

# Technical Bulletin 033

09/01/2020

## ATB1 Class B AIS Firmware Update



### Introduction

New Firmware is now available for the Ocean Signal Class B AIS Units:

Version: 1.3.00 adds new features and correct minor bugs in earlier versions.

To access new features Mobile and Web Applications have been updated:

- Web: [www.oceansignal.com/ais\\_webapp.html](http://www.oceansignal.com/ais_webapp.html)
- Android: From the Playstore Version: 1.4.4
- iOS (Apple): From the Appstore Version: 1.2.6

### Recommendation

All owners of the Ocean Signal ATB1 are recommended to update the firmware to access the new features included with the updated App's. All distributors and dealers holding stock of these units purchased prior to the release of this note are recommended to update stock prior to reselling.

### Where to find it

[www.oceansignal.com/software-updates/](http://www.oceansignal.com/software-updates/)

### Update Procedure

	Installed Unit	Boxed Unit
1	Download the zip file and unzip it to a USB stick* (Do not drag the entire folder)	Download the zip file and unzip it to a USB stick* (Do not drag the entire folder)
2	Ensure the systemb.bin file is in the top level directory and not in a folder	Ensure the systemb.bin file is in the top level directory and not in a folder
3	Power down the ATB1	Remove the ATB1 unit, USB On-the Go cable and power cable from the box
4	Connect the USB stick to the ATB1 using the USB on-the-go cable supplied	Connect the USB stick to the ATB1 using the USB on-the-go cable supplied
5	Power up the ATB1	Connect the power cable to a 12V dc Power Supply or battery
6	The LED will flash amber then green 6 times then turn to flashing red	The LED will flash amber then green 6 times then turn to continuous red
7	After a short wait (while the GPS obtains a fix) the LED will turn green	Disconnect the power supply
8	Press and hold the LED button for 10 seconds (until it flashes Amber) to eject the USB stick	Remove the USB cable and stick
9	It is now safe to remove the USB stick	Return the ATB1, USB On-the-Go cable and power cable to the box
10	The ATB1 will return to normal operation	

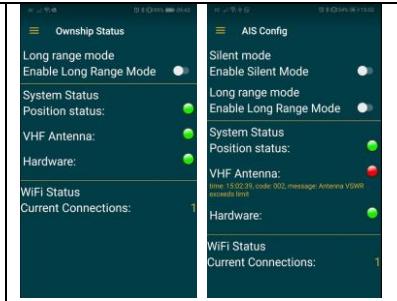
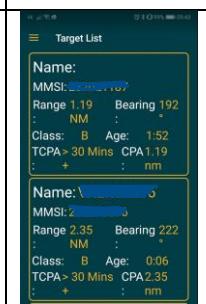
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### New Run Mode Feature Details

New Diagnostic display	Easier to read and understand to check GPS fix, VSWR and internal hardware as well as see how many WiFi devices are connected	
Own Ship information	Check your own position COG and SOG as received by the AIS Transceiver	
Received Target list*	See instantly what other vessels are close by	
Received Target details*	See all the details of each received vessel	
Audible Alarm*	Set details for CPA and TCPA audible alarms	

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Connected instrument data*	Display instrument data being received via NMEA0183 or NMEA2000	A screenshot of a mobile device screen showing instrument data. It includes sections for HEADING (169° TR HED), SPEED (WATER) (10.00 Kn), HEADING (169° M HED), WIND DIRECTION AND SPEED (Direction: 085°, Wind Speed: 7.97 Kn), and WIND SPEED AND ANGLE (Speed: 8.00 Kn, Angle: 85°, App STBD).
MOB Device Management*	Register your AIS MOB1 devices to create Audible MOB alarms	A screenshot of a mobile device screen titled "Mob Management". It shows a list of registered devices: MOB1 and M100. Each device entry has "EDIT" and "DELETE" buttons.
Unit selection*	Be happy that your data is displayed and entered in a format you understand	A screenshot of a mobile device screen titled "Unit Selection". It lists various unit conversion options: Speed (Kilometres per Hour, Metres per Second, Knots, Miles per Hour), Depth (Metres, Feet, Fathoms), Distance (Kilometers, Miles, Nautical Miles), and Temperature (Centigrade, Fahrenheit).

## New Configuration Features

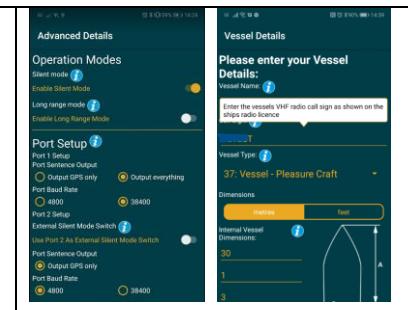
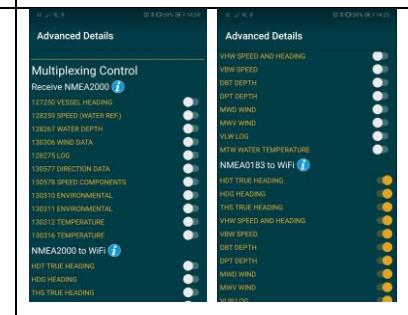
External Silent Mode Switch	Added the ability to use NMEA0183 port 2 to connect an external switch to activate Silent Mode	A screenshot of a mobile device screen titled "Advanced Details". It shows configuration for "Operation Modes" (Silent mode, Long range mode) and "Port Setup" (Port 1 and Port 2 settings, including baud rates and output types).
Notification of firmware updates	You will never miss another one	A screenshot of a mobile device screen titled "MMSI Details". It shows "Your Device details" (Model Number: ATB1, Firmware Version: 2.1.3.00, Serial Number: 1234567890) and a "New Firmware" notification box. The box states: "There is a software update available for your product, please visit www.oceansignal.com to update your product." It includes "OK" and "REQUEST AUTHORISATION" buttons.

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Additional information points	No need to refer to the manual, each configuration point is described fully	
Advanced configuration*	Allows detailed selection of received data being multiplexed to the WiFi output	

All screenshots taken from an Android mobile phone

\*Not included with iOS at this stage

## Updates and Fixes

Fix	Intermittent NMEA 2000 dropout	
Fix	WiFi instability during multiple device connection	
Added	New NMEA2000 PGNS	
Added	NMEA2000 and NMEA0183 Multiplexing to WiFi	

**Distribution:** Distributors, Dealers, End Users