Survey Technical Support Notes   August 2021

Trimble Access- Selecting Satellite Set

Overview: In Trimble Access version 2020 or higher, a feature was added to allow the user In RTK surveys, to 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.
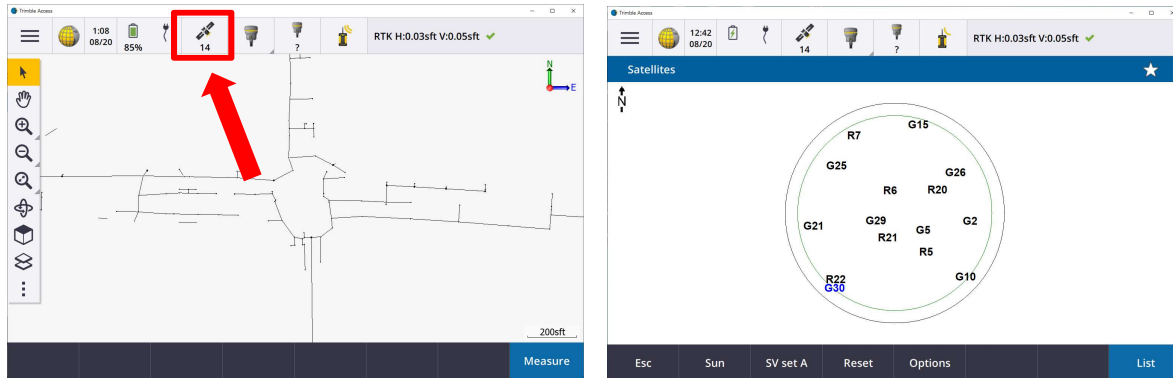
We recommend people build redundancy and independent checks into GNSS measurements when measuring important GNSS points. Typically that means measuring the point then either moving the rod off the point, breaking initialization, initializing away from the point to be collected and using the Observed control point method to insure there is enough time and enough epochs to check the initialization. Another method is to measure the point then come back in a different satellite constellation, wait at least 30 minutes, and measure the point again.

This new feature does both of these methods and more to speed up measurement windows and build in independent checks.

Procedure:

Users can select the SV subset from the **Satellite screen** or the **RTK initialization** *screen*

To open the Satellite screen, tap on the # of satellites icon on the top status bar

Tap the # of satellites icon on the status bar to bring up the **Satellite** screen
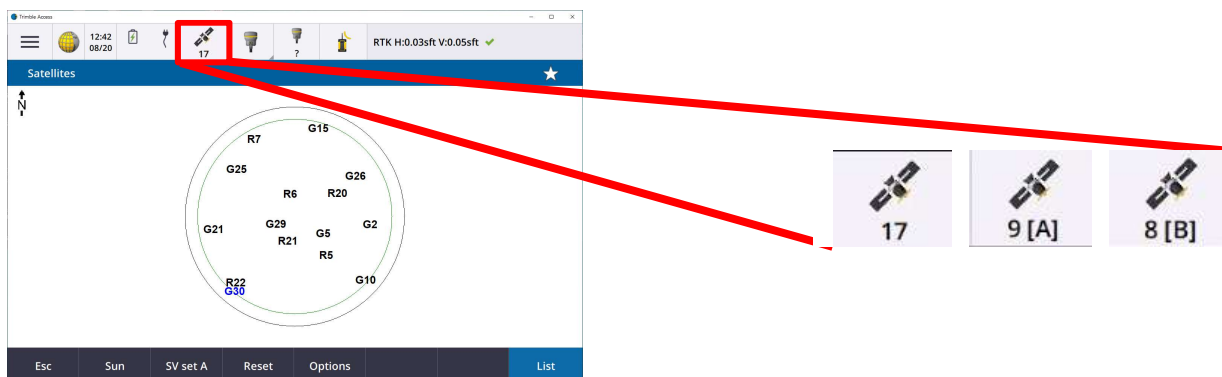Either the **LIST** or sky **PLOT** view work.

Use a softkey at the bottom of the screen to change to the **SV set A**.

- o Tap the screen softkey
- o Use the keyboard only, prss **Ctrl** button then the corresponding **keyboard number** of the desired softkey

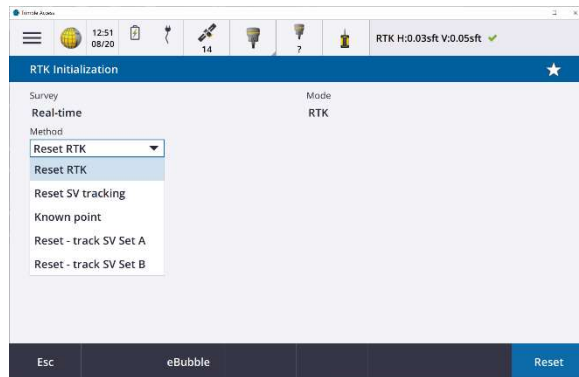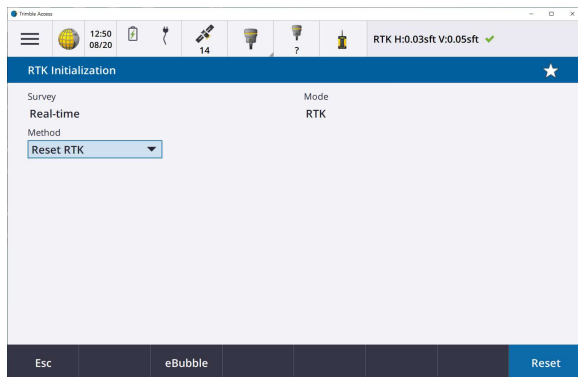If you see **SV set A**, tapping it will activate that subset.

The softkeys work as a toggle with three choices: **SV set A**, **SV set B** and **All**.
The softkey _**does not**_ reflect the currently active mode, it shows what subset it will change to.

The Satellite # on the Status bar show what is currently active satellite set selection.

Contact Seiler Instrument for details or questions regarding this Support Note
Web: www.seilergeo.com

Reset Initialization or Satellite subset

Another way to select or reset the Satellite subset is to use the RTK initialization screen
In a survey, tap ☰ **Menu → Measure → RTK Initialization**

Change the **Method** to the Subset you want to use then tap **Reset**.
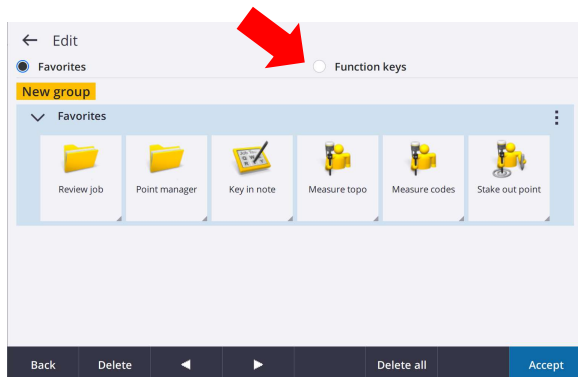This will change the tracked subset, reset the current initiliation and start the new initilization.

Note: If you do not see a selection list in the method, there is a measurement active on another screen. Cloase any active measurements to use this feature.

Adding the switch to a Data Collector Function Key

Use the Favorites Edit to add the **Select satellite subset** to a Function key for fast changes

Tap **Menu** ☰ → tap the **pencil** to edit the current Group   Favorites ▼ ✎
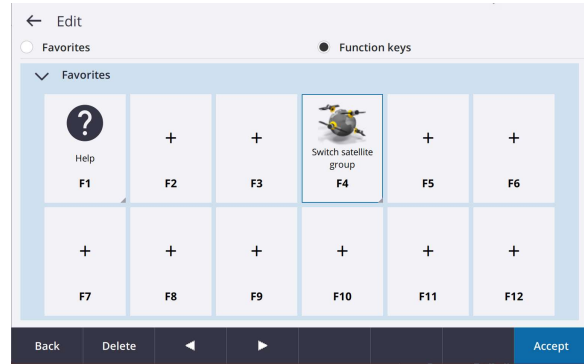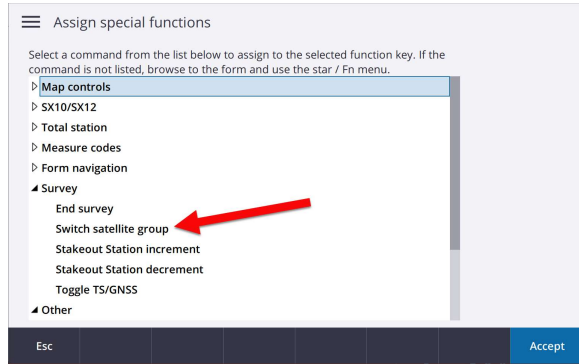
Toggle to edit the Function keys   Tap the # key to assign

From the survey actions, select

Now, unless you are actively in a measurement, tapping the assigned function will toggle between **ALL, SV set A, SV set B**