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MarineStar Firmware Upgrade User Guide

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Revision History:

Rev No.	Date	Prepared by	Reviewed By	Change History
1.0	31-08-2020	Raveendranath Gouni	Goutham Kumar Sunkara	Initial release
1.1	04-10-2021	Raveendranath Gouni	Goutham Kumar Sunkara	Added step 7.



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1. Objective

The main objective of this document is to guide user, how to upgrade MarineStar manually.

2. Basic Information

Product Name: Thuraya MarineStar Manufacturer: APSI, South Korea.

Firmware Changes:

Set#	Group#	Languages
S1	1	English, Chinese (Exclusive to PTAC, China)
S1	2	English, Vietnamese (Exclusive to VTC, Vietnam)
S1	3	English, Bahasa and Tagalog
S2	5	English, Arabic, French and Turkish

Commercial Version:	MNB_1.2_S1_TH	Released on 25-01-2021
Commercial Version:	MNB_1.2_S2_TH	Released on 07-07-2021

Hardware Changes: Nil.

2. Introduction

The MarineStar is an affordable and robust voice satellite terminal with tracking and monitoring capabilities. The terminal is easy-to-install and user-friendly enabling satellite voice calls to landlines, mobile phones and other satellite phones through the Thuraya satellite network.

The MarineStar also supports SMS services through its easy-to-use menu on the color LCD screen on the terminal. An SOS button is available to notify pre-configured contacts during an emergency. When the SOS button activated, the MarineStar will send a pre-determined SOS message, which includes the time-stamped GPS, coordinates of the position to a maximum of five preset contacts for emergency response. The terminal has a RJ11 socket for connecting to an analogue phone or PBX.

3. Product Features

- Circuit-switched voice.
- Fish catch reporting capability.
- Advanced two-way vessel tracking and monitoring based on time, distance, speed and area.
- OTA (over-the-air) programming capabilities.
- Versatile physical interfaces.
- SOS alert.
- Geo-fencing capability.
- Push notifications for weather, news and other alerts.
- Radio silence.

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- Low and high voltage input power indicator.
- Languages: Group 3 product: English, Bahasa and Tagalog; Group 5 product: English, Arabic, French and Turkish



Figure 1:MarineStar ADU & BDU

4. Pre-Requisites

- i. Thuraya MarineStar (MNB-01) <u>upgrader application</u> installed on a laptop.
- ii. <u>Firmware file</u> stored on the laptop.
- **iii.** <u>USB-to-Serial DB-9</u> cable. Ensure that the USB-to-Serial driver is installed properly in the Laptop, and the corresponding COM port is available in the device manager.
- iv. <u>Thuraya MarineStar</u> should be in powered ON condition, sim card & antenna are not compulsary.

5. Steps to Upgrade MarineStar

Step 1: Connect MarineStar to PC/Laptop:

Take any standard USB-to-Serial cable and connect it's DB9 side to MarineStar serial port and connect the USB side to PC/laptop.





Step 2: Open the Thuraya MNB-01 Upgrader:

Open the Thuraya MNB-01 upgrader by double clicking the upgrader installer application. First warning message will pop-up.

Warning Message:			
	Make sure that Thuraya MNB-01 is connected to PC correctly before the upgrade process.	×	
	OK Cancel		

After you ensure the connection, press OK button. Then, the application will open as shown in below picture.

Note: Read and follow the instructions shown on the application.

\chi Thuraya MNB-01 Upgrader (v0.0.11) —	
THURAYA MNB-01 Upgrader THURA	AYA K
 Check whether your Thuraya MNB-01 and PC at connected using the Serial cable. Click OPEN button and select the file with the m version. Select the correct serial port under the 'Port Set Click 'Start' button. Click 'Start' button. Do NOT disconnect the cable while upgrade is in progress. 	re properly new software tup' button. Port Setup Open Open Start
THURAYA TELECOMMUNICATIONS COMPANY	Exit



Step 3: Select the Com Port:

Click the "port setup" button, which will open a window where you have to select the Com port of the USB-to-Serial cable connected, which can be found and listed under ports menu in the device manager of the laptop.

Note: The selection of COM port is dependent on the manufacturer of the USB to serial cable.

\chi Thuraya MNB-01 Upgrader (v1.0)	- 🗆 X
THURAYA MNB-01 Upgrader	THURAYA
Check whether your Thuraya connected using the Serial ca Click OPEN button and select version. Select the correct serial port Click 'Start' button. Do NOT disconnect the cable while using Port COM1	MNB-01 and PC are properly able. the file with the new software under the 'Port Setup' button. upgrade is in progress. Open
THURAYA TELECOMMUNICATIONS COMPANY	el Start Exit

Step 4: Select the firmware file:

Click the "Open" button, which will open a window where you have to select the MarineStar firmware file.



Step 5: Start Uploading Firmware file:

Click the "Start" button to start the Upgrade process.

Note:

- Do not interrupt the upgrade process until it completes.
- Do not disconnect the cable while upgrade is in progress.
- When you press the start button and if connection is not proper you will get a warning message like below.



Step 6: After the upgrade:

You will see the picture like below. Press the exit button to terminate the application.





Step 7: If this is a new terminal (out-of-box), recommend restoring to factory settings

Access the factory settings menu in Admin mode and perform the restore to factory settings.

Note: Restoring to factory settings shall erase all configured information in the device.

Access admin mode

 Security -> Administrator function-> OK -> Administrator mode->OK->ON->OK->Password -00000000 -> OK->Back



Perform Factory default

Security -> Factory reset
 > OK -> Password 00000000 -> Reset
 "YES"->OK. The terminal
 will restart -> OK.

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