



Title: How to create the InCORS Survey Style

Overview

Learn how to setup the Survey Style and GNSS contact for the Indiana Department of Transportations' free RTK network (InCORS).

Equipment

Trimble Data Collector Operating Access 2020 or Newer

Results

Allows User to have access to INDOTs' free RTK network provided that the User has contacted INDOT and received their own Username and Password.

Procedure

Step 1: Please visit INDOTs' website (<http://incors.in.gov/rtk.aspx>) and sign up for your Username and Password.

RTK Access

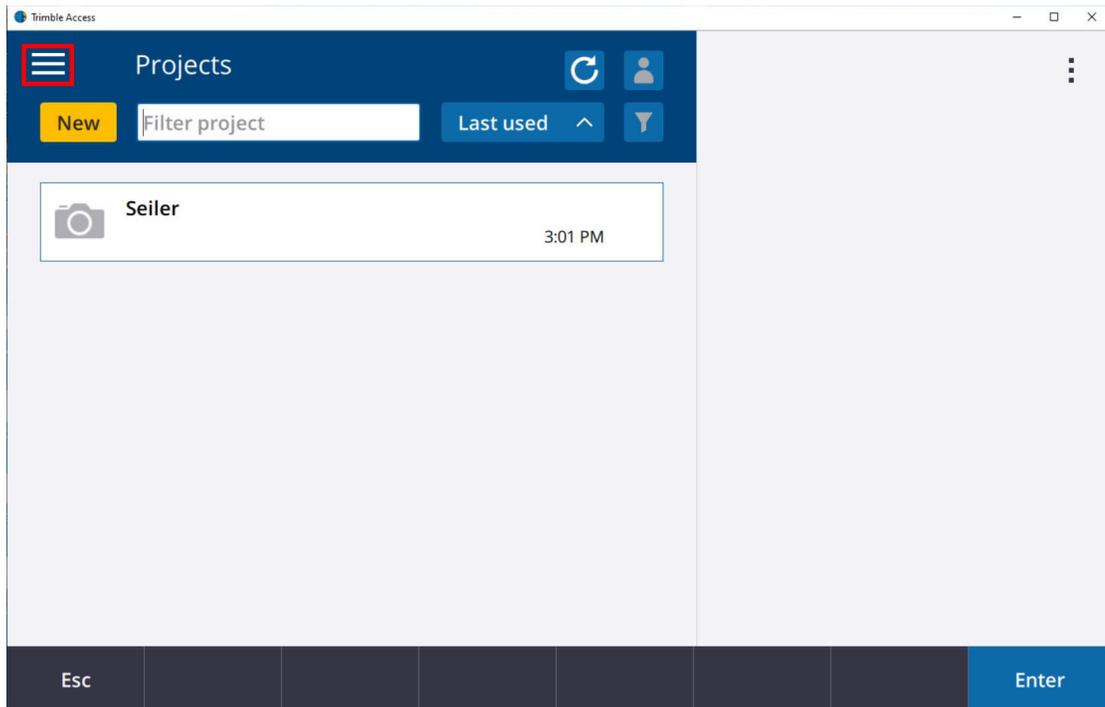
To get access to our RTK Service you must first agree to our User Agreement and Data Disclaimers. Complete the [\[User Agreement\]](#), print, sign and return it to our office for processing by mail, fax or e-mail to:

Land & Aerial Survey Office
InCORS Network Administrator
120 South Shortridge Road
Indianapolis, IN 46219-6705
Phone: 317-610-7251, ext. 293
Fax: 317-356-9351
E-mail: incors@indot.in.gov

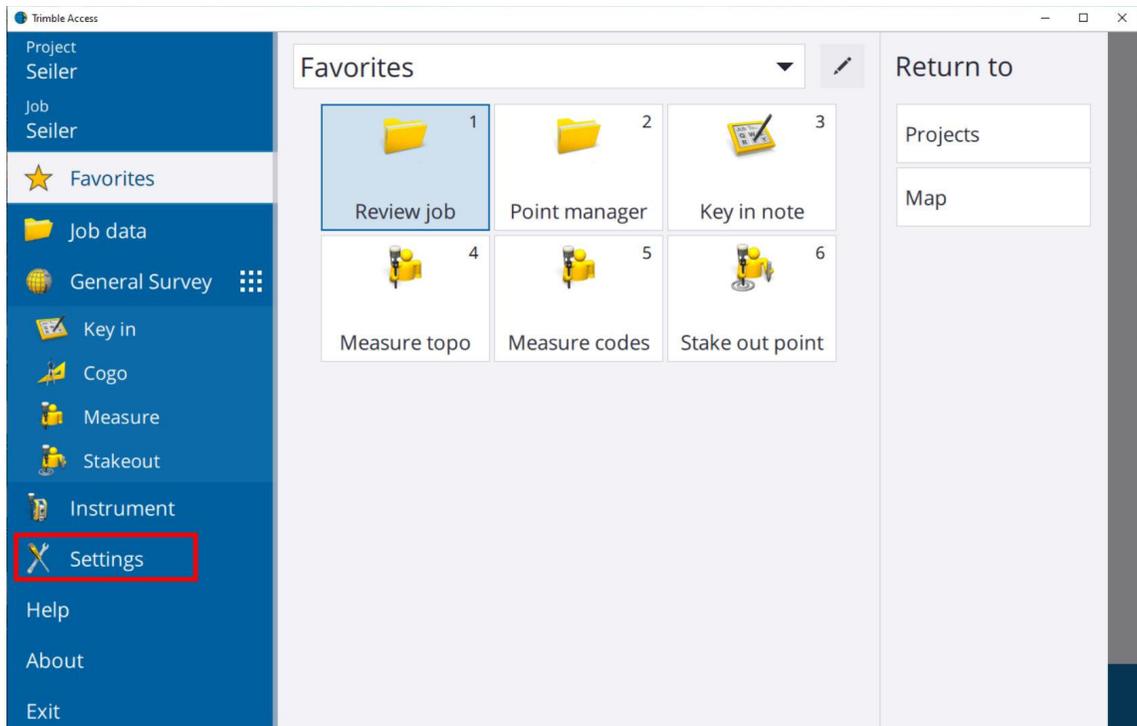


Step 2: Configure your GNSS Contact as Follows:

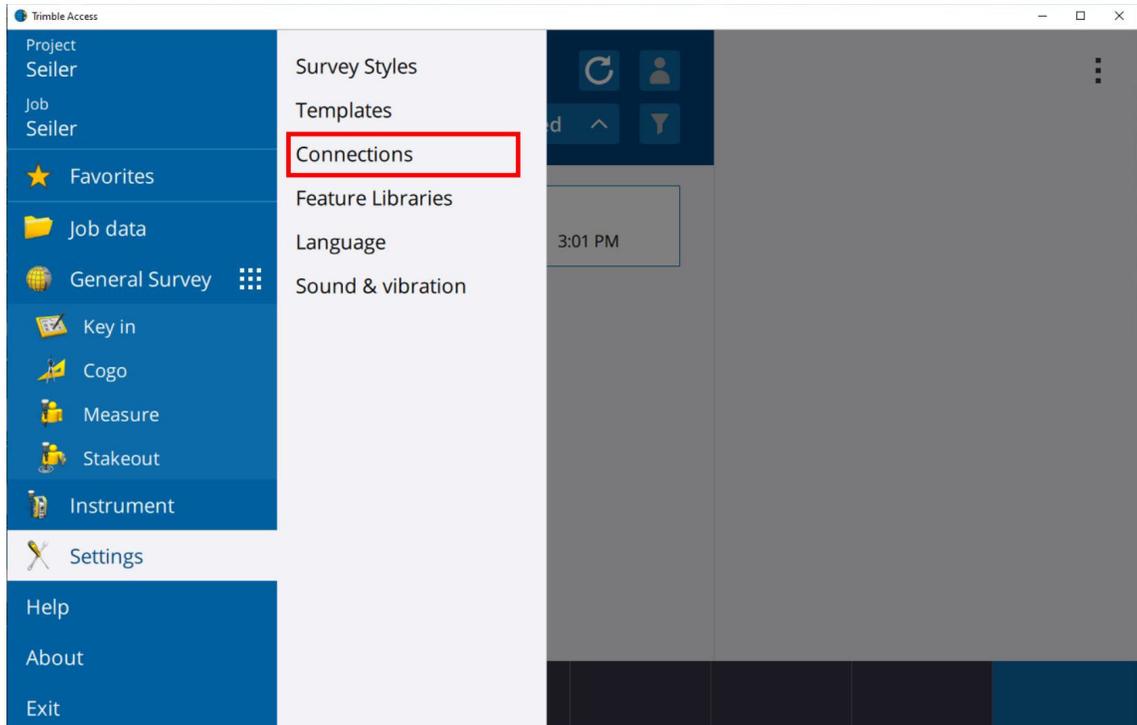
1. Tap the Menu button in the top left



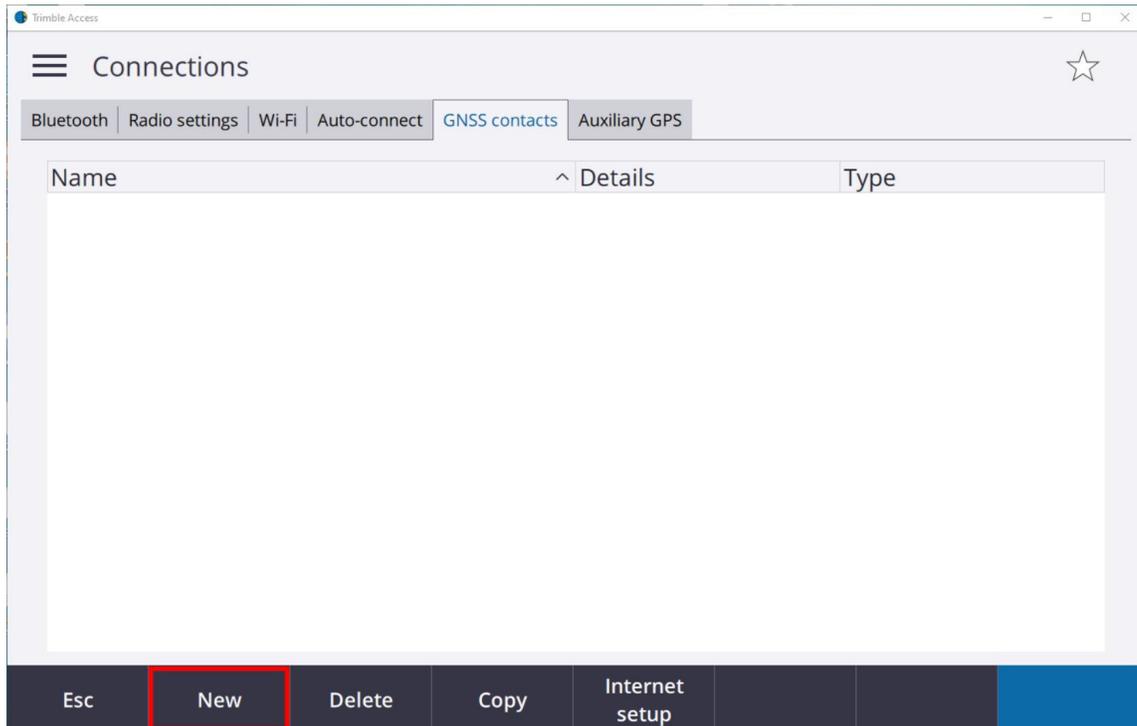
2. Tap the Settings button



3. Tap the Connections Button



4. Tap New



5. Input the GNSS Contact Name then tap the Corrections tab

Trimble Access

Edit GNSS contact

Network connection **Corrections**

GNSS contact name: InCORS

Contact type: Internet rover

Network connection: Controller Internet

Esc Enter

6. Input your NTRIP login info, the IP Address (108.59.49.226) and the IP Port (9000) and tap Enter

Trimble Access

Edit GNSS contact

Network connection Corrections

NTRIP Configuration

Use RTX (Internet) No

Use NTRIP v1.0

Connect directly to Mountpoint No

Use NTRIP Yes

Use proxy server No

NTRIP username: abc123

NTRIP password:

IP Address: 108.59.49.226

IP Port: 9000

Send user identity info

Esc Enter

NOTE: For Single Station Solutions, enter IP Port 7071

Trimble Access

Edit GNSS contact

Network connection Corrections

NTRIP Configuration

Use RTX (Internet) No

Use NTRIP v1.0

Connect directly to Mountpoint No

NTRIP password *****

IP Address 108.59.49.226

Send user identity info

Use NTRIP Yes

Use proxy server No

NTRIP username abc123

IP Port 7071

Esc Enter

7. Your screen should now show the InCORS GNSS contact and you are ready for the next step

Trimble Access

Connections

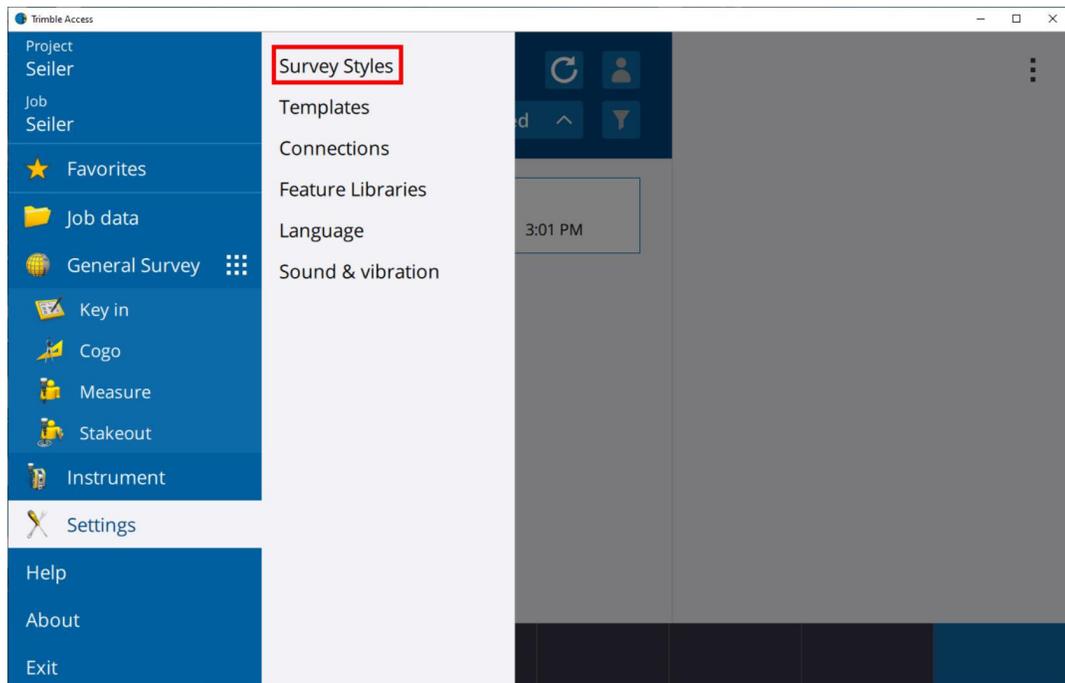
Bluetooth Radio settings Wi-Fi Auto-connect GNSS contacts Auxiliary GPS

Name	Details	Type
InCORS	Controller Internet	Internet rover

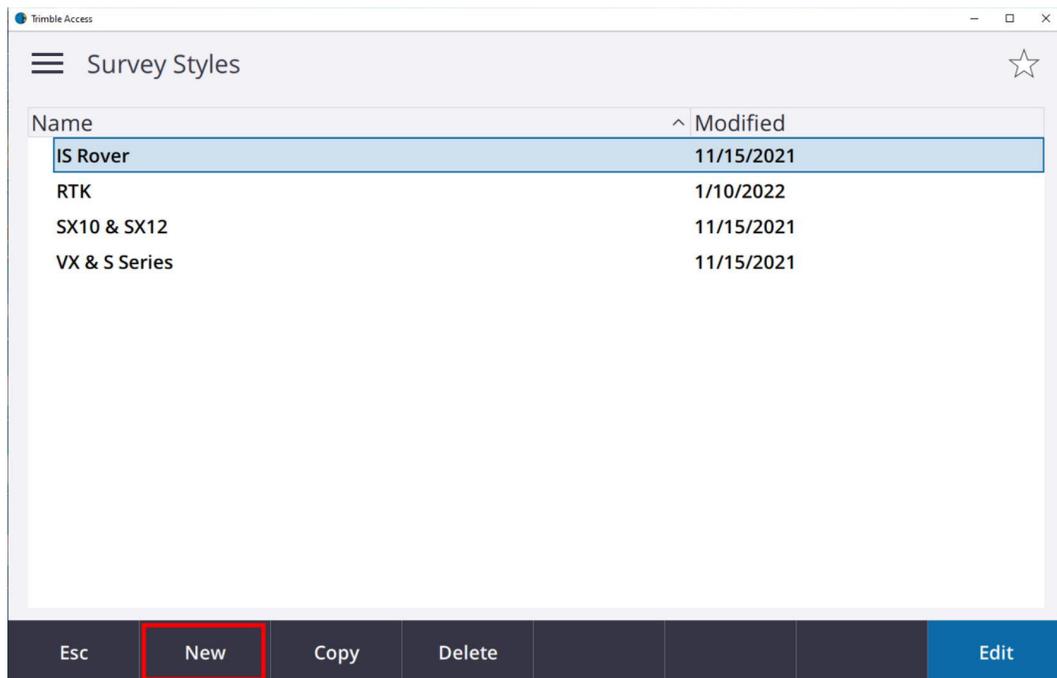
Esc New Delete Copy Internet setup Edit

Step 3: Create a corresponding InCORS survey style

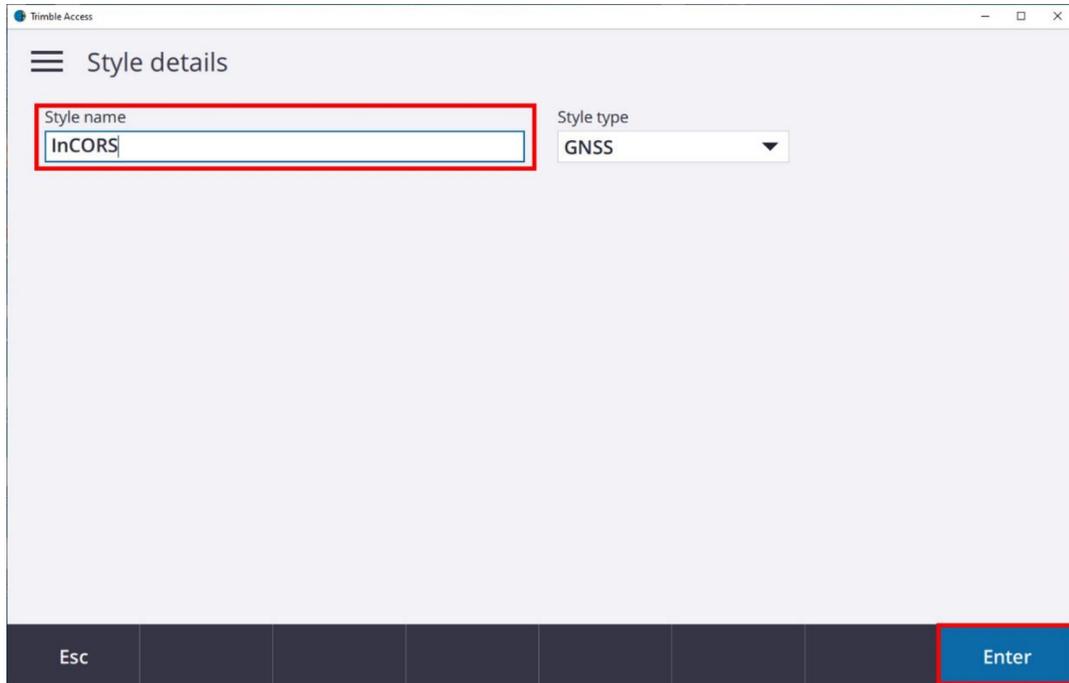
1. From the main menu, enter the settings again then tap Survey Styles



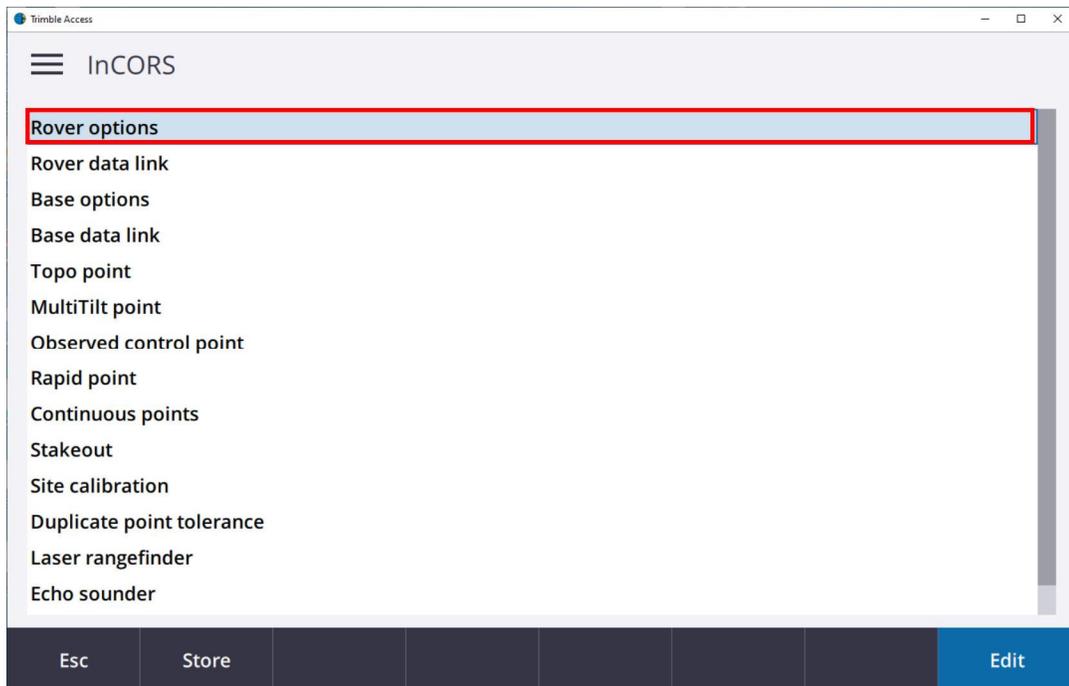
2. Tap New



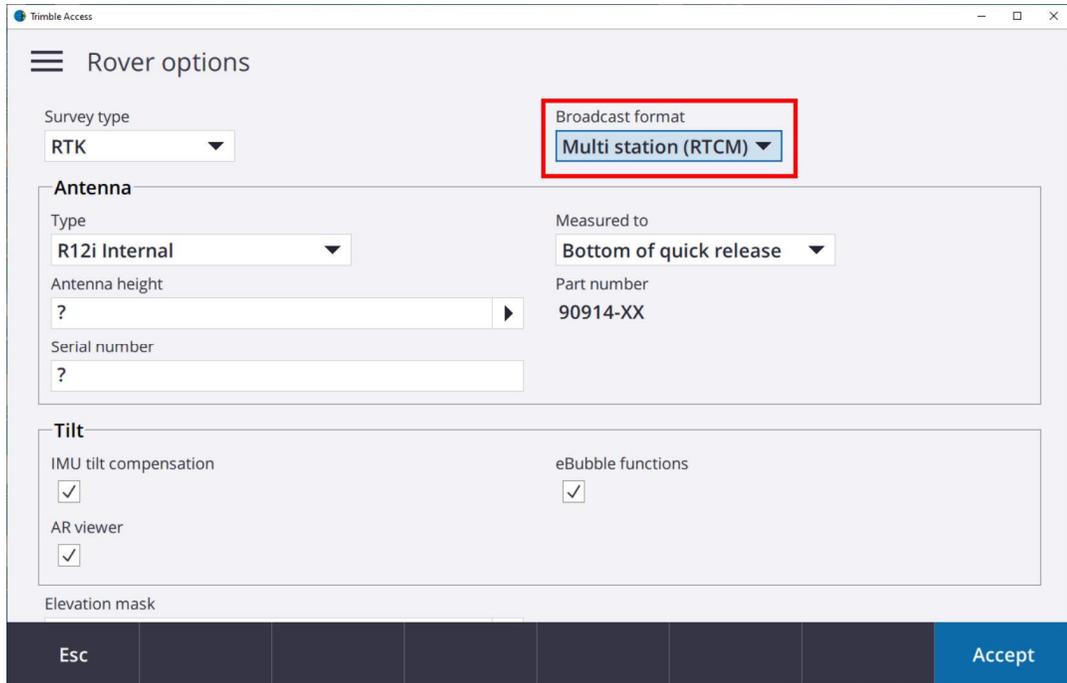
3. Input your Style name then tap Enter



4. Select Rover Options

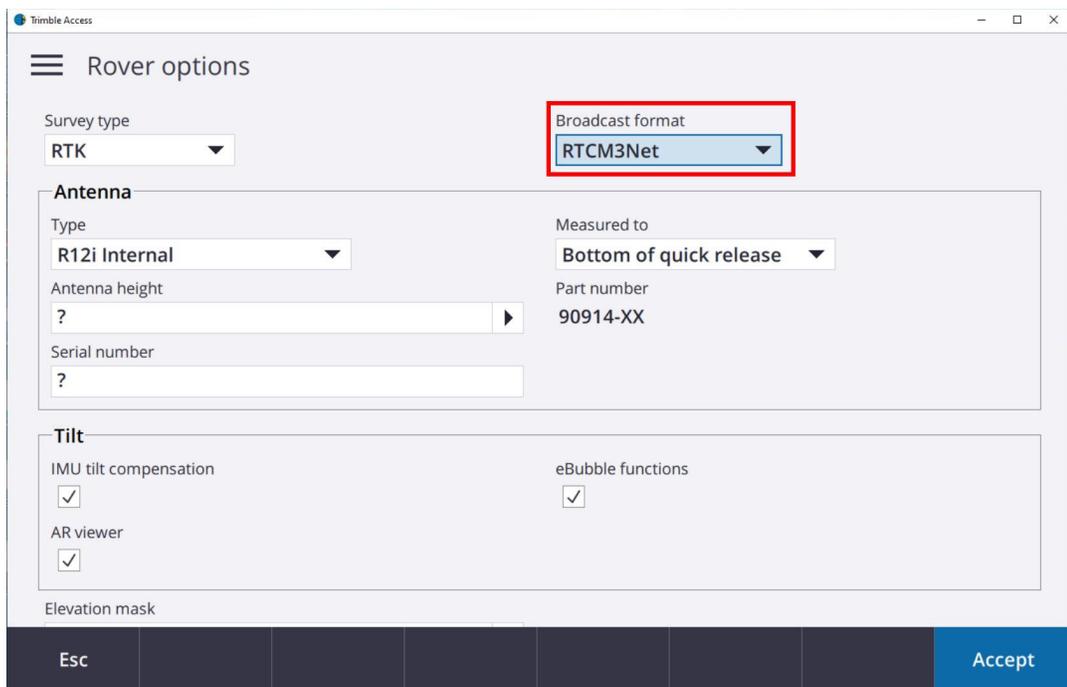


5. Set Broadcast format to Multi station (RTCM) then tap Accept



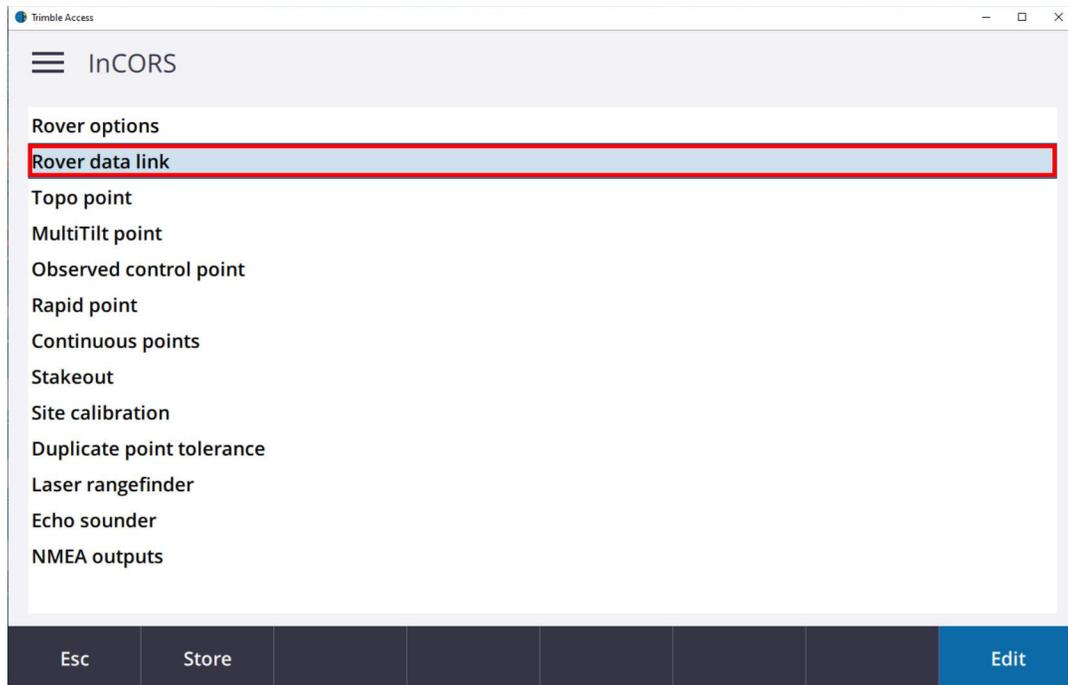
The screenshot shows the 'Rover options' screen in the Timble Access application. The 'Survey type' is set to 'RTK'. The 'Broadcast format' dropdown menu is highlighted with a red box and is set to 'Multi station (RTCM)'. Under the 'Antenna' section, the 'Type' is 'R12i Internal', 'Measured to' is 'Bottom of quick release', 'Antenna height' is '?', and 'Serial number' is '?'. The 'Part number' is '90914-XX'. Under the 'Tilt' section, 'IMU tilt compensation' and 'AR viewer' are checked, and 'eBubble functions' is also checked. At the bottom, there is an 'Esc' button on the left and an 'Accept' button on the right.

NOTE: For RTCM MAX and iMAX products select Broadcast format RTCM3Net

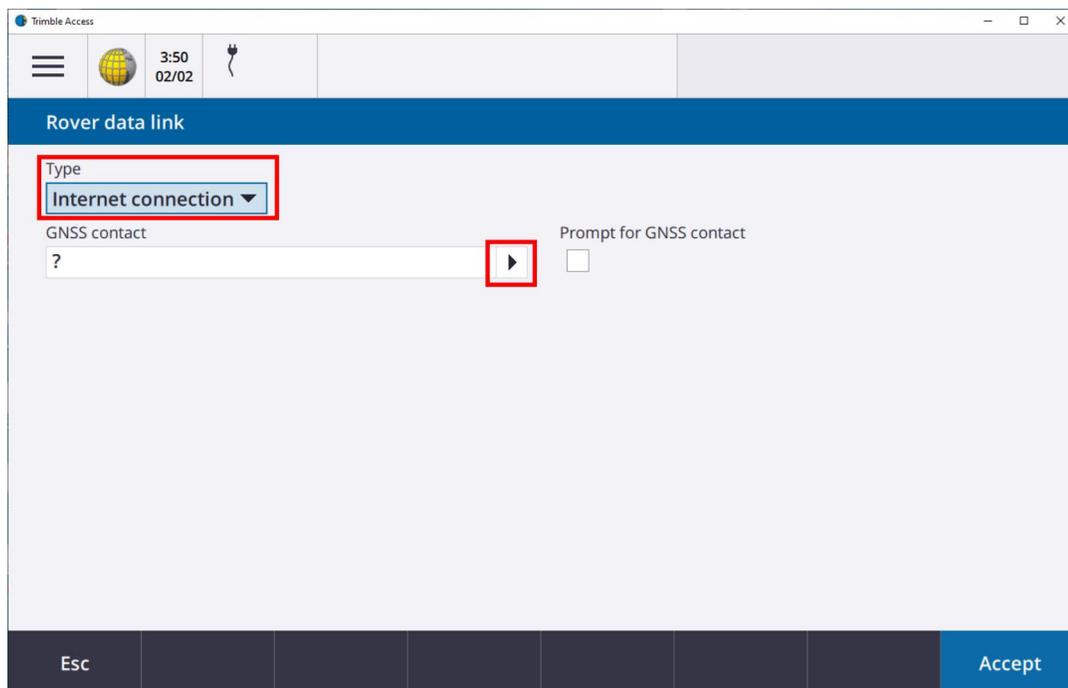


The screenshot shows the 'Rover options' screen in the Timble Access application. The 'Survey type' is set to 'RTK'. The 'Broadcast format' dropdown menu is highlighted with a red box and is set to 'RTCM3Net'. Under the 'Antenna' section, the 'Type' is 'R12i Internal', 'Measured to' is 'Bottom of quick release', 'Antenna height' is '?', and 'Serial number' is '?'. The 'Part number' is '90914-XX'. Under the 'Tilt' section, 'IMU tilt compensation' and 'AR viewer' are checked, and 'eBubble functions' is also checked. At the bottom, there is an 'Esc' button on the left and an 'Accept' button on the right.

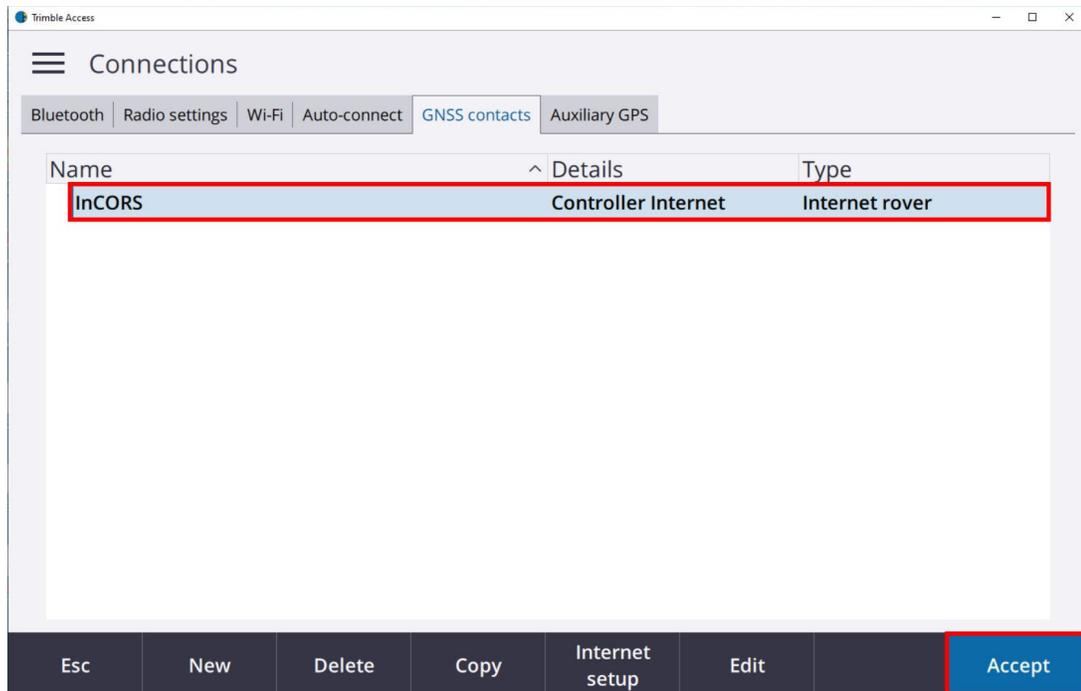
6. Select Rover data link



7. Set type as Internet connection and tap the arrow to select GNSS Contact



8. Select your InCORS survey style and tap accept



Your GNSS contact and survey style are now configured correctly and you are ready to take measurements with InCORS corrections.

