

## Topcon GR3 GSM FH915 GPS Configuration

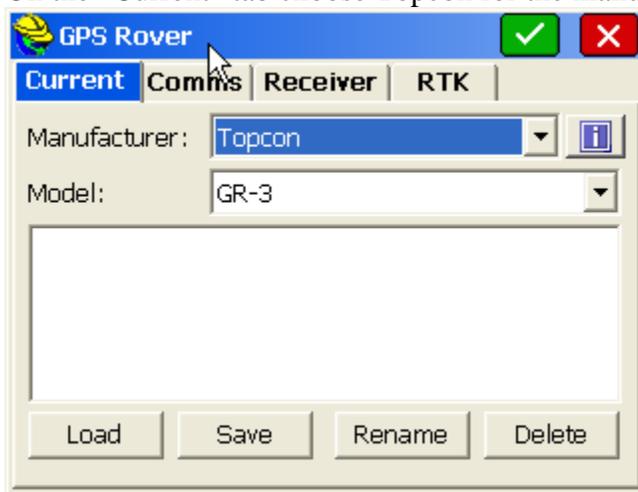
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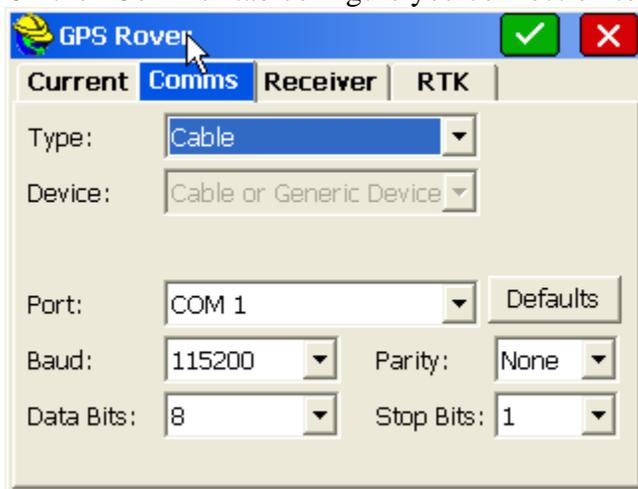
**Abstract:** The following document details the steps necessary to use Carlson SurvCE 2.0 with the Topcon GR3 GSM FH915 GPS receivers.

### **Instrument Configuration GSM FH915:**

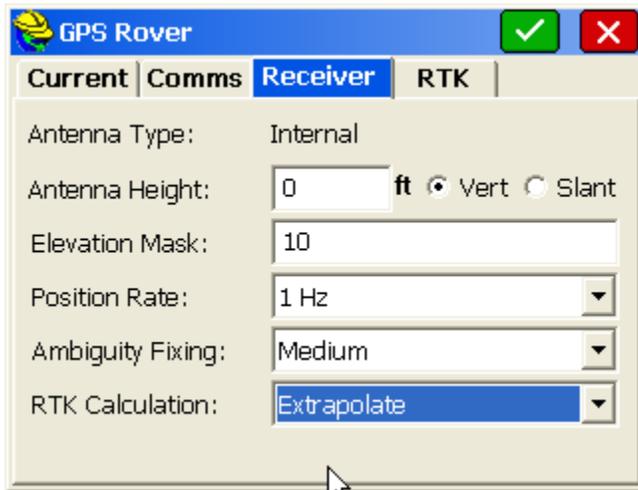
1. Start SurvCE and complete job setup.
2. From the equipment menu choose configure “GPS Rover.”
3. On the “Current” tab choose Topcon for the manufacturer and GR-3 for the Model.



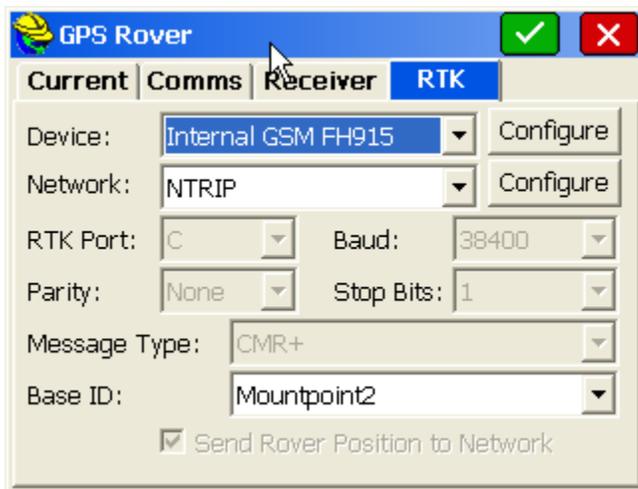
4. On the “Comms” tab configure you connection to the GPS – cable or Bluetooth.



5. On the “Receiver” tab configure your desired settings. The image below shows typical settings.



6. Select the "RTK" tab.
7. For "Device" choose "Internal GSM FH915."



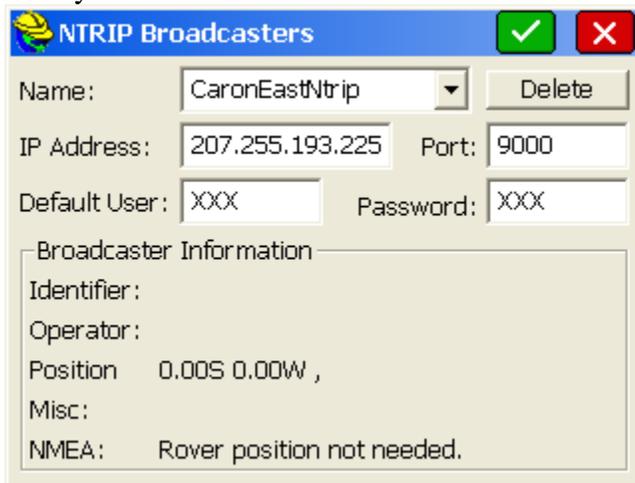
8. Press "Configure" next to the selected device.
9. Enter your GSM dialing information. You will need to obtain this from your wireless provider. Below is an example of the settings for Cingular/AT&T.



The screenshot shows a dialog box titled "Config..on GSM w/ FH915 Modem" with a green checkmark and a red X button in the title bar. The dialog contains the following fields:

APN Pin:	<input type="text" value="1"/>
APN Server:	<input type="text" value="isp.cingular"/>
APN User Name:	<input type="text" value="WAP@CINGULARGPRS.O"/>
APN Password:	<input type="text" value="CINGULAR1"/>
GPRS Dial:	<input type="text" value="*99***1#"/>

10. Press the green checkbox.
11. For “Network” select “NTRIP”.
12. Press “Configure” next to “Network.”
13. Enter the connection information for your NTRIP network. You will need to obtain this from your NTRIP network administrator. Below is an example setup.



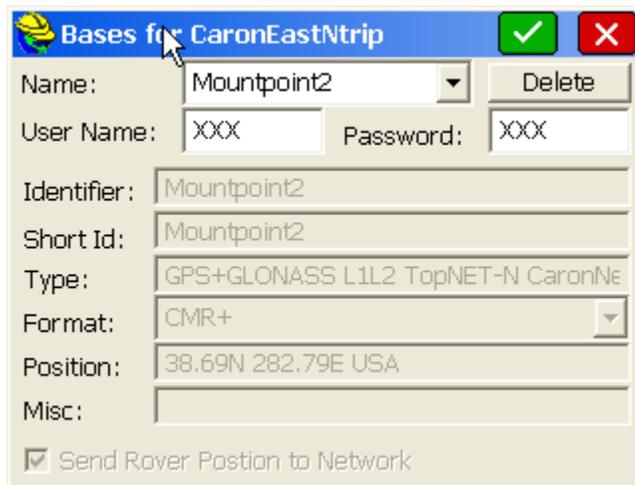
The screenshot shows a dialog box titled "NTRIP Broadcasters" with a green checkmark and a red X button in the title bar. The dialog contains the following fields and sections:

Name:	<input type="text" value="CaronEastNtrip"/>	<input type="button" value="Delete"/>
IP Address:	<input type="text" value="207.255.193.225"/>	Port: <input type="text" value="9000"/>
Default User:	<input type="text" value="XXX"/>	Password: <input type="text" value="XXX"/>

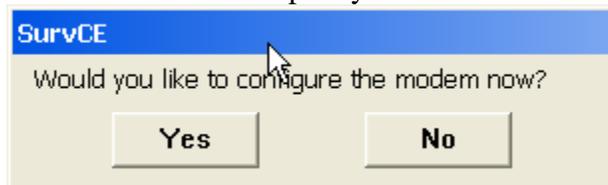
Broadcaster Information

Identifier:  
Operator:  
Position 0.00S 0.00W ,  
Misc:  
NMEA: Rover position not needed.

14. Press the green checkbox. Be patient while the connection is configured, this may take a few minutes.
15. Select the desired Mount Point from the drop down list next to “Name.” If you cycle through the different Mount Points you will see the connection information for each mount point in the lower half of the screen.



16. Press the green check box to return to the GPS Rover dialog.
17. Press the green check box to save the connection. When prompted “Would you like to configure the modem now” answer “yes” if you would like to connect to the network immediately. If you are only configuring the connection, but want to connect later answer “no.” This step may take several minutes if you answer “yes.”



18. Once the connection is configured you can connect/disconnect under Equip->GPS Utilities. You can verify the connection using Equip->Monitor/Skyplot.

