



Thuraya Telecommunications Company

MarineStar Firmware Upgrade User Manual

PSDD07052020

MAY 2020

Revision 1.0

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Revision History:

Rev No.	Date	Prepared by	Reviewed By	Change History
1.0	07-05-2020	Raveendranath Gouni	Goutham Kumar Sunkara	Initial release

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1. Basic Information:

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

Firmware Changes:

Commercial Version: MNB_1.1_S1_TH Released on 24-03-2020

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 shows the MarineStar Terminal ADU & BDU
ADU/BDU:



4. Objective:

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

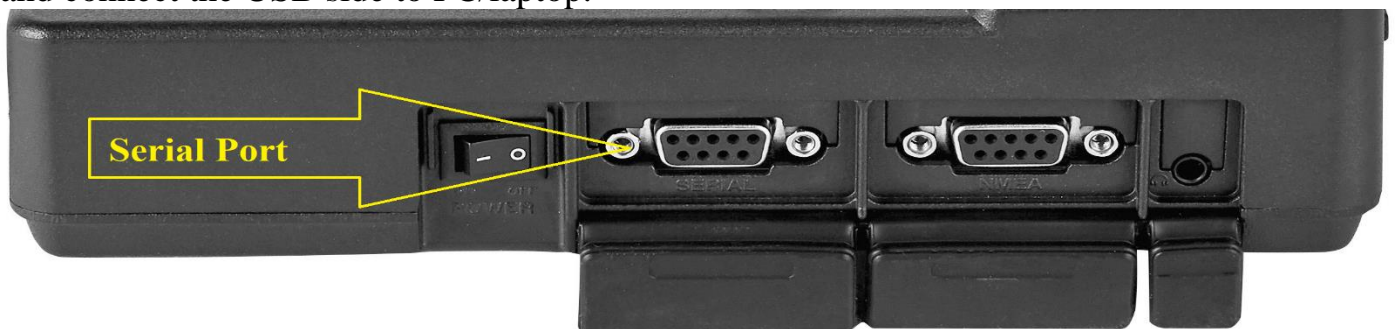
5. Pre-Requisites:

- Laptop and MarineStar Thuraya MNB-01 Upgrader 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.

6. Steps to Upgrade MarineStar:

Step 1: Connect MarineStar to PC/Laptop:

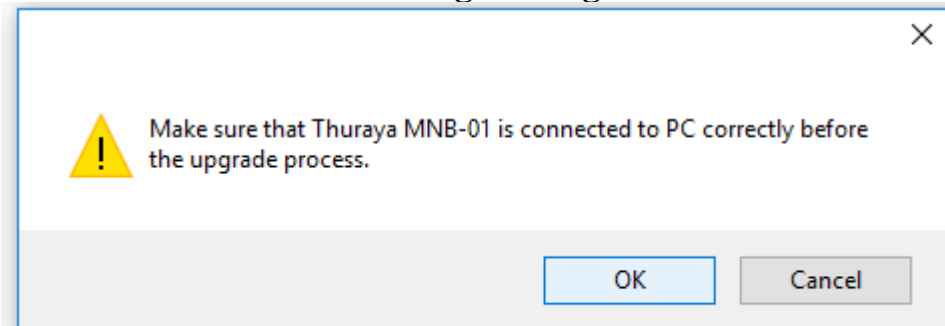
Take any standard USB-to-Serial cable and connect it's DB9 side to MarineStar serial port and connect the USB side to PC/laptop.



Step 2: Open the Thuraya MNB-01 Upgrader:

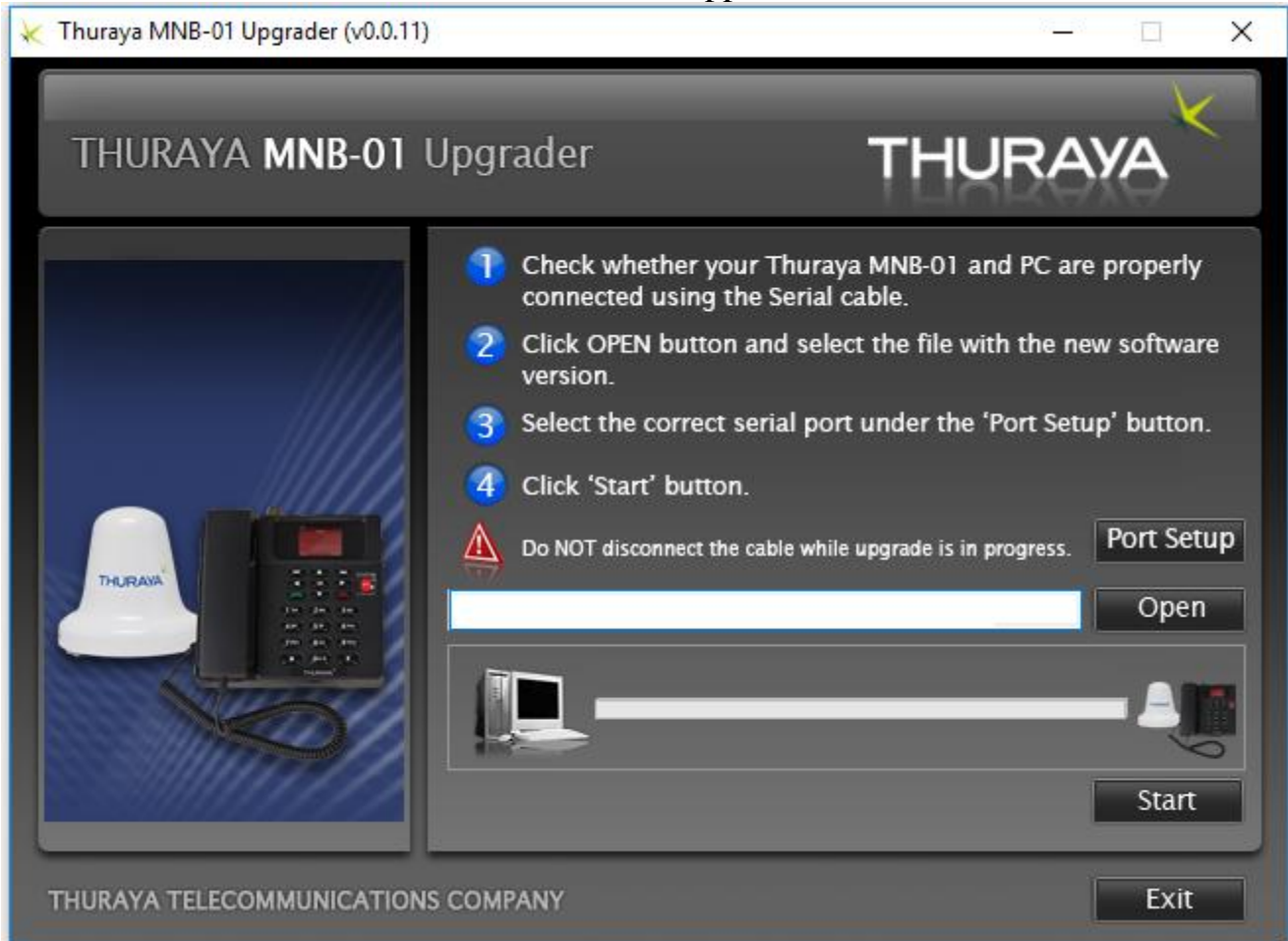
Open the Thuraya MNB-01 upgrader by double clicking the upgrader installer application. First warning message will come.

Warning Message:



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

Note: Read and follow the instructions shown on application.



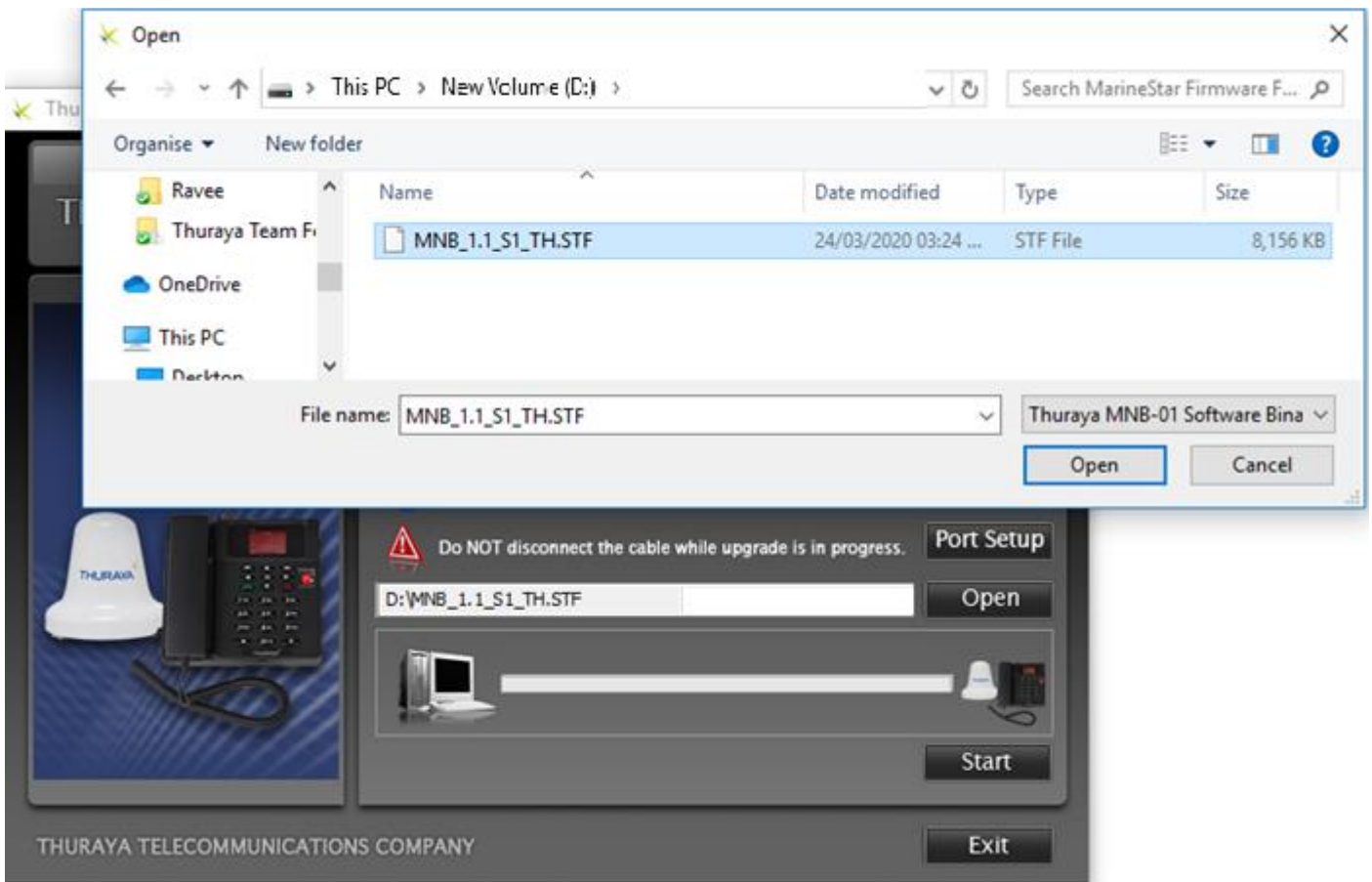
Step 3: Select the Com Port:

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 have to select the MarineStar firmware file.

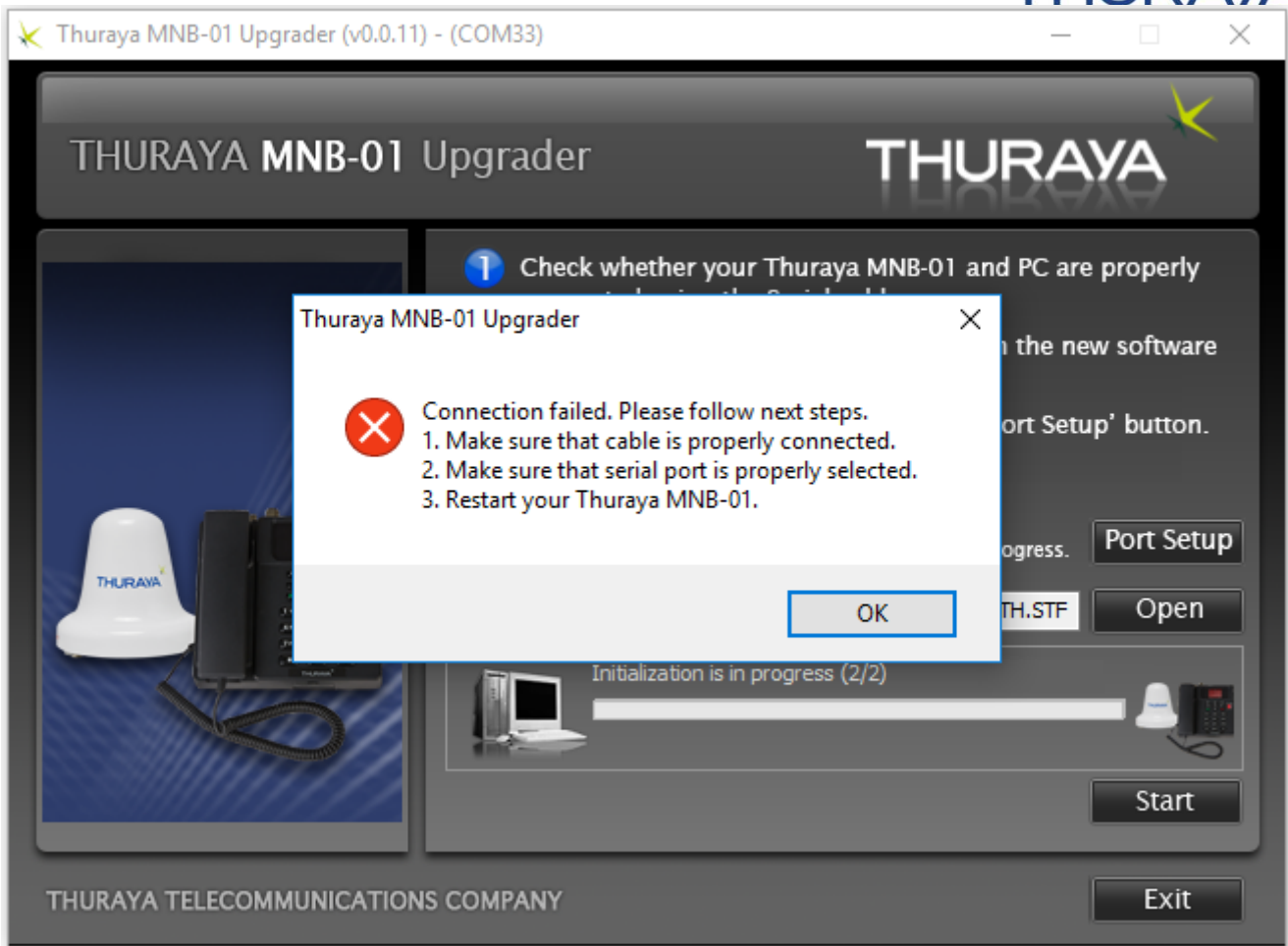


Step 5: Start Uploading Firmware file:

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.

Note: 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.

