

## QG-TopNET Global D Setup Procedures

### Minimum Requirements

Prior to activation of a TopNET Global D Subscription you need to make sure the console has software V 3.22.20 or later installed, and the AGI-4 Receiver has Firmware 4.5K14 Jul, 14 2016 p3 or later installed and is unlocked for TopNET Global D.

1. To confirm Software Version on the console and Firmware Version on the AGI-4 Receiver select the **Topcon / System Information** icon



2. Expand the mini view out and check both as indicated below

The screenshot displays the 'System Information' screen with two expandable sections: 'Console' and 'GPS Receiver'. The 'Console' section lists various system details, with 'Software Version' highlighted as 3.22.20. The 'GPS Receiver' section lists details for the AGI-4 receiver, with 'Firmware Version' highlighted as 4.5K14 Jul, 14, 2016 p3. A bottom status bar shows various operational metrics like fuel consumption, GPS signal strength, speed, heading, and distance.

Console	
Software Version	3.22.20
Software Brand	Topcon
U-Boot Version	2013.10-weimx6-0.6.2 (May 20 2016 - 10:25:24)
Main PMIC Firmware	0x4
CPU PMIC Firmware	0x8
Co-Processor Firmware	0.8.0
MAC Address	A8:D3:C8:00:6B:6F
IP Address	N/A

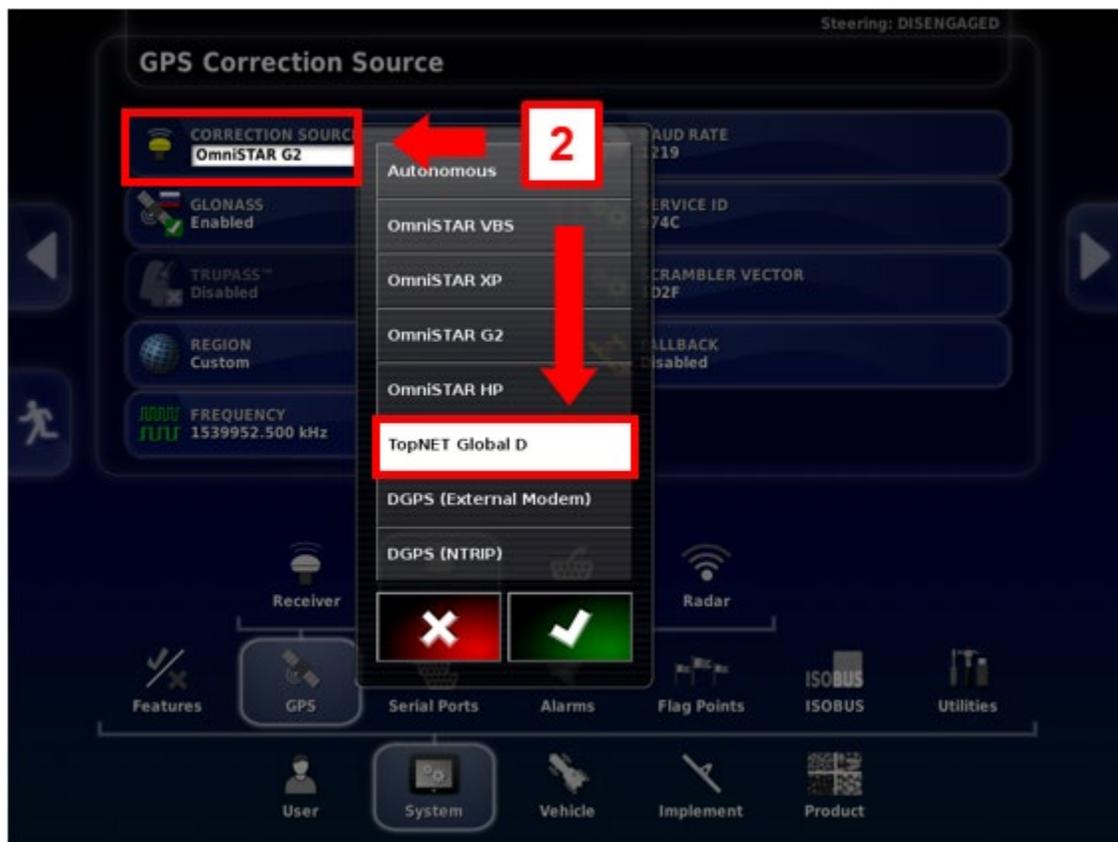
GPS Receiver	
Receiver Type	AGI-4
Firmware Version	4.5K14 Jul, 14, 2016 p3
Serial Number	VFAGF14150281
ID	MQZZ6UJQ924

- To confirm if the receiver has been unlocked for the TopNET Global D correction source navigate to **System > GPS > Correction** and touch on the **Correction Source** field. If TopNET Global D is not listed in the drop down, then you will need to purchase an OAF (Options Authorisation File).

## Console Setup

To setup the console for TopNET Global D Subscription activation perform the following steps:

- Power on the TopNET equipped AGI-4 and X Console. **Select No** to the TopNET seeding question if prompted
- On the **Settings** screen, under **System > GPS > Correction**, touch on the **Correction Source** field and select **TopNET Global D**



The below table provides a list of all TopNET Global D Beams and current Frequencies

Beam ID	Beam Name	Frequency
IOR	Indian Ocean Region	1545865.000
POR	Pacific Ocean Region	1545905.000
AORW	Atlantic Ocean Region West	1545845.000
25E	Inmarsat 25E (Europe/Middle-East Africa)	1545825.000
143.5E	Inmarsat 143.5E (Asia Pacific)	1545835.000
98W	Inmarsat 98W (Americas)	1545865.000

3. On the same GPS Correction Source configuration page select the desired **Region** from the drop down



4. Touch on the **Running Man** to return to the run screen
5. Touch on the **GPS Information** icon to open the Mini-View



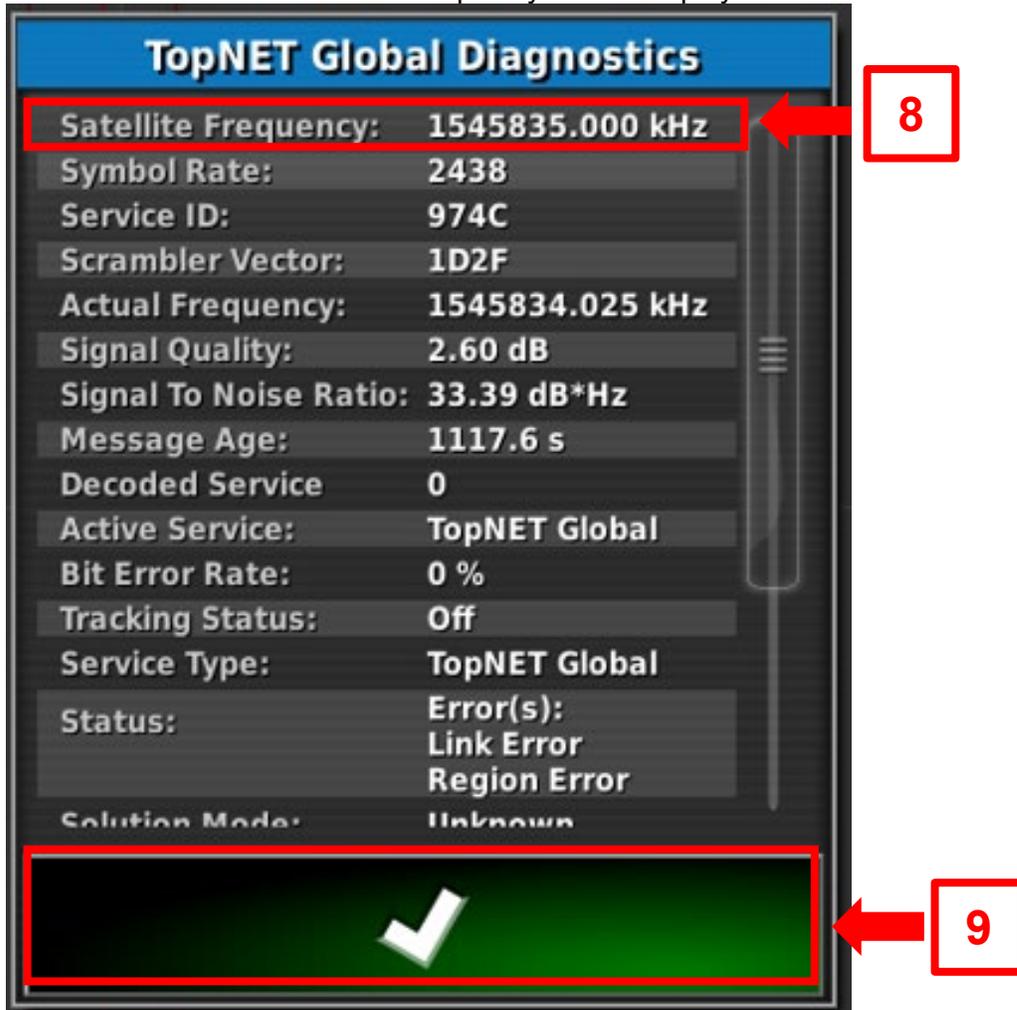
6. Open the **GPS Accuracy** Tab on the GPS Information Mini-View



7. Then touch the **TopNET Global** box to open the **TopNET Global Diagnostics** window



8. **Verify Satellite Frequency** (top of list) reads the proper frequency. For example, if using the **143.5E Beam** the Satellite Frequency should display **1545835.000 kHz**.



9. **If the Satellite Frequency is incorrect** you will need to close the **Diagnostics Window** by selecting the **Green Tick**. *If the frequency is showing correctly, tick and proceed to step 16*

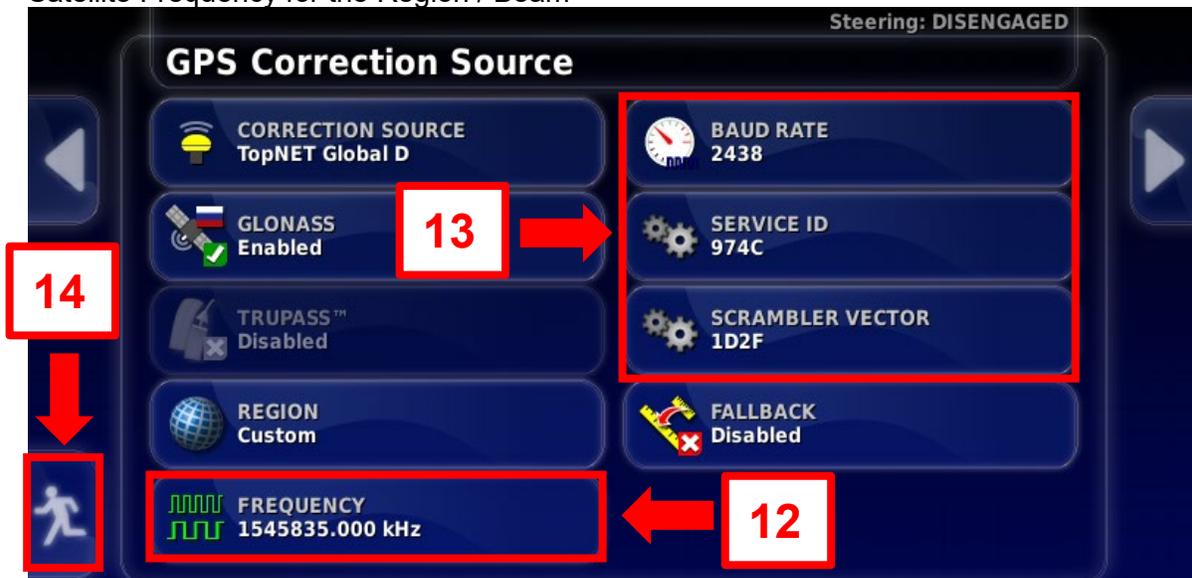
10. Then touch the **Spanner** icon to return to the Settings Screen



11. Now change the **Region** to **Custom**



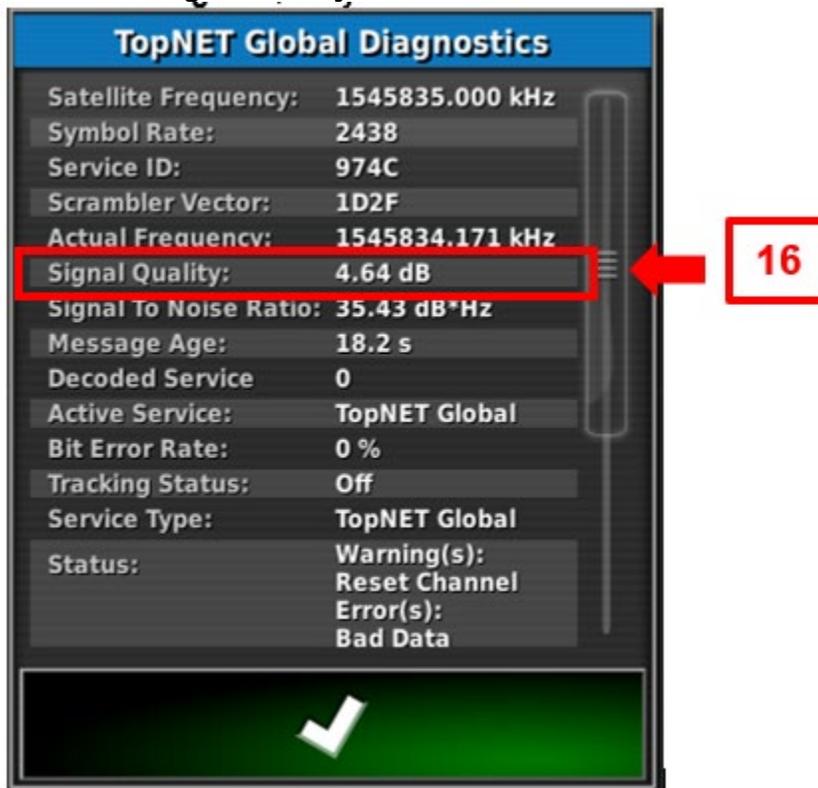
12. Touch on the **Frequency** field and using the on-screen keyboard manually enter the correct Satellite Frequency for the Region / Beam



13. Confirm the correct settings are showing for **Baud Rate**; **Service ID** and **Scrambler Vector** and if not update these accordingly. If you are unsure what these should be please contact the 24/7 Support Line for confirmation.
14. Touch on the **Running Man** to return to the Run Screen
15. Touch on the **TopNET Global** button to open the **TopNET Global Diagnostics** Window.



16. Wait for the **Signal Quality** to become stable and reach a number ideally larger than 6.00 dB

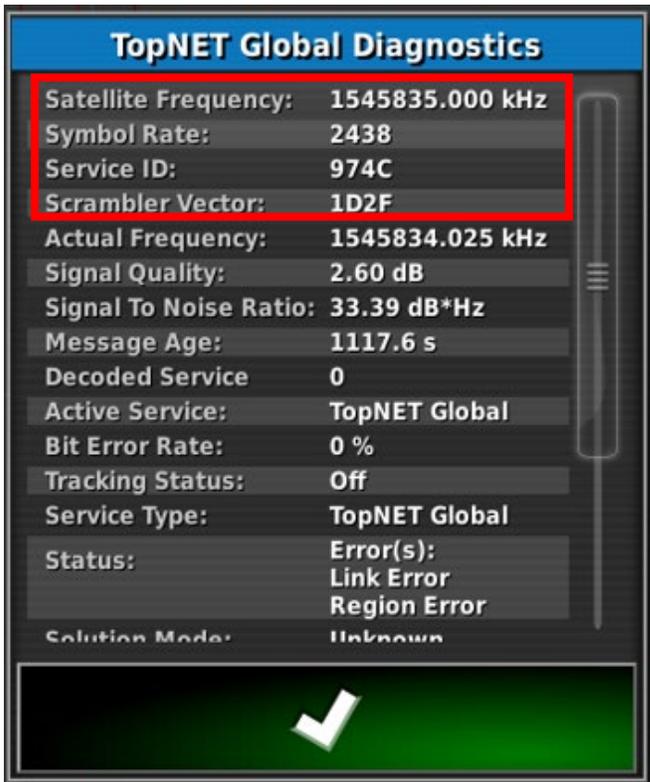


**Note:** If the signal quality is low or appears unstable (indicated by fluctuations in Signal Quality value) then it may be insufficient to successfully receive the TopNET Global D Subscription when activated.

Where multiple Beams / Frequencies cover an area, and your selected Beam / Frequency is returning a **low Signal Quality**, note the Signal Quality of the current frequency and then set to another frequency using the same process.

Once the **most stable signal with the highest Quality Signal value** is determined that frequency should then be the one used.

**Note:** If the Signal Quality value is reading 0.00 dB then an error has been made in the setup and you will need to re-check the top 4 fields.



17. Subscription can now be activated / sent to the receiver. To confirm the subscription is uploaded onto the receiver get the user to check the **Subscribed Modes** and **Expiry** fields have updated.

