



NMEA to Signal K Gateway

How to Use iKommunicate's WebSocket Logger

When you first install iKommunicate on an NMEA network, it is not always clear what data is available on the network and what data is converted by iKommunicate. Also, if you then find that a Signal K App is not displaying all of the data you expected or it is displaying the data wrongly, it is useful to be able to log the Signal K WebSocket data.

To make things easier, we developed a WebSocket Logger program that will display and log the Signal K WebSocket data "Deltas" and also display all of the Signal K data objects that are being created.

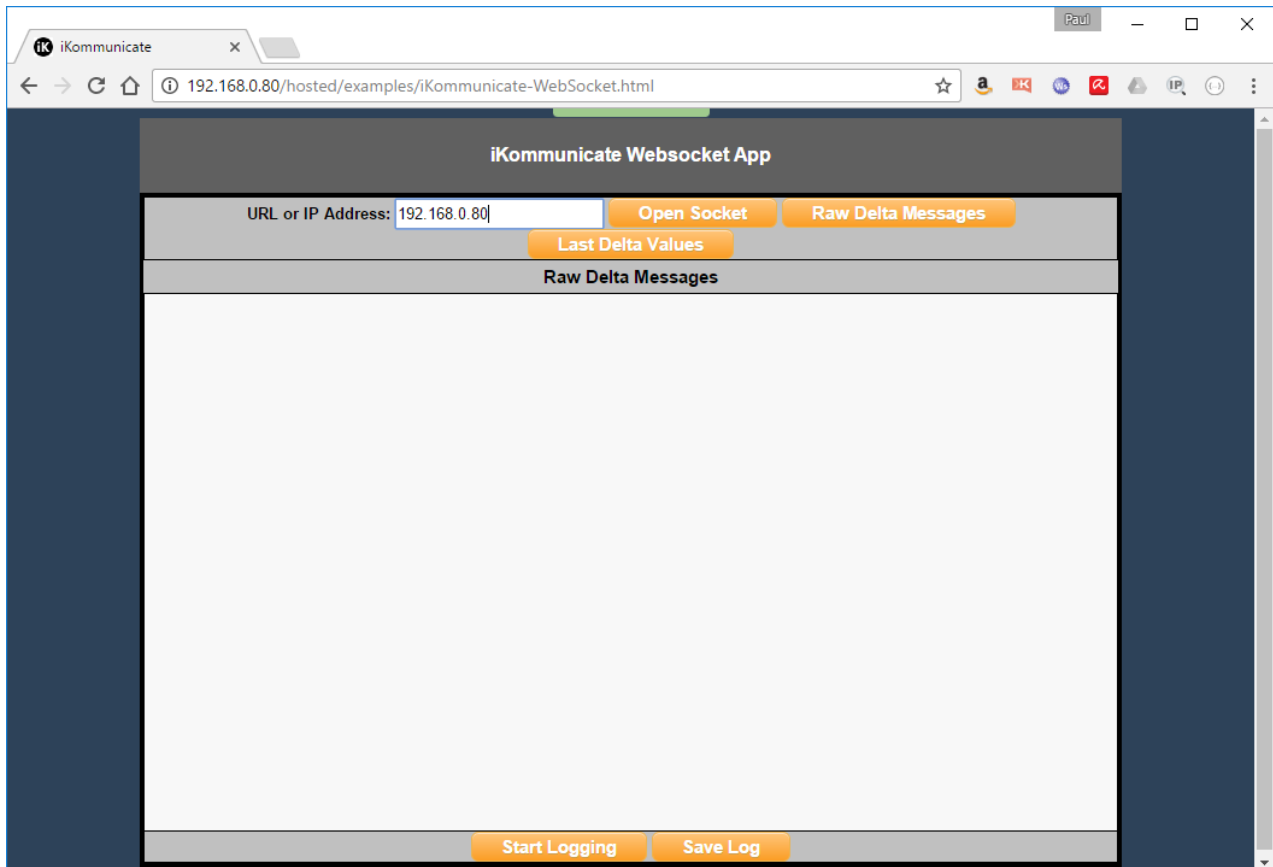
1. Running WebSocket Logger

WebSocket Logger is a JavaScript App that is stored in the "Hosted" folder of the iKommunicate micro SD Card. To run it, open your web browser and go to

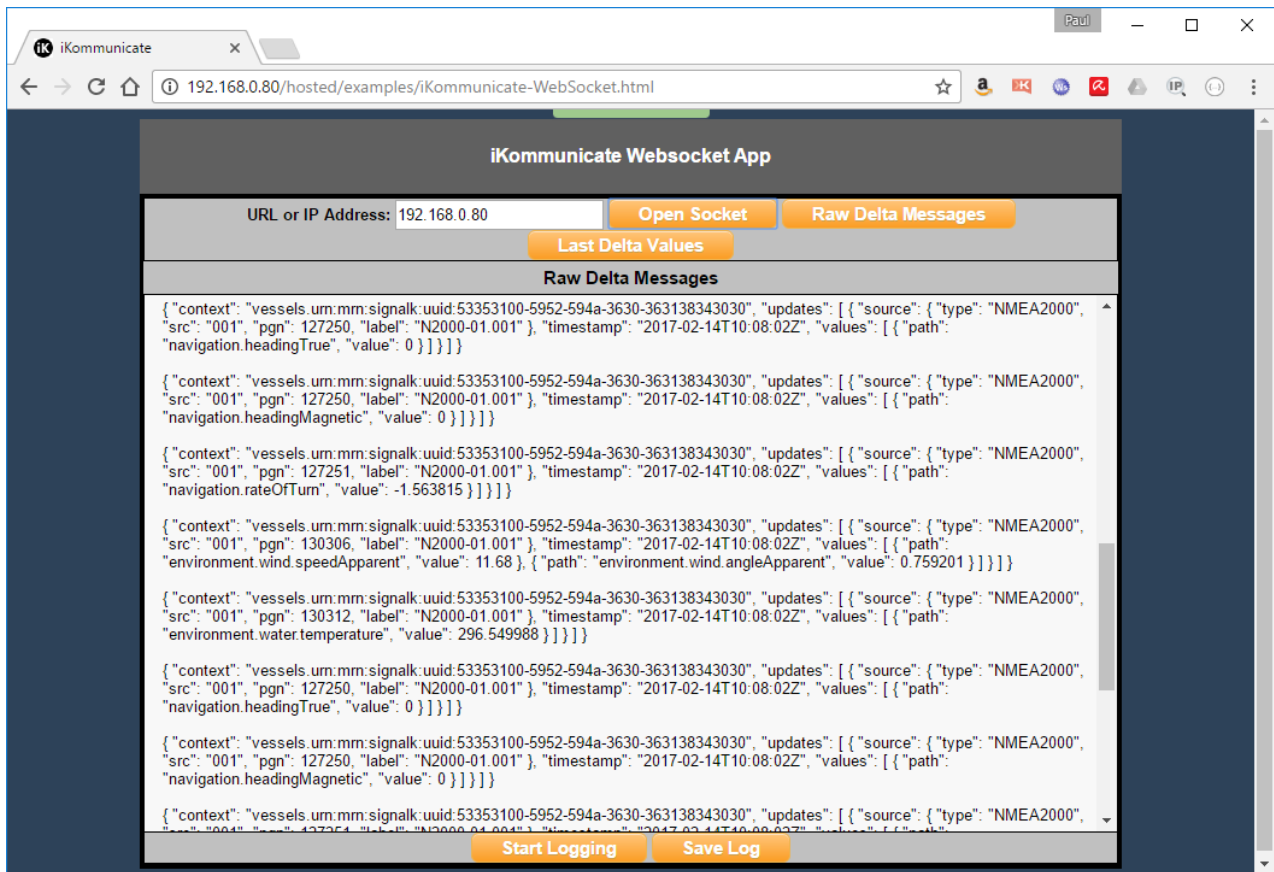
<http://<ip>/hosted/index.html>

Where <ip> is the IP address of your iKommunicate unit.

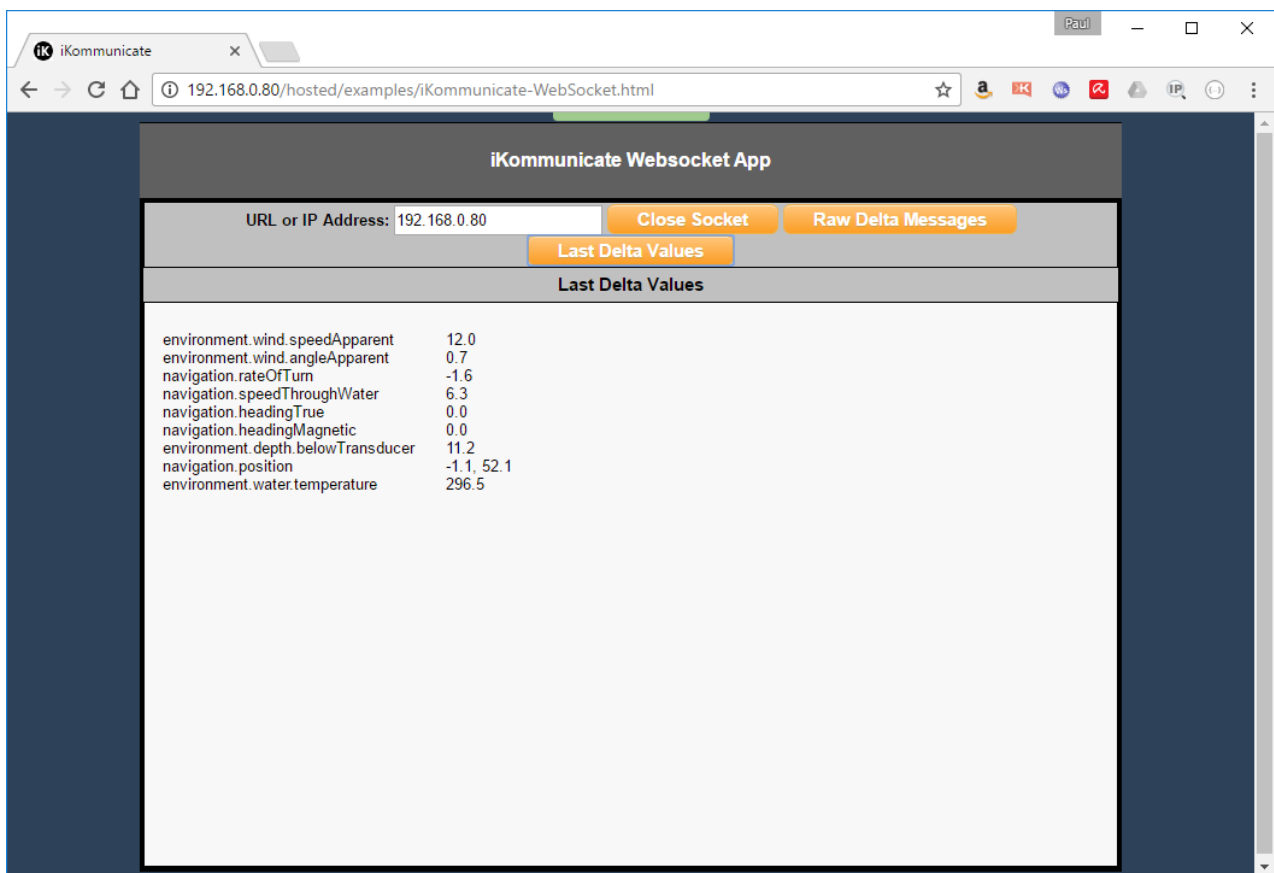
This will display the window shown below. Type in the IP address of your iKommunicate and then click the "Open Socket" button to displaying the Signal K "Delta" messages that iKommunicate is creating.



The "Delta" messages will probably scroll down the page quite fast, so if you want to read any of the messages, click the "Close Socket" button to stop the screen scrolling and you can use the vertical page slider to look for the message you are interested in.



If you wish to see the actual data values of each “Delta” message, click the “Last Delta Values” button and you will see a list of all the Signal K objects so far received and the value of each one will be constantly updated.

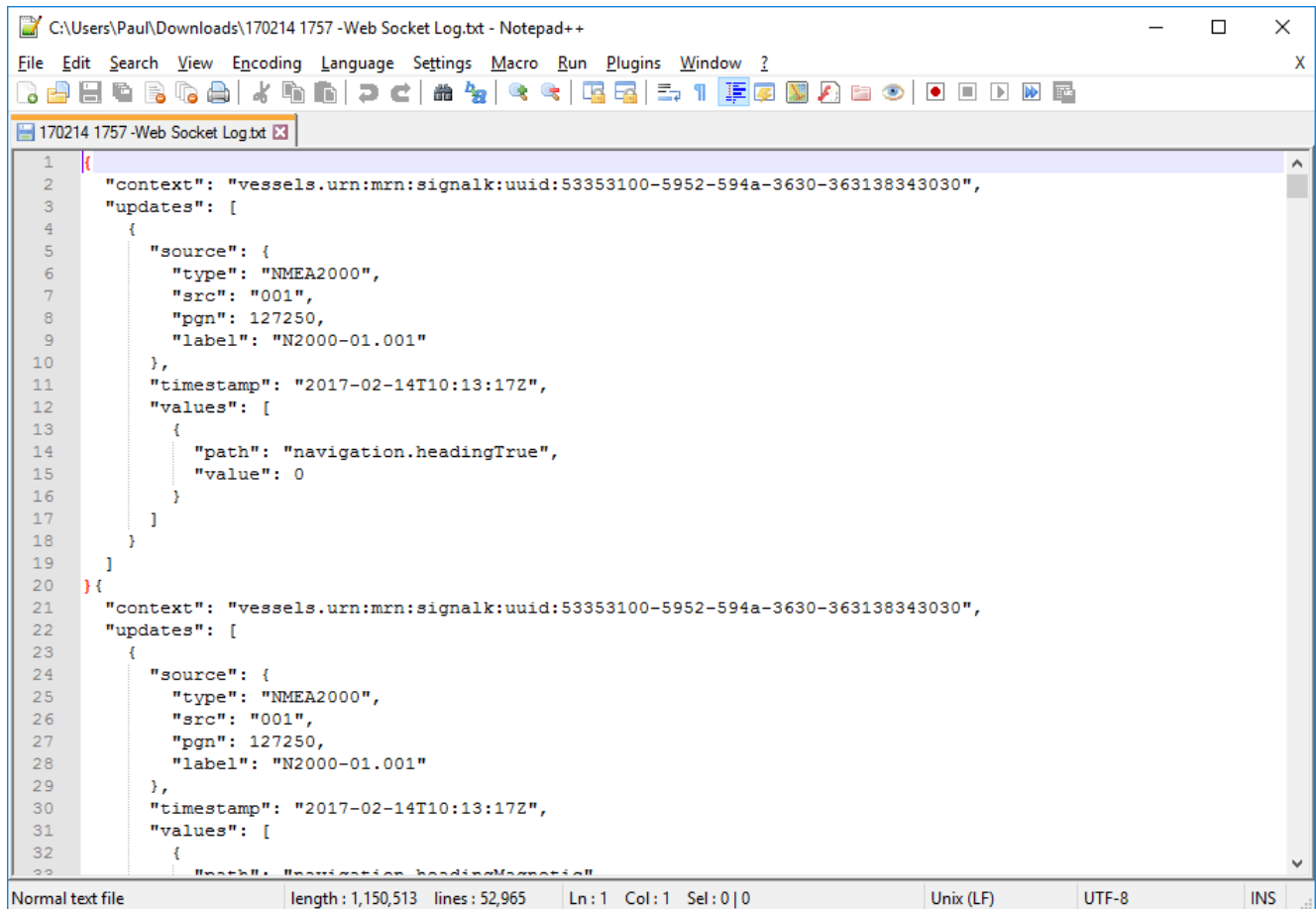


To go back to the scrolling “Deltas” page, click the “Raw Delta Messages” button.

2. Logging the WebSocket data

To start logging the "Delta" messages, simply click the "Start Logging" button. The button will change to "Stop Logging" to indicate that logging is taking place. Once you have enough data, click the "Stop Logging" button and then click the "Save Log" button, to download and save the log file

In your downloads folder, you should now have the new log file. The logged data is in JSON format which can be difficult to read when it is in Raw (unformatted) form. Use a programming editor like Notepad++ or Atom to open the file and then you will be able to read it much easier.



```
1 {
2   "context": "vessels.urn:mrn:signalk:uuid:53353100-5952-594a-3630-363138343030",
3   "updates": [
4     {
5       "source": {
6         "type": "NMEA2000",
7         "src": "001",
8         "pgn": 127250,
9         "label": "N2000-01.001"
10      },
11      "timestamp": "2017-02-14T10:13:17Z",
12      "values": [
13        {
14          "path": "navigation.headingTrue",
15          "value": 0
16        }
17      ]
18    }
19  ]
20 }
21 {
22   "context": "vessels.urn:mrn:signalk:uuid:53353100-5952-594a-3630-363138343030",
23   "updates": [
24     {
25       "source": {
26         "type": "NMEA2000",
27         "src": "001",
28         "pgn": 127250,
29         "label": "N2000-01.001"
30      },
31      "timestamp": "2017-02-14T10:13:17Z",
32      "values": [
33        {
34          "path": "navigation.headingMagnetic"
```

Normal text file length: 1,150,513 lines: 52,965 Ln: 1 Col: 1 Sel: 0 | 0 Unix (LF) UTF-8 INS

If you have any questions or ideas to improve WebSocket Logger please email support@digitalyacht.co.uk

[Signal K enabling the "Internet of Things Afloat"](#)