

RaceData3 Bridge User Guide

Deliver Expedition data over WiFi to Apple Watches

Overview

This application bridges Expedition sailing software to RaceData3 on Apple watchOS smartwatches to receive real-time sailing data.

Step 1: Install the App

- Download the windows app from www.fielddyachting.com/racedata2
- Install and run the application

Step2: Configure EXPEDITION:

- In Expedition set up a Network port with the following settings:
 - **Instruments:** Expedition
 - **Connection:** TCP server
 - **Port:** 5010 (default)
 - In Instruments: Expedition: Expedition settings
 - Exp Rx Filter: Click "Clear All"
 - Exp Tx Filter: Select the channels you want to send to watches, and select "Send damped" to use the Expedition damped values

Step 3: Configure RaceData3 Bridge

- Expedition IP:
 - Use 127.0.0.1 if running on the same computer as Expedition Else enter the IP address of the PC running Expedition
 - TCP Port: 5010 (must match Expedition's TCP server port)
- RD3 API IP:
 - Use 0.0.0.0 to listen on all network interfaces
 - Port: 5001 (default)
- Click "Start" receive data from Expeditions TCP port.
- View Statistics to see TCP data channels received and API requests from your Apple Watch (After setting up your watch)

Step 4: Set up your Apple Watch

- On your watch in RD3
 - scroll down when Exp API is selected
 - Enter the IP address of the Expedition computer
 - Set the Port to match this application

You may toggle between using the RD3 Bridge and iPhone to serve data to your Watch.

TROUBLESHOOTING

- If the RD3 API is not accessible from other devices:
 - Check Windows Firewall settings are not blocking the TCP port.
 - See below or
 - In RD3 Tools menu, select "Configure Windows Firewall"
 - Ensure the computer and watch are on the same network

- Verify the RD3 API IP is set to 0.0.0.0 (all interfaces)
 - Check that port 5001 is not blocked or in use
- If not receiving data from Expedition:
 - Verify Expedition's TCP server is enabled and running
 - View Raw data in the Expedition Network port used for RD3 TCP data
 - Check the TCP port matches in both applications
 - Ensure Expedition is outputting data (check Expedition's data displays)

WINDOWS FIREWALL SETTINGS

If external devices cannot connect to the RD3 API, you may set a Windows Firewall rule in the Tools menu, or manually:

1. Open Windows Defender Firewall with Advanced Security
2. Click "Inbound Rules" in the left panel
3. Click "New Rule..." in the right panel
4. Select "Port" and click Next
5. Select "TCP" and enter port 5001 (or your configured port)
6. Select "Allow the connection" and click Next
7. Check all profiles (Domain, Private, Public) and click Next
8. Name the rule "RaceData3 Bridge" and click Finish

SUPPORT

For issues and feature requests, contact Field Yachting Ltd.

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