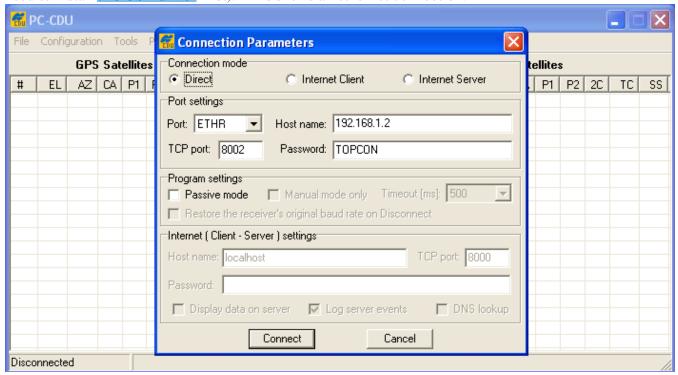
How to Update an Options Authorization File (OAF) on a Topcon Receiver (GB-1000, Net-G3A, etc.)

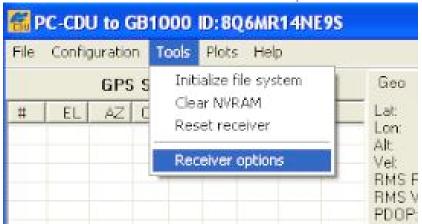
668 Freddy Blume November 23, 2015 <u>Topcon GB-1000</u>, <u>Topcon NET-G3 and NET-G3A</u> 2677

Many features of Topcon GNSS receivers can only be enabled by applying an Options Authorization File (OAF) which is supplied by the manufacturer. Once you receive an OAF from Topcon, you must apply it to the receiver using the Windows utility <u>PC-CDU</u>

1. Launch PC-CDU and connect to your receiver, either using ethernet, serial port or USB (you may need to install this USB driver first). This shows an ethernet connection:



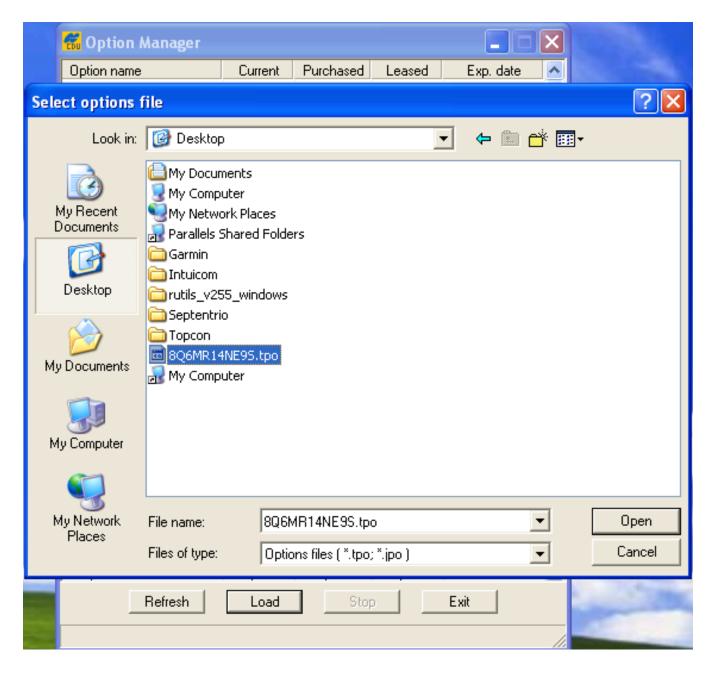
2. From the "Tools" menu select "Receiver Options":



3. The currently enabled options set will display. Click "Load" to add the new file.

Option name Current Purchased Leased Exp. date GPS yes yes yes 2/2/2008 GLONASS yes yes yes 2/2/2008 L1 yes yes yes 2/2/2008 L2 yes yes yes 2/2/2008 Cinderella yes yes yes 2/2/2008 Position update rate (Hz) 20 20 20 2/2/2008 Rosition update rate (Hz) 20 20 20 2/2/2008 Raw data update rate (Hz) 20 20 20 2/2/2008 Code differential Base yes yes yes 2/2/2008 Code differential Rover yes yes yes 2/2/2008 RTK Base yes yes yes 2/2/2008 RTK Rover (Hz) 20 20 20 2/2/2008 BTK Rover (Hz) 20 20 2 2/2/2008 Levet Markers 2 0 2	祝 Option Manager					>
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Event Markers 2 0 2 2/2/2008 In-Band Int. Rejection 1 0 1 2/2/2008 Multipath Reduction yes yes yes 2/2/2008 Frequency Input yes yes yes 2/2/2008 Freq. Lock and Output yes yes yes 2/2/2008 Serial Port A (Kbps) 460 460 460 2/2/2008 Serial Port B (Kbps) 460 460 460 2/2/2008 Serial Port C (Kbps) 460 460 460 2/2/2008 Serial Port D (Kbps) 460 460 460 2/2/2008 Infrared Port yes yes 2/2/2008 Parallel Port no yes 2/2/2008 Sp.Sp. Freq. Hop. no yes 2/2/2008 RAIM yes yes yes 2/2/2008 Datums support yes yes yes 2/2/2008	1-PPS Timing Signal				2/2/2008	
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Infrared Port		460	460	460	2/2/2008	
Parallel Port no yes 2/2/2008 Sp.Sp. Freq. Hop. no yes 2/2/2008 Sp.Sp. Direct						
Sp.Sp. Freq. Hop. no yes 2/2/2008 Sp.Sp. Direct			-	-		
Sp.Sp. Direct no yes 2/2/2008 RAIM yes yes yes 2/2/2008 Datums support yes yes yes 2/2/2008				-		
RAIM yes yes 2/2/2008 Datums support ves ves ves 2/2/2008				-		
Datums support ves ves 2/2/2008		yes		-		
Befrech Load Stop Evit				-		1
Treffesti Load Stop Exit	Refresh	Load	Stop		Exit	

4. Select the new options file on your hard drive. Note that the file should be named according to the receiver ID shown on the window of the main PC-CDU screen:



5. Click "Open" after selecting the proper file. If the load is successful you will quickly see the following screen, followed by a receiver reset and disconnection:

					ساد
Option name	Current	Purchased	Leased	Exp. date	^
GPS		success	absent		
GLONASS		success	absent		
L1		success	absent		
L2		success	absent		
Cinderella		success	absent		
Position update rate (Hz)		success	absent		
Raw data update rate (Hz)		success	absent		
Code differential Base		success	absent		
Code differential Rover		success	absent		
RTK Base		success	absent		
RTK Rover (Hz)		success	absent		
Memory (Mb)		success	absent		
Co-Op Tracking		success	absent		
1-PPS Timing Signal		success	absent		
Event Markers		success	absent		
In-Band Int. Rejection		success	absent		
Multipath Reduction		success	absent		
Frequency Input		success	absent		
Freq. Lock and Output		success	absent		
Serial Port A (Kbps)		success	absent		
Serial Port B (Kbps)		success	absent		
Serial Port C (Kbps)		success	absent		
Serial Port D (Kbps)		success	absent		
Infrared Port		success	absent		
Parallel Port		success	absent		
Sp.Sp. Freq. Hop.		success	absent		
Sp.Sp. Direct		success	absent		
RAIM		success	absent		
Datums support		success	absent		
Magnetic azimuth		success	absent		~
Refresh	Load	Stop		Exit	

If this does NOT happen, then the OAF you have selected is not compatible with this receiver. Select a different file or contact Topcon for assistance with a new file. You should include your receiver ID number (which can be copied when selecting "About" from the "Help" menu on the main PC-CDU screen).

6. You will be presented with the same connection screen as in step (1) above. When you reconnect the newly loaded options will be displayed as in step 3. Check to make sure that the new settings you have requested from Topcon have been enabled. Then click "Exit" and resume receiver operations.

Online URL:

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