

iDataNet user manual

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INSTALLING iDATANET

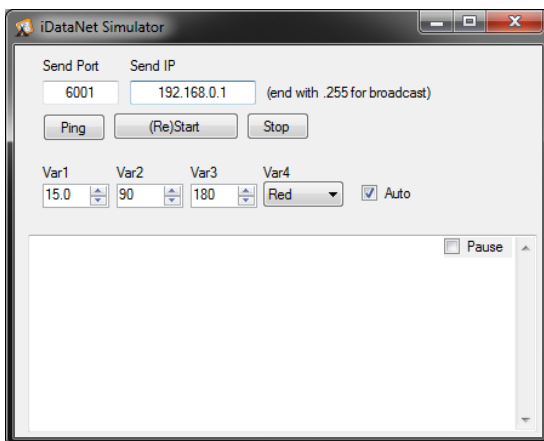
iDataNet can be installed on an iPhone/iPad following the link to the iTunes store on our website:
<http://www.sailingperformance.com/iDataNet.html>

PREREQUISITES

In order to get the iDataNet app working it must be receiving a stream of data over the network. See below for the specification of the data stream protocol. iDataNet is compatible with Deckman for Windows, Expedition and Adrena software used as data senders (sailing applications). You may try iDataNet out by using our windows iDataNetSimulator.

iDataNetSimulator

iDataNetSimulator can be downloaded under the 'Misc Tools' section of our download page
<http://www.sailingperformance.com/Download.html>



Unzip it, save the executable on your PC, run it and accept any warning messages.

Type in the IP address of your iPhone/iPod ([how do I find out my IP address?](#)). If you are sending data out to multiple devices end the IP address with 255 (ie: 192.168.0.255) for broadcast mode. Leave the port number to 6001 as this is the default port on iDataNet.

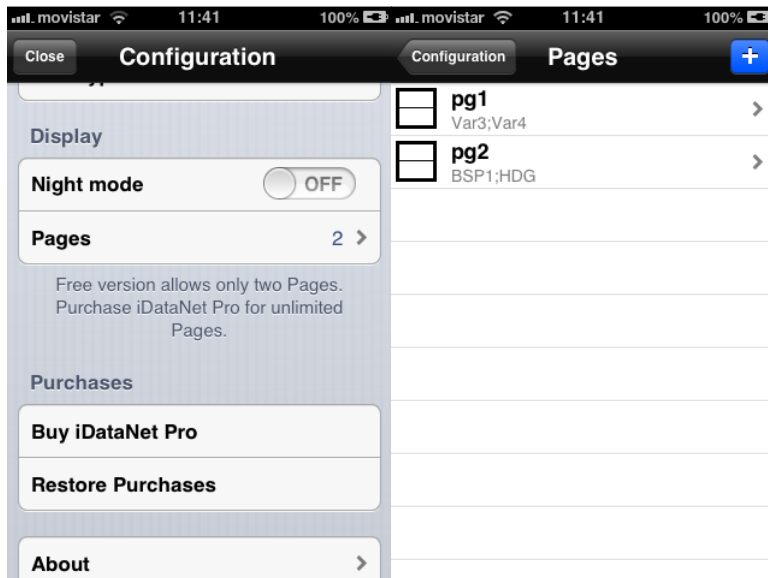
Click the (Re)Start button. Your iDataNet app should now be receiving data.

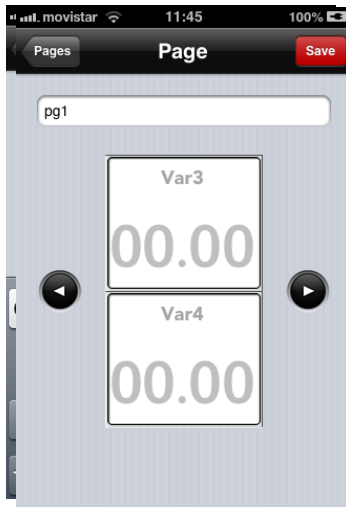
CONFIGURING iDataNet

Launch the app from your iPhone/iPad. When you get to the first screen click on the configuration button (top left of the screen). Click on the 'Start listening' button. If you are receiving data correctly the 'Data types found' should display the number of variables it is receiving.



Scroll down and click on the 'Pages' button. Then click on the first of the two default pages (pg1). Note that until you get the in-app purchase you will only be able to modify the two default pages, not add any new ones.





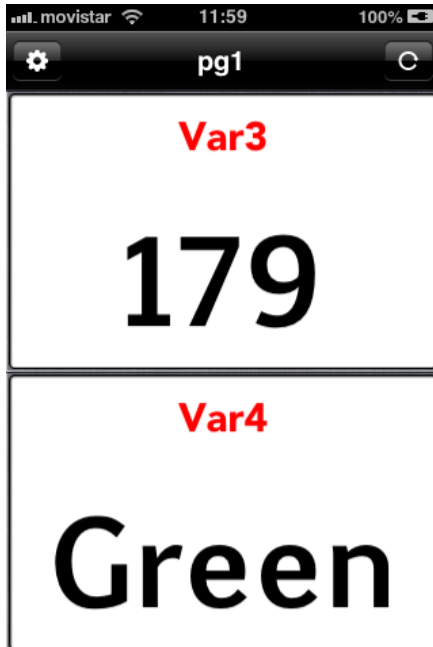
You can now change the name of the default page 1. Once you typed the name in, click on the grey area of the screen to hide the keyboard.

Flick through the arrows to select how many displays you want on this page and how you want them setup. Note that until you get the in-app purchase you will only be able to select one or two displays on the page.



Once selected the display arrangement keep your finger pressed on one of the displays until the variables selector appears. Select the variable you wish to see. Do the same for the other displays on this page.

Once you are all done click on 'Save' and get out of the configuration pages.



You now need to select the page you have just configured. Do this by keeping your finger pressed on the title of the currently displayed page ('pg1') until you get to the page selector. Select the page. You should now see the stream of data coming through.

Note that you can set a 'time out' period in the configuration page. If no data is received for that amount of time (eg: 10 seconds) then the display goes grey to indicate that the data displayed is expired.

SENDING DATA TO iDATANET

iDataNet has been designed so that anyone with basic programming abilities may send data to it. The data stream is to be sent over the network (LAN or WiFi) by UDP. Each sentence sent should have the following format:

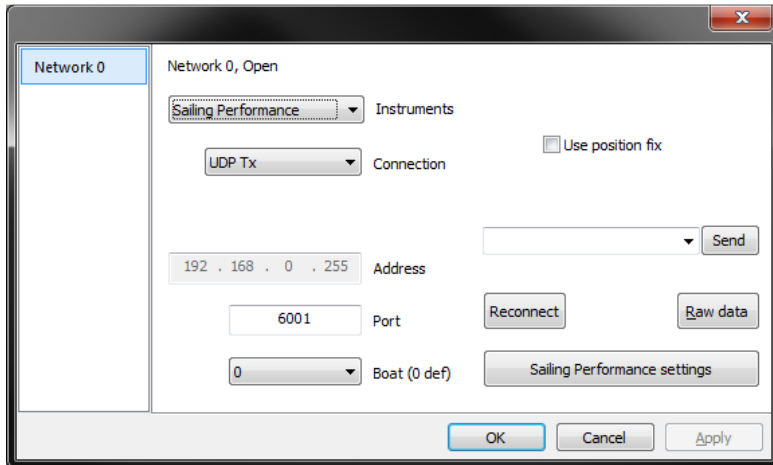
```
iDataNet@LABEL1;VALUE1@LABEL2;VALUE2@LABEL3;VALUE3 etc ...
```

You can send as many variables as you want at any frequency (limited by your device's capacity and battery). The values may be numbers or characters. They must not contain characters @ or ;. The sentence should end with CR/LF characters (carriage return/line feed). Here are samples of valid sentences:

```
iDataNet@temperature;56.8  
iDataNet@val1;56.8@val2;58.9@ val3;28.4@ val4;100  
iDataNet@direction;up@colour;blue  
iDataNet@Temp;56.8@time;11:00:53@mode;high
```

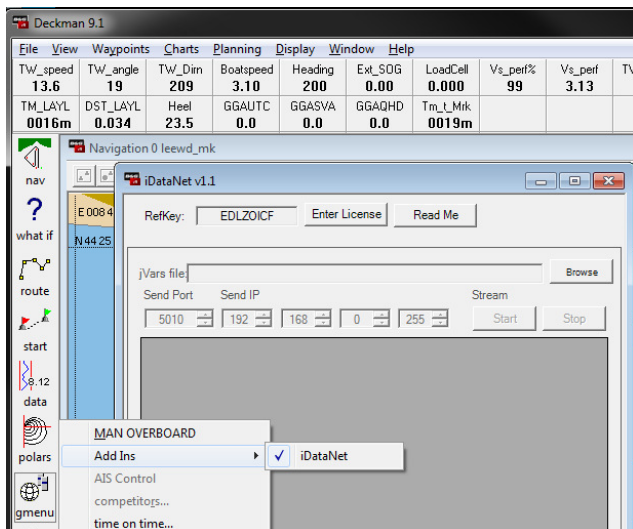
CONFIGURING EXPEDITION TO SEND DATA TO iDATANET

- From Expedition, click menu->Instruments->Number of Network connections
- Make sure there is at least one, or add one if others are already in use
- From Expedition, click menu->Instruments->Serial and Network ports
- Configure as follows:



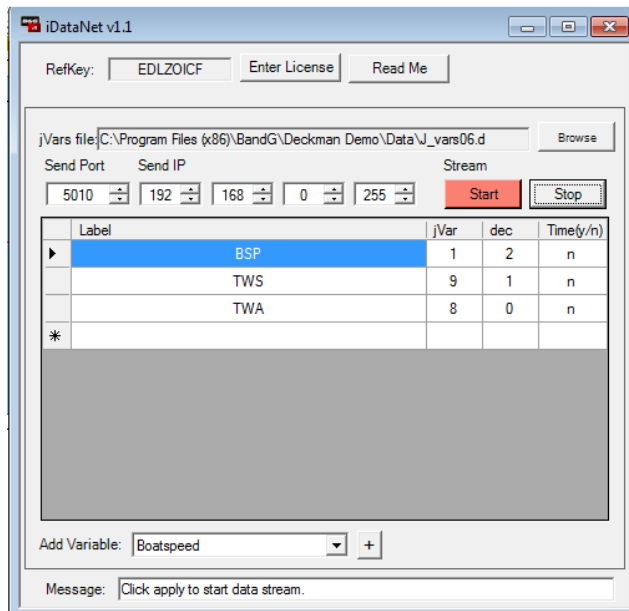
- Click on 'SailingPerformance settings' and select the variables you want to send to iDataNet
- Click ok. You might need to restart the Expedition software for this to apply.

CONFIGURING DECKMAN FOR WINDOWS (DfW) TO SEND DATA TO iDATANET



- To get DfW to send data to iDataNet you will need to download the SailingPerformance DfW iDataNet addins.
- Get the one corresponding to your DfW version from the 'Misc Tools' section of our download page: <http://www.sailingperformance.com/Download.html>

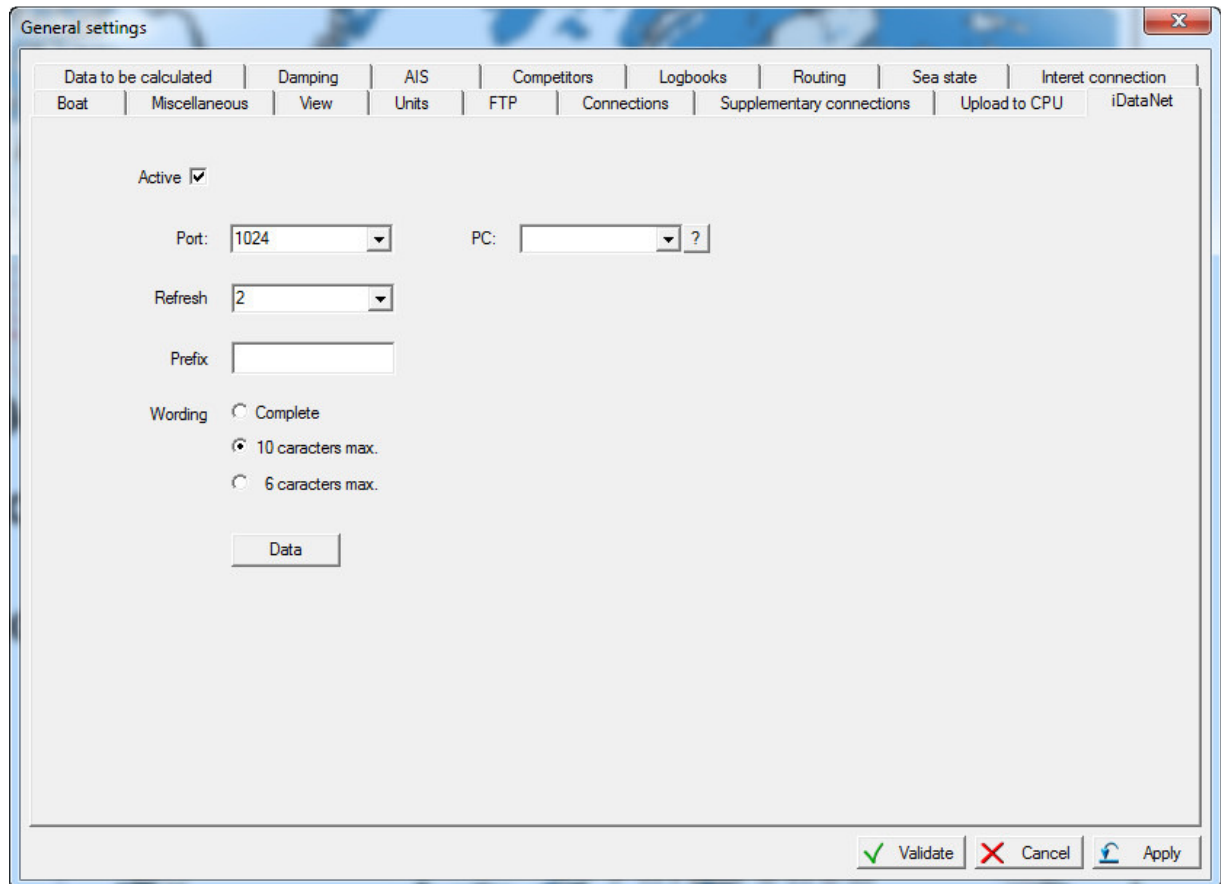
- Place the addins in the DfW Addins folder. The Addins folder should be in the installation folder of DfW, similar to
C:\Program Files (x86)\BandG\Deckman C-Map\Addins
- Start DfW
- Click on the sidebar icon Gmenu->AddIns->iDataNet
- You will now need to license the AddIns by emailing us with the REF KEY at info@sailingperformance.com
- Once you receive a trial license click on the 'Enter license' button and follow the instructions
- The next step is to specify the path of the 'J_vars06.d' file by clicking on the 'Browse' button and locating it. This file contains the definition of all Deckman variables and should be located in something like:
C:\Program Files (x86)\BandG\Deckman C-Map\Addins
- Once entered you will be able to select and configure which variables should be output to iDataNet
- At the bottom of the window select which variables you want to add and click on the '+' button



- This will add variables in the table. You can modify the label which will appear in iDataNet by double clicking in the label's cell and editing it
- You may change the number of decimals to display for this variable in the same way
- If this variable corresponds to a time (eg: time to layline) make sure the Time column is set to y for yes.
- Now set the UDP port (6001 for the default iDataNet port) and to the IP address of your device (end with 255 if you are sending to multiple devices)
- Click Start.
- Data should now be streaming in iDataNet
- You should now backup a version of the 'iDataNet.ini' file situated in the same folder as the AddIns to which you will be able to go back to if for some reasons you run into problems

CONFIGURATION IN ADRENA :

To set the application iDataNet in the navigation software Adrena, just go to menu Settings > general settings > folder iDataNet and fill in the information requested (Port, PC, Wording, data...).



Port: sets the UDP port to be used for sending data. This must be the same as the one set in iDataNet®.

PC: definition of the network address of the machine receiving data. Data can be sent to all devices on the network by choosing "all".

Refresh: Percentage of updated information sent per second.

Prefix: Allow to add before the label a prefix to identify the senders when several boat's data are collected in the same device.

Description: Description of the data sent. Entries can be made in full or reduced to 6 to 10 characters.

Unit: Choice of where the units of data are displayed. The units can be entered with the description or with the values.

Data: select the data sent by Adrena.

Too many data sent on the network would impact the information flow quality. That is why all data are not sent but only the ones picked up by the user.

For all inquiries please contact: info@sailingperformance.com