



V-BOX user manual



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1. WEB link

V-BOX Web visit website: <http://v-box.net>

V-BOX PC application download link: http://www.we-con.com.cn/en/download_45.html

2. Basic Function

2.1 Register

Users can register a V-Box account by mobile phone number or mailbox, the registration interface as Figure 2-1 shows, **but currently users from out of China countries can only use email address to register.**

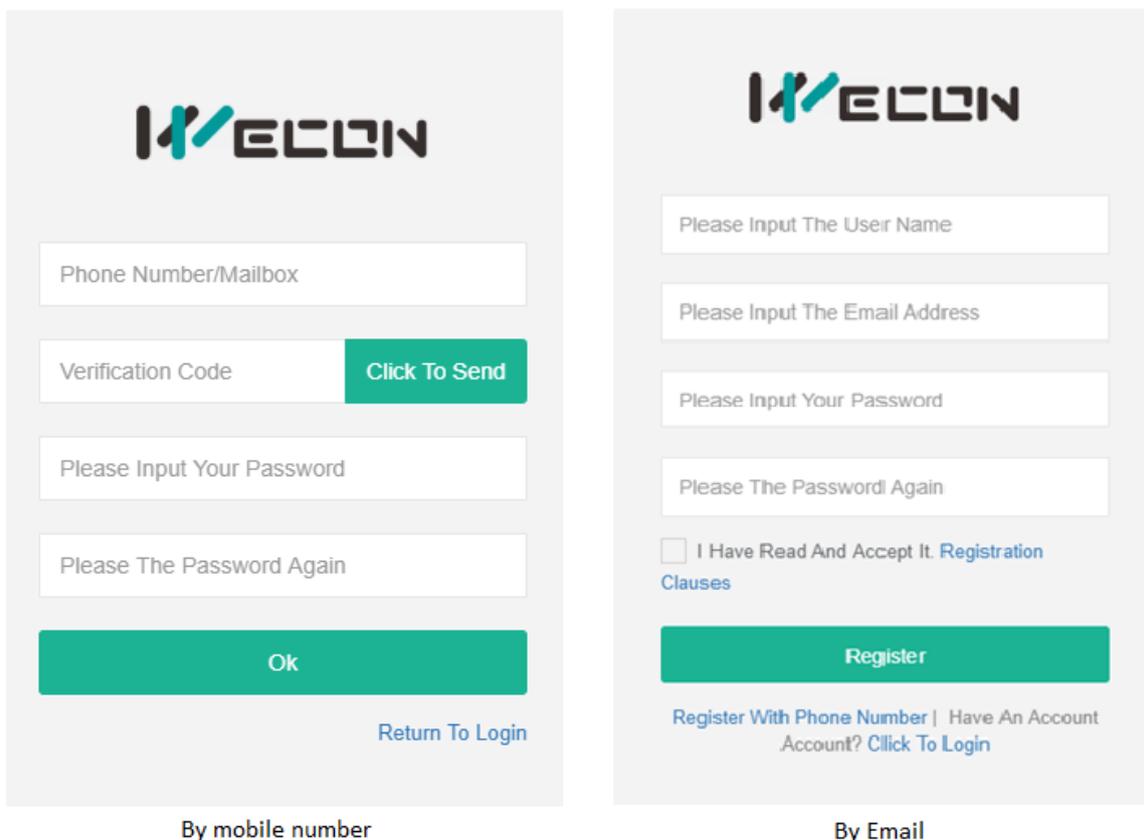


Figure 2-1

Operating procedures of Registering by an Email address

- 1) Enter user name, the username must be a unique name. If the username already exists, the prompt

message will appear, as Figure 2-2. And numbers, letters, and underscores are legal characters for the username, and the length of user name shall not exceed 20 digits;

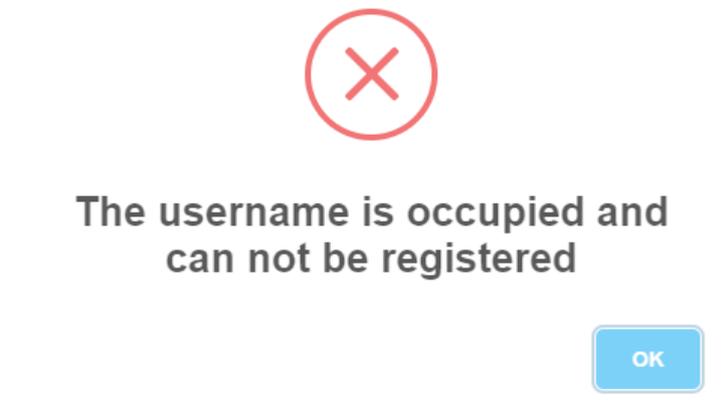


Figure 2-2

- 2) Enter the email address;
- 3) Set the password, and please ensure that the password which has been entered secondly shall be consistent;
- 4) Select "I have read and accept it", after reading "Registration Clauses", please make sure you can accept all terms of this agreement;
- 5) Click "Register" to execute account registration, and below prompt message will display, as Figure 2-3;

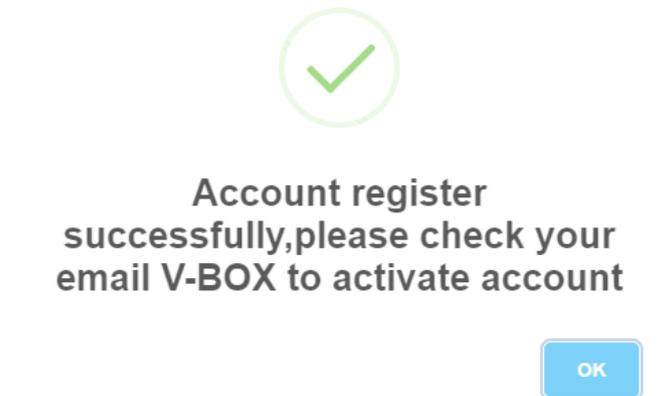


Figure 2-3

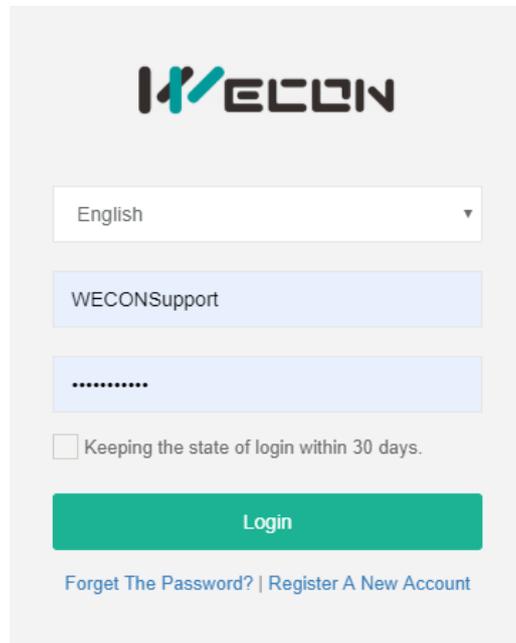
2.2 User sign in

The user sign in interface as Figure 2-4 shows;

Operating procedures of sign in

- 1) Select user interface, Chinese or English are supported;

- 2) Enter user name, such as WECONSupport
- 3) Enter password;
- 4) Check "Keeping the state of sign in within 30 days", if necessary, kindly note, please don't use this option in public PC;
- 5) Click "Sign in" button;



The image shows the WECON login interface. At the top is the WECON logo. Below it is a language selection dropdown menu currently set to 'English'. Underneath is a text input field containing 'WECONSupport'. Below that is a password input field with masked characters '.....'. There is a checkbox labeled 'Keeping the state of login within 30 days.' which is currently unchecked. At the bottom is a green 'Login' button. Below the button are two links: 'Forget The Password?' and 'Register A New Account'.

Figure 2-4

Operating procedures of sign in

- 6) Select user interface, Chinese or English are supported;
- 7) Enter user name, such as WECONSupport
- 8) Enter password;
- 9) Check "Keeping the state of sign in within 30 days", if necessary, kindly note, please don't use this option in public PC;
- 10) Click "Sign in" button;

2.3 Account Information

Please click user name to go into "Account Information" interface, as shown in Figure 2-5, users can change the account information such as email address, password and so on.

Operating procedures of the bound mailbox

- 1) Click "Operating" in "Personal information"
- 2) Select "Bind/Unbind the mailbox" to open the setting screen as Figure 2-6 shows;

- 3) Enter the email address, but please ensure, the email is not for other account;
- 4) Email will get a link, please click the link to bind email

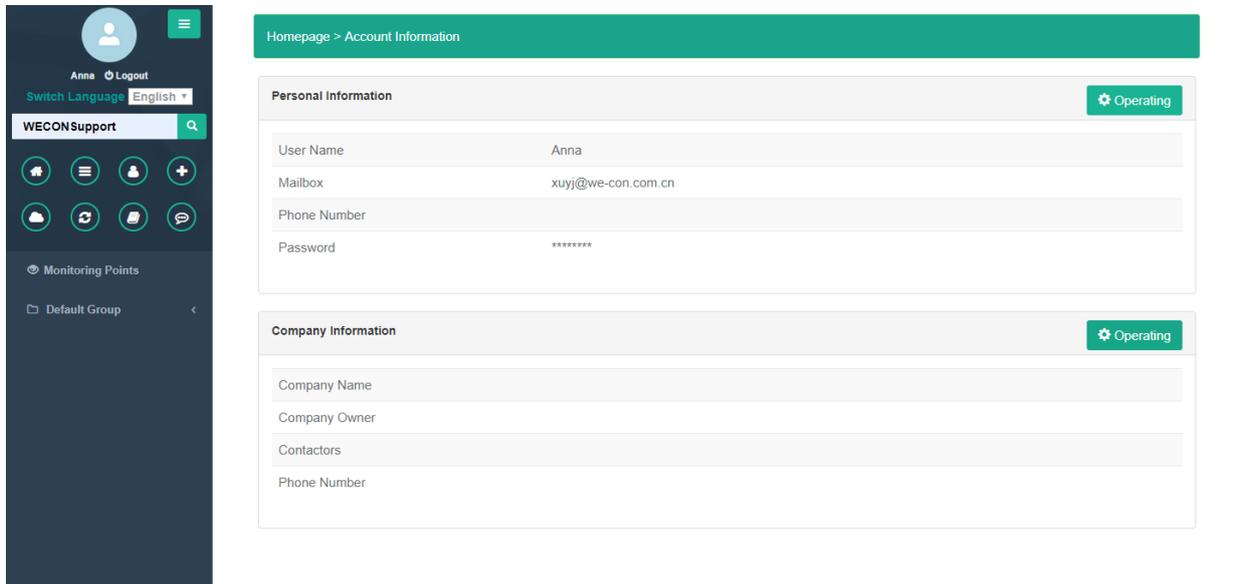


Figure 2-5

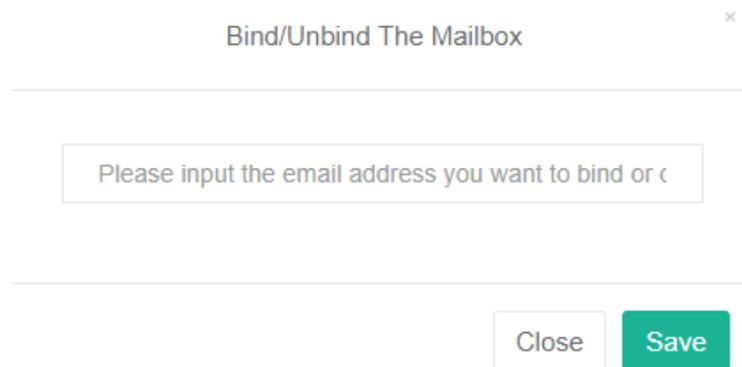
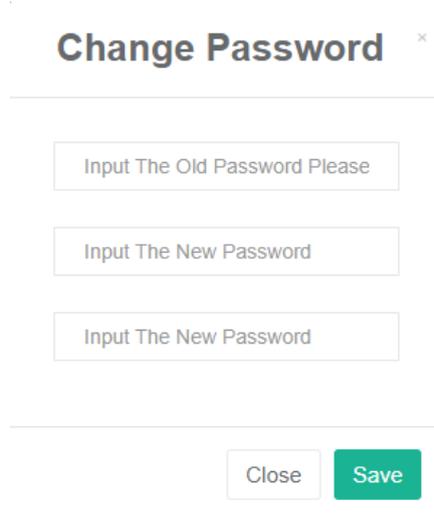


Figure 2-6

Operating procedures of changing password

- 1) Click "Operating" in "Personal information"
- 2) Select "Change password" to open the setting screen as Figure 2-7 shows;
- 3) Enter the old password and new password;
- 4) Click "Save" to finish settings;



Change Password ×

Input The Old Password Please

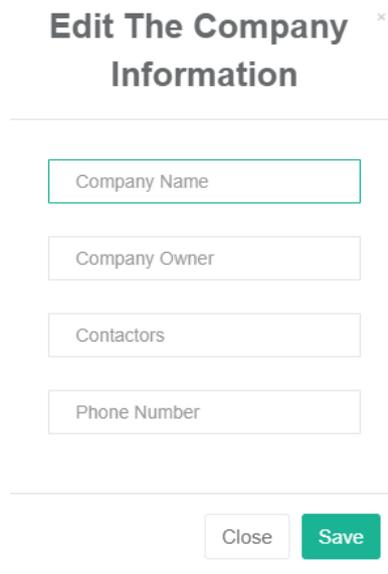
Input The New Password

Input The New Password

Close Save

Figure 2-7

Operating procedures of changing password



Edit The Company Information ×

Company Name

Company Owner

Contactors

Phone Number

Close Save

Figure 2-8

- 1) Click "Operating" in "Company information"
- 2) Select "Edit the company information" to open the setting screen as Figure 2-8 shows;
- 3) Enter company information;
- 4) Click "Save" to finish settings;

3. Configuration

application and the V-BOX configuration software and configuration interface button is marked in red, as shown in Figure 3-1.

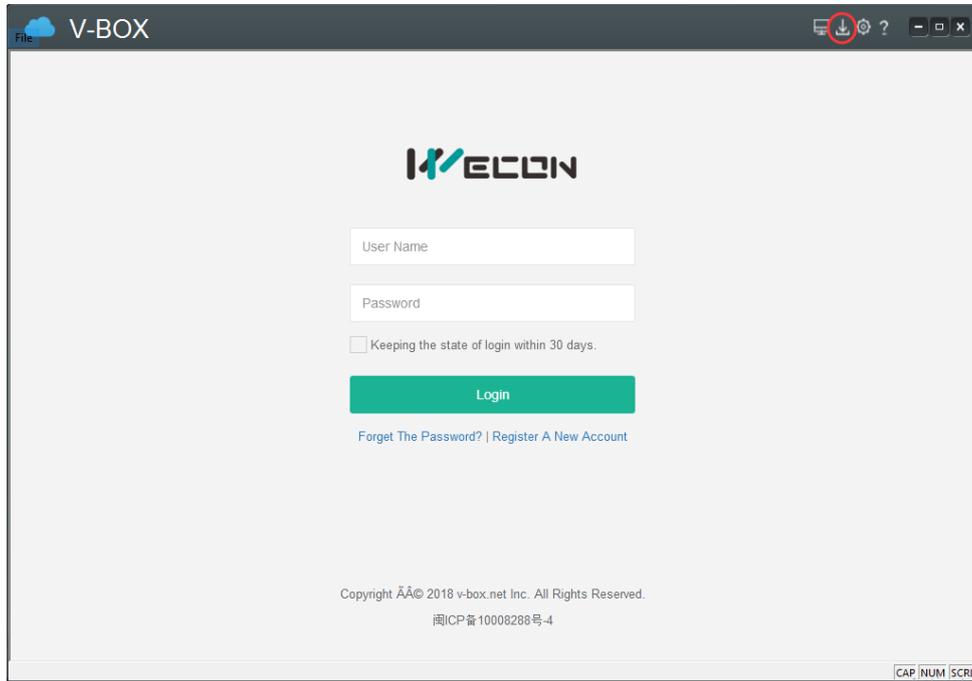


Figure 3-1

The configuration items of the V-Box includes the Ethernet parameters settings, access password, server connection mode, the V-BOX ID acquisition, update time, and so on, as shown in Figure 3-2.

3.1 Configure V-BOX

Connect V-BOX to PC via Micro USB cable, the window in configuration interface will display connection information, such as Recognise V-BOX without 4G module, as shown in Figure 3-2.

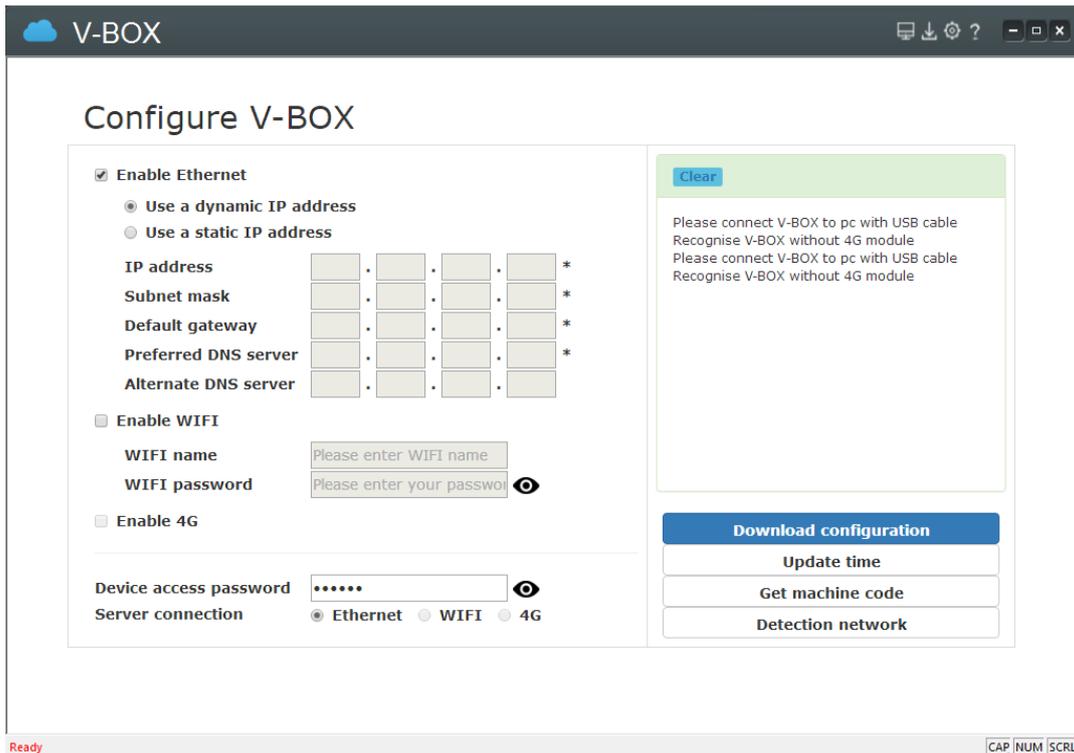


Figure 3-2

3.2 Device access password

For the V-BOX device, there is access password, **the default is 888888**. Users can change the password as they want.

Operating procedures of changing access password

- 1) Enter new password in "Device access password";

3.3 Server connection

The server connection is used to configure the V-BOX network connection mode. There are three connection modes: Ethernet mode, WIFI mode, and 4G network mode.

KEY NOTES: 4G connection mode is only available in V-BOX that supports 4G function. Each country's 4G frequency band and system are different. When purchasing a V-BOX containing 4G function, please maintain sufficient communication with the salesman.

Operating procedures of Ethernet settings

- 1) Connect Ethernet cable to V-BOX;
- 2) Check "Enable Ethernet";
- 3) Select modes, "Use a dynamic IP address" or "Use a static IP address";
- 4) If select "Use a static IP address", please enter IP address, subnet mask, default gateway, preferred DNS server and Alternate DNS server;
- 5) Select "Ethernet" in Server connection;

Operating procedure of WIFI settings

- 1) Check "Enable WIFI";
- 2) Enter WIFI name;
- 3) Enter WIFI password;
- 4) Select "WIFI" in Server connection;

Operating procedure of 4G settings

- 1) Install 4G SIM card in V-BOX;
- 2) Check "Enable 4G";
- 3) Select "4G" in Server connection;

3.4 Update time

This configuration interface provides V-BOX time calibration.

Operating procedures

- 1) Connection device to PC;
- 2) Click "Update time" button in interface;

3.5 Get V-BOX ID

Every V-BOX has its own unique V-BOX ID. Only when the V-BOX ID is acquired can it be bound and monitored.

Operating procedures

- 1) Connection device to PC;
- 2) Click "Get V-BOX ID" button in interface;
- 3) Window in Configuration interface will display V-BOX ID;

4. V-BOX basic operation

This chapter describes the basic operation and functions of V-BOX.

4.1 Basic operations

4.1.1 Add V-BOX

Users need to add V-BOX to account for operation.

Operating procedures

Click "+" button to open setting screen, as shown in Figure 4-1;

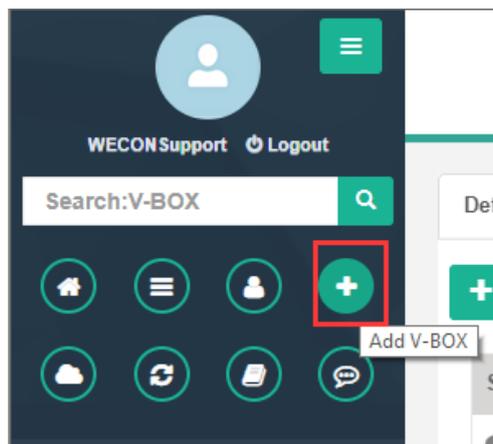
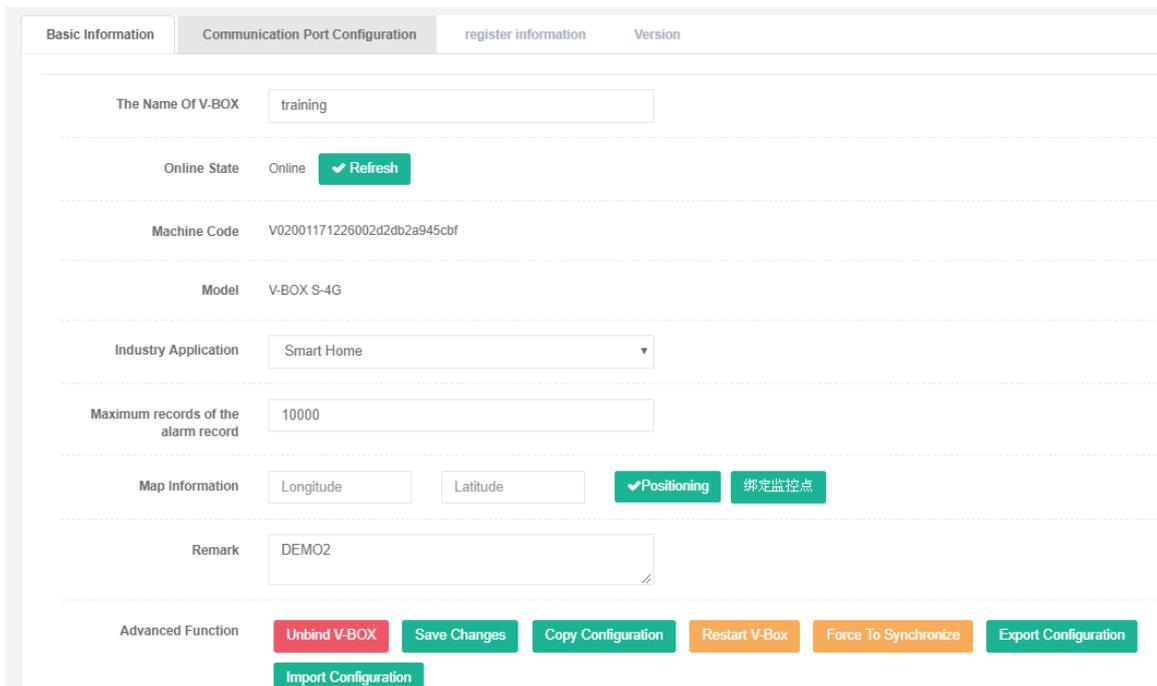


Figure 4-1

- 1) Enter V-BOX ID ([How to get V-BOX ID? Chapter 3.5](#));
- 2) Enter V-BOX password ([How to set V-BOX password? Chapter 3.2](#));
- 3) Enter Description of V-BOX;
- 4) Select Group;
- 5) Select Application type;
- 6) Click the "Save" to complete settings;

4.1.2 Basic information and Map

V-BOX.net and V-BOX application provide basic settings screen for users, as shown in Figure 4-2.



The screenshot shows a web-based configuration interface for a V-BOX device. It features a top navigation bar with tabs for 'Basic Information', 'Communication Port Configuration', 'register information', and 'Version'. The 'Basic Information' tab is active. The interface includes several input fields and buttons:

- The Name Of V-BOX:** A text input field containing 'training'.
- Online State:** A dropdown menu set to 'Online' with a green 'Refresh' button.
- Machine Code:** A text input field containing 'V02001171226002d2db2a945cbf'.
- Model:** A text input field containing 'V-BOX S-4G'.
- Industry Application:** A dropdown menu set to 'Smart Home'.
- Maximum records of the alarm record:** A text input field containing '10000'.
- Map Information:** Two text input fields for 'Longitude' and 'Latitude', a green 'Positioning' button, and a green button labeled '绑定监控点' (Bind Monitoring Point).
- Remark:** A text input field containing 'DEMO2'.
- Advanced Function:** A row of buttons including 'Unbind V-BOX' (red), 'Save Changes' (green), 'Copy Configuration' (green), 'Restart V-Box' (orange), 'Force To Synchronize' (orange), 'Export Configuration' (green), and 'Import Configuration' (green).

Figure 4-2

In this screen, which allows users to modify the V-BOX basic information (such as name, application type, the maximum number of alarm records), get basic information of V-BOX device, and do some basic operations (such as delete V-BOX, copy configuration, and so on).

Operating procedure of modify Configurations

- 1) Select V-BOX in the list (from the left side of the main screen);
- 2) Click "Configuration" ->"Basic information";
- 3) Modify configurations of V-BOX, such as name, group and so on;
- 4) Click the "Save" button to complete modification;

Operating procedure of position

- 1) Select V-BOX in the list (from the left side of the main screen);
- 2) Click "Configuration" ->"Basic information";
- 3) Enter the latitude and longitude of the location in "Map Information";
- 4) Click the "Positioning" button, it will pop-up map screen;
- 5) Select the position in the map, and right click position in the map, it will pop-up message as shown in Figure 4-3;

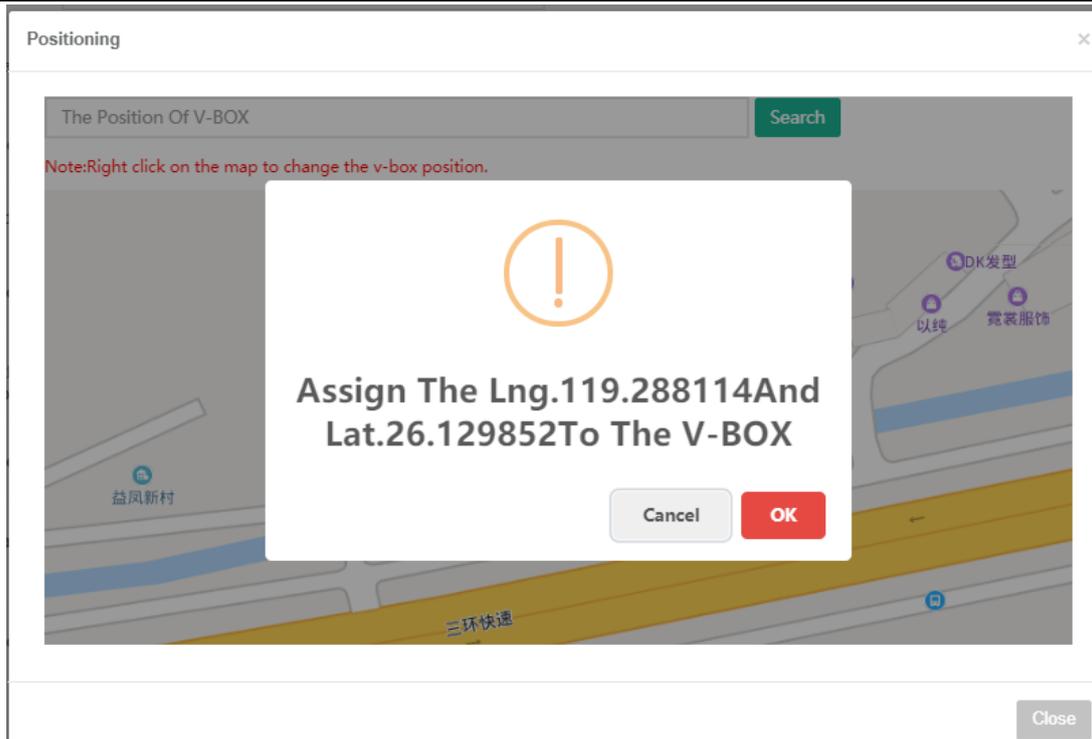


Figure 4-3

4.1.3 Remove V-BOX

The V-BOX device can be removed from account.

Operating procedures

- 1) Select V-BOX in the list (from left side of the main screen);
- 2) Click "Configuration" ->"Basic information";
- 3) Click "Remove V-BOX" button;

4.1.4 Configuration operations

It provides three operations for configuration. Copy, Import and Export.

Operating procedures of copy configuration

- 1) Select V-BOX in the list (from the left side of the main screen);
- 2) Click "Configuration" ->"Basic information";
- 3) Click "Copy configuration" button, it will pop-up copy window, the same model as selected V-BOX will be displayed in the list. For example, in WECONSupport account, Training (S-4G) is selected, then the

same model Beijing (S-4G) and V-BOX5 (S-4G) will be displayed in copy window, as shown in Figure 4-4;

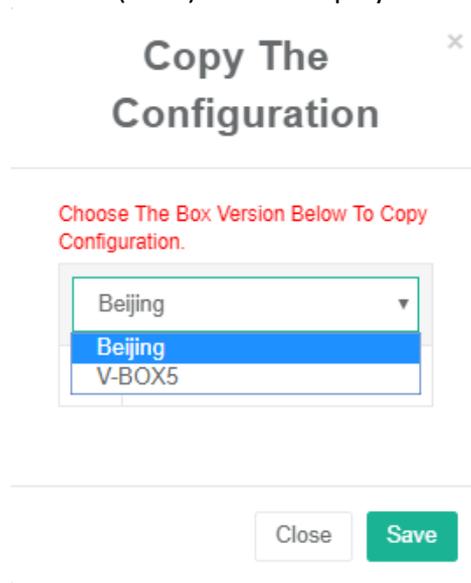


Figure 4-4

- 4) Select the V-BOX from the list;
- 5) Select copy items, it can support communication, real-time data, alarm record, historical data;
- 6) Click "Save" to execute the operation, and it will pop-up below information;

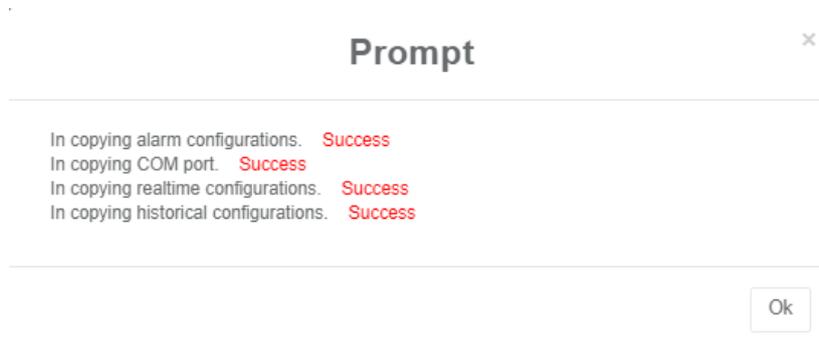


Figure 4-5

Note: To copy the setting of existing V-BOX to the new one, the copy operation is available when the new V-BOX is not configured. Otherwise, it would show the following error message.

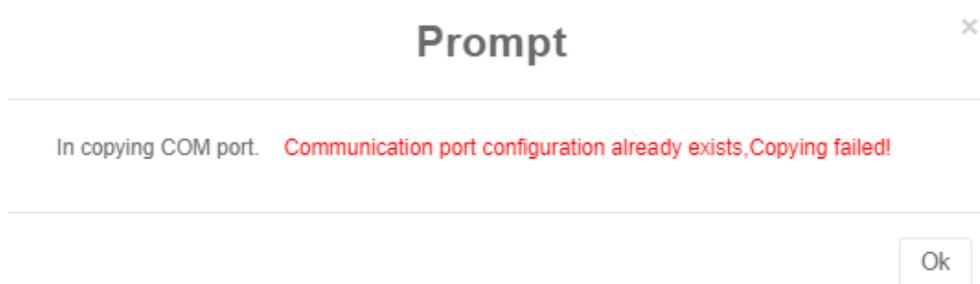


Figure 4-6

Operating procedure of export configuration

- 1) Select V-BOX in the list (From the left side of the main screen);
- 2) Click "Configuration" ->"Basic information";
- 3) Click "Export configuration" button, it will generate a "v-boxInfo.vbox" file;

Operating procedure of import configuration

- 1) Select V-BOX in the list (From the left side of the main screen);
- 2) Click "Configuration" ->"Basic information";
- 3) Click "Import Configuration" button, all configurations will be deleted in the selected V-BOX;
- 4) Select v-boxInfo.vbox file from PC then import;

4.1.5 Communication

V-BOX could support many PLC brands from the market; the configuration screen is in "Configuration"->"Communication" as shown in Figure 4-7, users can add, modify and delete communication configuration, but only administrator account has permissions to operate this function.

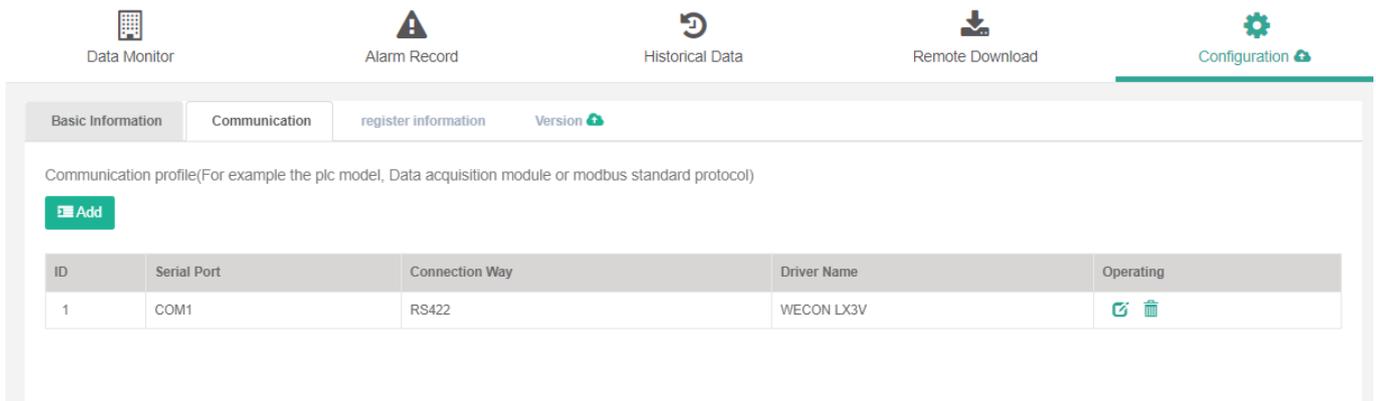


Figure 4-7

Operating procedure of adding communication

- 1) Select V-BOX in the list (From the left side of the main screen);
- 2) Click "Configuration" ->"Communication";
- 3) Click  button, it will pop-up screen as shown in Figure 4-8;

Add New Port ✕

Serial Port	<input type="text" value="COM1"/>	Device Type	<input type="text" value="Allen-Bradley"/>
Driver Name	<input type="text" value="Allen-Bradley DF1"/>	Station NO.	<input type="text" value="0"/>
PLC Station NO.	<input type="text" value="1"/>	Retry Times	<input type="text" value="2"/>
Receive Timeout	<input type="text" value="50"/> ms	Wait Timeout	<input type="text" value="300"/> ms
Delay time	<input type="text" value="0"/> ms	Continuous Length	<input type="text" value="0"/>
Baudrate	<input type="text" value="19200"/>	Retry Timeout	<input type="text" value="0"/> ms
Stop Bit	<input type="text" value="1"/>	Connection Way	<input type="text" value="RS232"/>
Check Bit	<input type="text" value="NONE"/>	Data Bit	<input type="text" value="8"/>

Figure 4-8

- 4) Select the connection port: serial port or ethernet port;
- 5) Select PLC brands or protocols from "Device Type";
- 6) Select PLC model or series in "Driver name" (Fill in as needed, optional);
- 7) Set V-BOX station number in "Station No. (Fill in as needed, optional)", Normally, RS485 needs to set this option;
- 8) Set PLC station number in "PLC Station No.";
- 9) Set communication parameters, such as Retry time, wait timeout, receive timeout, continuous Length and so on;
- 10) Click "Save" button to complete configuration;

Operating procedure of modifying communication

- 1) Select V-BOX in the list (From the left side of the main screen);
- 2) Click "Configuration" ->"Communication";
- 3) Click " in protocol list, it will pop-up screen as shown in Figure 4-9;
- 4) Change the connection port, serial port or ethernet port;
- 5) Change PLC brand in "Device Type";
- 6) Change PLC model or series in "Driver name" (Fill in as needed, optional);
- 7) Set V-BOX station number in "Station No. (Fill in as needed, optional)"
- 8) Set PLC station number in "PLC Station No."
- 9) Set communication parameters, such as Retry time, wait timeout, receive timeout, continuous Length and so on;
- 10) Click "Save" button to complete modification;

Operating procedure of deleting communication

- 1) Select V-BOX in the list (From the left side of the main screen);
- 2) Click "Configuration" ->"Communication";
- 3) Click "🗑️" in protocol list, it will pop-up screen as shown in Figure 4-9;



Are you sure to delete the configuration?



Figure 4-9

- 4) Click "OK" button to complete operation;

4.1.6 Version

Users can check the firmware version of V-BOX and update firmware in "Configuration"->"Version" as shown in Figure 4-10.

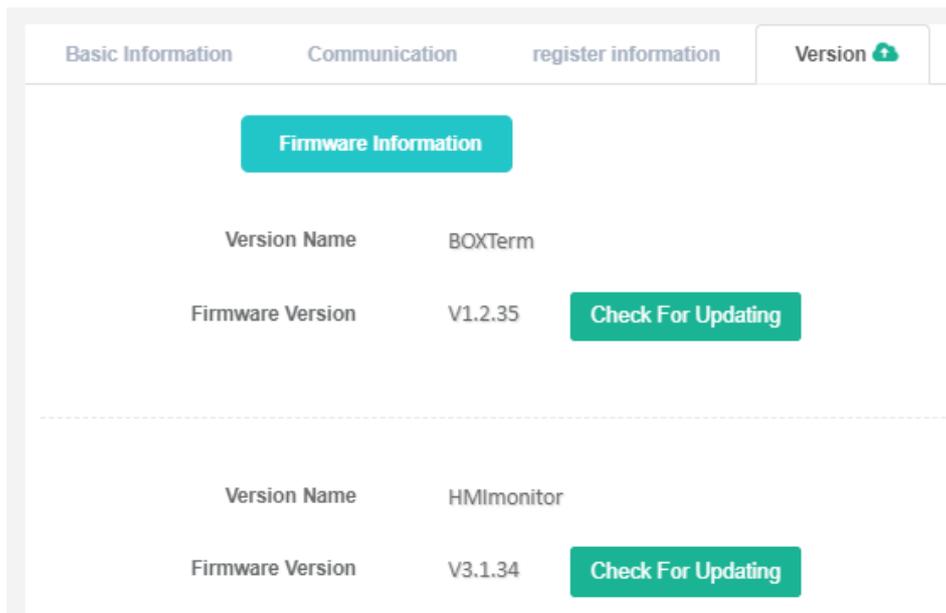


Figure 4-10

Operating procedure

- 1) Select V-BOX in the list (From the left side of the main screen);
- 2) Click "Configuration" ->"Version", it will display the firmware version as shown in Figure 4-10;
- 3) Click "Check for updating" button, if there is new version, it will ask update;
- 4) When updating completed, it will display information as shown in Figure 4-11;

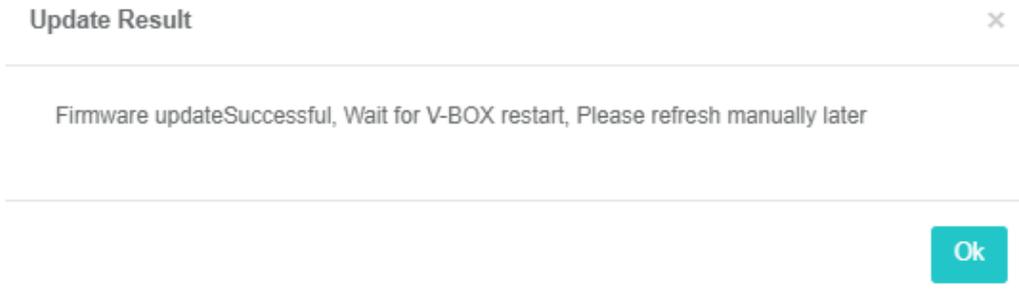


Figure 4-11

4.2 Group management

Admin account can manage account groups for V-BOX devices, including adding groups, modifying groups, and deleting groups, as shown in Figure 4-12.

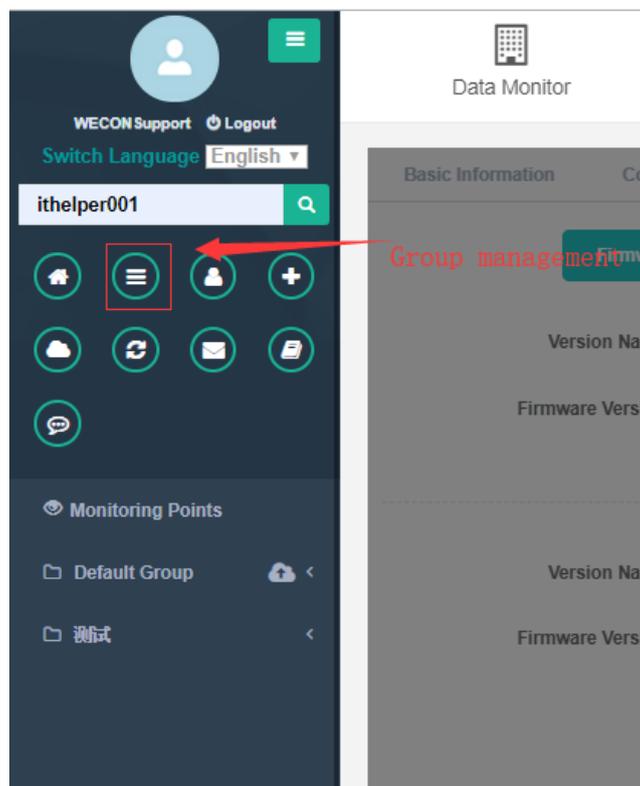


Figure 4-12

4.2.1 Add group

It is used for adding group in device list;

Operating procedures



Figure 4-13

- 1) Click "☰" in left of main screen, it will pop-up setting screen as shown in Figure 4-13;
- 2) Click "Add new group", it will pop-up screen as shown in Figure 4-14;

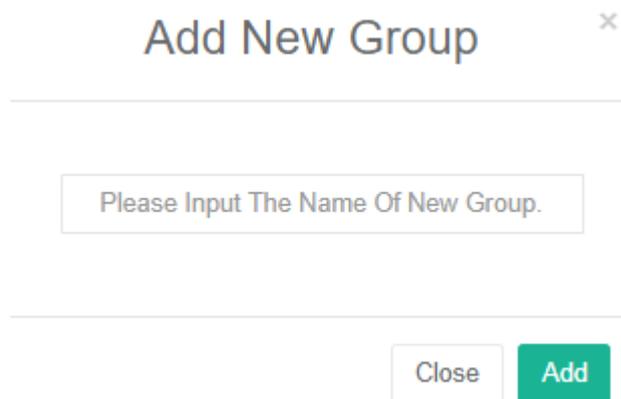


Figure 4-14

- 3) Enter group name;
- 4) Click "Add" button to complete operation;

4.2.2 Modify group

It is used for modify group information;

Operating procedures

- 1) Click "☰" in left of main screen, it will pop-up setting screen as shown in Figure 4-14;
- 2) Click "✎" in group list, it will pop-up screen as shown in Figure 4-15;
- 3) Enter the new name of group;
- 4) Click "Update" button to complete operation;

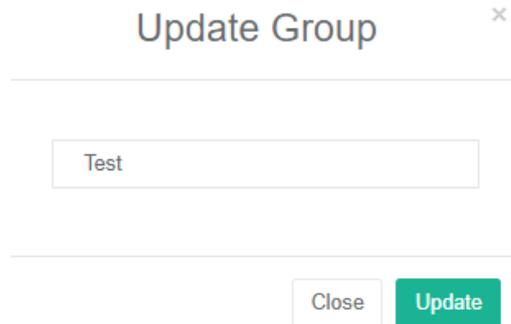


Figure 4-15

4.2.3 Delete group

- 1) Click "☰" in left of main screen, it will pop-up setting screen as shown in Figure 4-13;
- 2) Click "🗑️" in group list, it will pop-up screen as shown in Figure 4-16;
- 3) Click "OK" to complete operation;



Are you sure to delete this group?

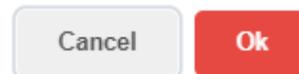


Figure 4-16

5. Monitoring operation

This section describes how to add real-time monitoring points, alarms and historical data.

5.1 Data monitor

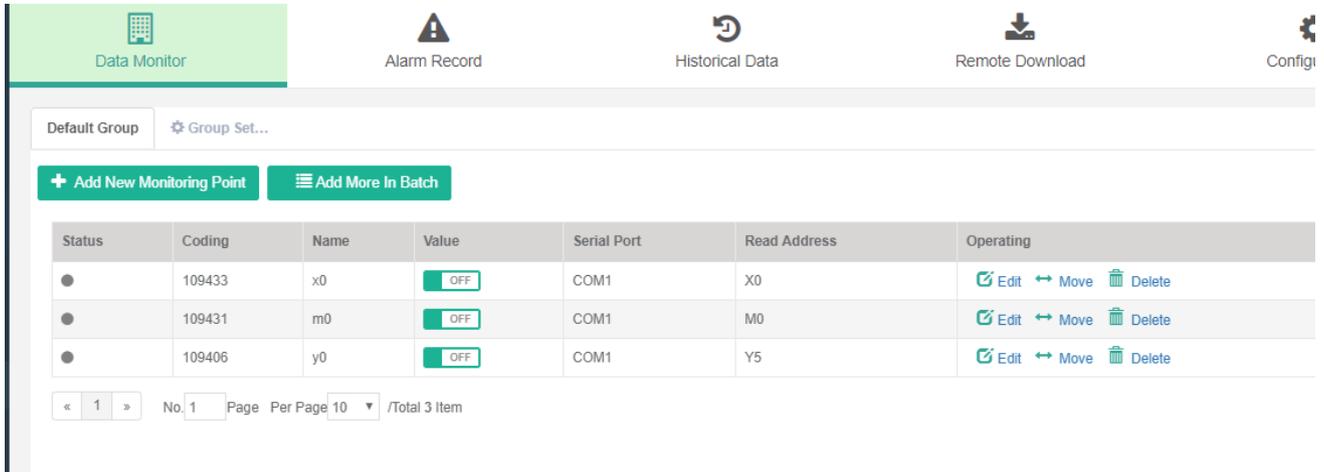


Figure 5-1

In data monitor screen, it displays all the monitoring tags, and users can add new tag, edit exist tags, modify tag's group and delete tags.

5.1.1 Add tag

When set communication between V-BOX device and other device, user can add any monitoring tags.

Operating procedures

- 1) Select V-BOX in the list (From the left side of the main screen);
- 2) Click "Data Monitor" into monitoring screen;
- 3) Click "Add new monitoring point" to pop up setting screen as shown in Figure 5-2;
- 4) Enter name of tag;
- 5) Select Connection;
- 6) Select address type, Bit address, word address or double word address;
- 7) Select "Register type";
- 8) Enter "Register address";
- 9) Set permissions, station number and others;
- 10) Click "OK" to complete settings;

×

Add Monitoring Data

Name	<input style="width: 90%;" type="text" value="Please input less than 50 characters"/>	
Connect Device	<input style="width: 90%;" type="text" value="1-COM1"/>	
Address Type	<input style="width: 50%;" type="text" value="Bit Addr"/>	Register Type <input style="width: 50%;" type="text" value="X"/>
Register Address (Main Number)	<input style="width: 50%;" type="text" value="0"/>	Main Number: 0 303237 (Octal)
Permissions	<input checked="" type="radio"/> Read&Write <input type="radio"/> Readonly	
Station Number	<input style="width: 50%;" type="text"/> Range: 0-255	
Map Display	<input type="radio"/> ON <input checked="" type="radio"/> OFF	
Description	<input style="width: 90%;" type="text" value="Please input less than 50 characters"/>	

Figure 5-2

5.1.2 Add tags in batch

This function is used to quickly add continuous tags;

Operating procedures

- 1) Select V-BOX in the list (From the left side of the main screen);
- 2) Click "Data Monitor" into monitoring screen;
- 3) Click "Add more in batch" button to pop up setting screen as shown in Figure 5-3;
- 4) Enter name of tag;
- 5) Set connection; Set first address;
- 6) Set address length in "Count of batch";
- 7) Set address interval in "Increment";
- 8) Select map display and others;
- 9) Click "OK" to complete settings;

×

Add Monitoring In Batch.

Name	<input type="text" value="Please input less than 50 characters"/>		
Connect Device	<input type="text" value="1-COM1"/>		
Address Type	<input type="text" value="Bit Addr"/>	Register Type	<input type="text" value="X"/>
Register Address (Main Number)	<input type="text" value="0"/>	Main Number: 0 303237 (Octal)	
Permissions	<input checked="" type="radio"/> Read&Write <input type="radio"/> Readonly		
Station Number	<input type="text"/>	Range: 0~255	
Count Of Batch	<input type="text" value="1"/>	Increment	<input type="text" value="1"/>
Map Display	<input type="radio"/> ON <input checked="" type="radio"/> OFF		
Description	<input type="text" value="Please input less than 50 characters"/>		

Figure 5-3

5.1.3 Group settings

Group settings can group monitoring tags for user classification management;

Operating procedure of adding group

- 1) Select V-BOX in the list (From the left side of the main screen);
- 2) Click "Data Monitor" into monitoring screen;
- 3) Select "Group settings", it will show group information as shown in Figure 5-4;

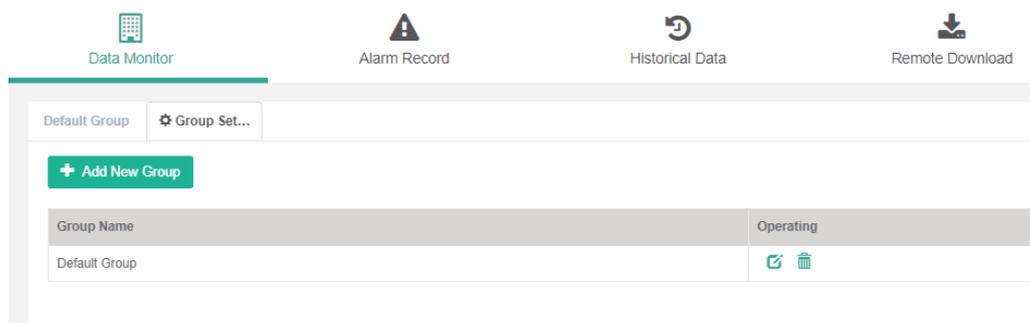


Figure 5-4

- 4) Click "Add new group" button to open setting screen, as shown in Figure 5-5;

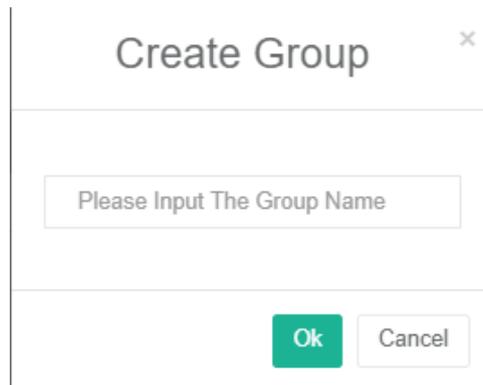


Figure 5-5

- 5) Enter group name;
- 6) Click "OK" to complete operations;

Operating procedures of modifying group

- 1) Select V-BOX in the list (From the left side of the main screen);
- 2) Click "Data Monitor" into monitoring screen;
- 3) Select "Group settings", it will show group information as shown in Figure 5-4;
- 4) Click "✎" button to open setting screen, as shown in Figure 5-6;

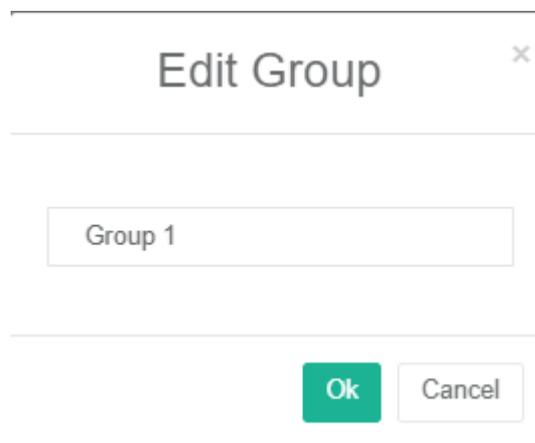


Figure 5-6

- 5) Change group name;
- 6) Click "OK" to complete operations;

Operating procedures of deleting group

- 1) Select V-BOX in the list (From the left side of the main screen);
- 2) Click "Data Monitor" into monitoring screen;
- 3) Select "Group settings", it will show group information as shown in Figure 5-4;

4) Click "🗑️" button, it will pop-up tip message as shown in Figure 5-7;

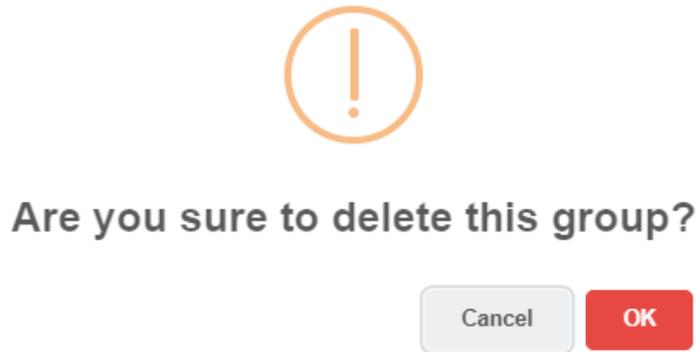


Figure 5-7

5) Click "OK" to execute operation;

5.1.4 Data monitor and operation

In the "Data monitoring" interface, user can check and modify data value of tags, as shown in Figure 5-8.

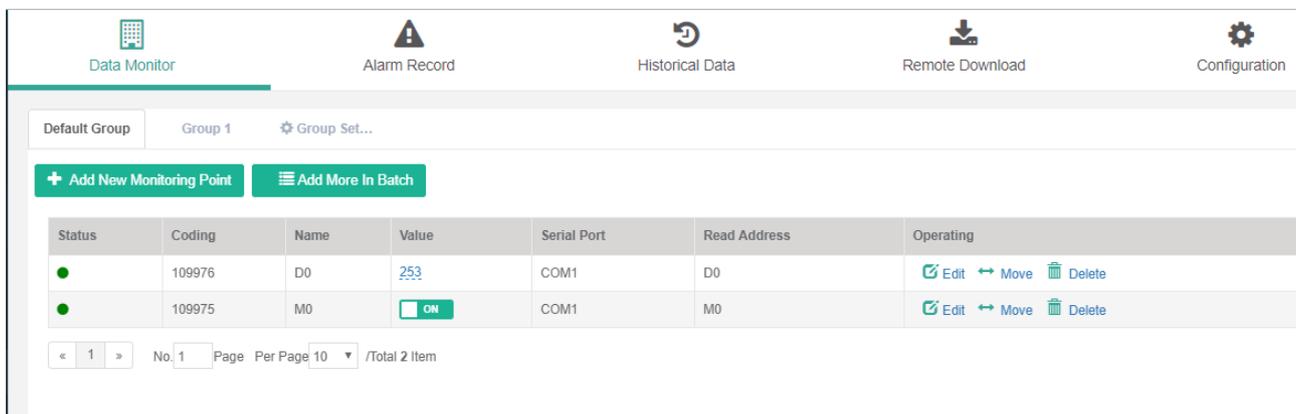


Figure 5-8

Operating procedures

- 1) Select tag;
- 2) Change value or state in "Value" column;

Operating procedures of editing tag

- 1) Select tag;
- 2) Click "Edit" button to open setting screen;

- 3) Change monitoring tag parameters;

Operating procedures of changing group

- 1) Select tag;
- 2) Click "Move" to open group list as shown in Figure 5-9;

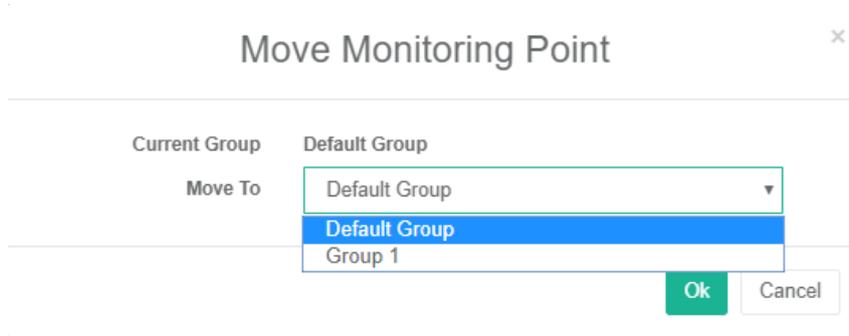


Figure 5-9

- 3) Select group;
- 4) Click "OK" to complete operations;

Operating procedures of deleting tag

- 1) Select tag;
- 2) Click "Delete" button, it will pop-up tip message as shown in Figure 5-10;

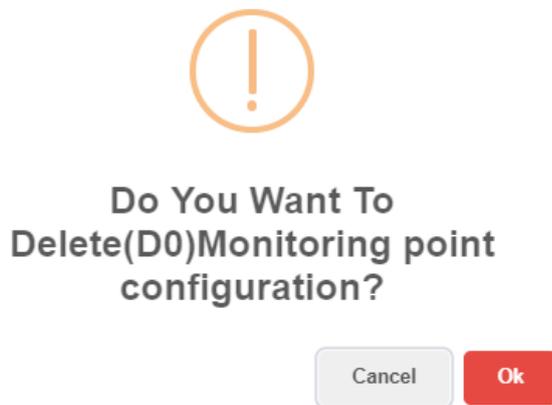


Figure 5-10

- 3) Click "OK" to complete operation;

5.2 Alarm record

User can modify the alarm conditions in "Alarm record" and query current alarm data and history alarm record information. Alarm record can be divided into current alarms and history alarms according to that

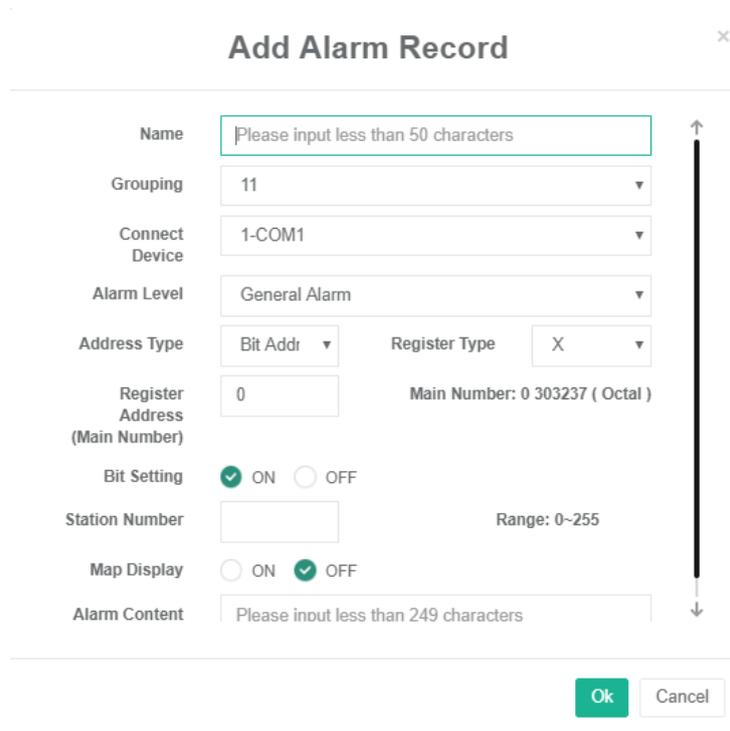
the administration account confirm the status.

5.2.1 Add alarm tag

In the “Alarm registration” sub-page under “Alarm data” interface, alarm data could be added. When adding alarm records, you need to select or enter the name, group, connection device (communication port) and address type.

Operating procedure

- 1) Select V-BOX;
- 2) Click "Alarm record" in top of mainscreen;
- 3) Click "Alarm Record"-> "Group setting" to create group;
- 4) Click "Alarm Record"-> " Alarm Record " to open setting screen;
- 5) Configure alarm tag parameters;



Add Alarm Record [Close]

Name:

Grouping:

Connect Device:

Alarm Level:

Address Type: Register Type:

Register Address (Main Number): Main Number: 0 303237 (Octal)

Bit Setting: ON OFF

Station Number: Range: 0-255

Map Display: ON OFF

Alarm Content:

Figure 5-11

- 6) Click "OK" to complete operations;

5.2.2 Alarm display

The information in “current alarm” sub-screen is alarm that not be confirmed, users can change the status of alarm record by “confirm” it. The “confirmed” alarm record will become history alarm record and will be transferred to “history alarm” sub-screen. In the sub-screen of “history alarm” User can search the alarm database on series number, name, starting and ending date and some other conditions.

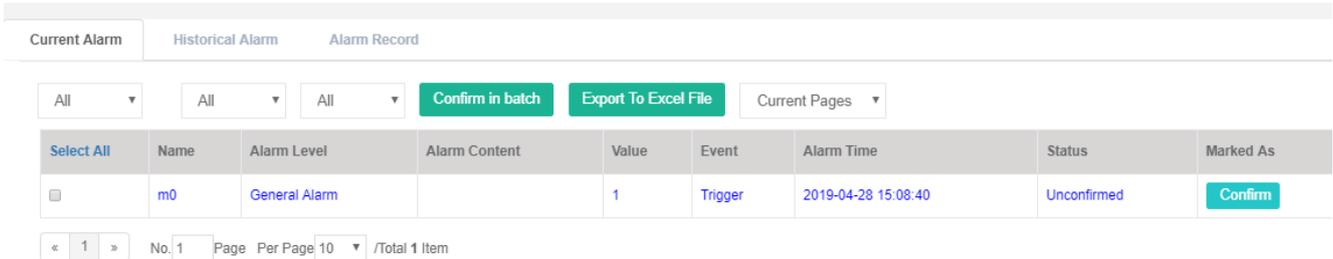


Figure 5-12 Current alarm

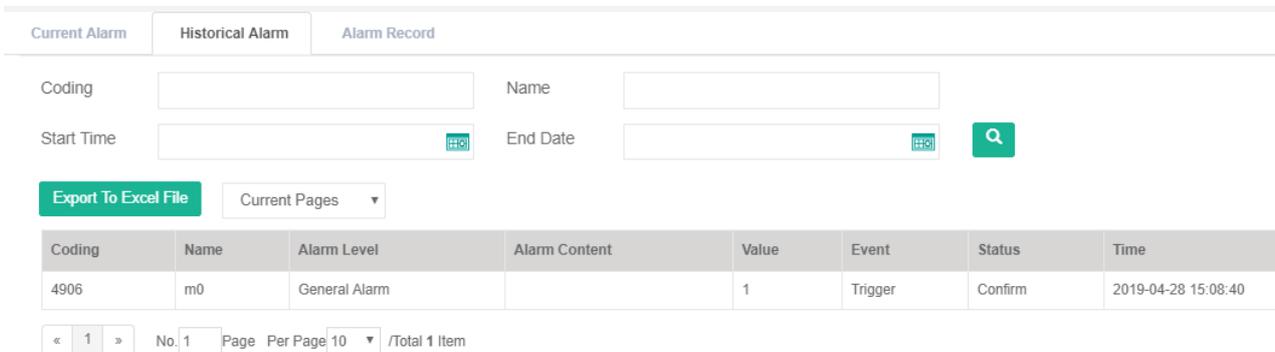


Figure 5-13 History alarm

5.3 Data record

In "Historical Data", the user can add the monitored address, set the data collection conditions, and the collected data is displayed in a data table, which can be used for query and storage.

5.3.1 Group setting

The user can set data logging trigger conditions for different groups and set the addresses of the same trigger conditions to the same group.

Operating procedure

- 1) Select V-BOX in the list (From the left side of the main screen);

- 2) Click "Historical Data" -> "Historical data registration" -> "Group setting" to open setting screen;
- 3) Click "Add" to create a new group;
- 4) Set group parameters as shown in Figure 5-14;

Figure 5-14

- 5) Click "✎" to change the group parameters;
- 6) Click "🗑️" to delete group;

5.3.2 Add tags for Historical data

There are two ways to add historical data for V-BOX. This section will introduce how to add historical data;

Operating procedures of adding one tag

Figure 5-15

- 1) Select V-BOX in the list (From the left side of the main screen);
- 2) Click "Historical Data" -> "Historical data registration" -> "Historical data registration" to open setting screen as shown in Figure 5-15;
- 3) Enter the parameters for tag;
- 4) Click "Save" to complete operation;

Operating procedures of adding tags in batch

- 1) Select V-BOX in the list (From the left side of the main screen);
- 2) Click "Historical Data" -> "Historical data registration" -> "Add more in batch" to open setting screen as shown in Figure 5-16;
- 3) Set the parameters for the start address;
- 4) Set data length in "Count of batch";
- 5) Set address interval in "Increment";

×

Register data in batches

Name	<input style="width: 90%;" type="text" value="Please input less than 50 characters"/>	
Grouping	<input style="width: 90%;" type="text" value="test"/>	
Connect Device	<input style="width: 90%;" type="text" value="1-Ethernet"/>	
Address Type	<input style="width: 40%;" type="text" value="Bit Addre"/>	Register Type <input style="width: 40%;" type="text" value="0"/>
Register Address (Main Number)	<input style="width: 40%;" type="text" value="0"/> Main Number: 0 99999 (Decimals)	
Station Number	<input style="width: 40%;" type="text"/> Range: 0~255	
Count Of Batch	<input style="width: 40%;" type="text" value="1"/>	Increment <input style="width: 40%;" type="text" value="1"/>
Description	<input style="width: 90%;" type="text" value="Please input less than 50 characters"/>	

Ok
Cancel

Figure 5-16

5.3.3 Data record display

There are two modes for display data, one is in list, and the other is in curve, users can select the mode as they need.

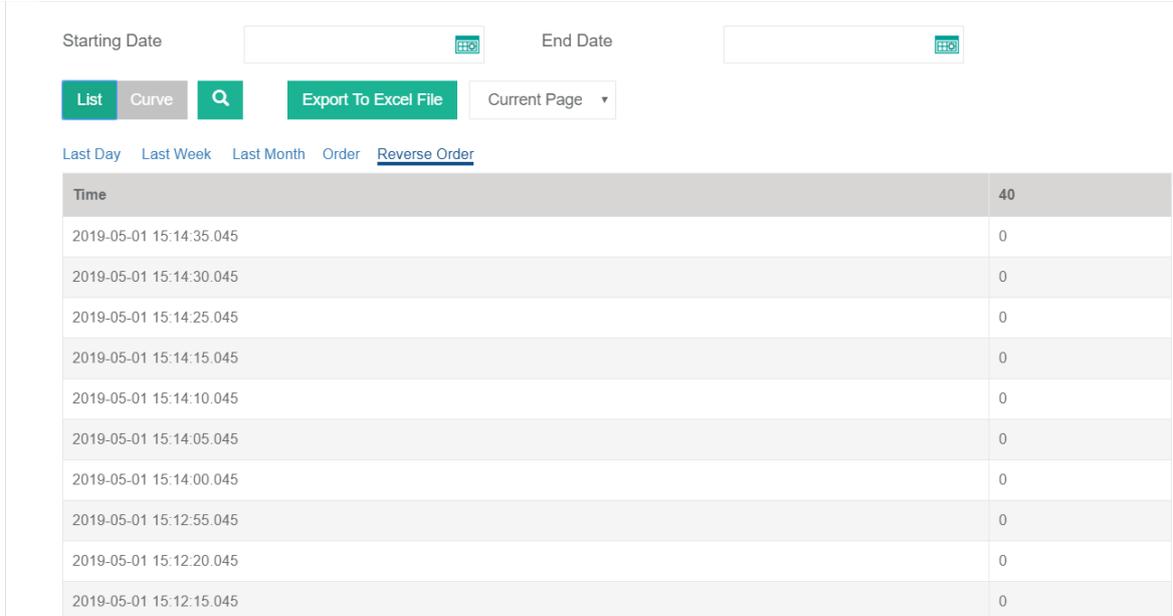


Figure 5-17 in list

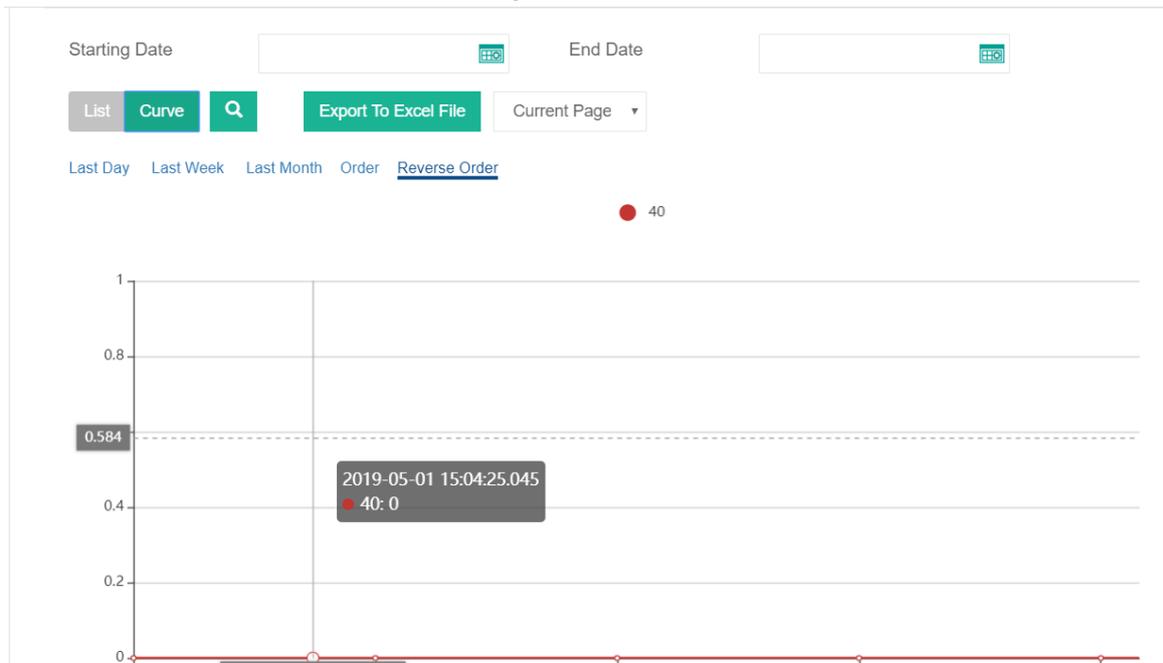


Figure 5-18 in curve

5.3.4 Export data record

It provides export data record to a CSV file. Users can export data record for backup;

Operating procedure

- 1) Select V-BOX in the list (From the left side of the main screen);
- 2) Click "Historical Data" -> "Raw data" -> "Export to excel file";

6. View-accounts management

The account bound to the V-BOX is called the "admin account" (relative to the view-account). A V-BOX can only be added to an admin account.

6.1 About view-accounts

An admin account can set multiple view-accounts and configure the view-account operation rights of the V-BOX. As shown in Figure 6-1.

For example

Admin account has four V-boxes (A, B, C, D), and every V-BOX has more than one value, (A1, A2, A3, A4, B1, B2, B3, C1, C2, C3, C4, D1, D2, D3). And Admin account creates four view-accounts, and assigns different value for those view-accounts, and the result as below;

View-account1: A1, B1, C1, D1;

View-account2: A2, B2, C2, D2;

View-account3: A3, A4, C3, C4, D3;

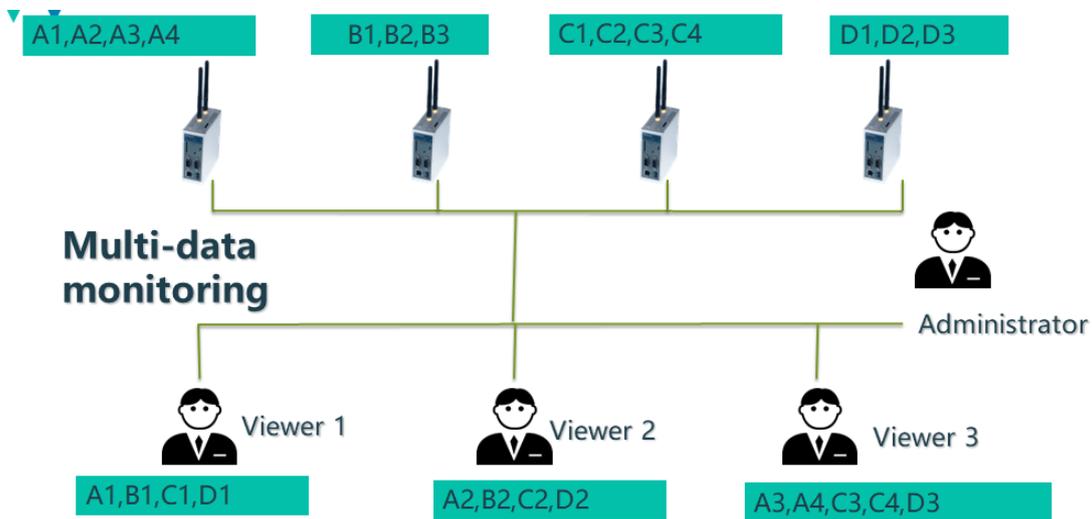


Figure 6-1

1.1 6.2 View-account management

On the left side of the main screen, click the "View Account Management" button to enter the management interface. Users can add and disable view-accounts, modify view-account permissions, etc. as

shown in Figure 6-2.

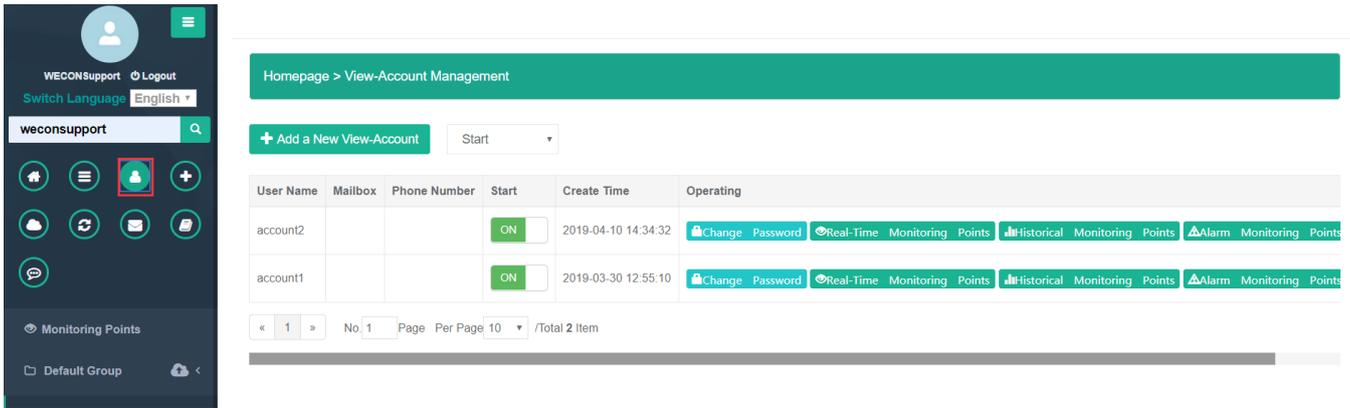


Figure 6-2

Operating procedures of adding and disable view-account

- 1) Click “view-account management” to access setting interface;
- 2) Click “Add an new view account” to pop up screen as shown in Figure 6-3;

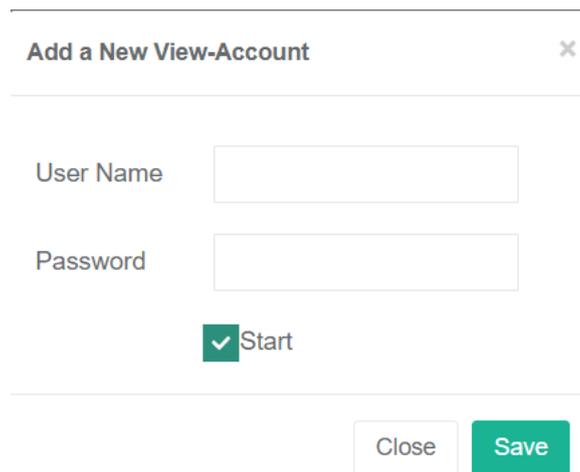


Figure 6-3

- 3) Enter user name and password, the user name is unique;
- 4) Click “Save” to complete operations for adding new;
- 5) In the view-account list, admin can click switch button to disable view-account, as shown in Figure 6-4;

User Name	Mailbox	Phone Number	Start
account2			<input type="checkbox"/> OFF
account1			<input checked="" type="checkbox"/> ON

Figure 6-4

Operating procedures of setting permissions

- 1) Click “view-account management” to access setting interface;
- 2) Click “Change password” to pop-up setting interface as shown in Figure 6-5;
- 3) Enter new password and click “Save”;
- 4) Click “Real-time monitoring points” to set the permission of real time tag;
- 5) Click “Assign monitoring point” to open the setting interface as shown in Figure 6-6;
- 6) Assign the tags for view account;
- 7) Click “OK” to save configuration;
- 8) The save operations for Historical monitoring points and alarm monitoring points;

Figure 6-5

Select All	Name	Owned V-BOX	Permissions	Address
<input type="checkbox"/>	Water input M0	Beijing	<input checked="" type="radio"/> Readonly <input type="radio"/> Read&Write	0
<input type="checkbox"/>	water out M1	Beijing	<input checked="" type="radio"/> Readonly <input type="radio"/> Read&Write	1
<input type="checkbox"/>	run frequency D0	Beijing	<input checked="" type="radio"/> Readonly <input type="radio"/> Read&Write	0
<input type="checkbox"/>	Setting frequency D2	Beijing	<input checked="" type="radio"/> Readonly <input type="radio"/> Read&Write	2
<input type="checkbox"/>	instantaneous flow D4	Beijing	<input checked="" type="radio"/> Readonly <input type="radio"/> Read&Write	4
<input type="checkbox"/>	Current D6	Beijing	<input checked="" type="radio"/> Readonly <input type="radio"/> Read&Write	6

Figure 6-6

7. OPC function

This chapter describes how to use OPC TOOL on your computer to realize WECON V-box OPC function.

7.1 Function description

7.1.1 Sign in interface

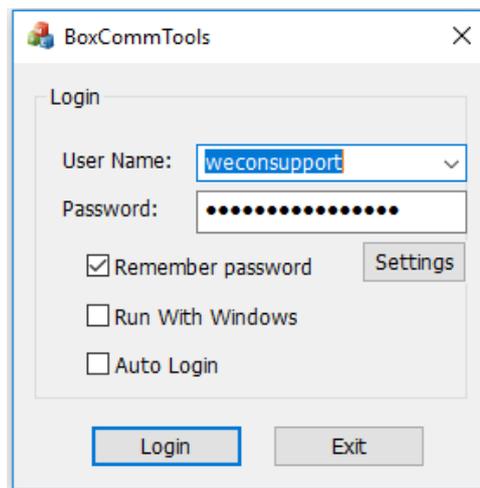


Figure 7-1

Interface function:

- 1) User Name: For enter V-BOX account;
- 2) Password: For account password;
- 3) Settings: For server address;
- 4) Remember password: Check it to keep account information;
- 5) Run with Windows: Software will run automatically, when Windows boot;
- 6) Auto Login: When run software, it will login automatically;

7.1.2 Server setting

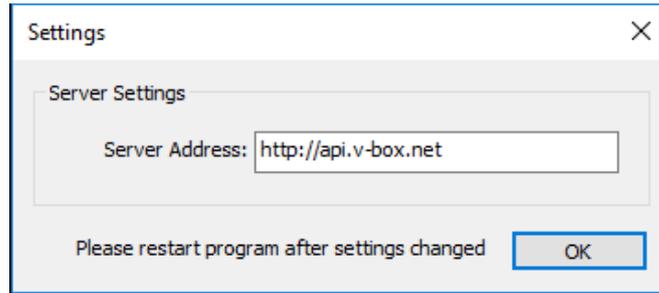


Figure 7-2

- 1) URL address verification
- 2) The software needs to be restarted to take effect.

7.1.3 Right click menu

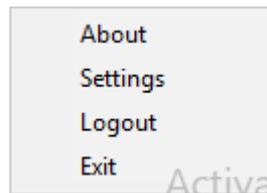


Figure 7-3

- 1) About: Software version information;
- 2) Settings: Open the server address settings dialog;
- 3) Logout: Switch user;
- 4) Exit: Exit the software;

7.2 Example

7.2.1 Use OPC SERVER and OPC CLIENT on the same PC

Operating procedure

- 1) User sign in

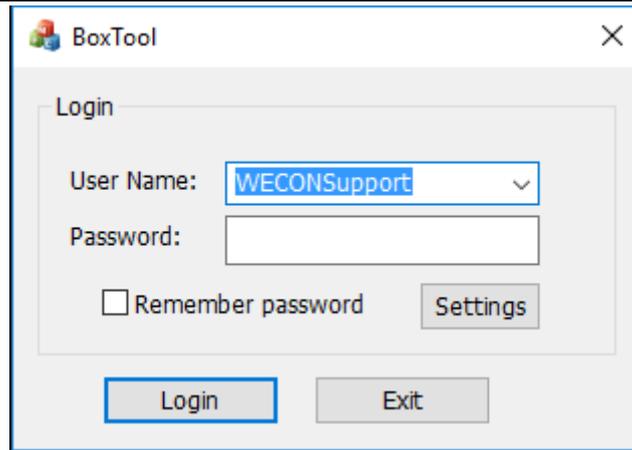


Figure 7-4

- The user name and password are based on the corresponding server address. After the user logs in successfully, the software starts OPC SERVER.
- After successfully sign in, the software will be minimized to the lower right corner and prompt "obtaining server data"
- When the prompt "Server data obtained", it means that the OPC SERVER is successfully started.

2) Use third-party OPC CLIENT software to monitor V-BOX tags;

7.2.2 Configuring OPC remote access

Operating procedure

- 1) Configuring DCOM
- 2) OPC CLIENT settings
 - Use the IP address of the PC where the OPC SERVER is located as the network node name.

7.3 Note

After the software is started, OPC tool cannot synchronized with the dynamic modification tags on the V-BOX software. Restart is needed.

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Date: May 2019