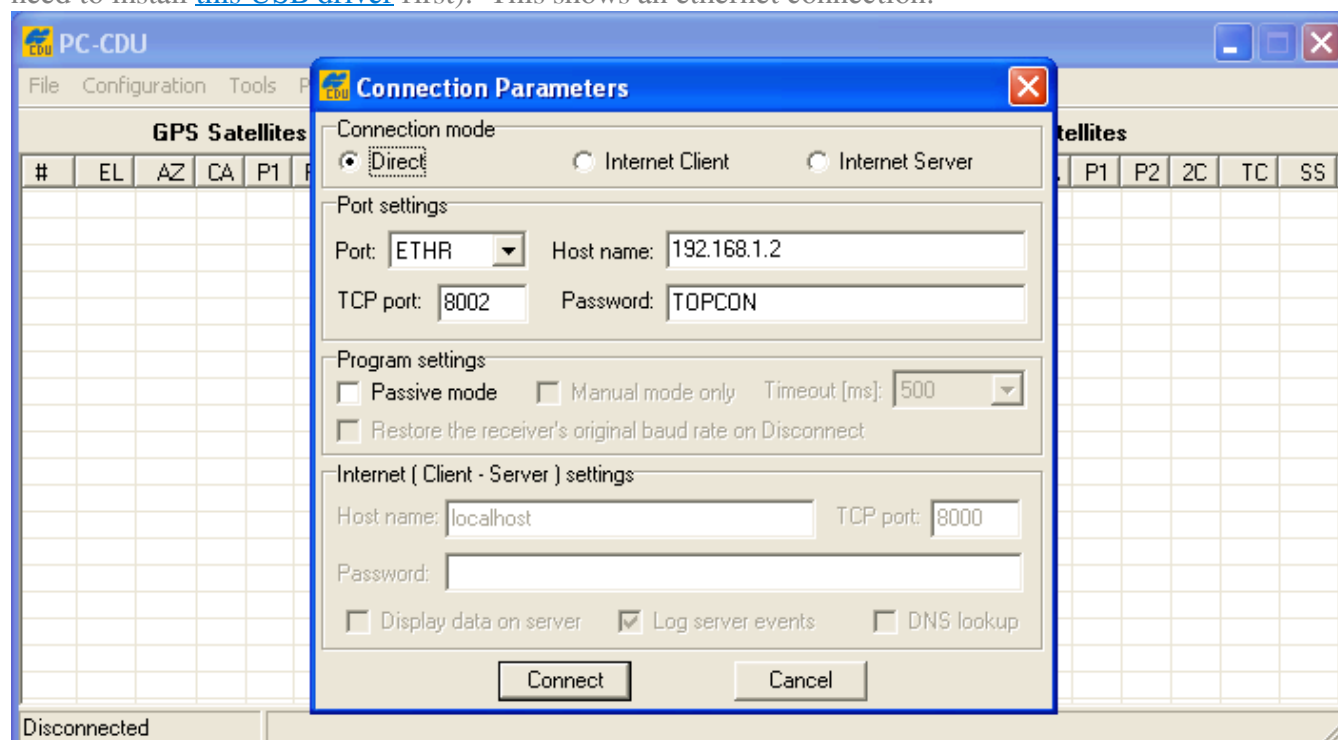


How to Update an Options Authorization File (OAF) on a Topcon Receiver (GB-1000, Net-G3A, etc.)

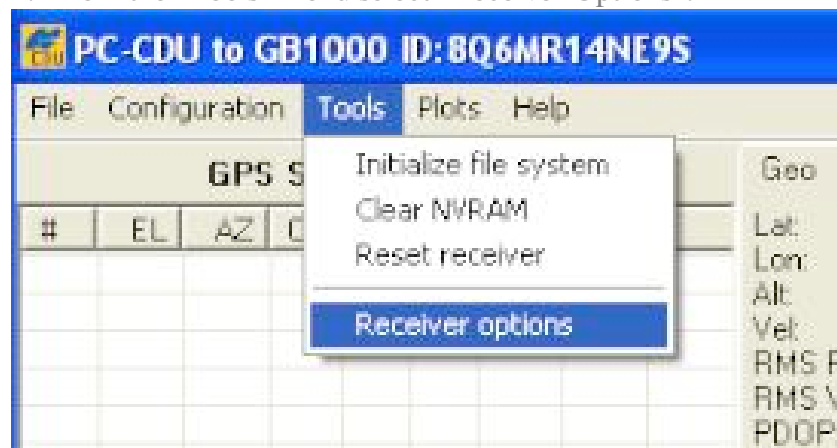
668 Freddy Blume November 23, 2015 [Topcon GB-1000](#), [Topcon NET-G3 and NET-G3A](#)
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Many features of Topcon GNSS receivers can only be enabled by applying an Options Authorization File (OAF) which is supplied by the manufacturer. Once you receive an OAF from Topcon, you must apply it to the receiver using the Windows utility [PC-CDU](#)

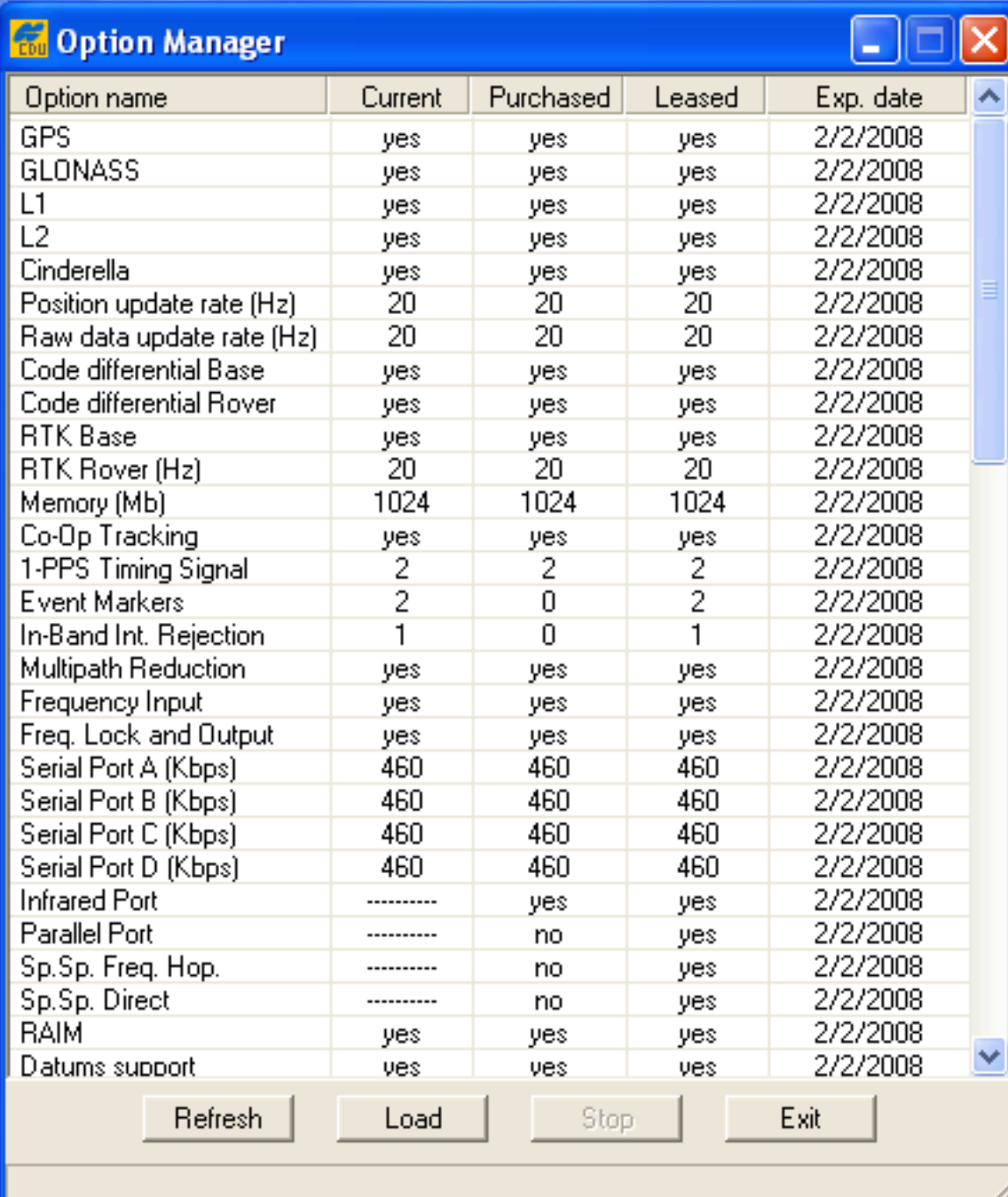
1. Launch PC-CDU and connect to your receiver, either using ethernet, serial port or USB (you may need to install [this USB driver](#) first). This shows an ethernet connection:



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



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

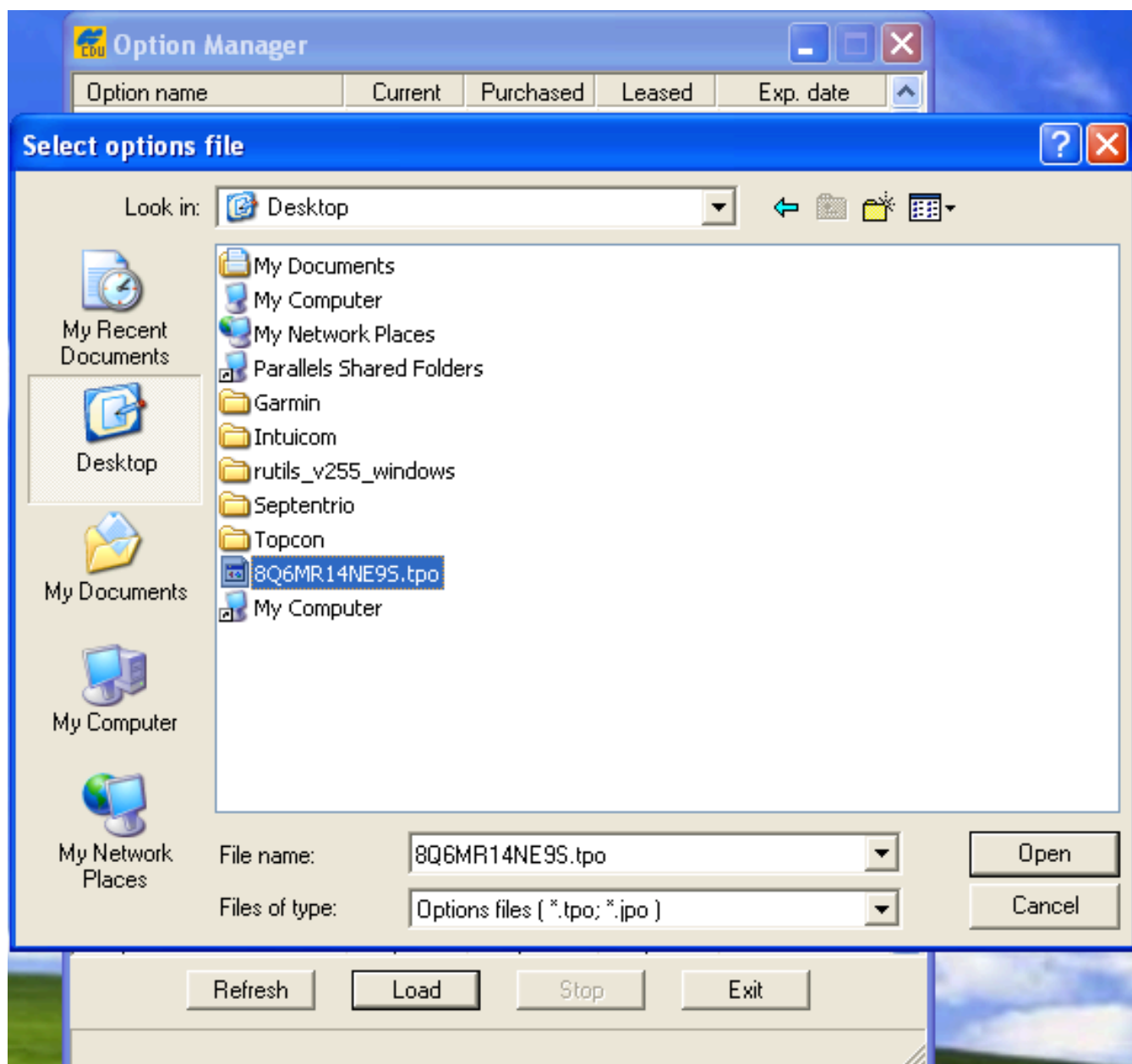


The Option Manager window displays a table with the following data:

| 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 |
| 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 |
| Memory (Mb) | 1024 | 1024 | 1024 | 2/2/2008 |
| Co-Op Tracking | yes | yes | yes | 2/2/2008 |
| 1-PPS Timing Signal | 2 | 2 | 2 | 2/2/2008 |
| 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 |
| Sp.Sp. Direct | ----- | no | yes | 2/2/2008 |
| RAIM | yes | yes | yes | 2/2/2008 |
| Datums support | yes | yes | yes | 2/2/2008 |

Buttons at the bottom: 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:

| 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:

<https://kb.unavco.org/article/how-to-update-an-options-authorization-file-oaf-on-a-topcon-receiver-gb-1000-net-g3a-etc-668.html>