

# VCPS: Customer Programming Software

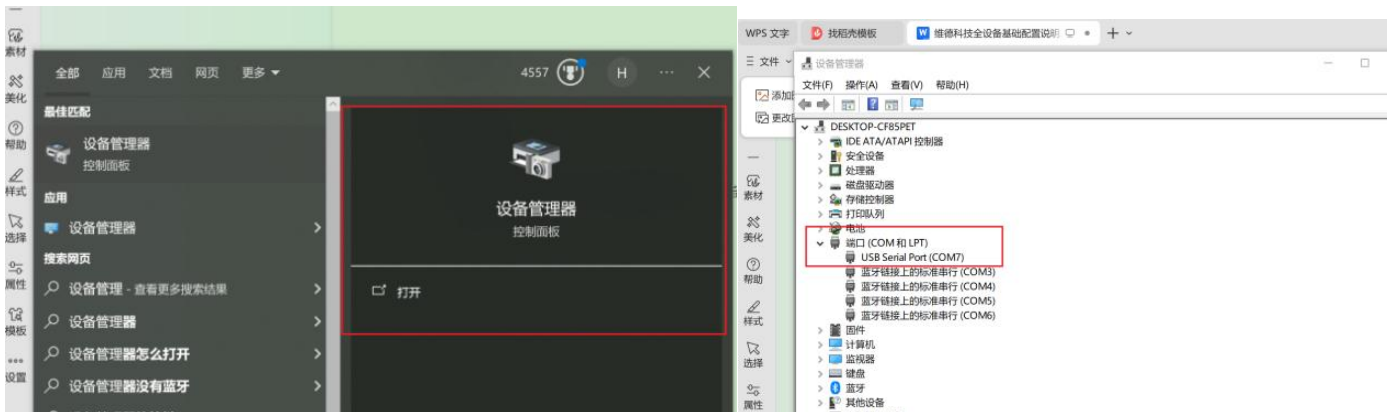
## Note:

1. VCPS is for Defensor series: T4, TS1, BM3, T9, U25
2. Different models cannot share the same template. For example, for T4, read the frequency first, modify it, and then write it. After writing to T4, connect the frequency writing cable to TS1, and you need to read the frequency first, then modify it, and then write it. Other models should also be written using the same method of not sharing templates.

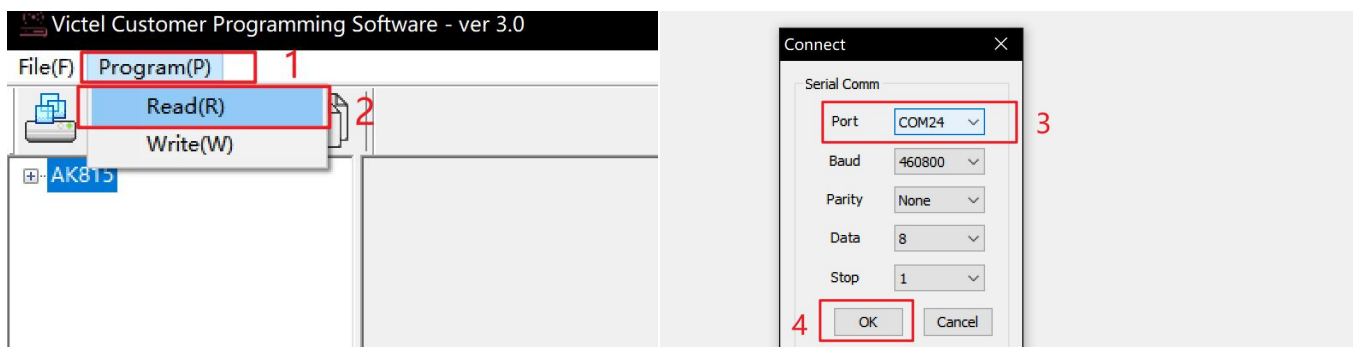
In this document, we take the Defensor-T4 Handset Radio(T4 walkie-talkie)as an example:

## Programming Software: VCPS

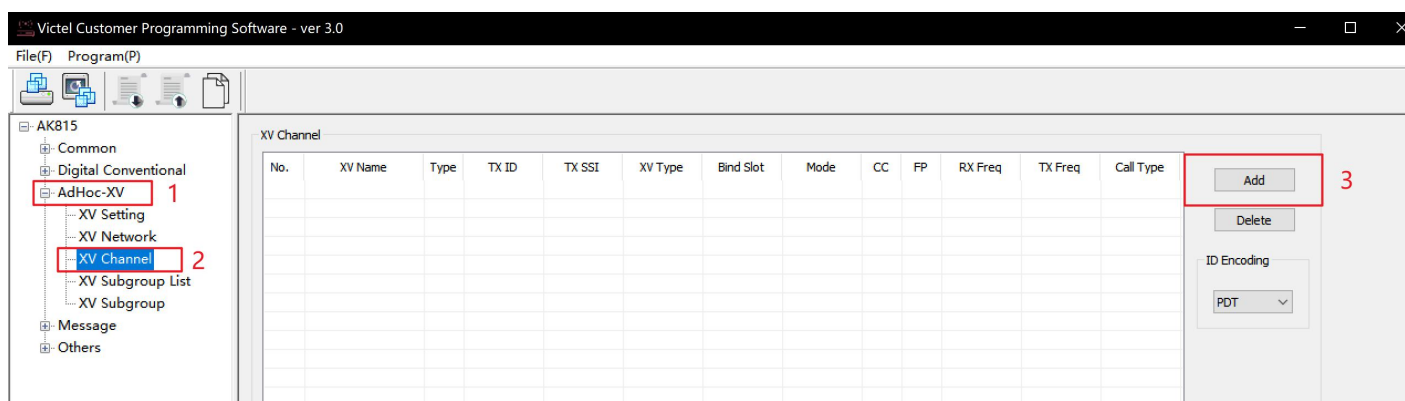
Connect the T4 walkie-talkie using its dedicated programming cable, open Device Manager in Windows 10 , and locate the corresponding COM port (USB Serial Port).



Follow the four steps below to connect Windows to the T4 walkie-talkie and read the walkie-talkie's parameters.



Open the VCPs programming software and follow the three steps below to create a number that can be used for communication on the specified frequency.



## Explanation:

### 1. Name

**Core Description:** No fixed requirements for filling in. The content can be customized according to personal preferences or usage scenarios.

**Key Notes:** It is recommended to enter content with high recognizability, such as "Walkie-talkie for Area A of the Construction Site" or "Zhang San - Operation and Maintenance Team," to facilitate subsequent equipment management.

### 2. Number

**Core Description:** The default initial value is 32820900, which serves as the "communication ID" of the walkie-talkie under a specific frequency.

**Key Notes:** If two walkie-talkies use the same frequency but different numbers, mutual communication cannot be achieved.

### 3. XV Group Type

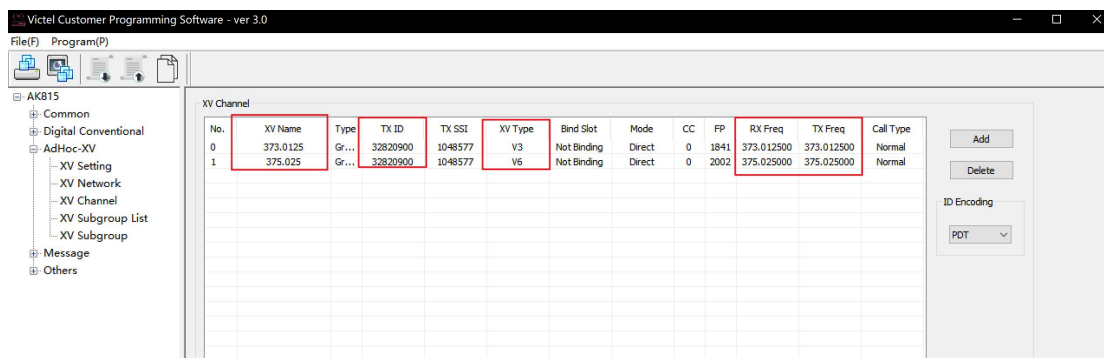
**Core Description:** Used to control the walkie-talkie's "networking mode," determining how the walkie-talkie switches communication channels and adjusts the number of Ad Hoc Network Hop.

**Key Notes:** Different XV group types correspond to different ad-hoc network rules. Select the appropriate type based on actual communication needs (e.g., coverage range, anti-interference requirements).

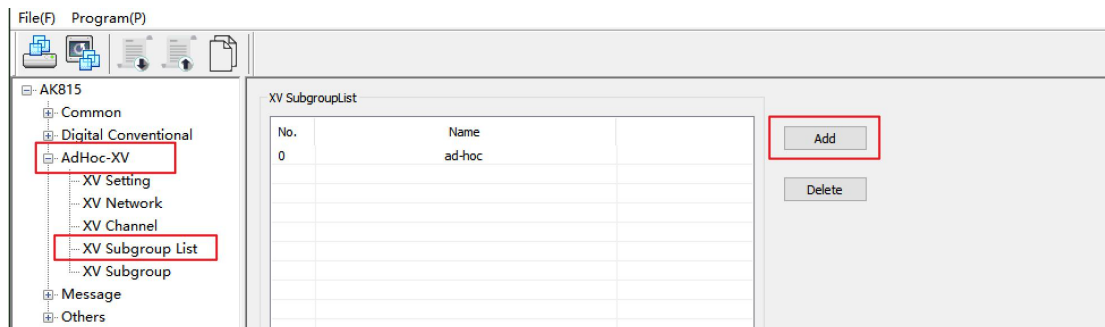
### 4. Receive Frequency / Transmit Frequency

**Core Description:** The actual frequency value used by the walkie-talkie for communication must be manually entered—this is the core parameter for normal signal transmission and reception.

**Key Notes:** The receive frequency and transmit frequency must be consistent (except for special duplex communication scenarios). Otherwise, issues such as "able to transmit but not receive" or "able to receive but not transmit" will occur.

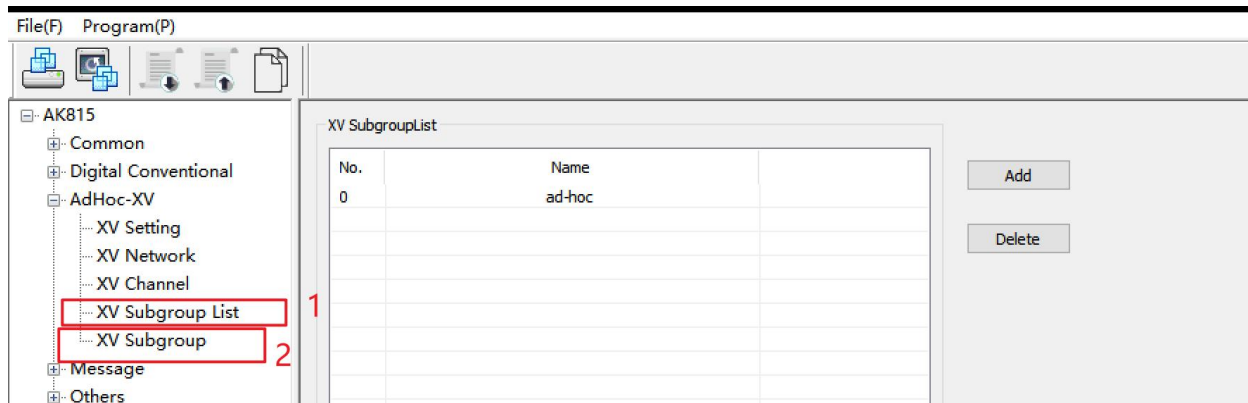


Create a group list with a customizable name for adding the created numbers to the group:

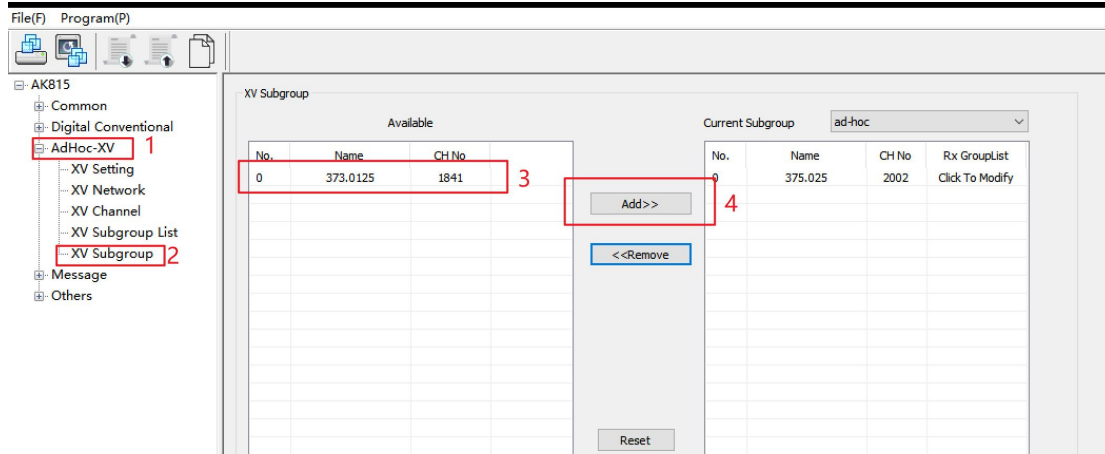


## Explanation:

- Group List: Used to create groups
- Group: Used to add or remove group members, where the group members are the content created in the previous "Number List".

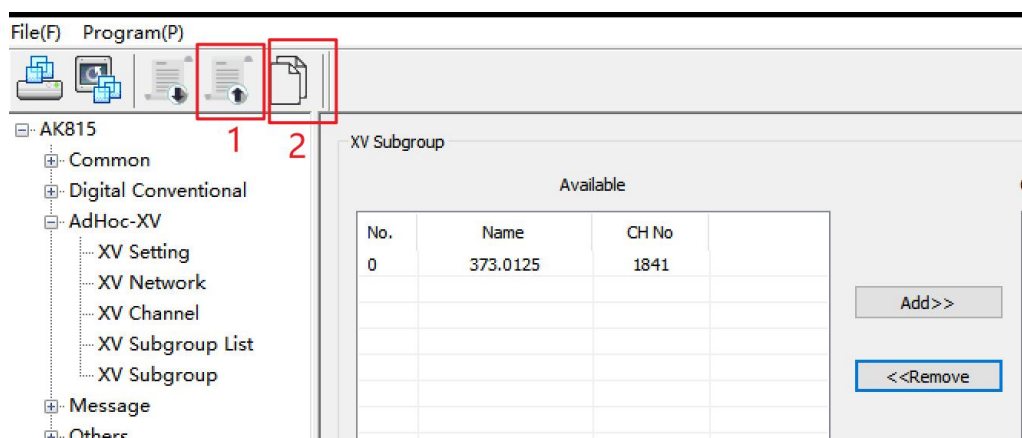


Bind the created group to the number to use it on the T4 walkie-talkie.



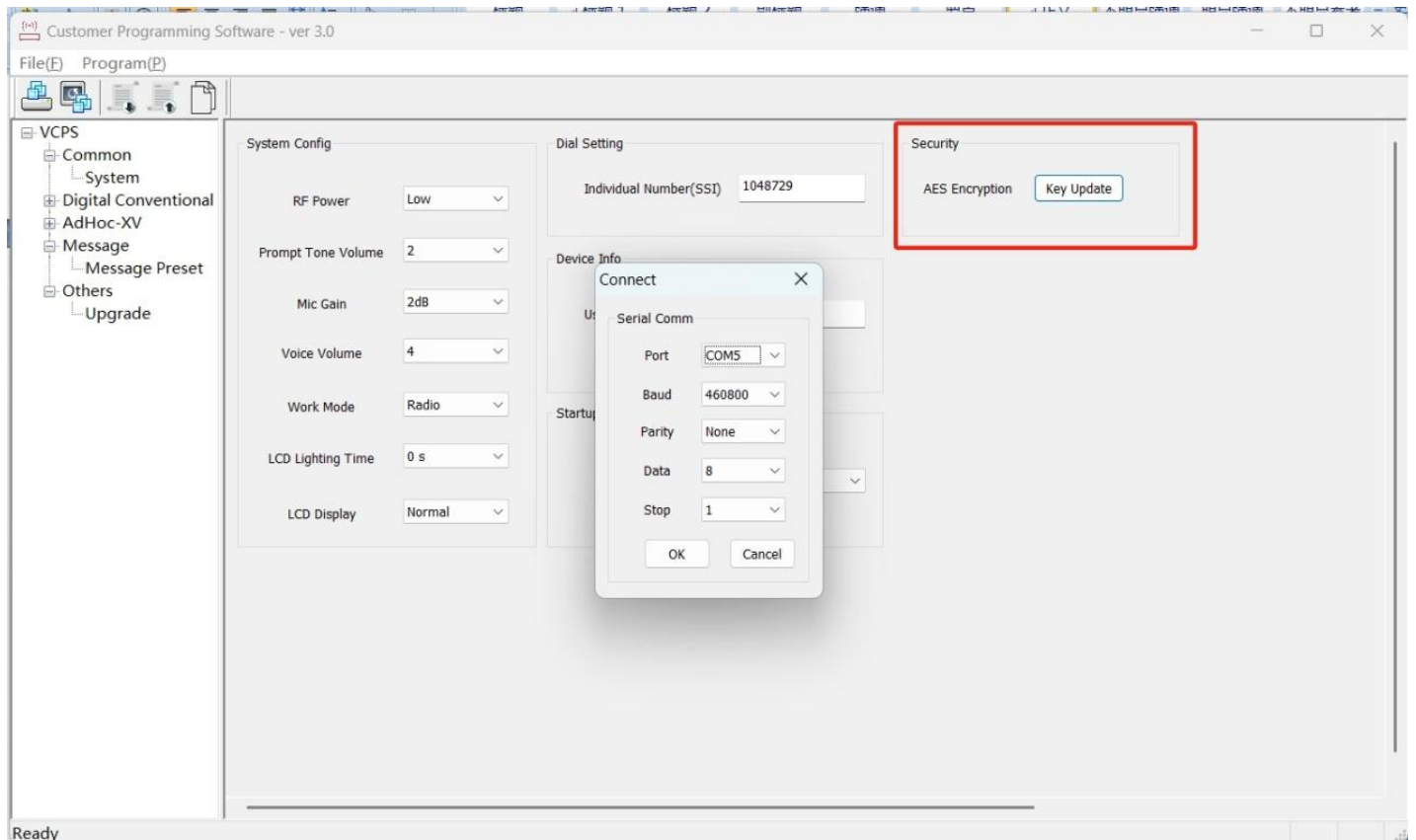
Finally, simply select "Programming(1)" or "Cloning(2)" according to your own needs.

Cloning does not change the original ID of the walkie-talkie



## AES Encryption

Read the frequency first, then write the frequency, so that the handheld radio's encryption type defaults to AES encryption.



Click **Key Update** to import the key.

