



# User Manual

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**VIRTUAL AIS AtoN Station**

**NAN-X000**

## NOTICE TO USERS

- Thanks for your purchasing this product NAN-X000 Virtual AIS AtoN Station.
- The copyright of this manual is owned by the manufacturer, NEW SUNRISE CO., LTD. (NSR). Prior written permission is required for copying or reproducing the manual or part of the manual.
- Please read this manual carefully to ensure proper use before installation and operation or modification of the product.
- NSR will assume no responsibility for the damage caused by improper use of the product or claims of loss of profit by a third party.
- Software version may be some different from that described as in this manual. Such difference will not affect the performance of the product. NSR reserves the right on continuous improvement of products both in software and hardware without any prior notice.
- Please keep the manual for your future reference.

# MODIFY RECORD

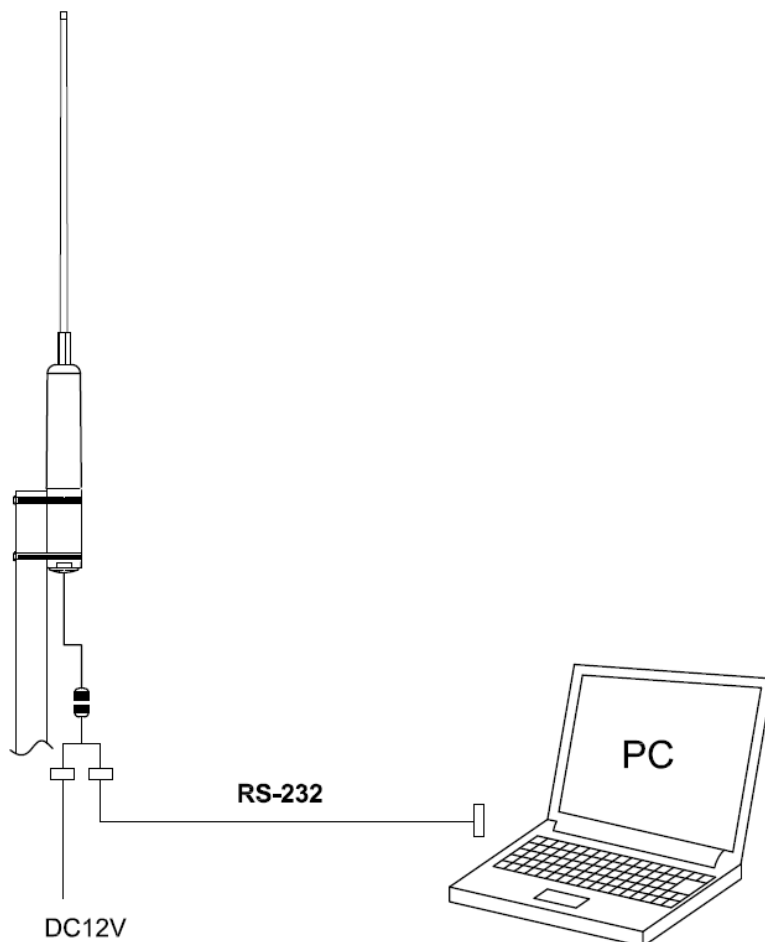
No.	Modify by	Date	Paragraph	Version	Reason
1	Q/A	2023/10/10		01	First edition

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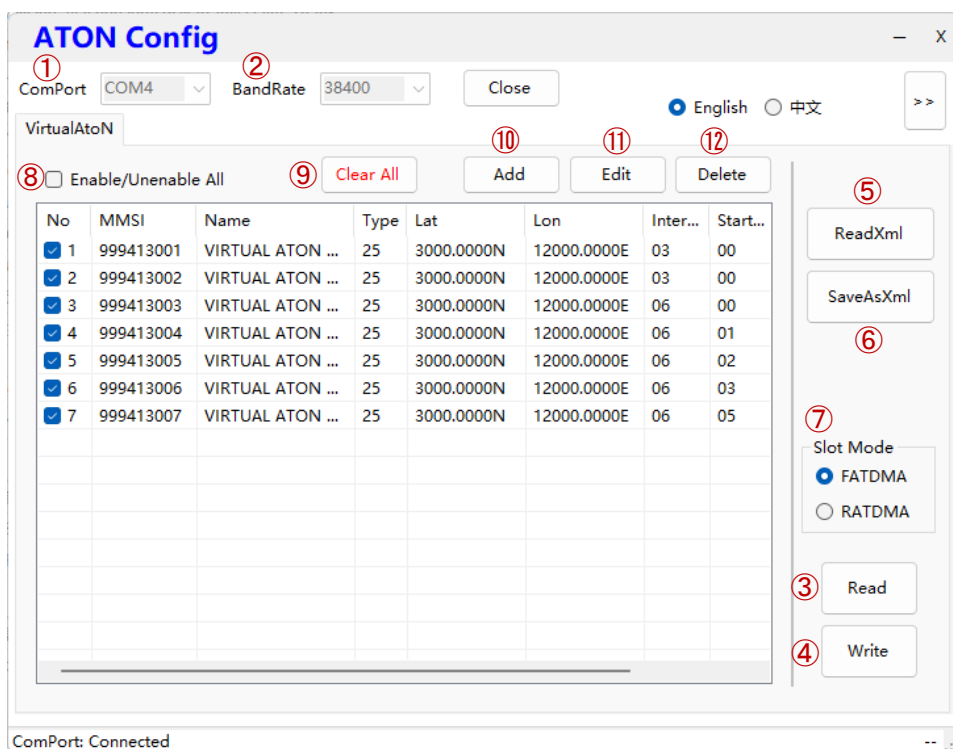
## 1. PRODUCT PROGRAMMING

Before installing NAN-X000 virtual AtoN station, it should be programmed by following steps. Please contact NSR or the dealer for the configuration software.



Connection for programming

## 1.1 Configuration Menu



### Basic Parameter Setting

Description:

- ① **Com Port**: Serial port selection.
- ② **Baud Rate**: 38400.
- ③ **Read**: Click to read the virtual AtoN list from NAN-X000.
- ④ **Write**: Click to write current setting of the virtual AtoN list to NAN-X000.
- ⑤ **ReadXml**: Read the Xml file saved on your computer into the virtual AtoN list of the configuration software.
- ⑥ **SaveAsXml**: Save the virtual AtoN list of the configuration software as an Xml file on your computer.
- ⑦ **Slot Mode**: Select FATDMA if there is a slot reserved by the maritime authority, otherwise select RATDMA.

- ⑧ **Enable/Unable All:** Enable or disable the transmitting of all virtual AtoN in the list.
- ⑨ **Clear All:** Clear/Eraser all virtual AtoN saved by NAN-X000 (**be careful**).
- ⑩ **Add:** Add a virtual AtoN to the list.
- ⑪ **Edit:** Edit the selected virtual AtoN.
- ⑫ **Delete:** Delete the selected virtual AtoN.

## 1.2 Add/Edit Virtual AtoN

**Edit a virtual AtoN**

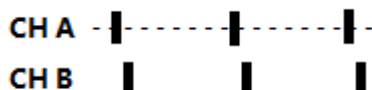
**Add a virtual AtoN**

Description:

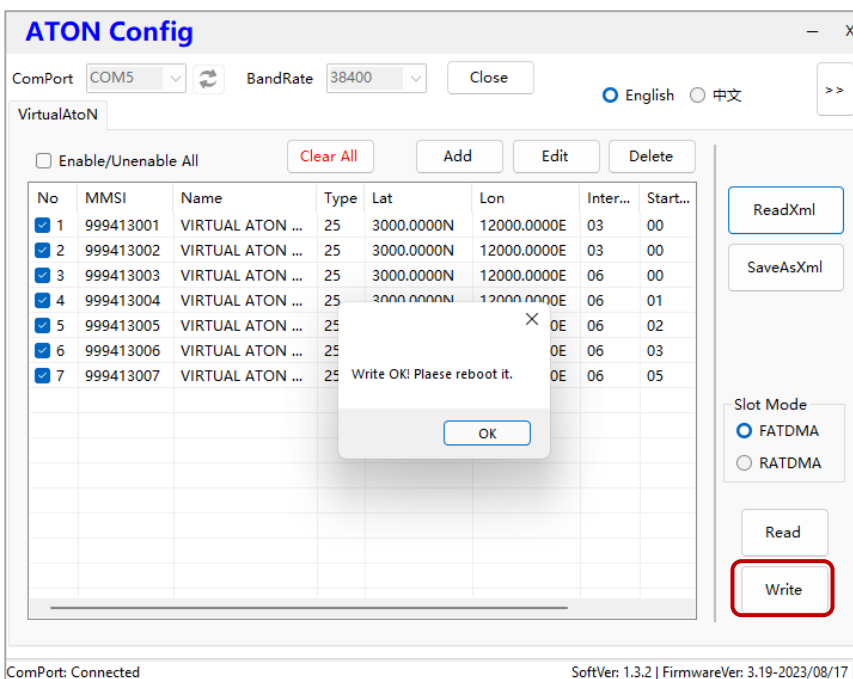
- ① **MMSI** (Maritime Mobile Service Identity): Appointed by AtoN administration. Please refer to the relevant rules.
- ② **Name** (Virtual AtoN name): Appointed by AtoN administration. Please refer to the relevant rules.
- ③ **Type:** Select the type of virtual AtoN from the pull-down menu.
- ④ **lat / lon:** Chart position of the Virtual AtoN.
- ⑤ **Dimension:** A, B, C, D are the locations of the AIS antenna on the Virtual AtoN.
- ⑥ **Interval:** TX interval (3-60 minutes).
- ⑦ **StartMin.:** TX start time (0-59minutes), for virtual AtoN grouping use. If TX interval is 3 minutes, the start time of the three virtual AtoN can be: 00, 01, 02

respectively, and these three virtual AtoN can use the same slot by turns.

- ⑧ **Msg21 SlotA/ Msg21 SlotB:** Tx Slot No, 0~2249 configured. MSG21 occupies 2 slots, which number should be reserved and appointed by maritime authority. AIS transmits on both channel A and channel B at the TX interval.



### 1.3 Write Virtual AtoN Data



Click **Write** to write current virtual AtoN list to NAN-X000. Please wait about 5s until the above success message appears.

**Note:** After writing ok, please reboot NAN-X000 for the virtual AtoN list to take effect.

## 2. PRODUCT OPERATION

Once configured, connect NAN-X000 to a power supply with DC12V, and then NAN-X000 will automatically transmit the virtual AtoN data.

**Note: The requirements of power supply to NAN-X000 are: DC12V, 3A.**

