Using the NTRIP Caster on an iG9 Receiver

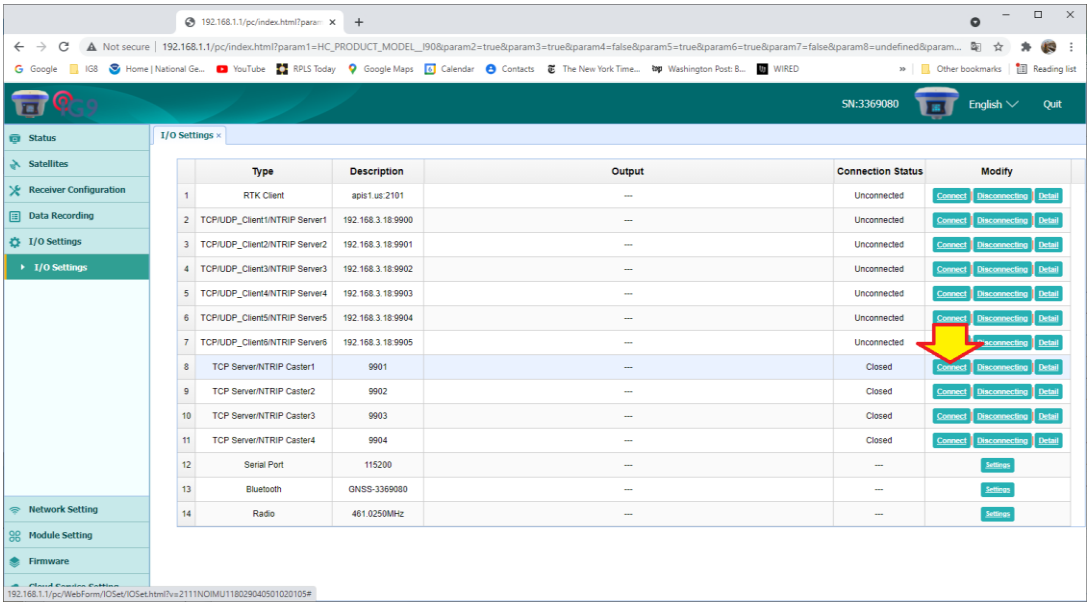
Date: 8 October 2021

Thesis

Configure the internal NTRIP caster on an iG9 to broadcast corrections via a Wi-Fi connection.

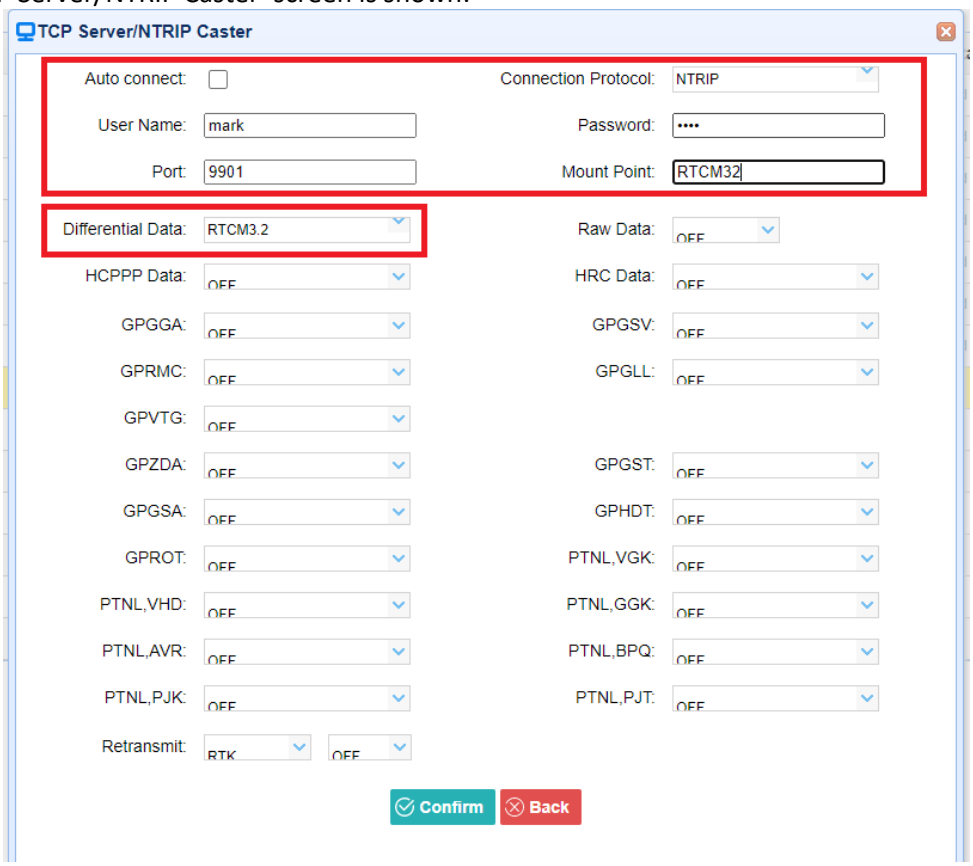
Setup

Connect to the iG9 using the Wi-Fi interface using the instructions in the iG9 User Manual. After you log in it will look like this:



Click on the ‘Connect’ button for one of the NTRIP Casters as shown above.

The 'TCP Server/NTRIP Caster' screen is shown:

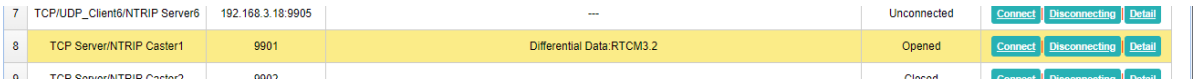


Set:

Connection Protocol	NTRIP
User Name and Password	(something clever, I used 'mark' for both above)
Port	unused, 9901 is a reasonable choice
Mount Point	name the mount point to match the correction message type
Differential Data:	usually RTCM3.2

Click on Confirm.

The port will now display as 'opened':



Configuration is complete and will remain available/active until you change it or do a factory reset on the head.

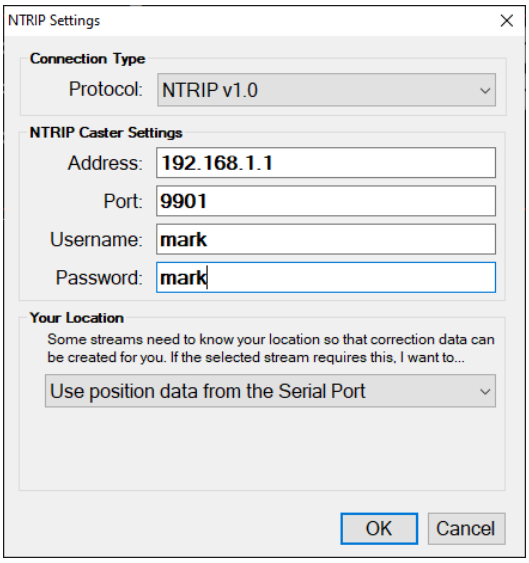
Configure the Receiver as a Base

Setup the head as a Base using Carlson SurvCE/SurvPC, X-PAD, Field Genius, LandStar7 or the Web interface directly.

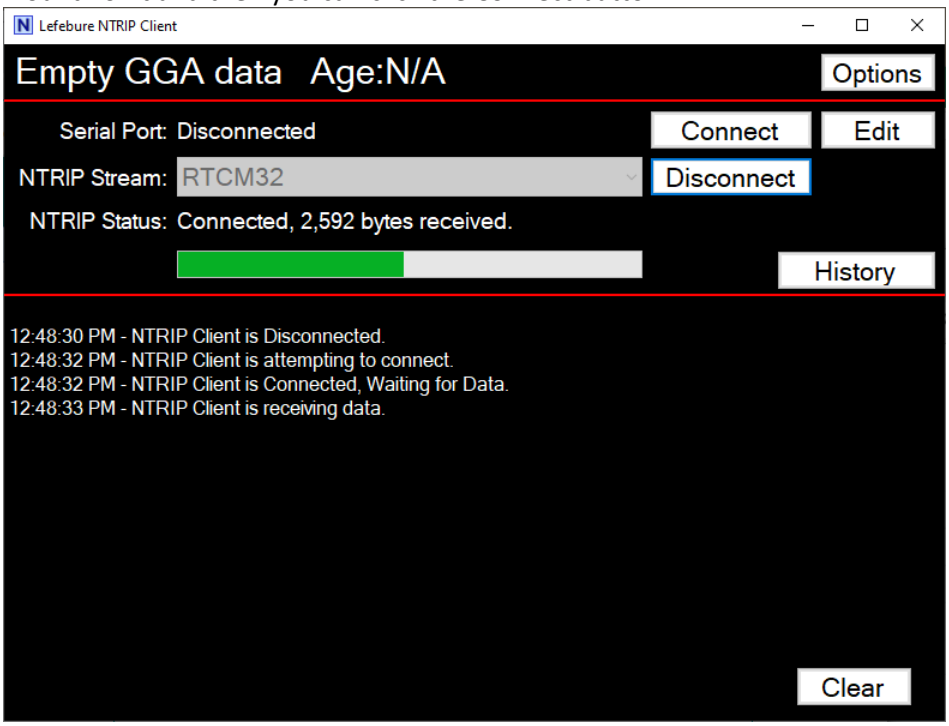
The Base position that you enter when configuring the receiver as a Base must be within 500 meters of it's true location and it would be best if it is correct if you don't want to have to correct the UAV positions later.

Check Configuration

I like to use the *LaFebure NTRIP Client* to test the connection. Here is how to setup the client to connect to the head, here is the configuration for the setup above:



Once configured download the mount table (the only entry will be 'RTCM32'), select the NTRIP Stream Mount Point and then you can click the Connect button:



Correction data will begin streaming. Congratulations, any device that connects to the head will have access to the correction stream.