

Bulletin No. 15-006

Issue Date: 28th July 2015

Issue/Revision: 1

No. of Pages: 5

Prepared By: I.Hattam

Signature:  28/07/15

Approved By: H.Whincup

Signature:  28/07/15

Subject: Connecting a ROVNav 6 to Fusion through a Multiplexer

Summary:

Sonardyne customers connecting a ROVNav 6 to the Fusion software through a multiplexer have reported connectivity problems during system setup.

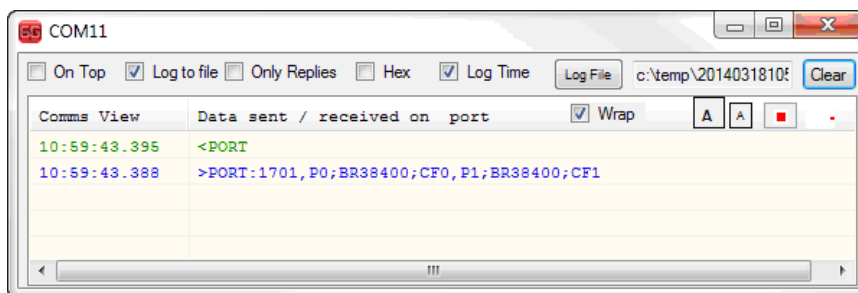
When connected directly to a ROVNav 6 through a serial port, Fusion has control of the ROVNav 6 port settings and is able to change the communication baud rate to the user's chosen settings. Fusion sends serial breaks to the ROVNav 6 as part of this process.

When connecting to the ROVNav 6 through a multiplexer, the port's baud rate may be fixed and it is often not possible to successfully send a serial break. Fusion will interpret this as a loss of communications with the ROVNav 6 and raise an error message.

The solution to this is to manually configure the baud rates of the ROVNav 6 and Fusion serial ports to match the fixed rate of the multiplexer, and to inhibit serial breaks within Fusion's serial port settings.

Solution:

1. Directly connect to the ROVNav 6 using the 6G test box and 6G Terminal Lite software as per section 4 of the ROVNav 6 user manual UM-8310-B1.
2. In the manual commands tab, send the PORT command to establish the current port settings. Baud rate is denoted by the BR parameter.



6G Terminal Comms Viewer

3. If the ROVNav 6 baud rate differs from the fixed baud rate of the multiplexer, change the baud rate of the primary port (P0) to match by using the following command:

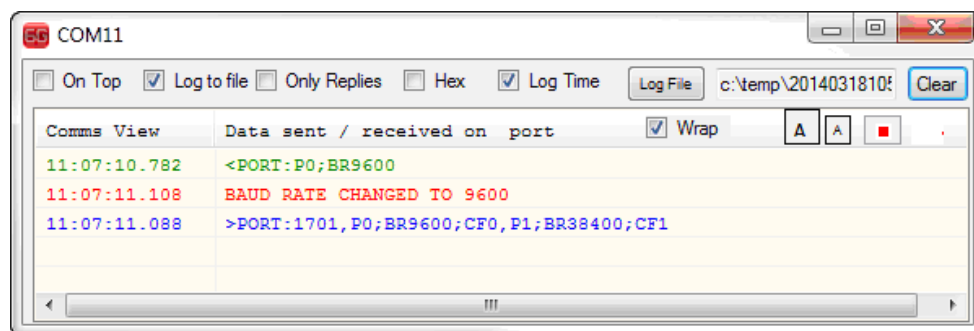
```
PORT:P0;BRxxxxxx
```

Where xxxxxx is the required rate. Available baud rates are:

4800
9600
19200
38400
57600
115200

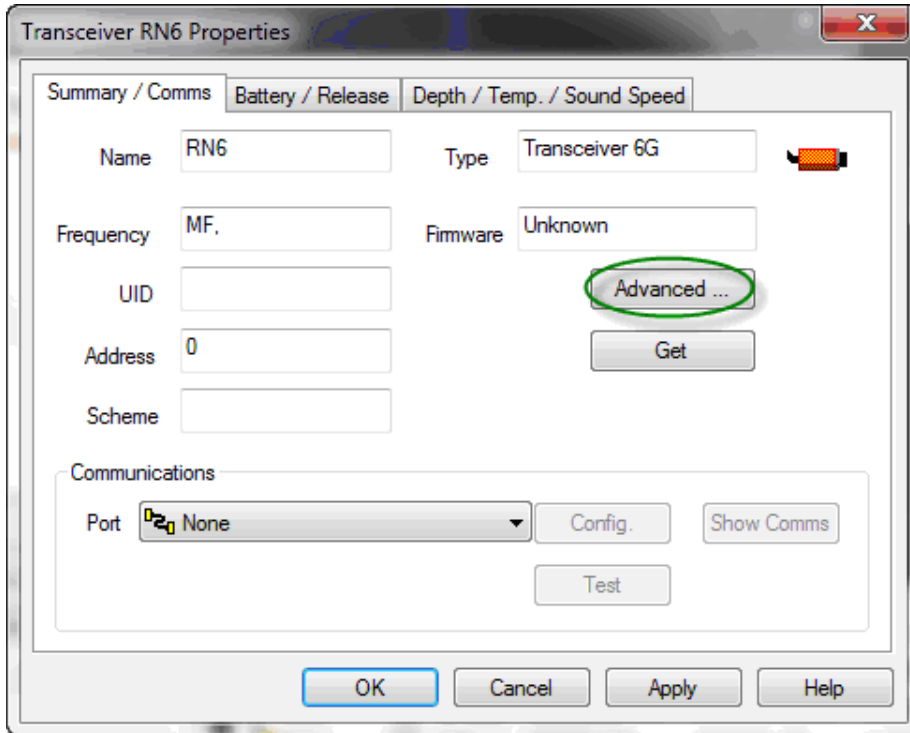
For example, to change the baud rate to 9600, use the command:

```
PORT:P0;BR9600
```

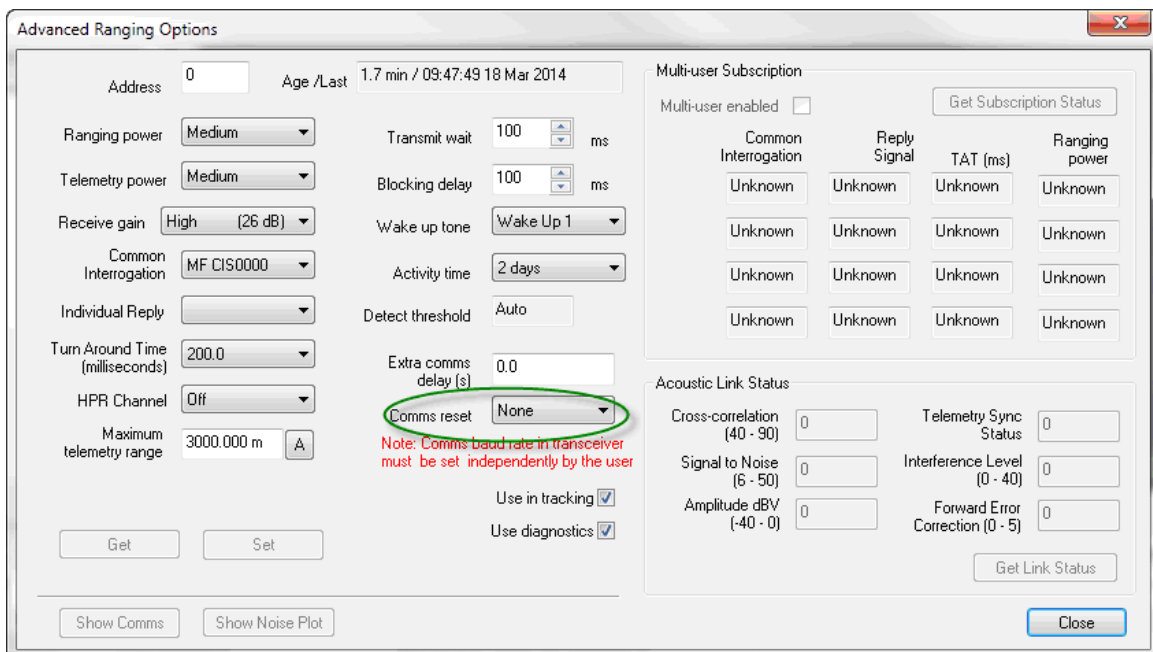


The reply from the ROVNav 6 will confirm that the change has been made successfully. The 6G Terminal Lite software will automatically change the baud rate so that communications can continue.

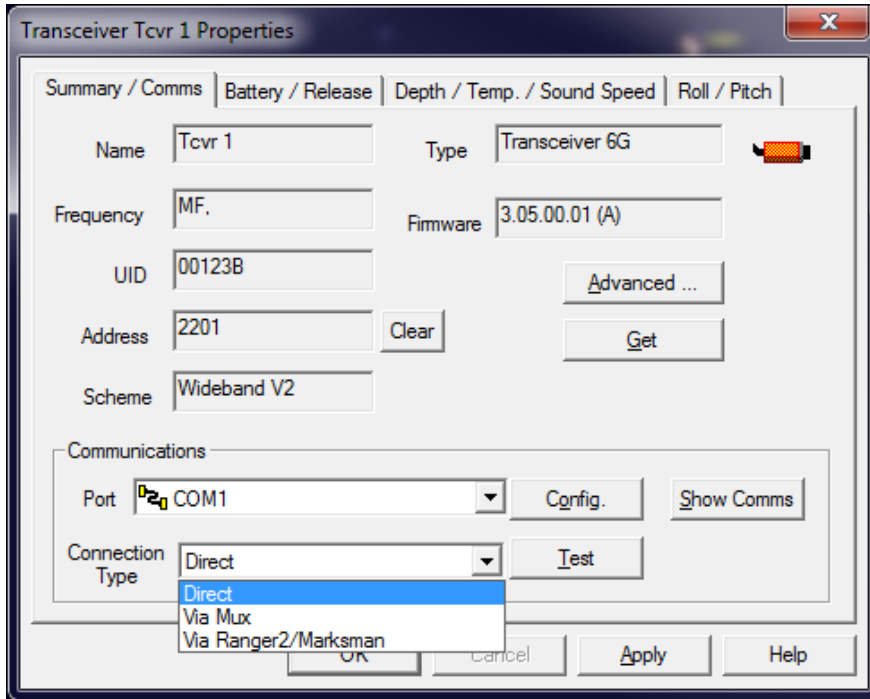
4. In the Fusion software, add the ROVNav 6 to the job as a **Transceiver 6G**, as per normal procedure.
5. If using version of Fusion earlier than V1.12.02, **before** choosing a communications port, click on the **"Advanced"** button.



6. In the "Comms reset" drop-down list, select "None" and close the dialog.

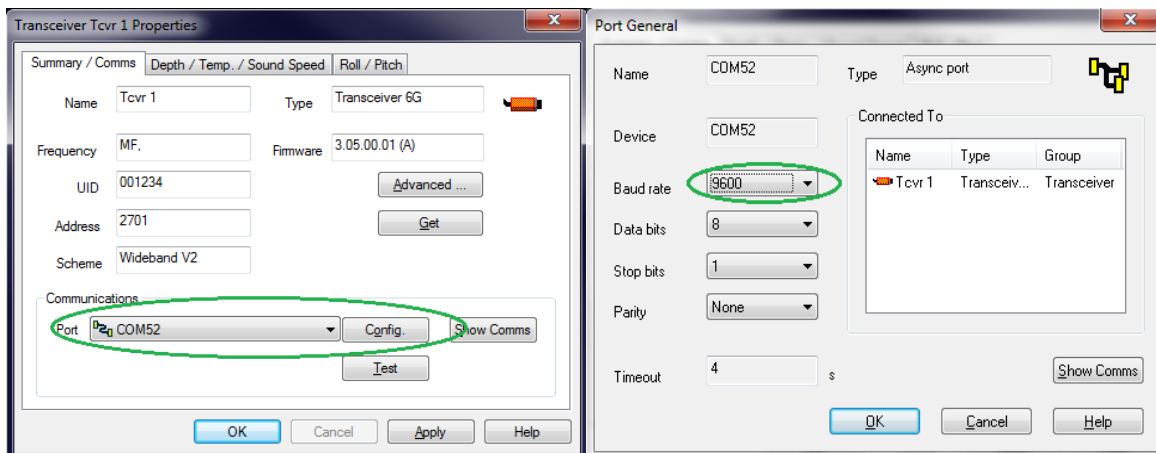


If using newer versions of Fusion (V1.12.02 and onward), the option to select connection type has been added:

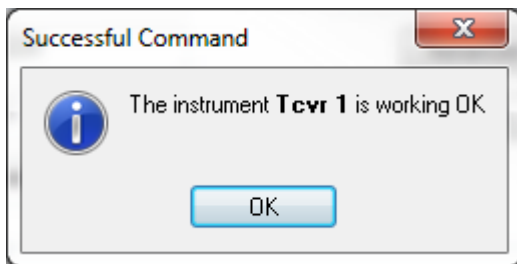
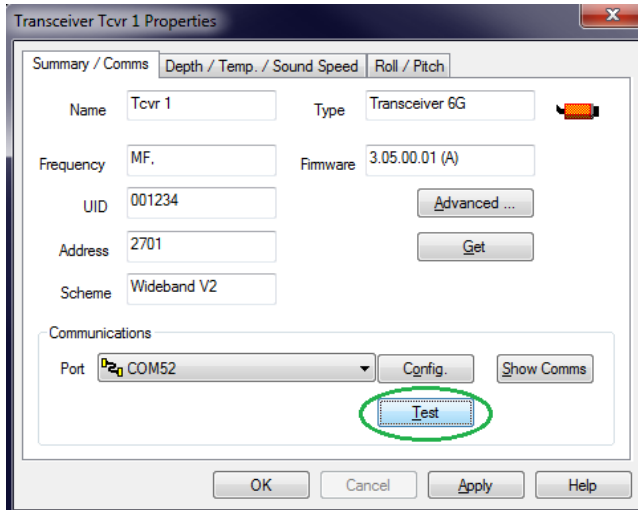


By selecting "Via Mux" the "Comms reset" option defaults to "None".

7. Select the correct Communications port and click "Config." Choose the correct baud rate to match the multiplexer and click OK.



8. Physically connect the ROVNav 6 and test the communications using the "Test" button. Communications should function as normal.



As long as the correct baud rate is selected to match the mux baud rate, and 'Via Mux' is selected as the connection method (Fusion V1.12.02 or later), the baud rate should remain set.

Should you require any further clarification please contact customer support on support@sonardyne.com or +44 1252 877600

END