **Limit box** to align the Limit box sliders with map data. The plan view in the map is oriented to North by default, but you can choose to orient it to the **Reference azimuth** if required.

When staking a point in a GNSS survey, you can also edit the **Reference azimuth** when you select **Relative to azimuth** from the **Stake** field in the **Options** screen.

For more information, see the topic **Cogo settings** in the [Trimble Access Help](#).

### Selected items now shown in Stake out items list

When you select multiple items in the map and tap **Stakeout**, the software now adds all of the selected items to the **Stake out items** list, including points, lines, arcs, polylines and alignments. Select each item in turn from the **Stake out items** list and stake it out before returning to the **Stake out items** list. Previously the **Stake out items** list was named the **Stake out point** list and was shown only when multiple points were selected. To clear the **Stake out items** list, tap **Rem all** or double-tap in the map.

For more information, see the topic **Stakeout** in the [Trimble Access Help](#).

### LandXML alignments now permanently stored as Trimble RXL alignments


LandXML alignments must be stored as a Trimble RXL alignment for use in the Trimble General Survey software. The software prompts you to do this when you select a LandXML alignment to key in or stake out.

Previously the LandXML alignment was only **temporarily** stored as an RXL alignment, which meant it had to be defined each time you selected the alignment. The new workflow means that the alignment is only converted once.

### Favorites and Functions enhancements

**Favorites** and **Functions** enable you to create shortcuts to software screens, map controls, or to enable/disable an instrument or receiver function. Trimble Access 2020.00 includes the following enhancements for Favorites and Functions:

- Set a function key to open the **Menu**.

Trimble TSC7 controllers have a **Menu** key, which activates the main menu in Trimble Access. For controllers that do not have a dedicated **Menu** key, we have added the **Menu** function to the **Assign special functions** list. To assign a function key shortcut to the **Menu**, tap  in the **Favorites** screen and tap **+** on the function key you want to use and select **Menu**.

**NOTE** – *If you are using a tablet that has programmable buttons instead of dedicated function keys, such as the Trimble T10 tablet, then you must configure the button as a function key.*



- You can now add the map **Settings** screen to your Favorites list by tapping the ☆ icon at the top of the **Settings** screen. Previously you could only assign the map **Settings** screen to a function key using the **Assign special functions** list.
- Set function keys to enable/disable **Autolock**, **FineLock** and **Long Range Finelock**.

You can now set separate function keys to enable/disable Autolock, FineLock and Long Range Finelock, and add separate shortcuts for each target lock method to the **Favorites** screen. Previously the shortcut was always named **Autolock**. To assign a target lock method to a function key, enable the required method and then tap the ☆ icon for the **Autolock**, **FineLock** or **Long Range Finelock** tile in the **Instrument functions** screen.

For more information, see the topic **Favorite screens and functions** in the [Trimble Access Help](#).

## Softkey enhancements

We have increased the number of softkeys available on TSC7 and tablet controllers from 5 to 6. This means that for most screens viewed in landscape mode there is no need for an additional row of softkeys. In most cases the position of softkeys remains the same as for previous versions of the software, except in the **Jobs** screen, where the **Properties** softkey has moved to the left. Note that when viewed in portrait mode, the softkeys consolidate so that no empty softkeys are shown.

Occasionally in landscape mode, and more commonly in portrait mode, the  icon appears in the softkey row to indicate there are more softkeys available. To view more softkeys, tap  or swipe right to left (or left to right) along the row of softkeys.

## Change of behavior when switching through all open screens

The map screen is no longer displayed when using **Ctrl + Tab** to move between open screens in the software, or when using **Ctrl + Shift + Tab** to move between open screens in reverse order. Note however that the **Return to** list in the **Favorites** screen still includes the map.

## Instrument functions screen for Trimble C3 and C5 total stations

When connected to a Trimble C3 or C5 total station, you can now view the **Instrument functions** screen in Trimble Access by tapping the instrument icon in the status bar. The **Instrument functions** screen provides fast, easy access to a range of instrument functions, including enabling/disabling the laser pointer, and changing EDM measurement modes.


## Auto detection of character encoding in CSV files

When opening linked CSV files or importing any of the predefined CSV file formats, Trimble Access now automatically detects if the file is using UTF-8 character encoding. If UTF-8 is not detected, Trimble Access assumes the data is using ASCII/Multibyte encoding.

When importing or exporting custom CSV files, encoding is set to UTF-8 by default. To change the encoding to a different format, edit the appropriate IXL and/or XSL file. For more information, refer to the **Creating Custom Import Definitions** PDF available from [www.trimble.com/support\\_trl.aspx?Nav=Collection-62098&pt=Trimble%20Access](http://www.trimble.com/support_trl.aspx?Nav=Collection-62098&pt=Trimble%20Access).

**NOTE** – Where possible, Trimble recommends standardizing on UTF-8 for your CSV files, because it can encode any character in Unicode. ASCII/Multibyte encoding is locale-specific and so may not encode all characters correctly.

## Scan for Bluetooth devices from within Trimble Access

You can now scan for and pair with Bluetooth devices from within the Trimble Access software. Tap  and select **Settings / Connections / Bluetooth**. Tap **Search**. The Trimble Access **Bluetooth search** screen shows a list of **Discovered devices**. Select the device to pair with and if prompted, enter the PIN. Once paired, the Trimble Access software prompts you to select the device type so that the software knows how to use the device.

In previous versions, Bluetooth pairing could only be done from the operating system. Once paired, you had to return to the Trimble Access **Bluetooth** screen and locate the paired device in the correct device type drop-down list.

## Global reference datum enhancements

Trimble Access 2020.00 shows improved global reference datum information, whereas previous versions of the software used the term WGS84 to refer to coordinates in a global reference frame.

The reasons for these software changes are to:

- Make it clearer which coordinate system positions are provided in.
- The use of the term **Global** is consistent with Trimble Business Center software.
- Recognize the evolution of reference frames for high precision measurements driven largely by advances in GNSS techniques.

The exact changes to the software are outlined below.

### Trimble Access now displays extended datum information

When the customer selects their coordinate system and zone in the **Select coordinate system** screen of the **Job properties**, the software will now show these fields:

- **Local datum**: The local datum for the selected coordinate system and zone. In previous versions of the software this field was named **Datum**.
- **Global reference datum**: The datum of RTK measurements, such as the reference frame of base stations including VRS.
- **Global reference epoch**: The epoch of realization of the global reference datum.

**NOTE** – If you perform an RTK survey in the job, you must make sure the selected real-time correction source is providing GNSS positions in the same datum as that specified in the **Global reference datum** field. This has always been true when selecting a real-time correction source so this change does not mean a change to your workflow.

### WGS84 coordinate view option renamed to Global

When selecting the **Coordinate view**, the **WGS84** and **ECEF (WGS84)** options have been renamed to **Global** and **ECEF (Global)** to better reflect what the software is showing. Selecting these options shows positions in the **Global reference datum** at the **Global reference epoch**.

**NOTE** – This change is simply renaming an existing option in the software. There is no change in software behavior.

### RTX data now transformed to the Global reference datum

RTX positions are always computed in the receiver as ITRF 2014 at the epoch of measurement.

In previous versions of Trimble Access, the tectonic plate model in the receiver was used to propagate RTX coordinates to a common epoch of ITRF 2008 at epoch 2005.0, which is how they were stored in the job. A site calibration and/or an RTX-RTK offset were required to transform these coordinates from ITRF 2008 at epoch 2005.0 into the local coordinate system of the job.

In Trimble Access 2020.00, RTX positions are stored in the job as ITRF 2014 at the epoch of measurement. The tectonic plate model in Trimble Access is used to propagate these coordinates to the global reference epoch for the job, and a datum transformation is applied to transform them into the global reference datum. This may remove the need for a site calibration and/or an RTX-RTK offset.

To use Trimble Access 2020.00 jobs containing RTX data in Trimble Business Center, you must use TBC version 5.30 or later.

**NOTE** – Older Trimble Access jobs with RTX data can be upgraded and used with Trimble Access 2020.00. On upgrade, the **Global reference datum** of the job is set to ITRF2008 at epoch 2005.0. If the job contains an RTX-RTK offset, that offset remains valid following the upgrade.

## GNSS constellation tracking enhancements

For GNSS RTK and RTX surveys, you can now change the signal tracking of entire constellations from the **Satellites** screen. Tap the satellite icon in the status bar to open the **Satellites** screen and then tap **Options** and select or clear the check boxes in the **GNSS Signal Tracking** group box. The available constellation control check boxes depend on the settings in the current survey style.

### Galileo signal tracking enabled by default

For GNSS surveys, Galileo satellite signal tracking is now enabled by default. To disable tracking of Galileo satellites, clear the **Galileo** check box in the **GNSS Signal Tracking** group box in the **Rover options** or **Base options** page of the survey style.

### RTK initialization status bar messages

When connected to a Trimble RTK receiver that has HD-GNSS or ProPoint™ GNSS technology, Trimble Access no longer shows **RTK initialized** and **RTK not initialized** messages in the status bar or in the **Review job** screen. This

allows for the current precision values to remain clearly visible on the status bar. RTK initialization records remain embedded in the job file and can be viewed in JobXML export if needed.

## Inclined plane adjustments

When performing a site calibration or a Helmert transformation, Trimble Access now fits an inclined plane only if you have three or more points. If you have one or two points then the software calculates just the constant adjustment. Previous versions of Trimble Access would fit an inclined plane to two or more points, and calculate just the constant adjustment if you had a single point.

## Show passwords

When typing in a password, you can now tap  to see the characters you are entering.

## Controller simulator

If you are running the Trimble Access software on a desktop computer or laptop, you can use the **Simulate controller** function to simulate running the software on a supported controller. This feature allows you to demonstrate the software or capture screenshots of the software with your preferred controller layout for inclusion in training materials. It can be used in conjunction with the **GNSS emulator** function to simulate a connection to a GNSS receiver.

For more information, see the topic **To simulate a controller** in the [Trimble Access Help](#).

## Coordinate system database updates

- Added the ONGD17 datum and UTM zones for **Oman**.
- Added the RD2018 datum grid and geoid model for **Netherlands**.
- Added the referenced geoid model Austrian Geoid 2009 for **Austria**.
- Added the S-JTSK Krovak zone for **Czech Republic**.
- Added UTM coordinate system zones for **Tanzania**.
- Renamed **Brunei** systems into groups.
- Added the DHDN shift grid datum and a new GK (NTV2) zone group and coordinate system zones referencing this datum for **Germany**.
- Added the GDM2000 datum definition and a new GDM2000 zone group and coordinate system zones referencing this datum for **Malaysia**.
- Added the ISN93, ISN2004 and ISN2016 datum definitions and geoid models for **Iceland**. Added the ISN2016 coordinate system zone to the ISN zone group and updated datum references on the existing zones in this group.
- Added the MAGNA-SIRGAS datum definition for **Colombia** and then used this as the reference datum for the Colombia MAGNA-SIRGAS coordinate system zones.
- Added geoid model references for the HS2 project zones (HS2GM02 and HS2GM15) for the **United Kingdom**.

## New hardware support

### Trimble TDC600 handheld

Trimble Access version 2020.00 supports the Trimble TDC600 handheld, an ultra-rugged smartphone running the Android 8.0 operating system. The TDC600 handheld features a high resolution 6-inch display, 4 GB RAM and 64 GB internal storage.

### Spectra Geospatial SP85 GNSS receiver


Trimble Access version 2020.00 supports the Spectra Geospatial SP85 GNSS receiver.

### Bosch GLM 50c laser rangefinder support



Trimble Access version 2020.00 supports the Bosch GLM 50c laser rangefinder.

For more information, see the topic **Laser rangefinders** in the [Trimble Access Help](#).

## Resolved issues

- **LevelMe Now Available with Trimble Access 2020.00:** We have fixed an issue in Trimble Access that means LevelMe is now available for the latest release of Trimble Access. Previously LevelMe was only available for version 2017.xx and 2018.xx.
- **Linked file links now stored relative to the job:** The path to linked files is now stored as a relative path to the job file. In previous versions the full path to the linked file was stored, which meant that the file could not always be found if the job was copied from one project to another or to a different controller.
- **Uploading changes in local jobs:** If you change the status of a local job in a cloud project to **Work in progress** or **Fieldwork complete** the changes in the job are now uploaded to the cloud. In earlier versions changes were uploaded only if you had previously manually uploaded the job to the cloud (by tapping  and selecting **Upload**).
- **Sign in to Trimble Connect:** We have fixed an issue where Trimble Access did not always remember your Trimble ID sign in details, despite the **Stay signed in** check box being selected.
- **Expired Trimble Connect sessions:** Files updated in the cloud were not always appearing for download if the current Trimble Connect session had expired. Now if the current session expires you need to sign in again.
- **Downloading project reference files from Trimble Connect:** Project reference files, for example a geoid file or feature code library, that are updated in Trimble Sync Manager are now shown as available for download. When downloading a project reference file that is used by another project, you can now resolve any file conflict in the **Download** screen by tapping on the file and selecting **Overwrite local file** to update the file on the controller, or **Keep local file** to retain your local copy of the file.
- **Downloading duplicate files from Trimble Connect:** If you are downloading files with a job that are exactly the same as the files downloaded with another job in the same project, the software no longer shows a file conflict message. If attached files are different to previously downloaded files, you can resolve the conflict in the

**Download** screen by tapping on the file and selecting **Overwrite local file** to update the file on the controller, or **Keep local file** to retain your local copy of the file.

- **Map:** We have fixed several issues with the map, where:
  - The **Cloud color** option was not available in the **Color mode** field in the **Point cloud** group box in the **Map display settings** screen.
  - TTM files that contained triangles with duplicate vertices sometimes showed a constant incorrect elevation value in parts of the file.
  - Models in IFC files were sometimes shown with jagged edges.
  - DXF entities defined in paper space but not model space were not shown if the Viewport was set to **Not active**.
  - Named polylines in a DXF file now have unique identifiers when added to the map.
- **Valid LandXML files:** We have fixed an issue where if the LandXML file had unexpected records at the start of the file, the software would show the error message **There are no points, lines, alignments or TIN surfaces to display**. This issue was inadvertently created in Trimble Access 2018.00.
- **CAD toolbar:** We have fixed several issues with the CAD toolbar, where:
  - The CAD toolbar now returns to the default state (with no buttons selected) when you open a different job.
  - The map sometimes no longer showed a zoom box when using the **Zoom in**  or **Zoom out**  tool to zoom to a selected area if the CAD toolbar had been previously used in Drawing mode.
- **Backspace press in Code field:** We have fixed these issues where, when Auto fill from the feature library was enabled, pressing the Backspace key once in the **Code** field correctly cleared the last value in the field but pressing the Backspace key a second time moved the cursor to the start of the code field, instead of clearing the next code.
- **Measure codes:** We have fixed an issue where if you appended an additional code to a point then measured another point using a different Measure codes button, the appended code from the previous point was incorrectly appended to the code of the subsequent point.
- **Sorting lists by point names:** When you sort points by point name, such as in the **Stakeout** or **Review** screen, points are now listed in the correct numerical order.
- **Missing round numbers:** We have fixed an issue where, when reviewing the residuals after measuring rounds or performing a resection, the round numbers were not shown.
- **Adding abandoned targets:** We have fixed an issue when adding a target, where if you tapped **Esc** and then confirmed you wanted to discard your changes, the target was still added.
- **Reconnecting to instrument:** We have fixed an issue where Trimble Access did not reconnect to an instrument if you had previously canceled the connection attempt when the connection was initiated by selecting the survey style.
- **Copied station setup:** We have fixed an issue where if you copied the previous station setup into a new job all of the observations were copied in correctly but the mean turn angles were not shown and all observations were shown as taken on face 2, even when taken on face 1.

- **Check backsight point:** We have fixed an issue where taking a check measurement to a backsight point updated the feature code for the backsight point with the feature code for the last measured point.
- **Site calibration changing the map filter:** We have fixed an issue where after performing a site calibration, the map display reverted to an earlier map filter setting rather than the most recent filter applied.
- **SX10 instrument record angular accuracy:** We have fixed an issue where the **Horizontal Angle Precision** and **Vertical Angle Precision** values for the Trimble SX10 scanning total station instrument record in the job were incorrect. The issue only affected the instrument record. The precision values stored with each observation have always been correct.
- **S Series angular accuracy rounding:** When storing angle accuracy values for Trimble S Series instruments, values are now stored to the nearest 0.5 seconds. Previously these values were rounded to the closest whole second.
- **Long Range FineLock icon incorrectly shown:** We have fixed an issue where if you were connected to a Trimble S Series instrument with Long Range FineLock enabled and then connected to a Trimble SX10 scanning total station, the Long Range Finelock icon was still shown in the status bar.
- **AT360 firmware version incorrectly reported:** We have fixed an occasional issue when connecting to an AT360 active target where Trimble Access fails to connect, incorrectly reports the AT360 target firmware version and requires the Bluetooth connection to be reconfigured.
- **T04 GNSS data files now shown as locked during logging:** Trimble R10-2 receiver data (.t04) files are now shown as locked when GNSS data logging is in progress. The file cannot be imported or deleted when a PPK survey is running.
- **Spectra Geospatial base receivers:** When starting a Spectra Geospatial base receiver, you can now use GPS L5 with ATOM Standard, Compact, and Super Compact broadcast formats.
- **Fast fix no longer uses feature codes:** When measuring points using Fast fix when the **Measure codes** form is open, the Fast fix points no longer have the previously used line feature code applied.
- **GPS search in RTX integrated survey:** When using GPS search during an integrated survey that uses RTX, the instrument now turns to the GPS position before starting to search, instead of starting the search where the instrument is currently pointing.
- **GNSS tilt sensor calibration age limit:** When you edit the value in the **Calibration age limit** field of the **GNSS tilt sensor options** screen, the entered value is now retained, instead of resetting almost immediately to 30d0h.
- **Keypad navigation of the software:** We have fixed several issues when using arrow keys to move through fields in some forms and using the spacebar key to select items.
- **Media file changes in Review job screen:** When adding or editing media files for a point, the changes are now shown correctly in the **Review job** screen. Previously, changes were shown only when the **Review job** screen was reopened.
- **Job properties notes export:** When exporting a job to a JobXML (JXL) file, the contents of the **Job properties Notes** field are now exported to the JXL file and are available for including in reports via stylesheets.



- **Application errors:** We have fixed several issues that caused application errors when using or closing the software. In particular:
  - Trimble Access can now open large jobs saved from version 2017.xx and later. Previous versions of the software would fail to convert very large jobs.
  - You will no longer see a **Missing geoid file** message when you open a Trimble Access job that was exported from Trimble Business Center.
  - You will no longer see an application error when deleting the two remaining points in a job using **Point manager** when the **Display deleted points** check box is not selected in the **Point manager options** screen.
  - You will no longer see an application error when using **Point manager** and you tap a column heading to sort points when some points are nested below others, for example when the job contains Measure rounds data.
  - You will no longer see an application error when you edit the code of a point you added to the selected items in the map after you opened the **Review** screen.
  - You will no longer see an application error when you include a vertical line in an area calculation.
  - We have fixed an application error that occurred when **Yes** was selected in response to the warning message "The broadcast coordinate system has changed. Continue?". This message appears at survey start when the epoch of the RTCM Transformation being received from the network RTK server has changed since starting the last survey using that transformation.
  - You will no longer see an occasional application error when changing the job properties while performing stakeout during a conventional survey.
  - You will no longer see an occasional application error when attempting to connect to an S series or VX total station.
  - You will no longer see an occasional application error when attempting to reconnect to a Trimble SX10 scanning total station after the previous connection was interrupted while a scan was in progress.
  - You will no longer see an occasional application error when waking up a controller connected to a power source and running Trimble Access.

## Roads

### New features

#### Support for LandXML string roads

LandXML string roads are now supported in the Trimble Access Roads software.

LandXML string roads can be defined by an alignment with break lines or by an alignment with irregular lines. Files of this type can be exported by various software packages, including:

- Trimble Business Center (break lines only)
- Tekla Civil (break lines or irregular lines)

- Trimble Novapoint (break lines or irregular lines)
- Various software packages from third-party vendors such as Leica and Carlson

LandXML string roads are supported in their native LandXML format, unlike LandXML cross section roads, which the Trimble Roads software converts to Trimble RXL roads before you can use them.

LandXML string roads are very similar to GENIO string roads but offer a number of advantages:

- There is no need to select the strings to define the road as the road definition is complete and ready for review and stakeout.
- String names are not limited to 4 characters.
- LandXML files can include more than one surface.
- Support for LandXML string files is better when exporting from Trimble Business Center, and when displaying files or staking with Trimble Access.

While the traditional LandXML string format does not include support for side slopes, Trimble has extended the LandXML format to include support for side slopes. LandXML string files exported from Trimble Business Center will have the side slopes defined. Side slopes can also be defined or modified in the Trimble Access Roads software. You can also edit the road definition to exclude the centerline, if required.

To ensure Trimble Business Center exports LandXML string roads, you must have version 5.30 or later. In the **Export** pane, select **Corridor** as the export type and select the **Trimble Access Roads strings** file format. Set the **Output file type** field to **LandXML**. If you usually export Trimble RXL and GENIO formats from Trimble Business Center and these formats are working great for you then you can keep using these formats. However, if you are dealing with more complicated road designs, the LandXML string format could be a better solution for you.

LandXML string roads currently have some minor limitations when compared to Trimble RXL and GENIO roads. Trimble RXL roads support full editing of the road as well as additional features such as additional points and strings, and GENIO supports new string creation. However if these are not features you use, LandXML string roads may be a better solution for you.

## Enhancements

### LandXML cross section roads now permanently stored as Trimble RXL roads

LandXML cross section roads must be stored as Trimble RXL roads for use in the Trimble Access Roads software. The software now prompts you to do this when you select a LandXML road to define or stakeout.

Previously the LandXML road was only **temporarily** stored as an RXL file, which meant it had to be defined each time you selected the road. The new workflow means that the road is only converted once, and all of the editing tools for Trimble RXL roads are available for the road.

### Improved surface display controls

The surface display controls for a road are now separate to those for a surface in a TTM, DXF or LandXML file. The display options for all surfaces are now selectable from a drop down list. Select the new **Outline** option to display a line around the outside edge of the surface with no shading.

For a road the options are:

- Color gradient
- Shaded
- Outline

For all other surfaces the options are:

- Color gradient
- Shaded
- Triangles
- Color gradient + triangles
- Outline

## Improved display of road and alignments in the map

The display of roads and alignments containing arcs with small radii has been improved. Previously, depending on the radii, the arcs could appear as a series of straight lines.

## Reviewing a string

When reviewing any type of road, you can now select a string to review. This is useful for viewing the extent of a string that does not start at the start station and/or end at the end station. Select the string from the map or tap **String** and select it from the list. The selected string is highlighted blue in the map.

## Resolved issues

- **Cross slope and subgrade definition:** We have resolved an issue when staking a Trimble road, where the cross slope and/or subgrade definition was lost when you selected the next station to stake after measuring and storing a point, or when you exited the navigation screen and then tapped **Start**.
- **Unable to display nearest string in selection screen:** We have resolved an issue where the software reported that the nearest string could not be found when you selected the **Nearest string** option from the cross section view during a conventional survey. This was a display issue only at the selection screen. Tapping **Start** would correctly stake the nearest string.
- **Incorrect display of a construction offset:** We have resolved an issue where a horizontal construction offset applied at the slope of the previous line was displayed incorrectly. This was an issue only for a fill side slope for a Trimble road and only at the selection screen. The fill side slope was shown correctly at the navigation screen.
- **Software deselecting the subgrade point:** We have resolved an issue where the selected subgrade point was deselected when you defined a subgrade, switched to the plan view and then returned to the cross section view. This occurred only when the selected subgrade point was on a side slope or at the horizontal alignment.
- **Unusual linework when deselecting the subgrade position:** When deselecting a subgrade position the subgrade definition is cleared and the position defaults to the horizontal alignment. Previously the subgrade definition remained but was displayed incorrectly, resulting in some unusual linework.

- **Viewing fixed scale cross sections:** We have resolved an intermittent issue when selecting a cross section using the station list where the cross section did not display. This happened only when the cross section view was in **Fixed scale** mode when reviewing a Trimble or GENIO road or when staking a Trimble road. If you changed from **Fixed scale** to **Free scale** and tapped **Zoom extents** the cross section would display.
- **Incorrect icon in cross section view:** The orbit point icon no longer appears in the cross section view when reviewing a road. You cannot orbit a road in the cross section view.
- **Cross section view availability:** We have resolved an issue where the software sometimes incorrectly showed a message saying that the cross section view was unavailable.
- **LandXML alignment selection:** We have resolved an issue where if you selected an alignment from the map in a LandXML file containing more than one alignment, the first alignment in the file was always selected.
- **Application errors:** We have fixed several issues that caused occasional application errors when using or closing the software. In particular:
  - You will no longer see an occasional application error when adding a vertical alignment element after previously deleting all existing elements.

## Pipelines

### Enhancements

#### Infield calculator to calculate new mother joint length

If you locate a PUP joint but cannot measure the mother joint, you can now use the infield calculator to calculate the mother joint length and create a PUP with the correct joint length. To do this, in the **Check tally** screen enter the joint ID to retrieve the mother joint details. Tap ► next to the **Length** field and select **Calculator**. The current mother joint length is automatically entered into the calculator. With the calculator in RPN mode (tap  and select **RPN**), enter the PUP length and tap – (minus). Tap **Accept**. The value in the **Length** field is updated with the new value. Tap **Next** to save the changes and when prompted create the PUP joint.

### Resolved issues

- **Joint ID not displayed in Joint mapping screen:** We have fixed an issue where if you entered an existing joint ID into the first field of the **Joint mapping** screen, the joint map details were displayed but the **Joint ID** field was left blank.
- **Photos as additional weld fields:** You can now easily take and link a photo during weld mapping and have the photo name pre-populate the photo attribute field when surveying the weld. In previous versions of the software, photo attribute fields were not pre-populated like other attribute fields.
- **Deleting loose ends:** During weld mapping if Pipelines detects that one of the joint IDs was previously used as a loose end, the software now offers to delete the loose end. In previous versions, Pipelines only warned that the joint ID had been used as a loose end and you manually had to find and delete it.

- **Additional fields for bends:** We have fixed an issue where the additional field values for bend map records were not read from the .map file as expected.
- **Map not redrawing correctly:** We have fixed an issue where if you pressed **Ctrl + Z** to return to the previous map view after zooming, the map did not always redraw correctly.

## Tunnels

### Resolved issues

- **Prism constant incorrectly set to 0:** We have fixed an issue when measuring with the **Apply the target height perpendicular to the profile** option enabled, where the software created a zero height target record but also incorrectly changed the prism constant value to zero.

## Mines

### Resolved issues

**Application errors:** An application error no longer occurs when:

- An auto staked line is selected in the map and deleted.
- The instrument goes off level when displaying the auto stake results.

## Supported equipment

Trimble Access software version 2020.00 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 or T10 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](http://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

## Supported conventional instruments

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

- Trimble SX10 scanning total station
- 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: 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 –

- *Trimble Access 2019.xx and later does not support the SPS986 tilt compensation mode. Starting a survey will switch off the tilt compensation in the SPS986 receiver.*
- *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 2020.00 onto a supported controller you must have a Trimble Access software maintenance agreement valid up to **1 May 2020**.


For list of supported controllers, see [Supported equipment](#).


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](http://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](http://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](http://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](http://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 2020.00 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.

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

**TIP** – Demonstration licenses are available only for Windows. To view how the software would look on a TDC600 controller, use the Simulate controller function in Trimble Access and select TDC600. For more information, see the topic **To simulate a controller** in the [Trimble Access Help](#).

## Updating office software

When you upgrade to version 2020.00, 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.



## Trimble 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.

If you participate, the TSIP software is installed on your controller. Each time you start the Trimble Access software, the Trimble Access log file is automatically sent to the Trimble server. The file includes data on what the Trimble equipment is being used for, what software functions are popular in specific geographical regions, and how often problems occur in Trimble products that Trimble can correct.

At any time, you can choose not to participate in the Trimble Solution Improvement Program by uninstalling the TSIP software. To do this, go to the Windows *Add or Remove programs* function on your controller and remove the TSIP software.

For more information, go to [www.trimble.com/survey/solution\\_improvement\\_program.aspx](http://www.trimble.com/survey/solution_improvement_program.aspx).

## 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/>.

### Legal information

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