

# MarineStar Firmware Upgrade User Manual

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Revision 1.4

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## 1. Basic Information:

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

### Firmware Changes:

Commercial Version: MNB\_2.0\_ML\_TH

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 *(for 2.0 ML version software)*:

- 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.
- Fish-start and Fish-stop
- Port-in and Port-out
- Geo-fencing capability.
- Push notifications for weather, news and other alerts.
- Radio silence.
- Low and high voltage input power indicator.
- Languages: English, Arabic, French, Turkish, Persian, Bahasa and Tagalog

Figure 1 shows the MarineStar Terminal ADU & BDU  
**ADU/BDU:**



#### 4. Objective:

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

#### 5. Pre-Requisites:

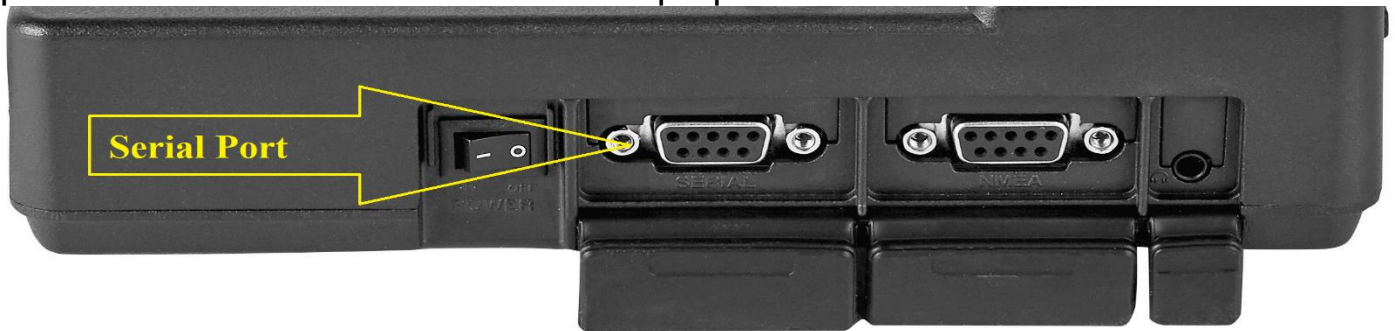
- Laptop and MarineStar Thuraya MNB-01 Upgrader(version 1.1.19) application installed on that.
- USB-to-Serial cable. Ensure that the USB-to-Serial driver is installed properly in the Laptop, and the corresponding COM port is available in the device manager.
- MarineStar should be in powered ON condition, sim card & antenna are not compulsory.

**Note:-** Upgrader will not allow to downgrade the firmware version.

## 6. 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.

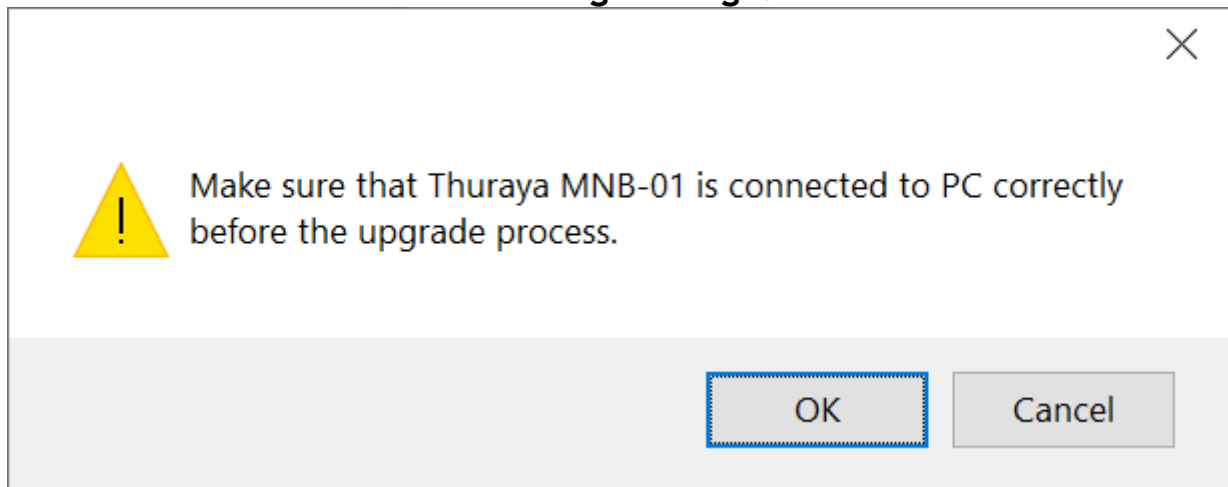


### Step 2: Open the Thuraya MNB-01 Upgrader:

Open the Thuraya MNB-01 upgrader by double clicking the upgrader installer application.

First warning message will come.

#### Warning Message:

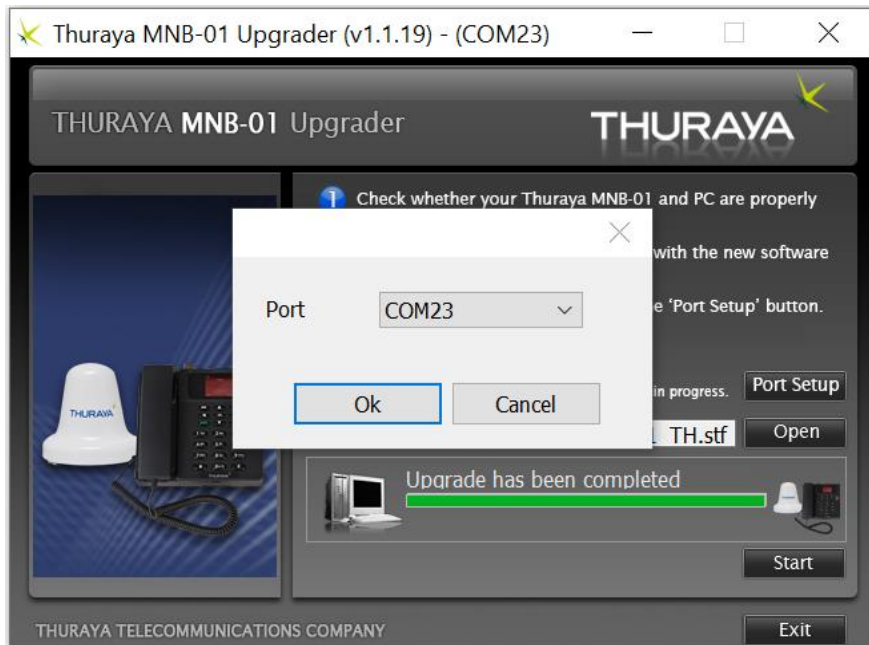


After you ensure the connection press OK button, an application will open as shown in below picture.

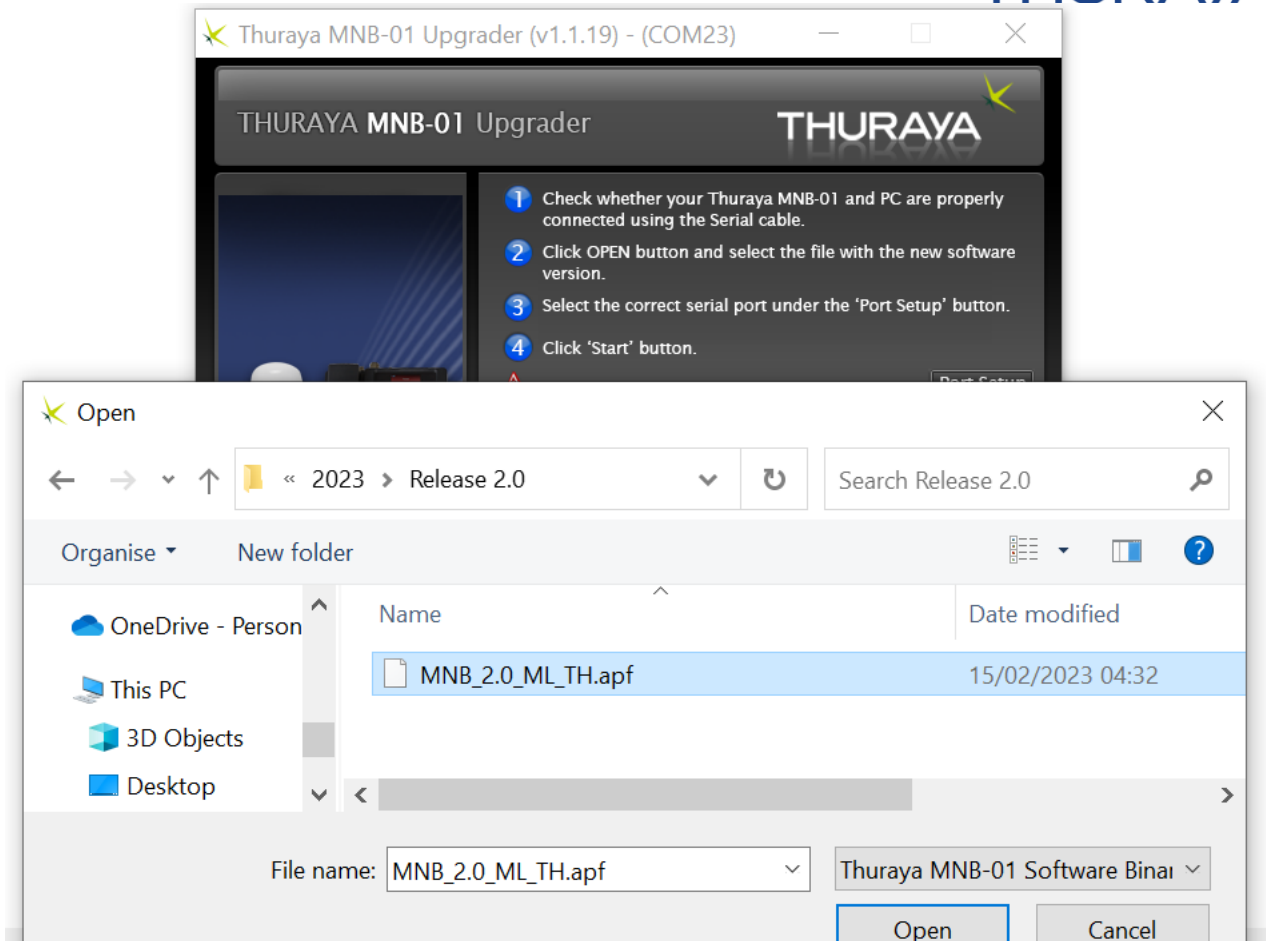
Note: Read and follow the instructions shown on application.

**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 in the device manager.

**Step 4: Select the firmware file:**

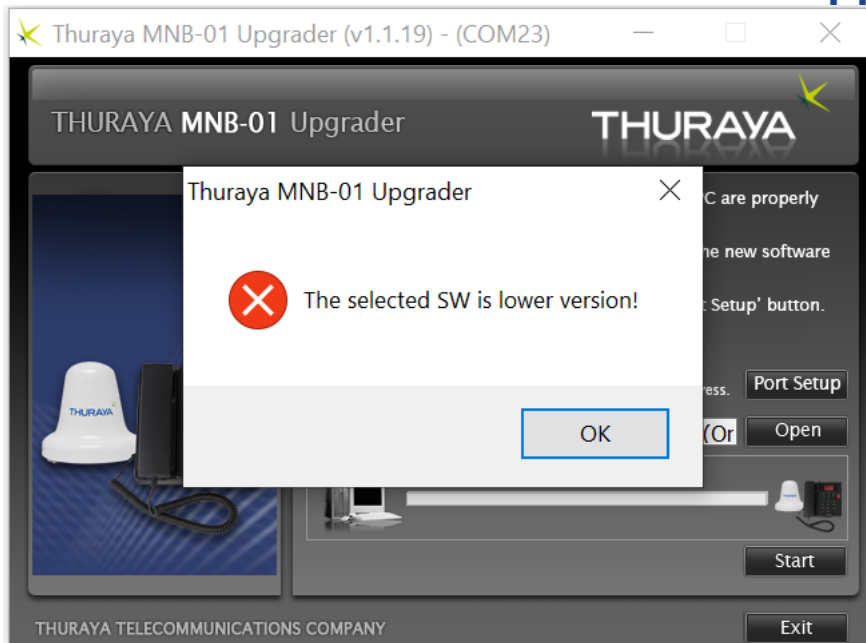
Click the “Open” button which will open a window where you must select the MarineStar firmware file.



**Click Start button**



**Note:-** Upgrader will not allow to downgrade the firmware version, incase if user selects lower version.

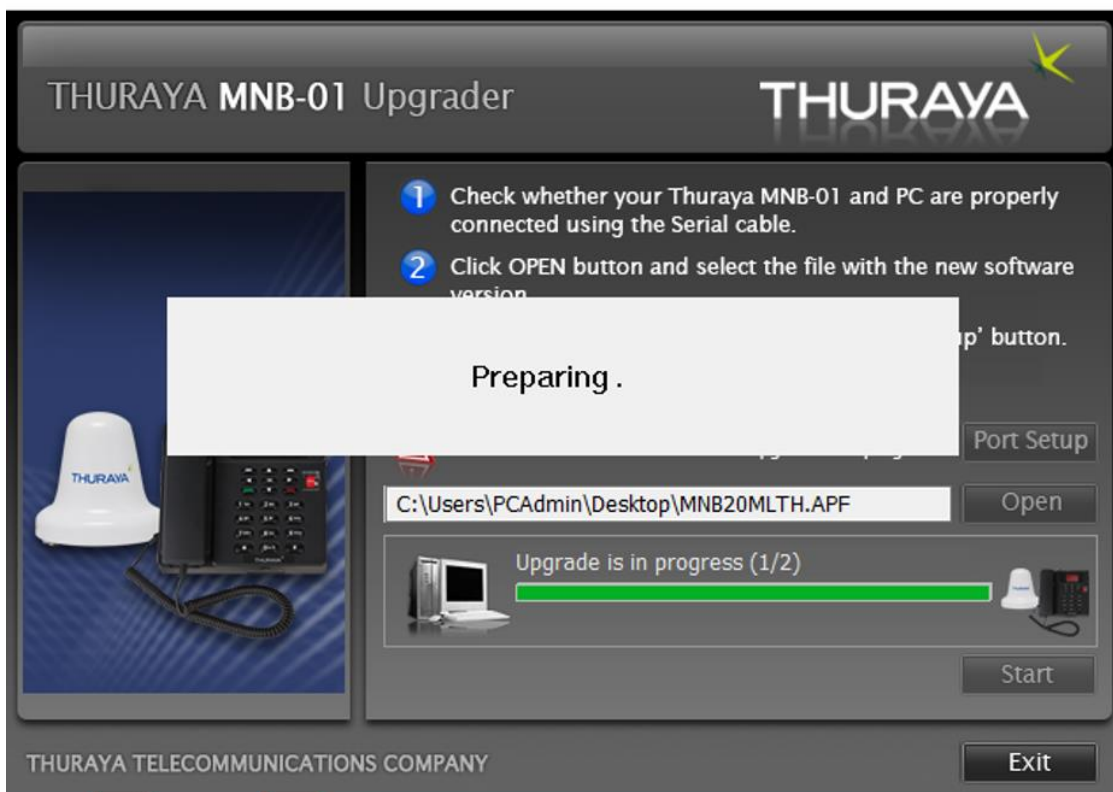


**Step 5: Start Uploading Firmware file:**

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.

Upgrade is in progress: 1/1





### Upgrade is in progress: 1/2



**THURAYA MNB-01 Upgrader**

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- 1 Check whether your Thuraya MNB-01 and PC are properly connected using the Serial cable.
- 2 Click OPEN button and select the file with the new software version.
- 3 Select the correct serial port under the 'Port Setup' button.
- 4 Click 'Start' button.

 Do NOT disconnect the cable while upgrade is in progress.

Port Setup

C:\Users\PCAdmin\Desktop\MNB20MLTH.APF

Open

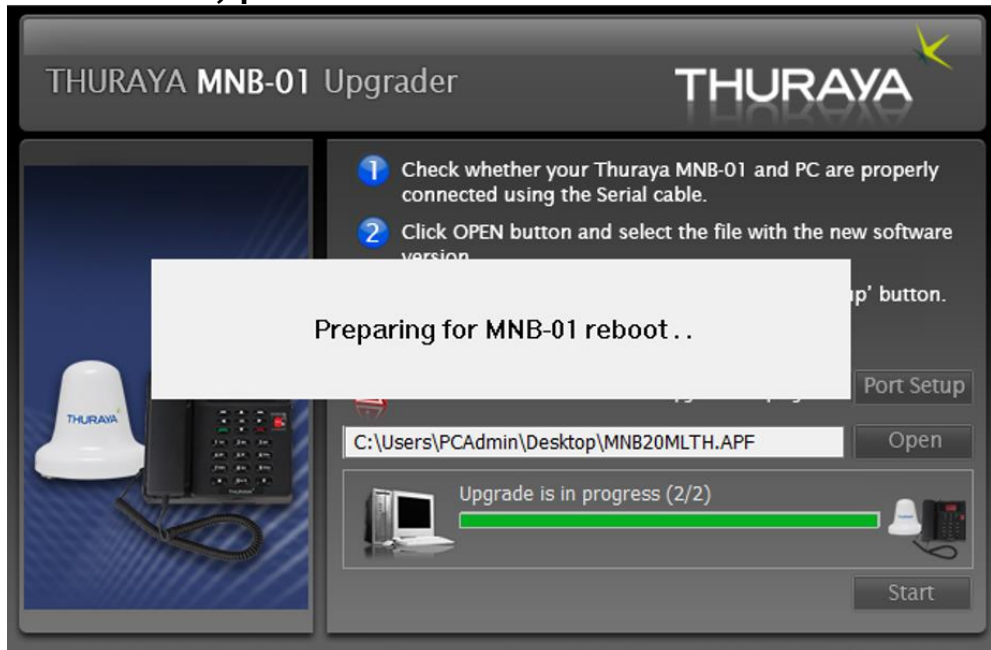
Upgrade is in progress (2/2)

Start

Exit

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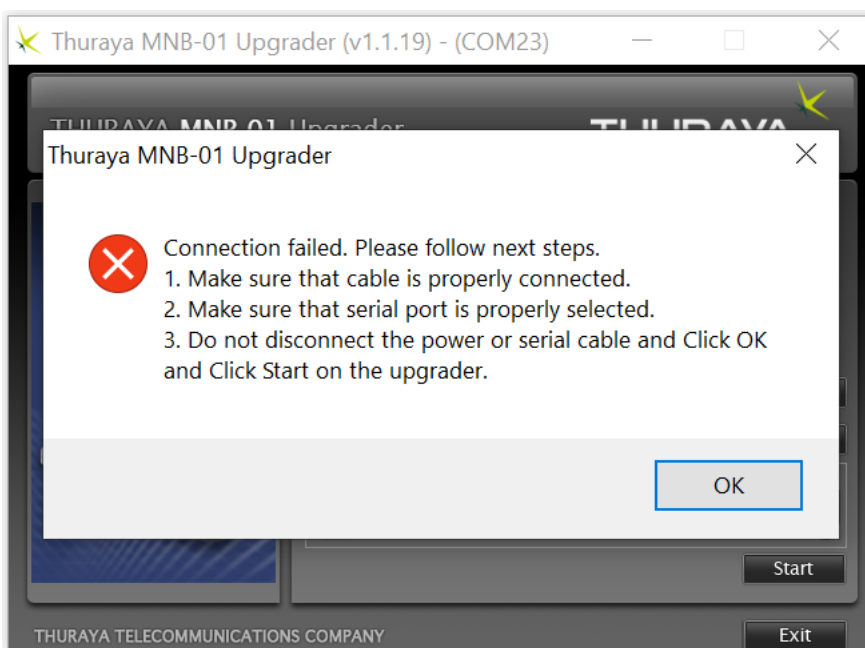
## Rebooting the terminal, please wait



**IMPORTANT:** The below warning message shows if power/USB-to-serial cable connection is not proper, or the firmware upgrade failed for any unknown reason.

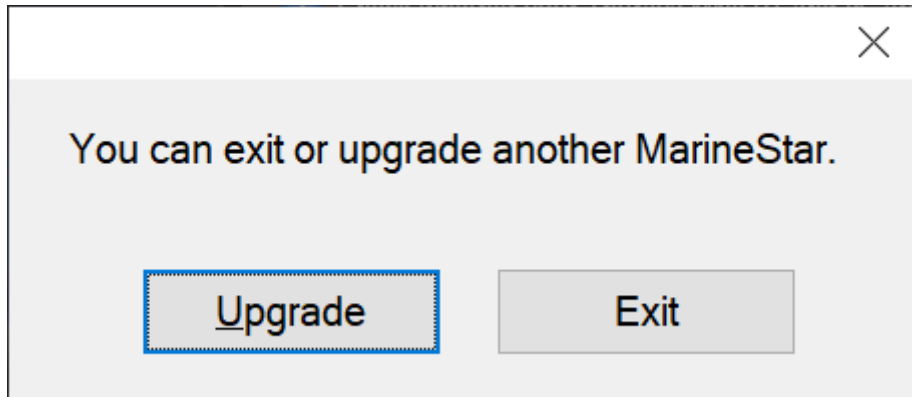
In case of such an error is shown, **DO NOT POWER CYCLE THE UNIT** and ensure that the USB-to-Serial cable is securely connected to PC and Click OK to continue.

Please ensure to follow the below steps mentioned in the screen to ensure a successful re-upgrade and avoid out-of-warranty related requests.



**Step 6: After the upgrade:**

You will see the picture below, press the exit button to terminate the application.



For further information and support, please contact Thuraya customer care - [customer.care@thuraya.com](mailto:customer.care@thuraya.com)