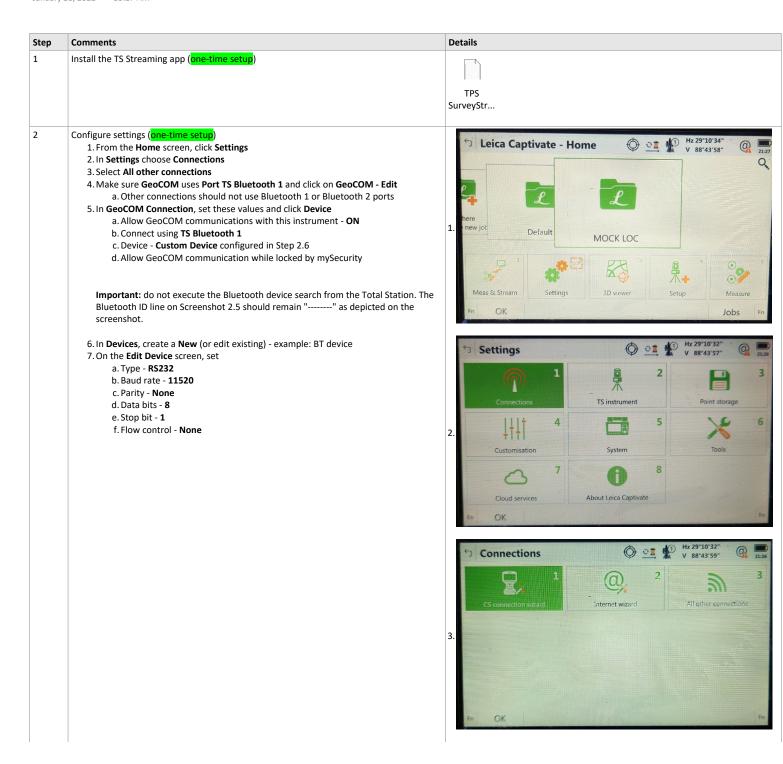
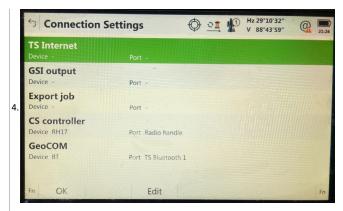
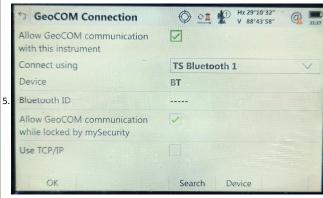
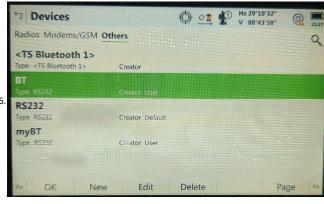
Leica Total Station - vGIS Integration

January 26, 2022 10:27 AM







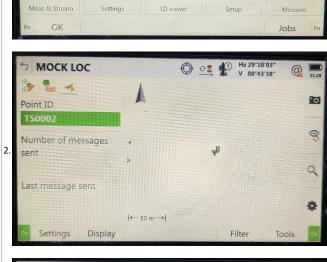


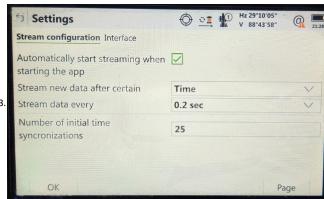


- 3 Streaming app configuration (one-time setup)
 - 1. From the **Home** screen, click **Meas & Stream**
 - $2. \, \textbf{Before} \, \, \textbf{streaming starts} \, \, \textbf{(if it is starts automatically, stop streaming), click} \, \textbf{Fn} \, \, \textbf{and} \, \, \, \\ \textbf{then} \, \, \textbf{Settings} \, \, \\$
 - 3. On the **Stream Configuration** tab, set:
 - a. Automatically start streaming when starting the app **On** (optional)
 - b. Stream new data after certain Time
 - c. Stream data every 0.2 sec
 - 4. On the Interface tab, choose:
 - a. Connect using ${\bf Configured\ interface}$



b. Interface - **GeoCOM** c. Format - **NMEA GGA & GST**







Job configuration (required for new locations)

1. From the Home screen, click Create New Job (or modify existing)

2. Select View & edit job properties

3. In Job Details, define the Name on the General tab

4. Switch to the Coordinate system tab and select Coordinate system (or create new)

5. In the Coordinate Systems view, create New or select existing

6. In the Edit Coordinate System, choose Projection

7. Select existing or create New

8. On the Edit Projection screen, set

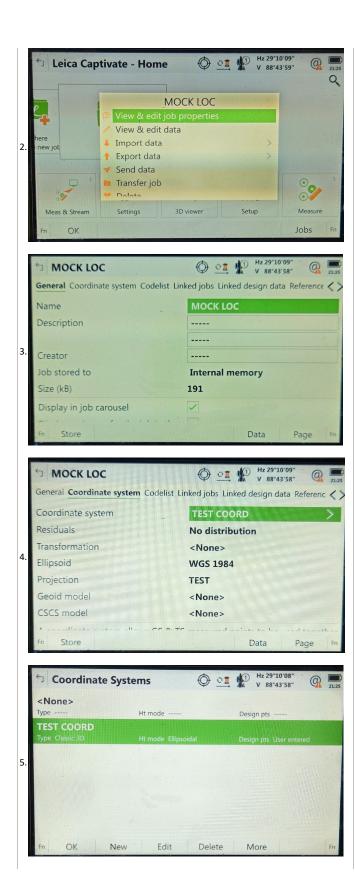
a. Type - Transverse Mercator

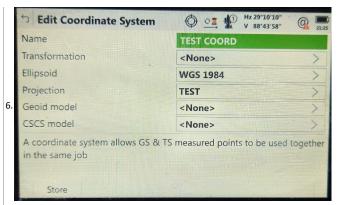
b. Set false easting and northing

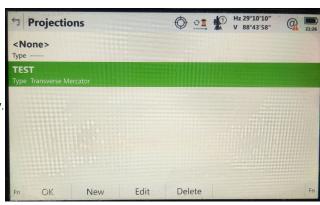
c. Set latitude and central meridian

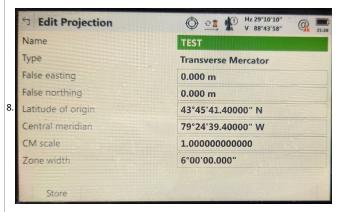


d. Leave **CM scale** at 1.0000000000 9. From the **Home** screen, select **Setup** and then **Set Orientation**











Initiate vGIS connection (required for every AR session)

- Start Total Station and open the Meas & Stream app; if steaming didn't start automatically, click Start
- 2. Launch vGIS

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- a. Make sure the prism is unobstructed
- b. Start vGIS on your device
- c. Select on the Main Menu > Options > GNSS
- d. On the GNSS tab, select Positioning Mode High-Precision GNSS/RTK and Integration type of Total Station
- Note: In the future release, select Positioning Mode Leica Total Station



- 3. Wait for the "Connecting..." message in vGIS and "Connected" message to appear on the Total Station
 - a. The Total Station's clock will adjust

Note: In the future release,

- a. vGIS will display the ${\bf Connecting\ to\ TS}$ and ${\bf Configuring\ TS}$ in sequence
- 4. To search for the prism from vGIS, click the TS: Prism Search button
- 5. Once the Prism is found and streaming starts, the Connected to TS... message will appear. The accuracy bubble will display 0.01m accuracy and the current coordinates. The data will be loaded automatically. vGIS can be calibrated, if it isn't already.
- 6. If the prism is lost, wait for vGIS to initiate an automated prism search (three attempts). If the prism is not found, click the **TS: Prism Search** button.

Note: In the future vGIS provide notifications about the lost and found prism

