



EEM-Prepayment Software Instruction V1.0

Website: <http://www.eastrongroup.com>

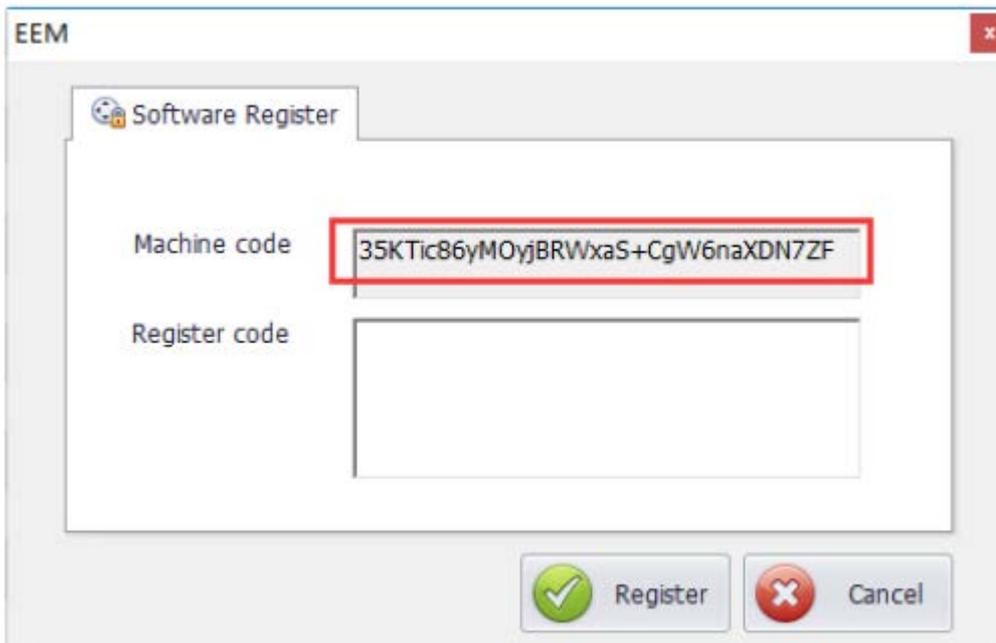
1. EEM Register

Registration process:

Open EEM software, open system menu **【Help】** -> **【About】**



Click "Register", then a dialog box will come out.



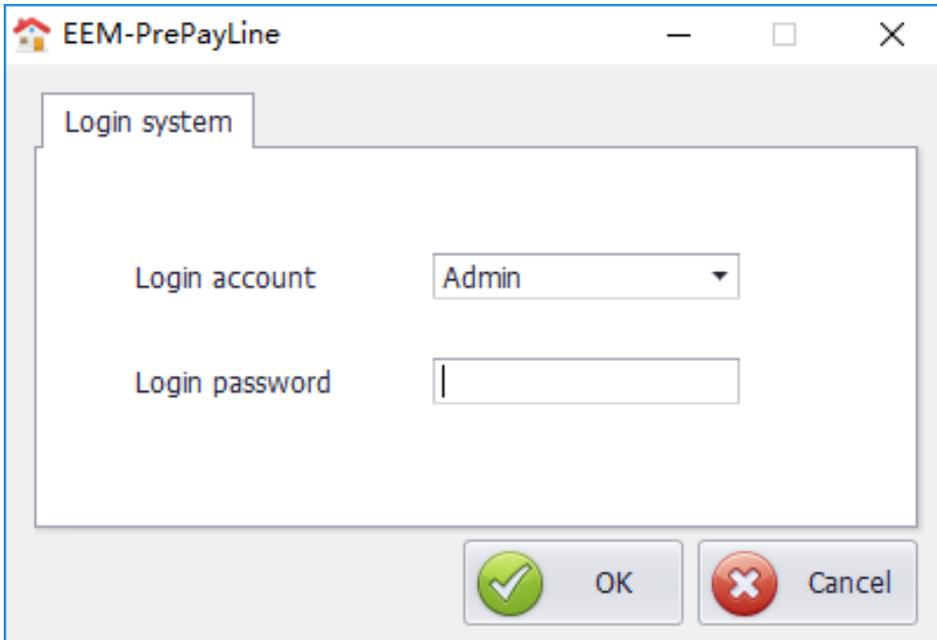
Copy characters after "Machine code", send it to software manager, the manager will send back a register code. put the register code in, press "Register", then the software will be successfully registered.

Click to enter EEM software.



2. EEM System User Login

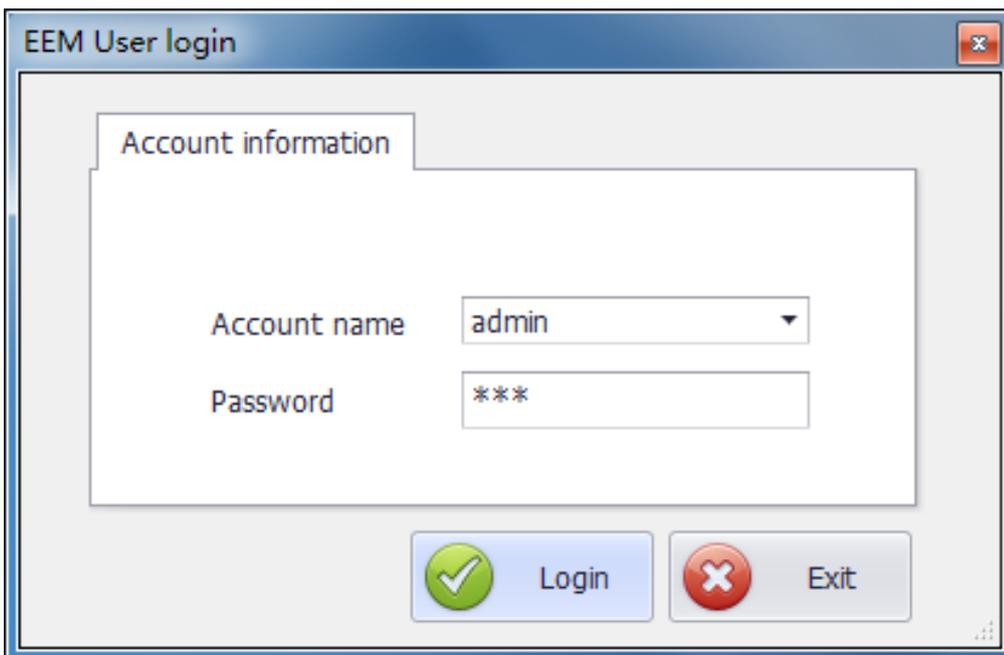
After the software open, the software will automatically open a small popup window about user login, press account name and password.



Software default user name: admin

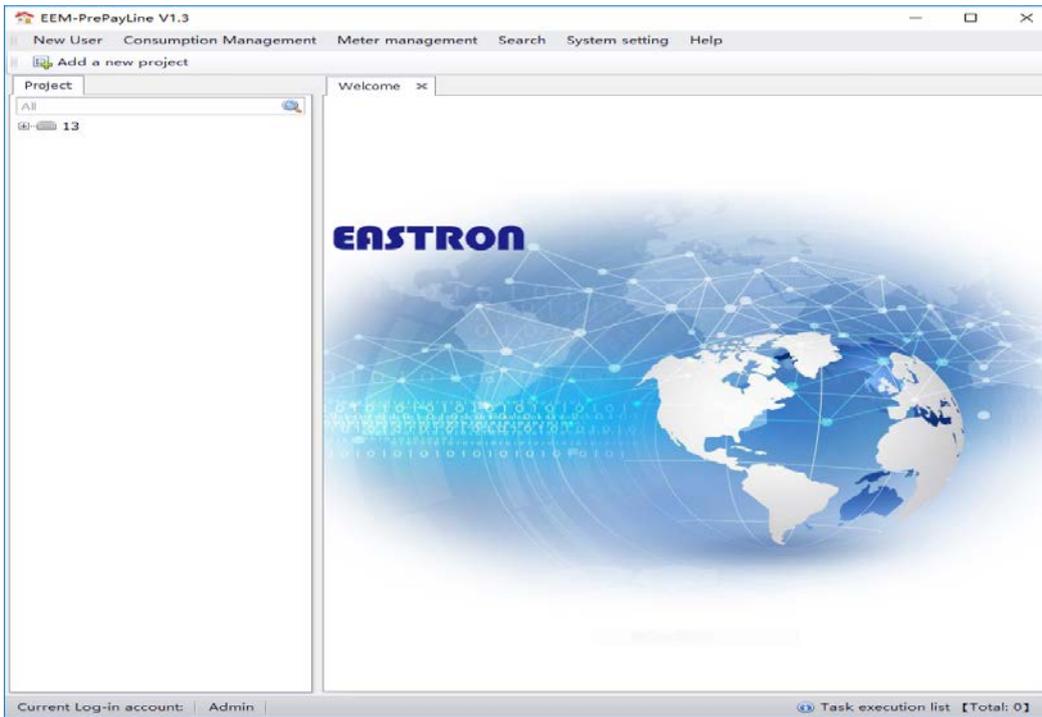
default password: 999

Press right account name and password to enter EEM system.



2.1 Function Overview

All the function can be operated on the upper corner of the tree structure.



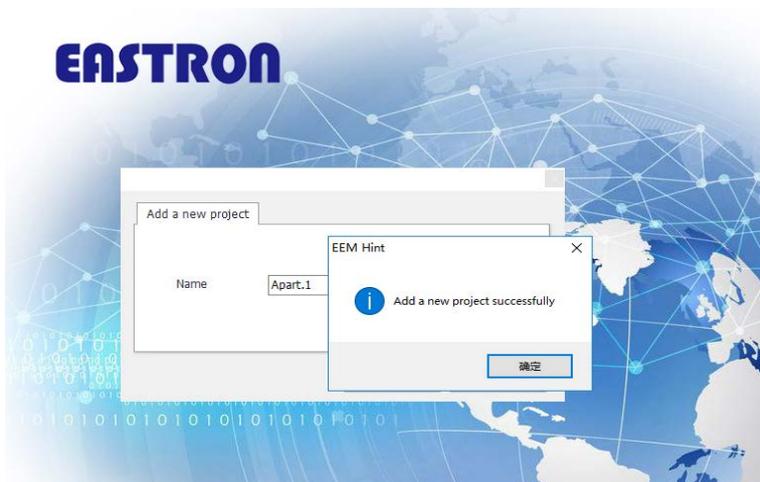
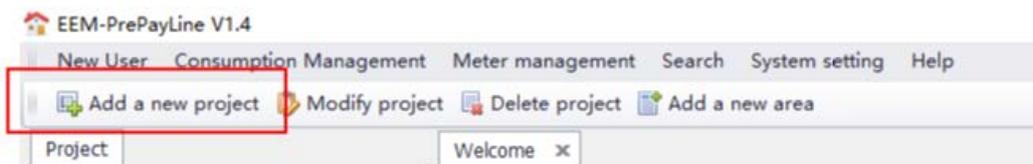
2.2 Add New Projects

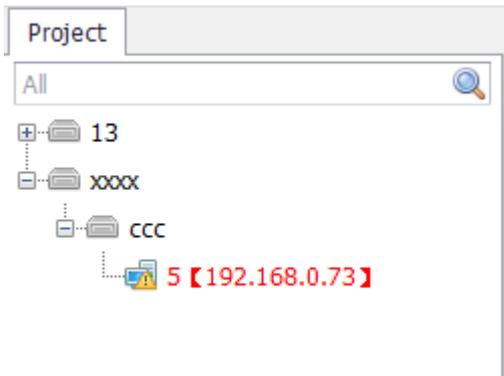
Below can add new channels and energy meters.

“Projects” can be re-named, like “xxxGarden”、 “XXXbuliding”.

Operation like this: click left button to choose “Projects”, click right button to open a small popup window.

2.2.1 Build a Project





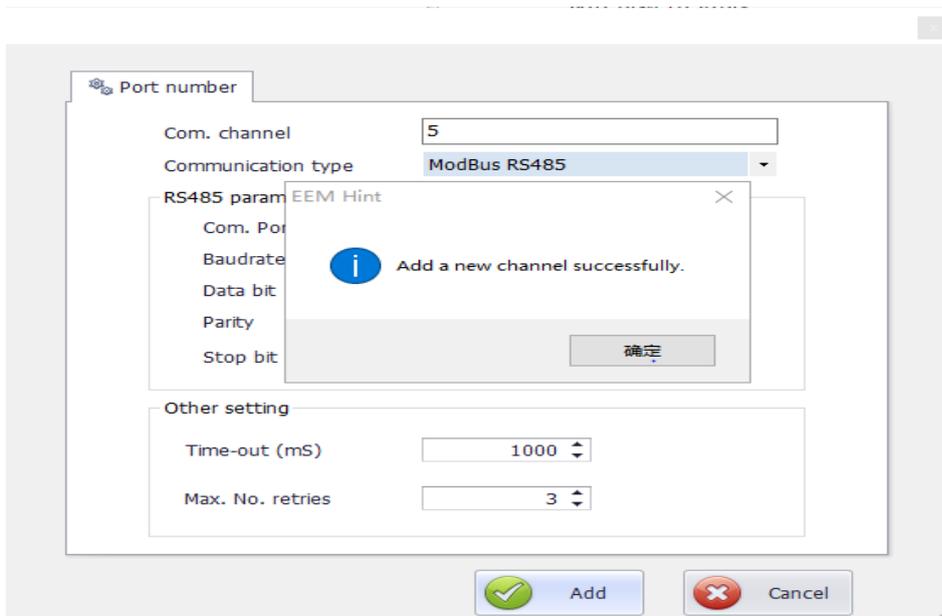
2.2.2 Add a New Channel

Click “Projects”, on toolbar will appear “Add new channel” button,

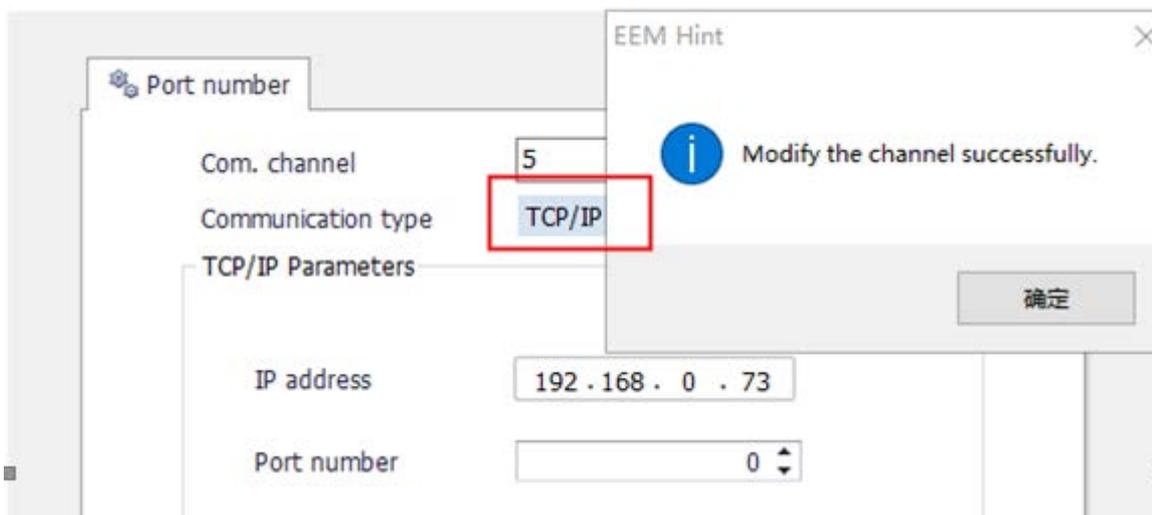
Click “Add new channel” button to open a small popup window.

Enter Channel name

Connection type: choose communication port (TCP/IP-RS485、Modbus RS485/232)



If need TCP/IP, please choose the communication type as TCP/IP:



Host: enter TCP/IP-485 gateway IP address;

Port: enter TCP/IP-485 gateway port number;

remark: EEM operating mode is Client mode, TCP/IP-485 gateway need to be set to Server mode;

Communication mode: two communication mode (Modbus-RTU、Modbus-TCP), need to be set the same as the communication port.

Other parameters:

Other setting

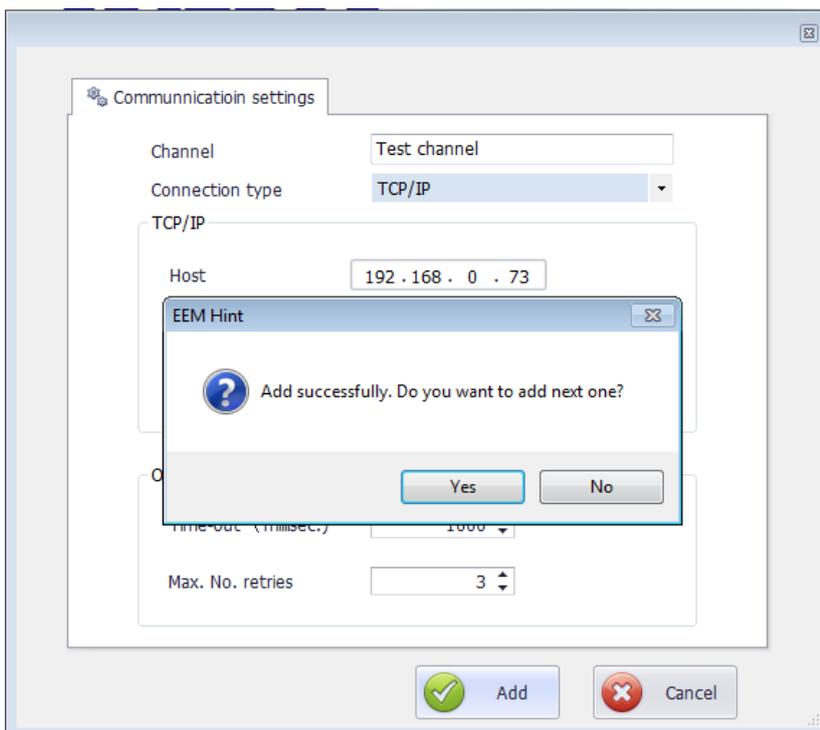
Time-out (millisec.)

Max. No. retries

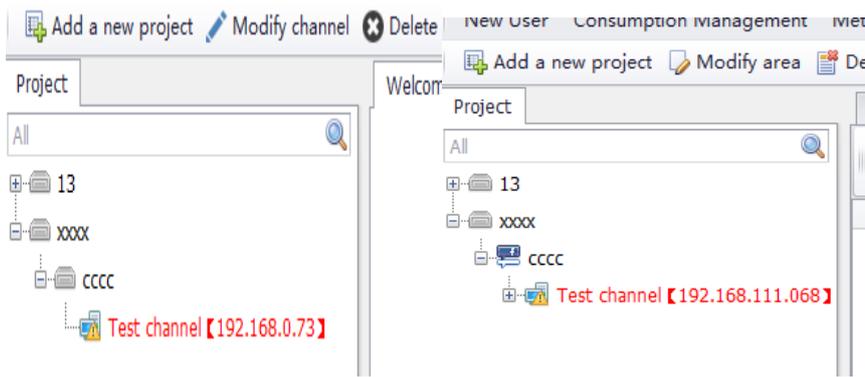
Time-out(millisec.): Means the max communication overtime between EEM system and the meters. set range: 1~10000ms.this parameter can be set according the channel communication speed, default 1000ms.

Max. No.retries: The max retry times of communication error between EEM system and meters. Set range: 1 to 10 times, default: 3 times.

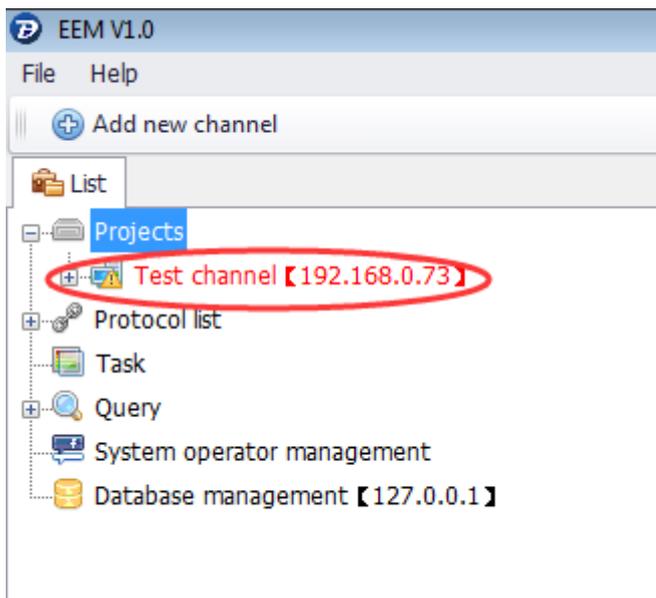
After the parameters set, click “add” to finish adding channels.



After add successfully, a small popup window will prompt “Add successfully, do you want to add next one?” click” Yes” can keep adding new channels, click “No” to close the window.

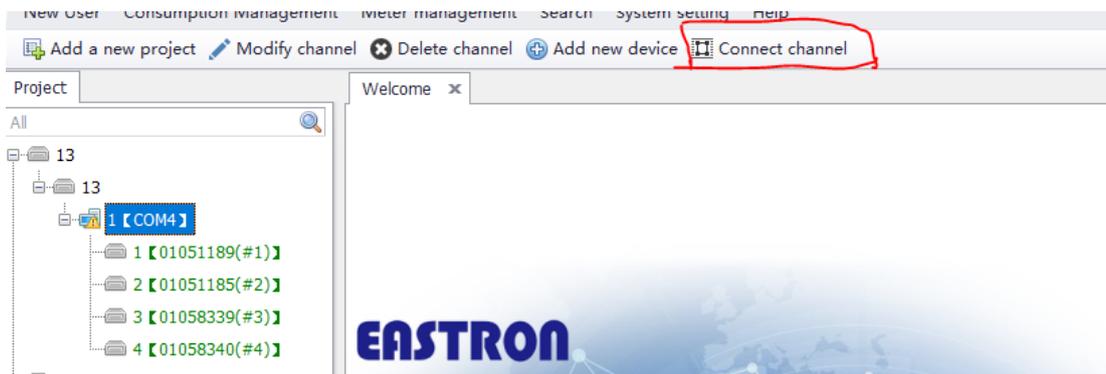


Back to the software main interface, the channel which added just now can be saw.

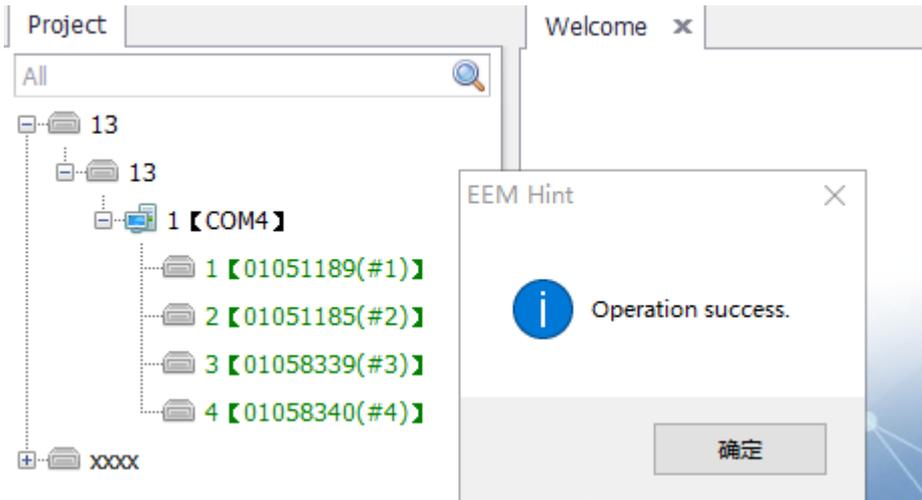


2.2.3 Connect/Close Channels

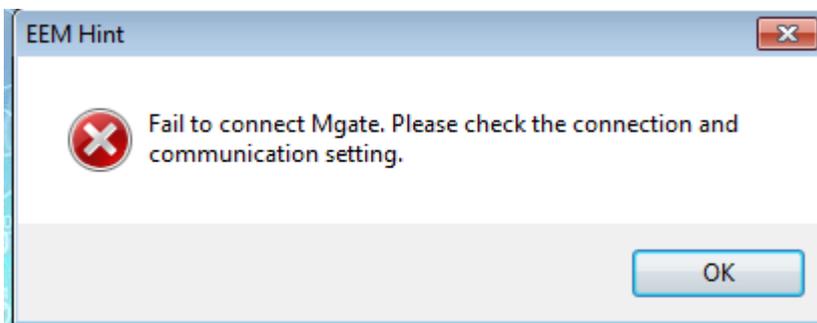
Click the “connect channel”



If connected successfully, the icon will change, and the channel will be available.

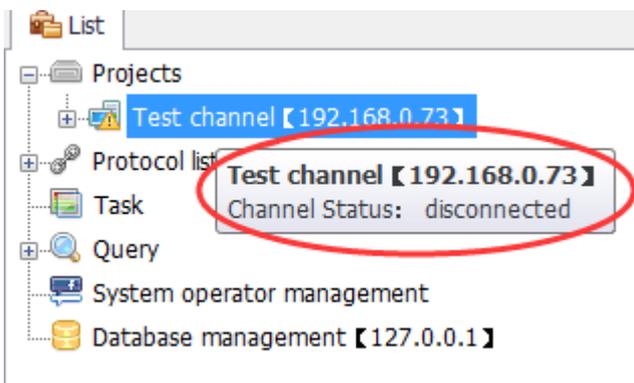


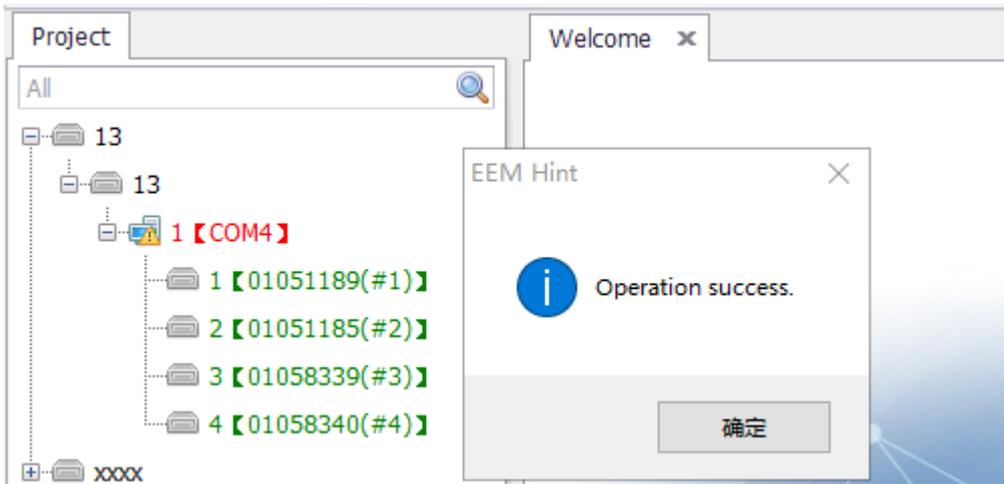
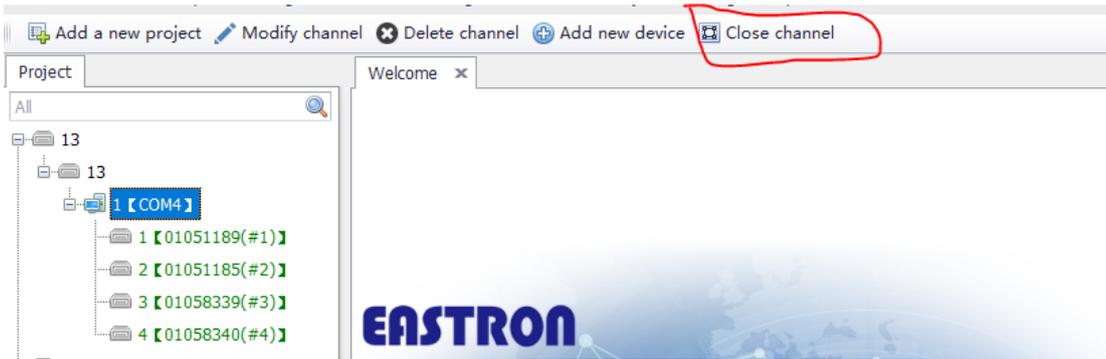
If failed, a small popup window will come out:



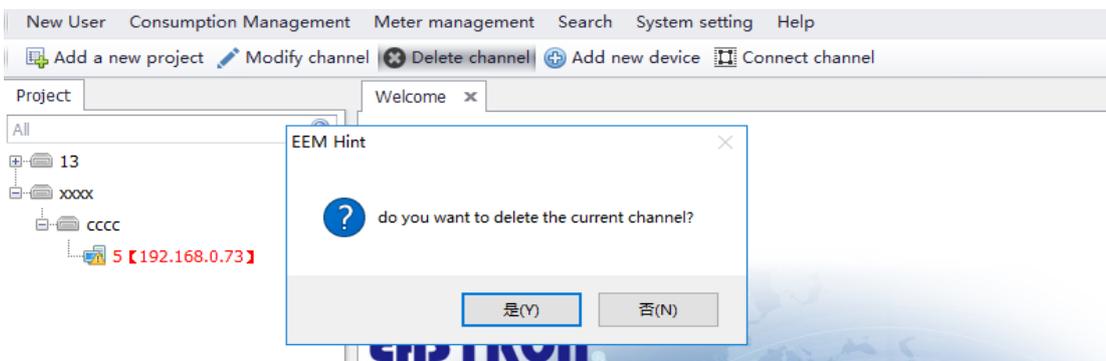
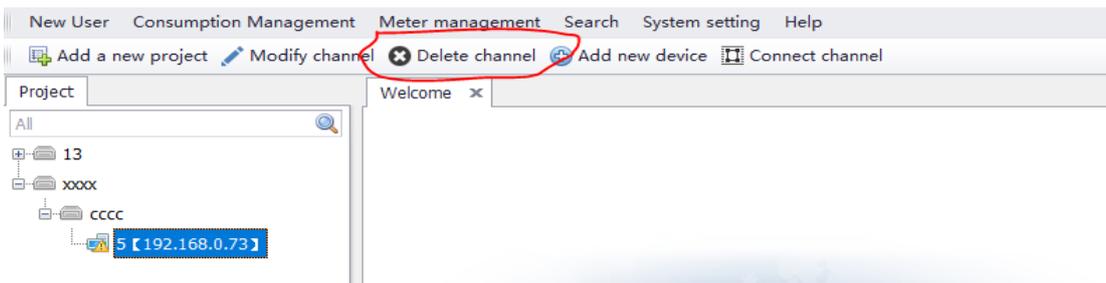
Close channel: click channel, click "Close channel" on the toolbar or on right click menu. Then the channel will be closed.

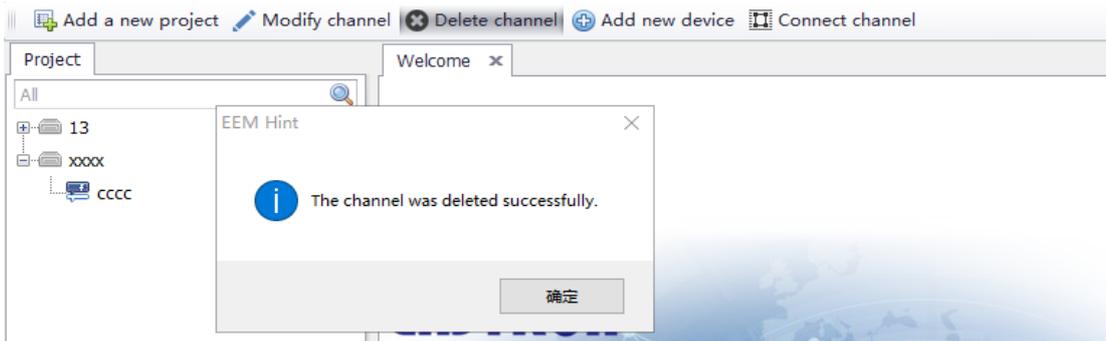
When the cursor stays on the name of the channel, a prompt window will come out to show the communication information.





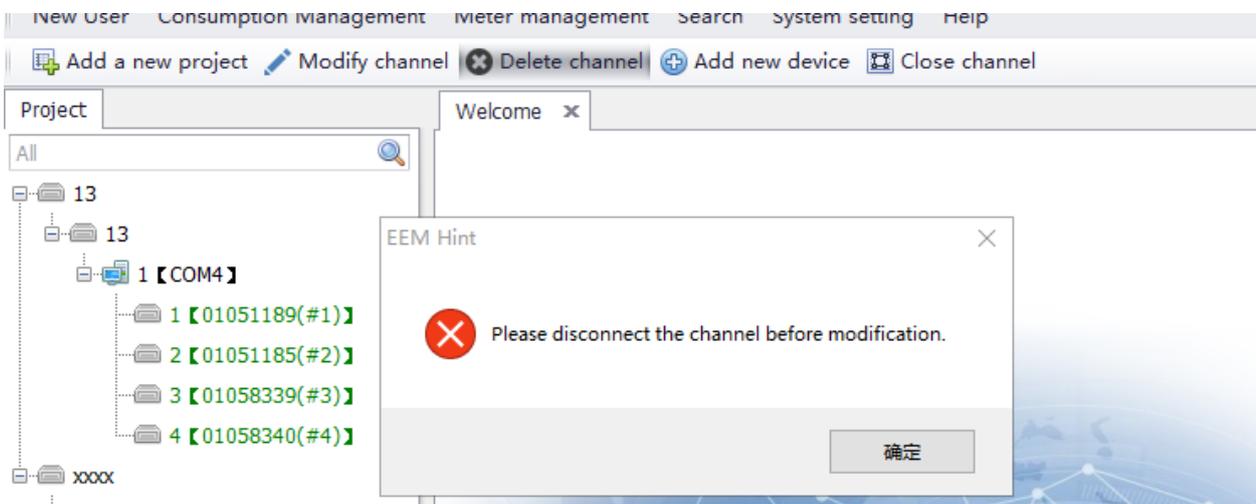
If you want to delete one/some channels, please click the “Delete channel”.



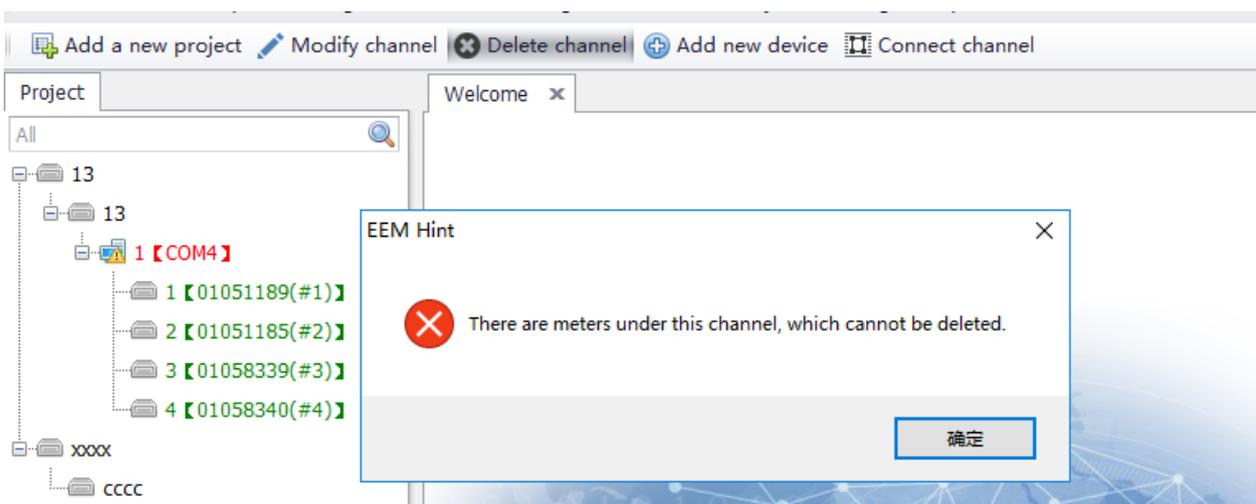


Note:

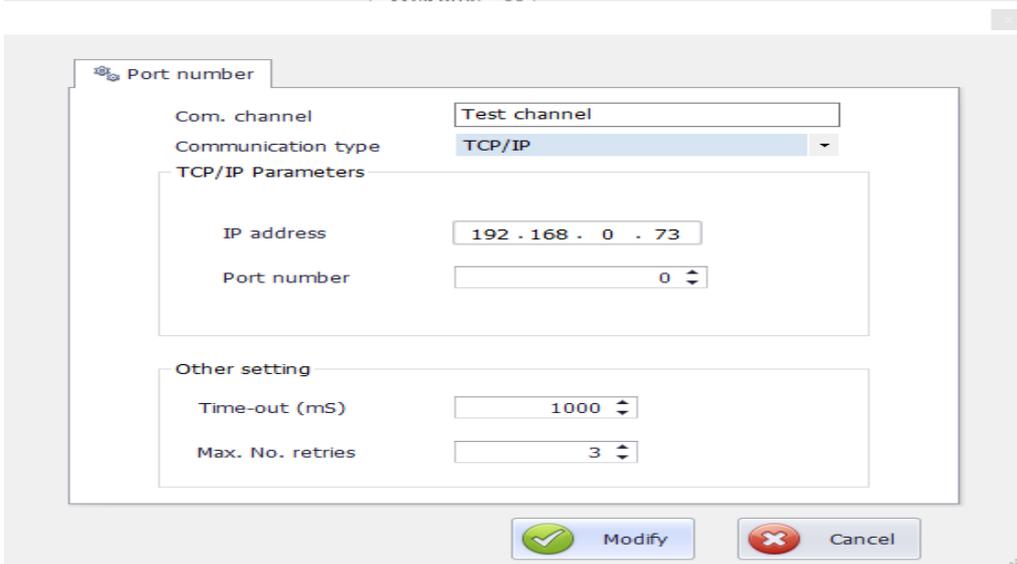
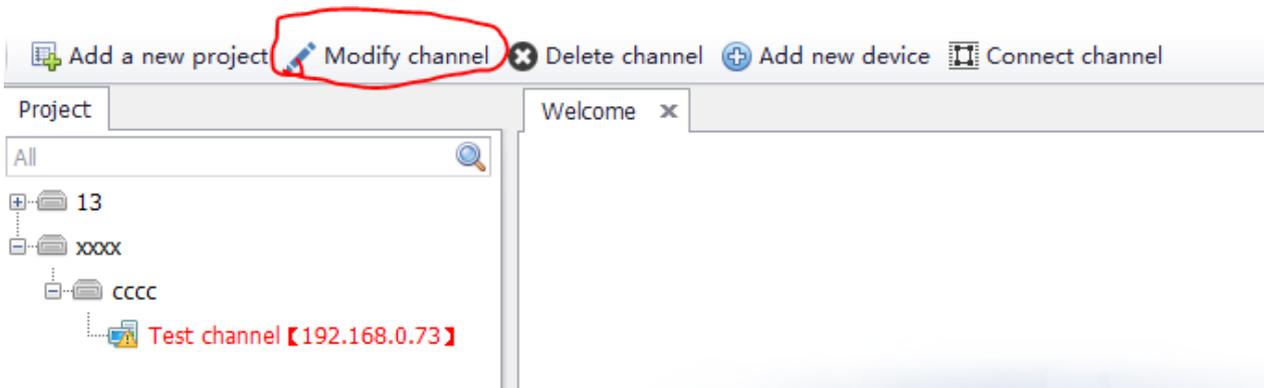
The channel can't be deleted if it is connected. Please close it and then delete it.



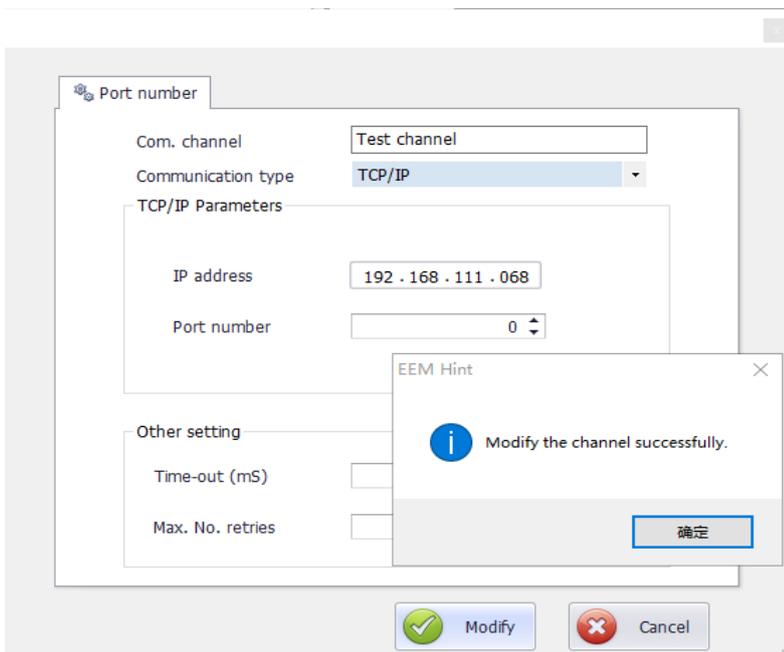
If there is/are meters under the channel, it can't be deleted.



2.2.4 Modify Channels

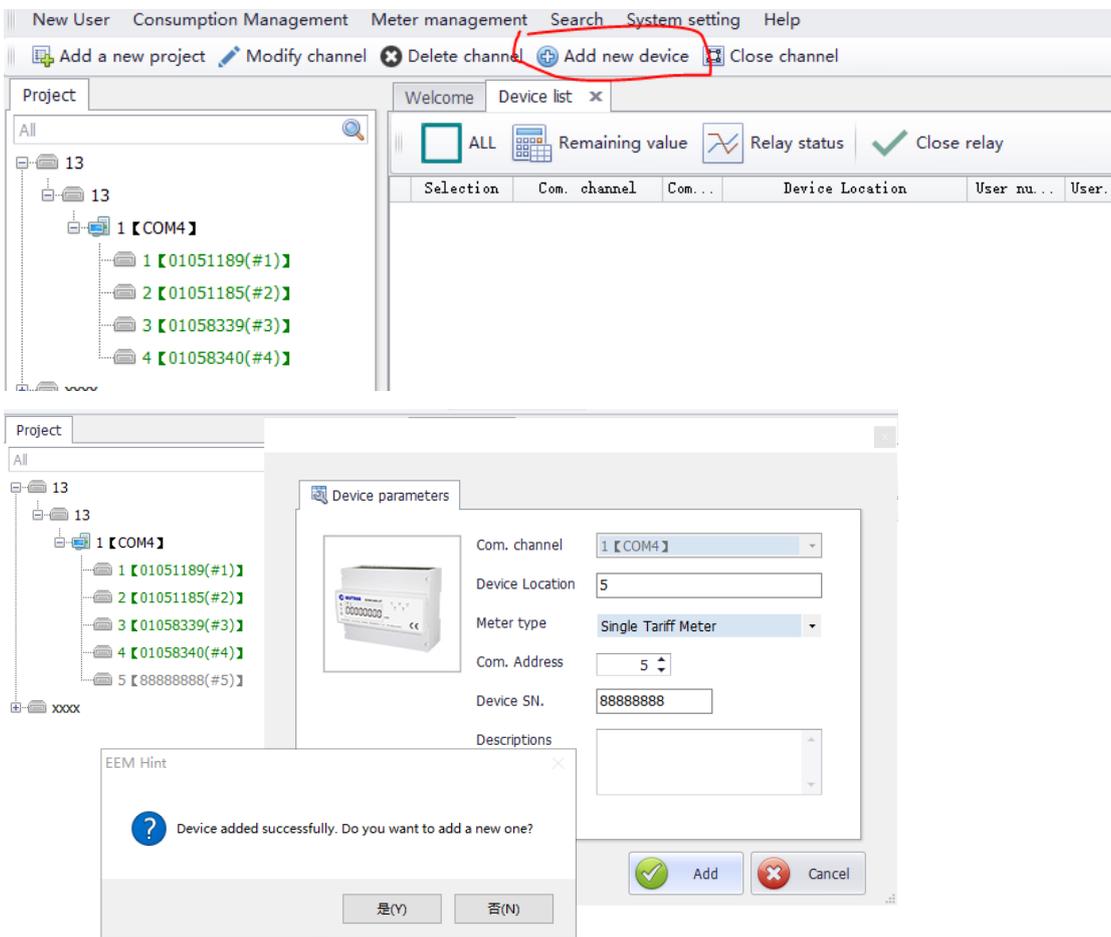


Above is previous IP address, if you want to modify the address information to 192.168.111.068, please click the modify channel:



2.3 Add Device

Please choose which channel will the meter be added, and click the “Add new device”:



Com. channel: Be consistent with the set channel

Device Location: Be consistent with the installed sequence

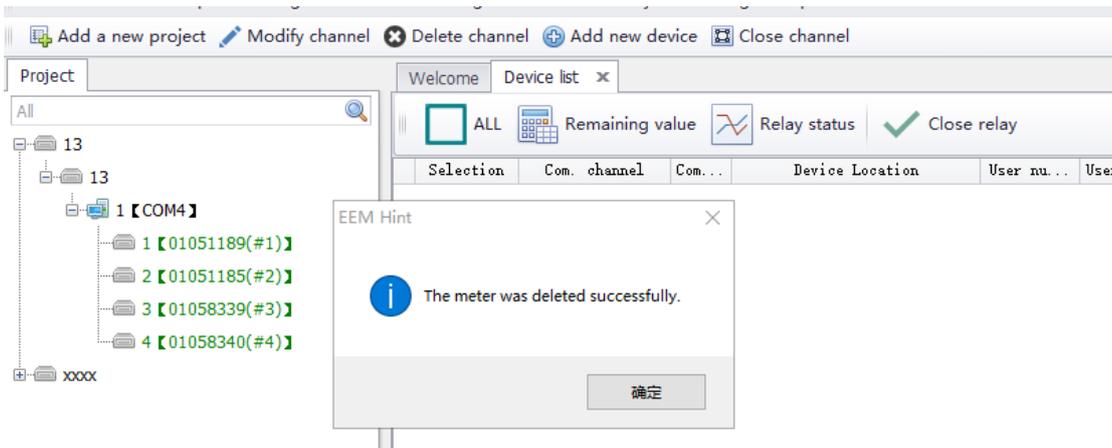
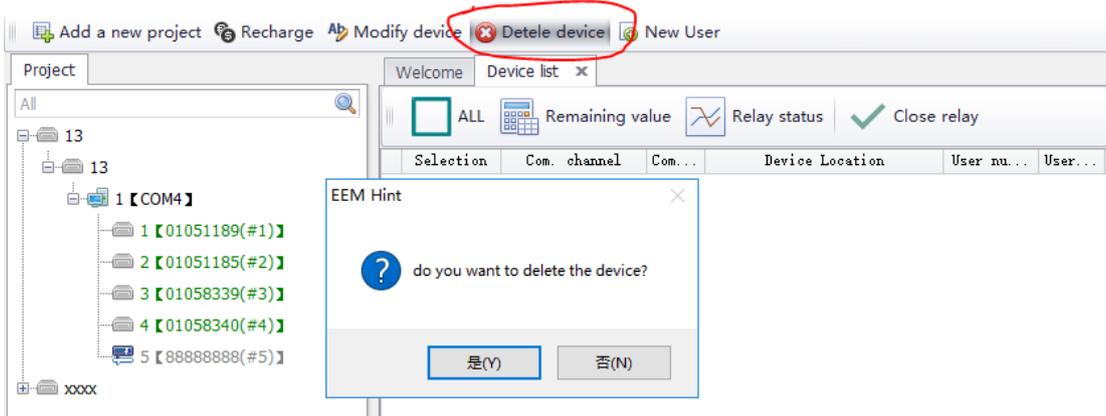
Meter Type: Single Tariff or Multi-tariffs

Device SN: Be consistent with the serial number on the meter

Description: name of buildings or rooms or other important information.

2.4 Delete Device

Click the “Delete device”

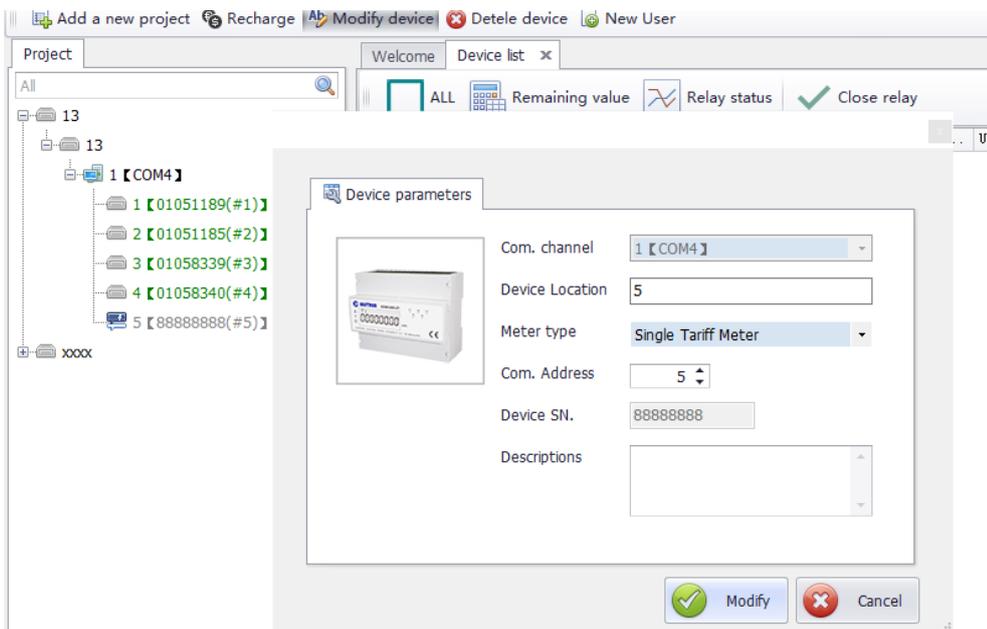


Note:

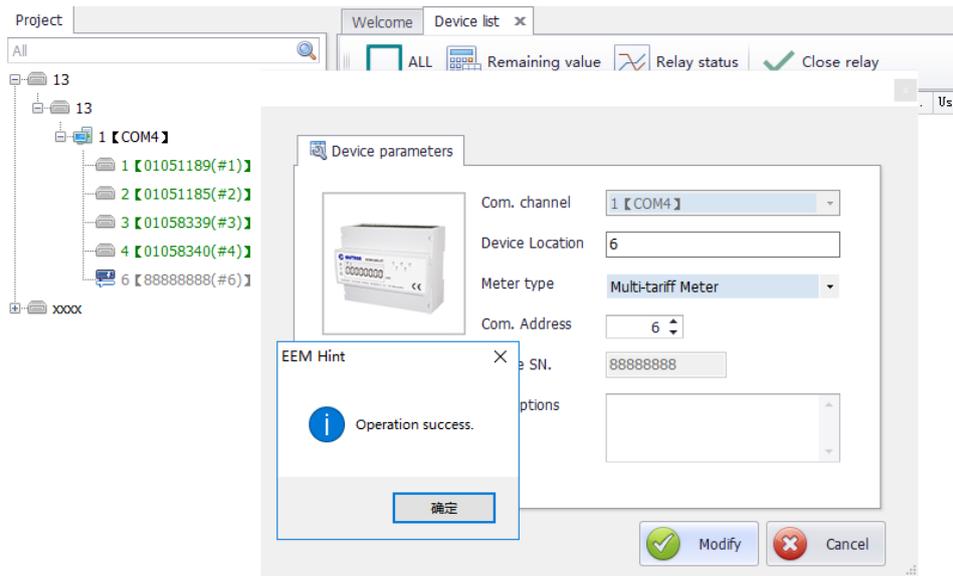
If the meter is deleted, it will disappear from the channel list but the history data will be stored for checking.

If you want to modify the information of meter/meters, please click “Modify device”:

For example, the previous information is as following:



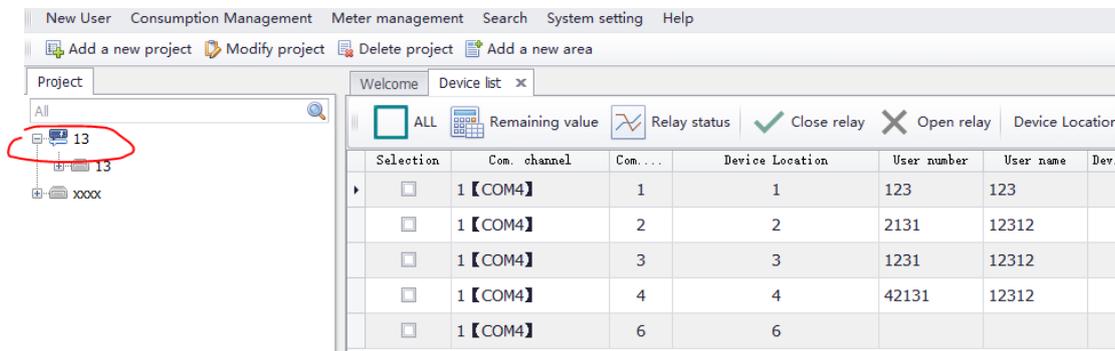
Modify to Device Location 6, meter type ,Com.Address 6.



After setting all the information, please click “modify” to confirm:

3. Reading Meter/Meters

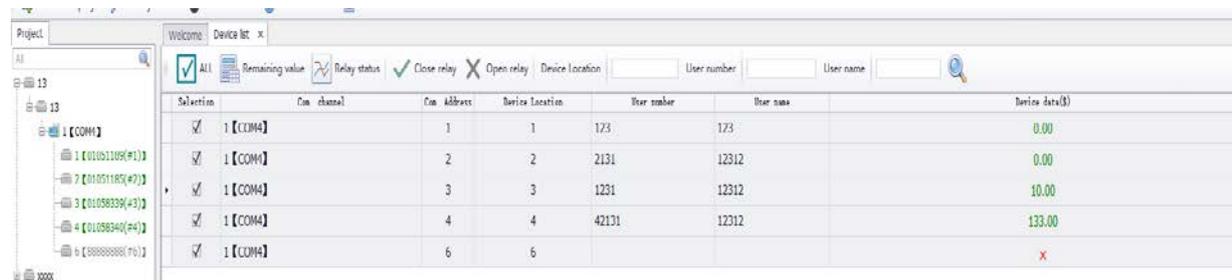
Double click “Project” or certain channel, you can see the diagram on the right side:



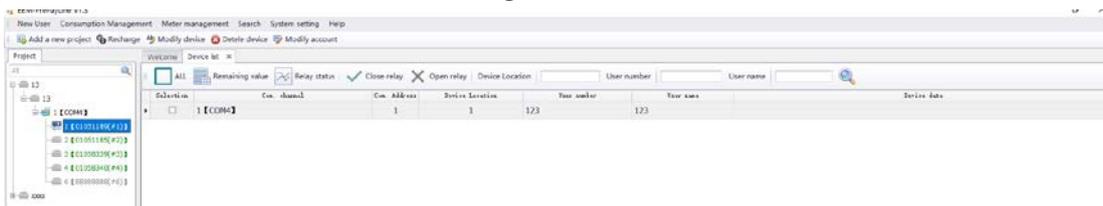
Click the “ALL”, you can close relay/open relay:



Click the “ALL”, you can see the remaining value:

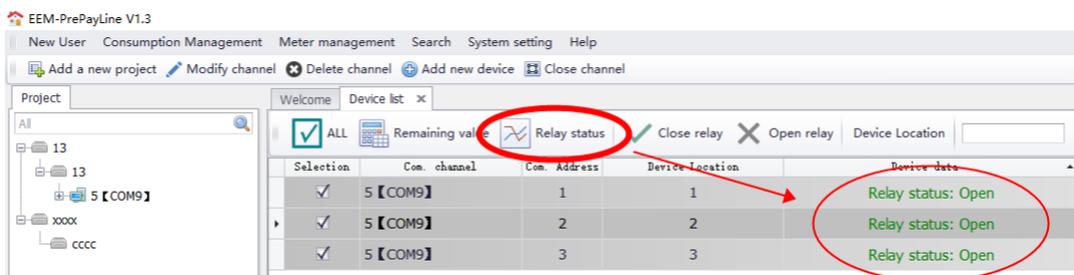


Double click the meter and click the “reading”:



EEM will read the parameters of the chosen meter according to the protocol, such as voltage, current, kWh, power, etc.

3.1 Relay Status

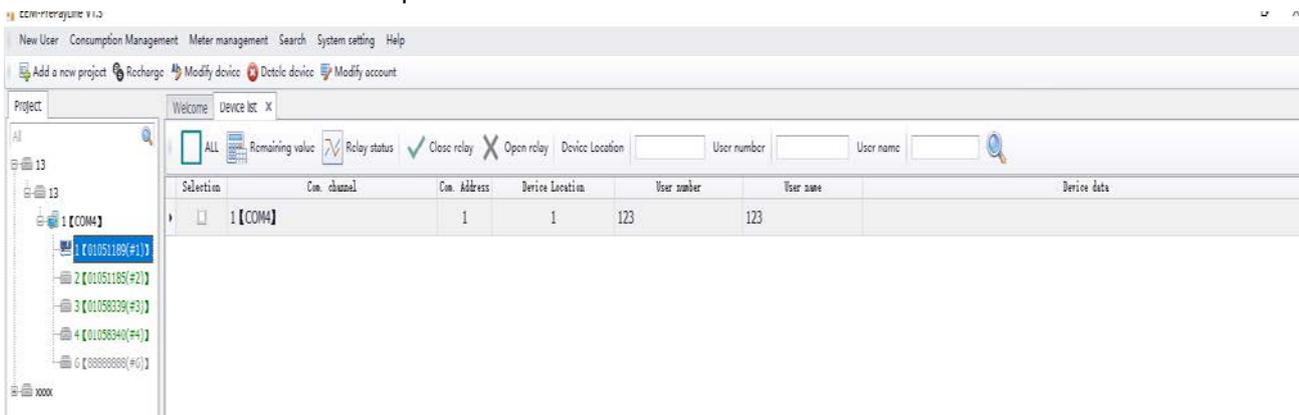


3.2 Reading Remaining Value



3.2.1 Monitoring the Meters in Real Time

Double click the meter to read the parameters:



And click “Realtime monitoring, chose the interval of communication reading, Setting range: 1~60s

Click “Start” to monitor the real-time Voltage, Current, Active Power, Apparent Power, Reactive Power, etc. The curve graph will be showed on the left side and the real-time reading is on the right.

The left side can show the real time curve graphs of voltage, current, power of three phases. Click the “Curves” on right side can switch the graphs and the curves can be showed or concealed.

4. Energy Meter Parameters Setting

The energy meter parameters can be set remotely, below is how to operate:

Double click the device, open the right window as show in below picture:



Click the button “Meter Parameter setting”, then the software will start reading the parameters from the energy meter. When finished, a window will show on right as below picture.

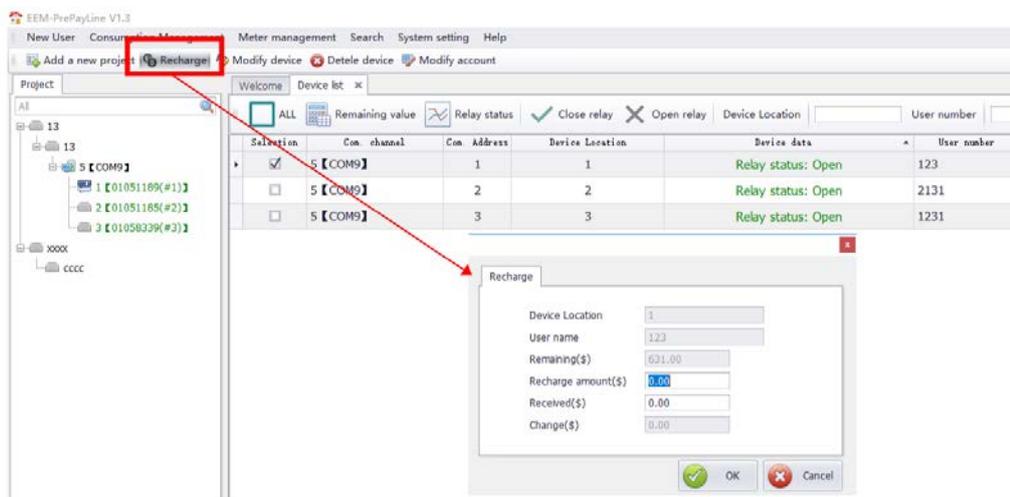
All parameters will be showed on the list (different meters have different parameters).

To modify a parameter, first choose the corresponding line. Then click the “Modify” button on the toolbar or the “Modify” at the end of the line. A small popup window will come out. After modifying, click “Confirm” to finish.

PS: After modify the communication parameters like “Modbus ID”、 “Parity and Stop bit”、 “Baud rate”, the channel parameters also need to be modified, or the communication will not success.

5. Recharging

Recharging process:

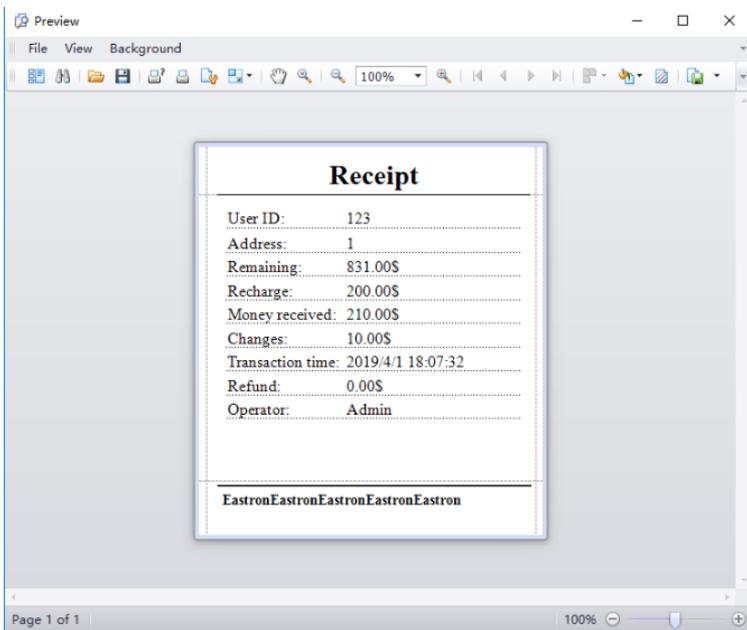


The system can receive and give change back. With printer, it can print receipts.

Recharge

Device Location	1
User name	123
Remaining(\$)	631.00
Recharge amount(\$)	200.00
Received(\$)	210
Change(\$)	10

OK Cancel



Recharge

Device Location	1
User name	123
Remaining(\$)	631.00
Recharge amount(\$)	200
Received(\$)	210
Change(\$)	10

EEM Hint

Operation success. Do you want to print the receipt?

是(Y) 否(N)

After recharging, the remaining is changed:

Selection	Com. channel	Com. Address	Device Location	Device data(\$)	User number	Usr
<input type="checkbox"/>	5【COM9】	2	2		2131	12312
<input type="checkbox"/>	5【COM9】	3	3		1231	12312
<input checked="" type="checkbox"/>	5【COM9】	1	1	831.00	123	123

5.1 Reading Recharge Records

Click the search,

EEM-PrePayLine V1.3

New User Consumption Management Meter management Search System setting Help

Add a new project Recharge Modify device Delete device Modify account

Project: 13

- 13
 - 5【COM9】
 - 1【01051189(#1)】
 - 2【01051185(#2)】
 - 3【01058339(#3)】

xxxx
cccc

Welcome Device list Daily statistics x

Time: 2019 April Search Export

Day	Delete account ti...	Recharge times	Income(\$)	Refund(\$)	Total(\$)
1	0	1	200	0	200

Meter management Search System setting Help

Modify device Delete device Modify account

Welcome Device list Daily statistics x

Time: 2019 March Search Export

Day	Delete account ti...	Recharge times	Income(\$)	Refund(\$)	Total(\$)
1	0	0	0	0	0
2	0	0	0	0	0
3	0	0	0	0	0
4	0	0	0	0	0
5	0	0	0	0	0
6	0	0	0	0	0
7	0	0	0	0	0
8	0	0	0	0	0
9	0	0	0	0	0
10	0	0	0	0	0
11	0	0	0	0	0
12	0	0	0	0	0
13	0	0	0	0	0
14	0	0	0	0	0
15	0	0	0	0	0
16	0	0	0	0	0
17	0	0	0	0	0
18	0	0	0	0	0
19	0	0	0	0	0
20	0	0	0	0	0
21	0	0	0	0	0
22	0	0	0	0	0
23	0	0	0	0	0
24	0	0	0	0	0
25	0	0	0	0	0
26	0	1	10	0	10
27	0	0	0	0	0
28	0	0	0	0	0
29	0	0	0	0	0
30	0	0	0	0	0
31	0	0	0	0	0

The recharge record can be exported to Excel chart.

	A	B	C	D	E	F
1	Day	Delete account times	Recharge times	Income(\$)	Refund(\$)	Total(\$)
2	1	0	0	0	0	0
3	2	0	0	0	0	0
4	3	0	0	0	0	0
5	4	0	0	0	0	0
6	5	0	0	0	0	0
7	6	0	0	0	0	0
8	7	0	0	0	0	0
9	8	0	0	0	0	0
10	9	0	0	0	0	0
11	10	0	0	0	0	0
12	11	0	0	0	0	0
13	12	0	0	0	0	0
14	13	0	0	0	0	0
15	14	0	0	0	0	0
16	15	0	0	0	0	0
17	16	0	0	0	0	0
18	17	0	0	0	0	0
19	18	0	0	0	0	0
20	19	0	0	0	0	0
21	20	0	0	0	0	0
22	21	0	0	0	0	0
23	22	0	0	0	0	0
24	23	0	0	0	0	0
25	24	0	0	0	0	0
26	25	0	0	0	0	0
27	26	0	1	10	0	10
28	27	0	0	0	0	0
29	28	0	0	0	0	0
30	29	0	0	0	0	0
31	30	0	0	0	0	0
32	31	0	0	0	0	0
33						

6. Device Protocols Management

After installing EEM software, all the protocols will be pre-install in the software. When adding the device, just need to choose the right one.

6.1 Check Protocols

Double click "Protocol list" to open the list:

Selection	Com. channel	Com. address	Device Location	User number	User name	Device data
<input type="checkbox"/>	1	1	123	123		
<input type="checkbox"/>	2	2	2131	12312		
<input type="checkbox"/>	3	3	1231	12312		
<input type="checkbox"/>	4	4	-2131	12312		
<input type="checkbox"/>	5	5				
<input type="checkbox"/>	6	6				

7. Meter Reading Task

This function is used to define the plan which can do automatic meter reading regularly. The task can be started at each month, each week, each day, each hour.

8. Create Meter Reading Task

Double click the "task" in the left function tree. In the right will open a plan list.

9. Historical Meter Reading Task

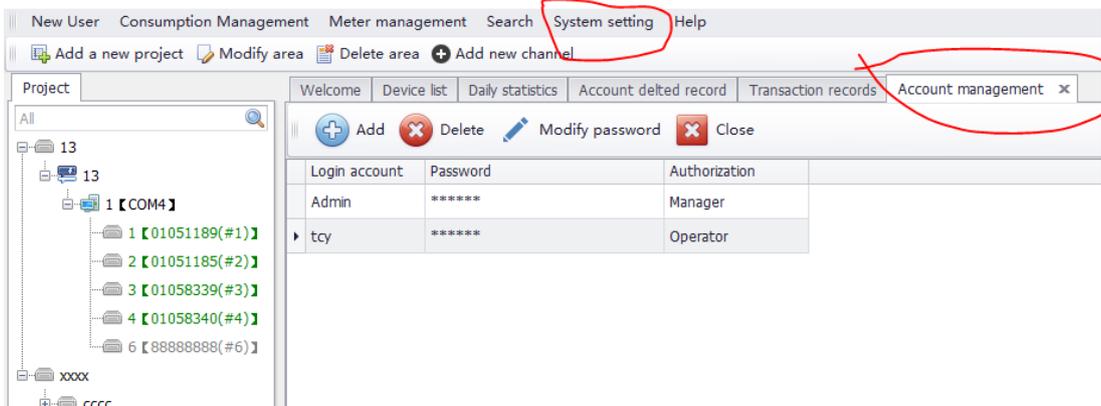
In the left function tree can check the meter which needed.

Check many meters reading data

click "Historical data query" in the left function tree, open the historical meter reading window. After enter the screening condition, the data which want to be checked will be shown. The data can be exported to Excel documents.

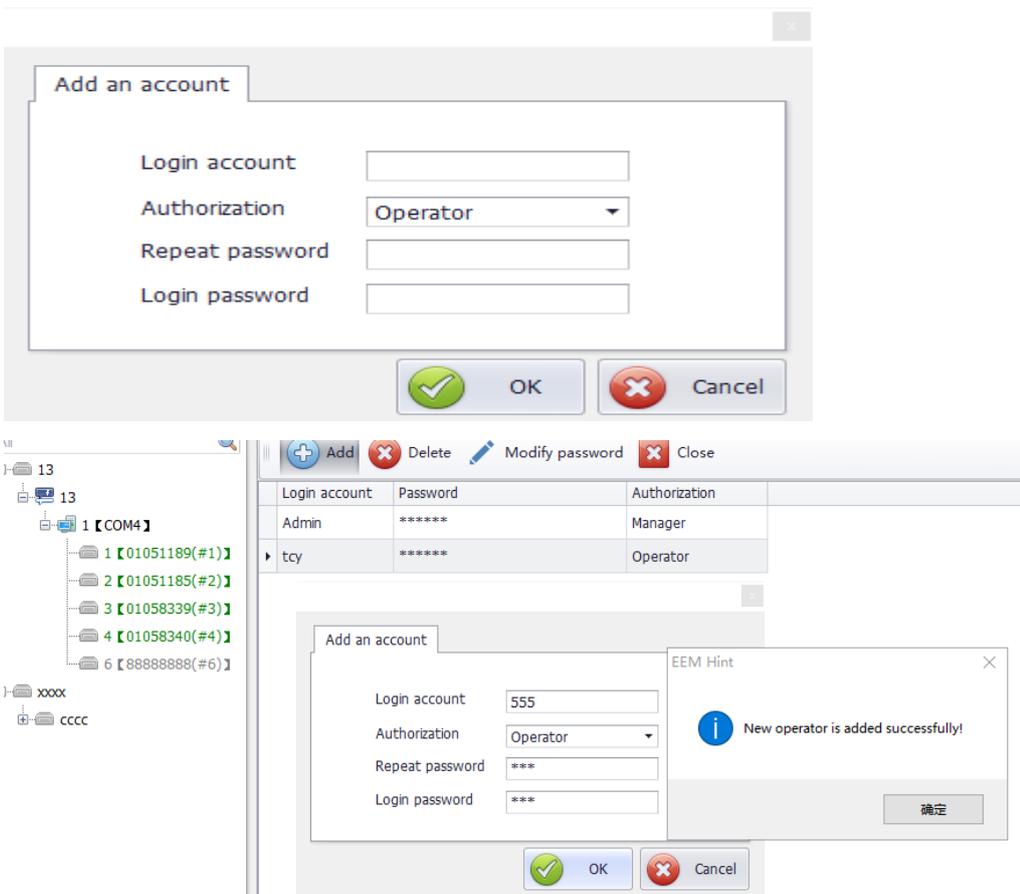
10.Operator Management

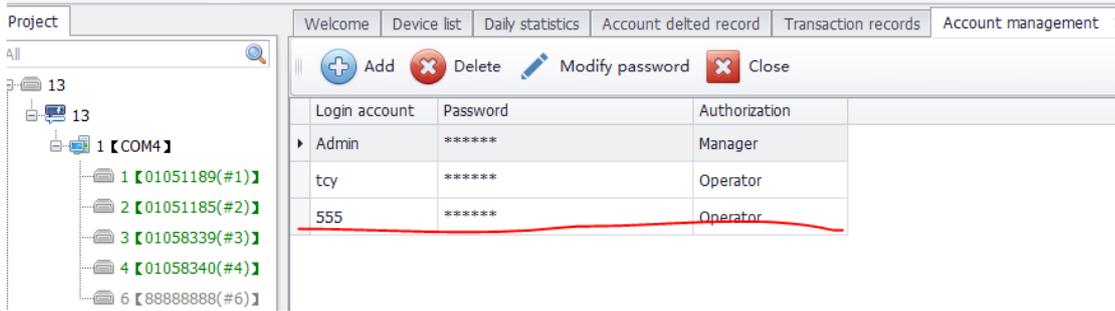
Click “System operator management” to open the account interface,
Click system setting → operator information



10.1 Add Operators

click “Add” button in the windows, a small popup window will come out
here can only add normal operators, enter account and password, press “Add” to finish adding.

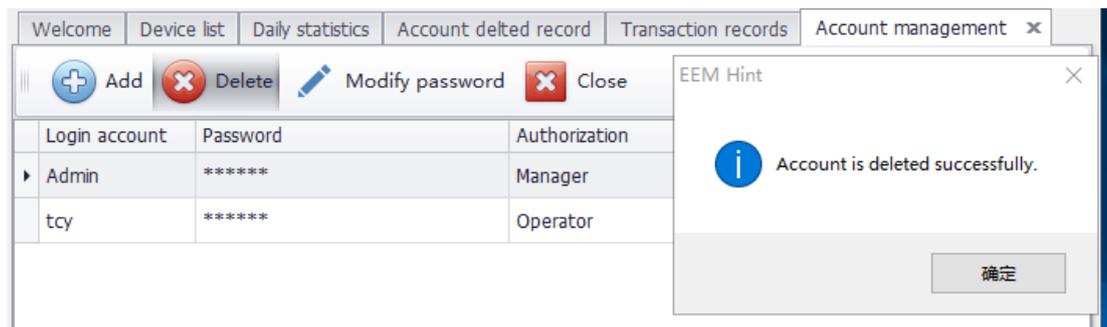
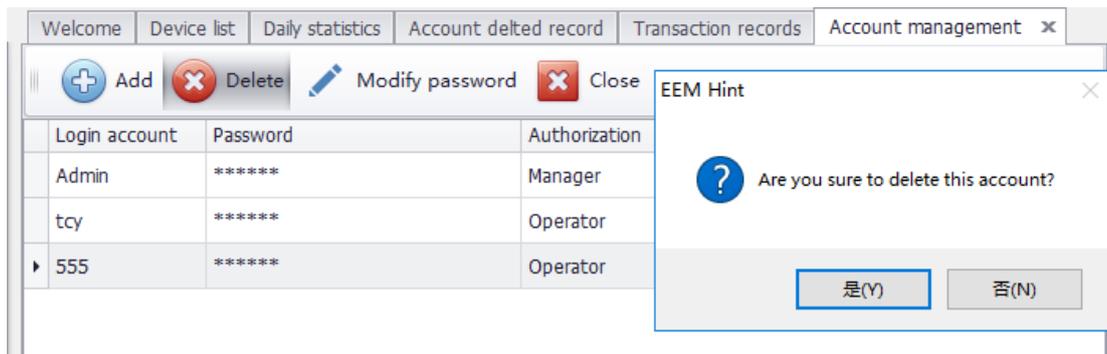
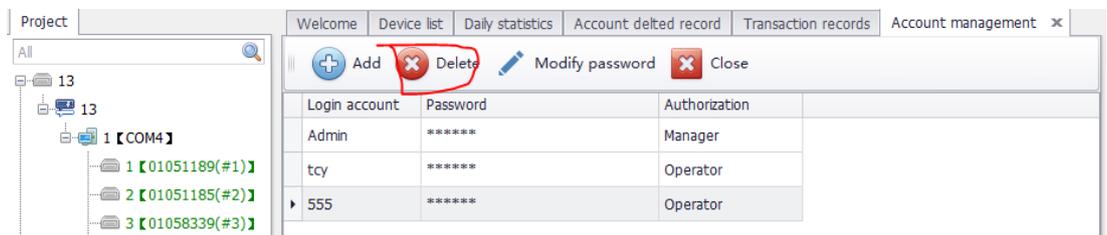


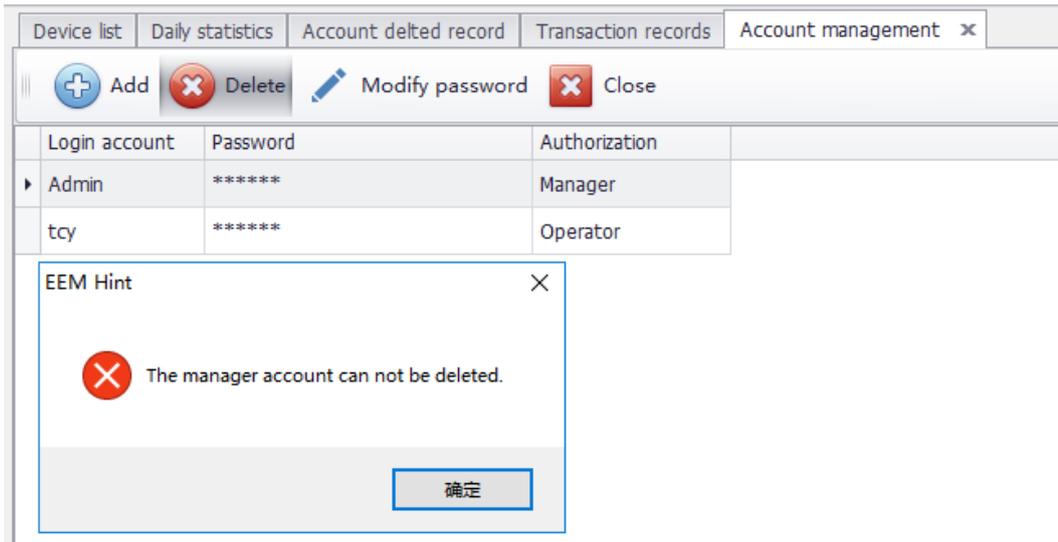


10.2 Delete Operators

In the list of operators, choosing the operators which want to be deleted, click the “Delete” button on the toolbar to finish account delete.

PS: Super operator can't be deleted.

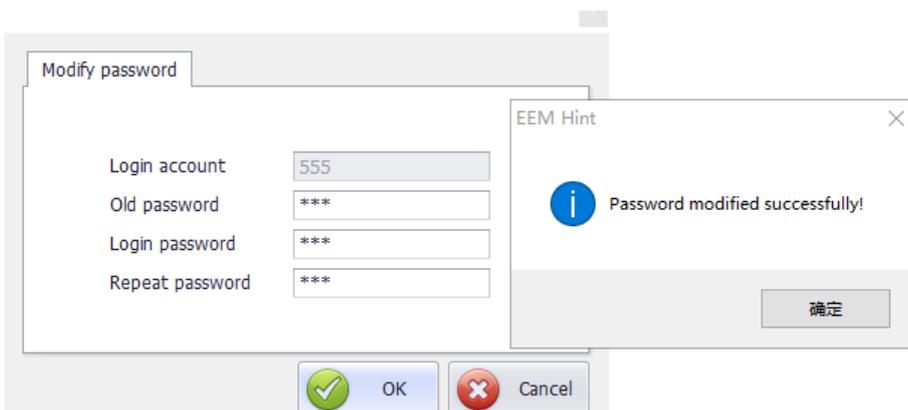
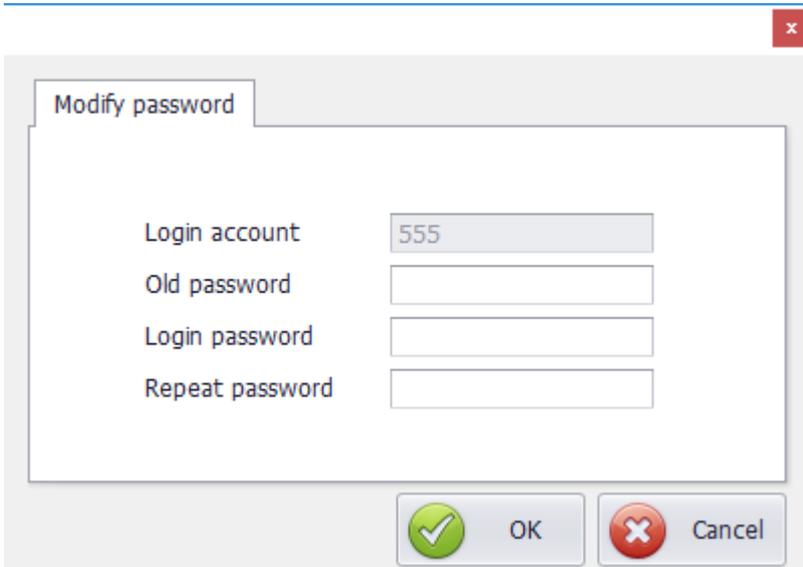




10.3 Modify Operator’s Password

Enter the operator’s list, choosing the which need to change the password. Click “Change password”, a small popup window will come out.

Enter the old password and new password, click “Confirm” to finish modifying.



Please download the software on Eastron website:

<http://www.eastrongroup.com/download>

If you have any question, please feel free to contact our sales team.

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	<p>EEM_LoraSet V1.1</p>	<p> Download</p>
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	<p>EEM_MeterSet</p>	<p> Download</p>
	<p>EEM_MeterSet_MBus</p>	<p> Download</p>