THURAYA

Thuraya MarineStar Firmware Upgrade User Guide

PSDD04102021

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Revision 1.1

CONFIDENTIAL

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.

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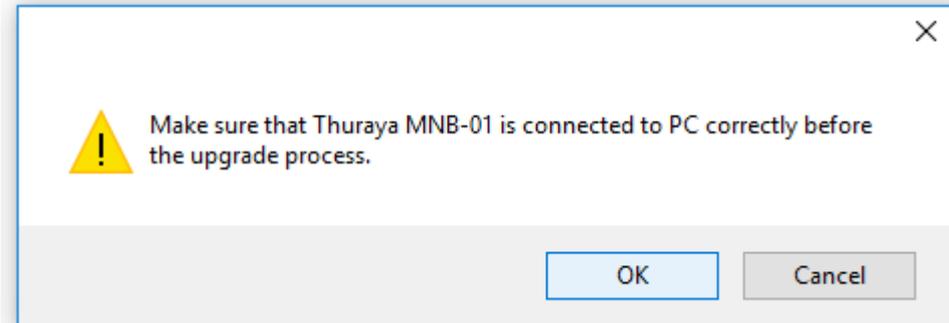
After you ensure the connection, press OK button. Then, the application will open as shown in below picture.

Note: Read and follow the instructions shown on the application.
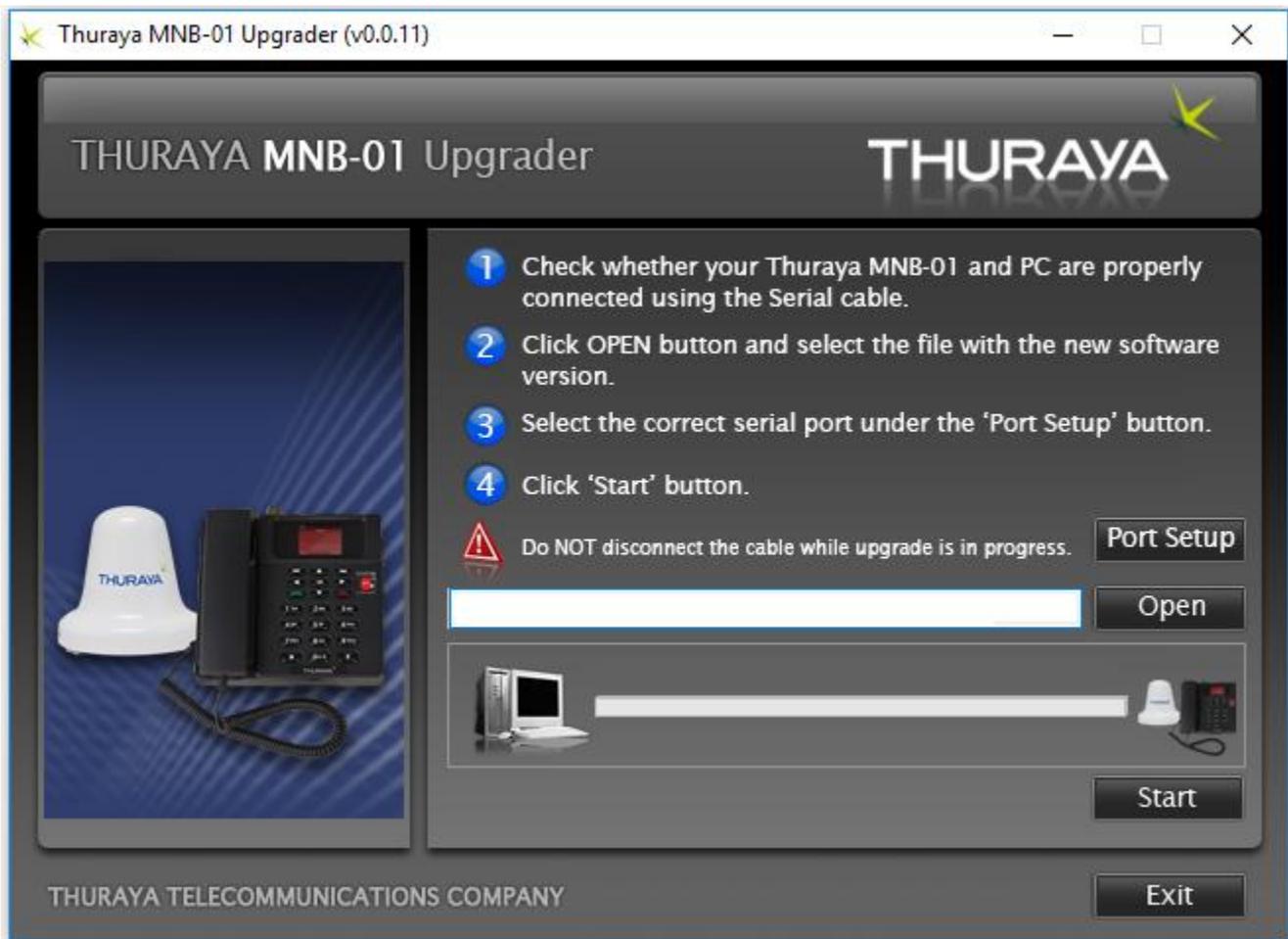
Step 3: Select the Com Port:

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.

Step 4: Select the firmware file:

Click the "Open" button, which will open a window where you have to select the MarineStar firmware file.
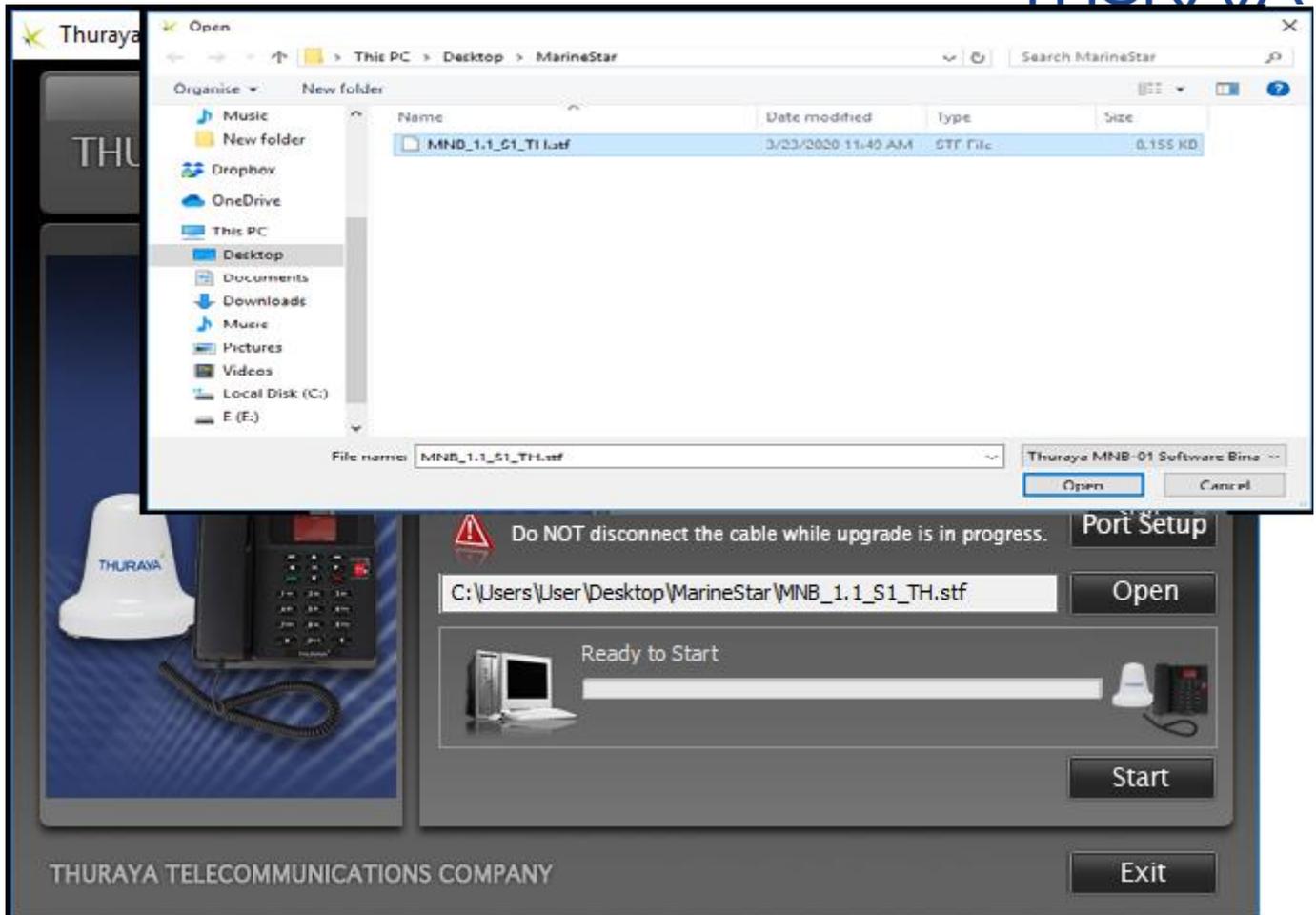
Step 5: Start Uploading Firmware file:

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.
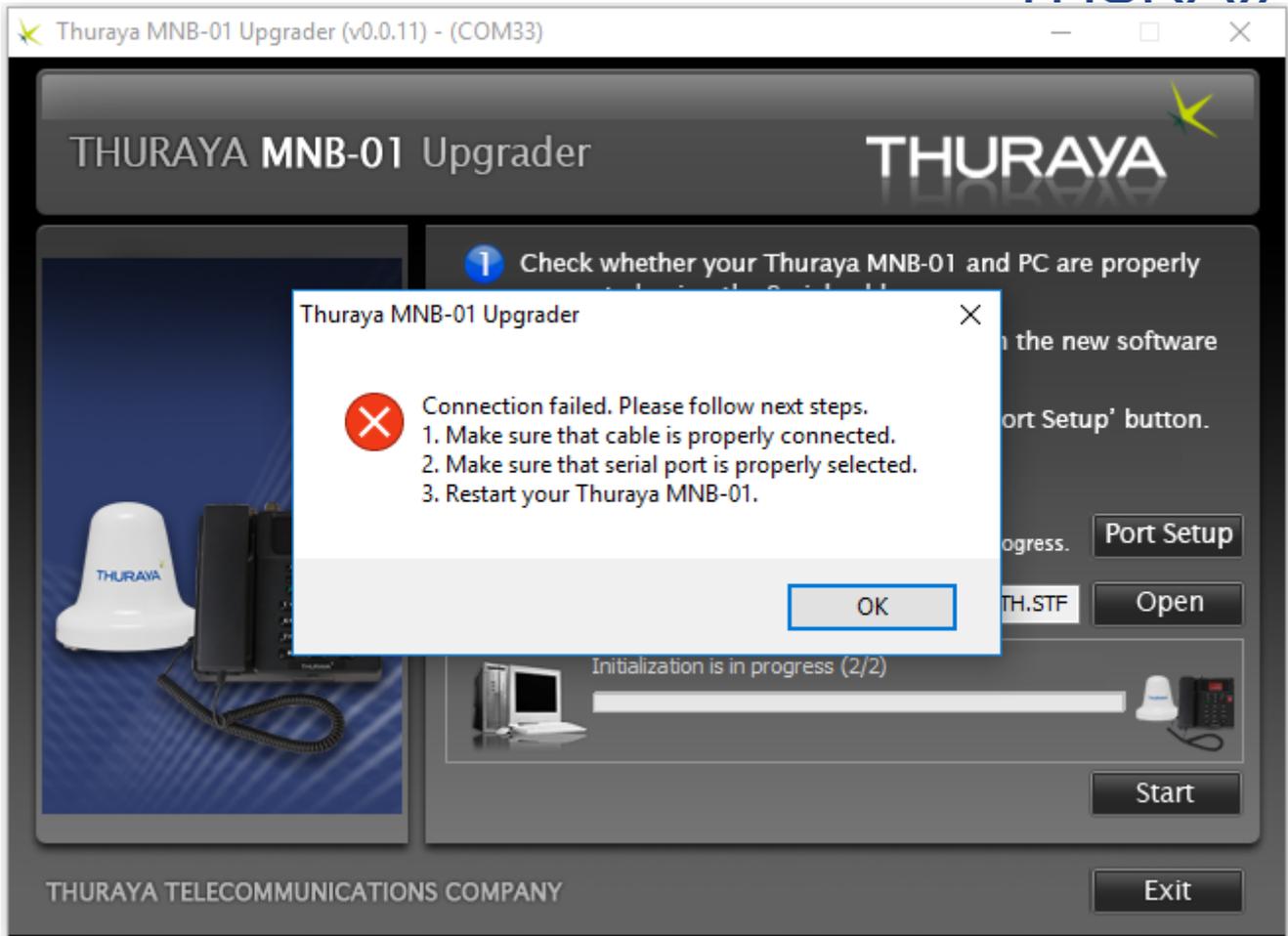
Step 6: After the upgrade:

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

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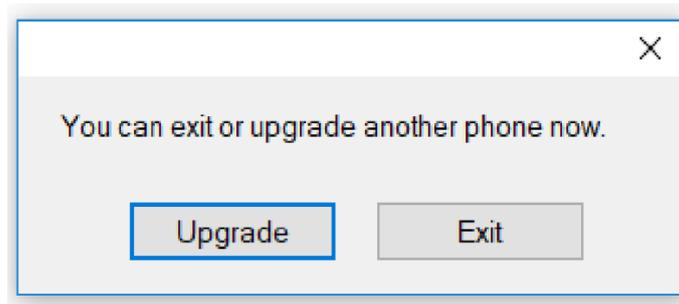
Step 7: If this is a new terminal (out-of-box), recommend restoring to factory settings

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	Perform Factory default
• Security -> Administrator function-> OK -> Administrator mode->OK->ON->OK->Password – 00000000 -> OK->Back	• Security -> Factory reset -> OK -> Password – 00000000 -> Reset "YES"->OK. The terminal will restart -> OK.