



Shared ECU User Manual

Version 2.0

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Introduction

The Shared ECU users means that several households adjacent to or sharing the same roof establish their own photovoltaic power plants and communicate data through the same ECU, and each customer has independent photovoltaic equipment (inverters and components) through independent EMA accounts monitor the operating status of their respective systems in real time. This manual introduces how to quickly use the EMA function for such users.

1. Basic Concepts and Usage Restrictions

1.1 Two Kinds of Shared ECU User

1.1.1 User Category Introduction

Shared ECU Master User: In order to facilitate management, the installer is required to register a master user account for the shared ECU, through which the account can be used to centrally manage and view all inverter information sharing the ECU, and simplify the registration process of shared ECU users.

Shared ECU Sub User: EMA can create different monitoring accounts for different household users who use the same ECU. The accounts do not interfere with each other and monitor the running status and power generation data of their own inverters in real time.

The screenshot displays the APsystems user management interface. The top navigation bar includes the APsystems logo, a 'USER LIST' button, a highlighted 'REGISTRATION' button, and 'SETTING' and 'AP Designer' buttons. On the right, there are links for 'English', 'Settings', and 'Sign out', along with the user's name 'APSENAdmin' and location 'Paris,Auvergne-Rhône-Alpes,France'.

The main content area is titled 'ADD CUSTOMER' and features a sidebar menu with options: 'ADD CUSTOMER', 'INCOMPLETE CUSTOMER', 'INSTALLER MANAGE', 'COMPANY MANAGE', 'LOCKED ACCOUNT MANAGE', and 'INVERTER OPERATION MANAGE'. The main panel lists three user categories:

- "PV" OR "PV+ STORAGE" USER**: The user installs a pv system with APsystems inverter(s), meters and other device(s), and uses the ECU to communicate with EMA. In addition, the user can choose to install APstorage device(s) into the system to maximize the use of power generation. An orange button labeled 'Add "PV" or "PV+ Storage" User' is provided.
- "STORAGE ONLY" USER**: The user only installs the APstorage device(s). An orange button labeled 'Add "Storage Only" User' is provided.
- "SHARED ECU" USER**: Multiple customers share the same roof with independent devices to build their own solar system, and use the same ECU to communicate with EMA. Each customer can register as a Shared ECU User to monitor his/her own devices (Micro inverters and PV modules) independently. Require: First, register the "Shared ECU" Master User, and then register "Shared ECU" Sub Users.
 - "Shared ECU" Master User**: It is used by the installer who manage all of the devices connected to the same ECU. An orange button labeled 'Add "Shared ECU" Master User' is provided.
 - "Shared ECU" Sub User**: It is used by the customer who monitors his/her own devices (Micro inverters and PV modules). An orange button labeled 'Add "Shared ECU" Sub User' is provided.

1. Basic Concepts and Usage Restrictions

The screenshot displays the APsystems user registration interface. At the top, there is a navigation bar with the APsystems logo, user list, registration, setting, and AP Designer icons, along with language and settings options. The main content area shows a progress bar with six steps, with the first step, 'PERSONAL INFO', currently active. Below the progress bar, a message states: 'We collect the Account Info and System Info in order to provide technical support and after sales service to you. Account Info means the account credentials. System Info means the address of PV system, the basic configuration of PV system.' The form is divided into two columns. The left column contains fields for 'Login Account' (with a note: '1-60 bit letters,digits,underscores,@spaces or:'), 'Password' (with a note: 'Length 6-32 bits, must contain numbers and letters'), 'Confirm Password' (with a note: 'Length 6-32 bits, must contain numbers and letters'), and 'Name'. The right column contains fields for 'Contact Email' and 'Contact Phone - Optional'. Below these fields are three checkboxes with their respective descriptions: 'Allow visitors to access to this system', 'Disagree maintenance policy and shielded intelligent alarm', and 'Allow APsystems to Send New Productions, Services, Meetings and Marketing News'.

1.1.2 Open Installer Register Shared ECU User Permissions

By default, installers cannot register shared ECU user accounts. If you need to open this permission, you can contact APsystems.

1.2 Registration

The new version of EMA has optimized the user registration process for shared ECU, requiring that the primary user be registered first and then the sub-users. In this way, the operation of registering sub-users can be simplified and the installer's registration time can be saved.

Shared ECU Master User: The registration process is similar to normal user.

Shared ECU Sub User: To register a sub-user, you need to specify the ECU ID of shared ecu master user first. After the association is successful, part of the sub-user's registration information will directly reuse the master user's registration information, such as geographic information, device information, etc., without repeating input, which can achieve fast registered.

1. Basic Concepts and Usage Restrictions

1.2.1 Register Shared ECU Master User

- Log onto EMA, click "REGISTRATION".
- Click "Add shared ECU Master User", Open the shared ECU Master user registration page.

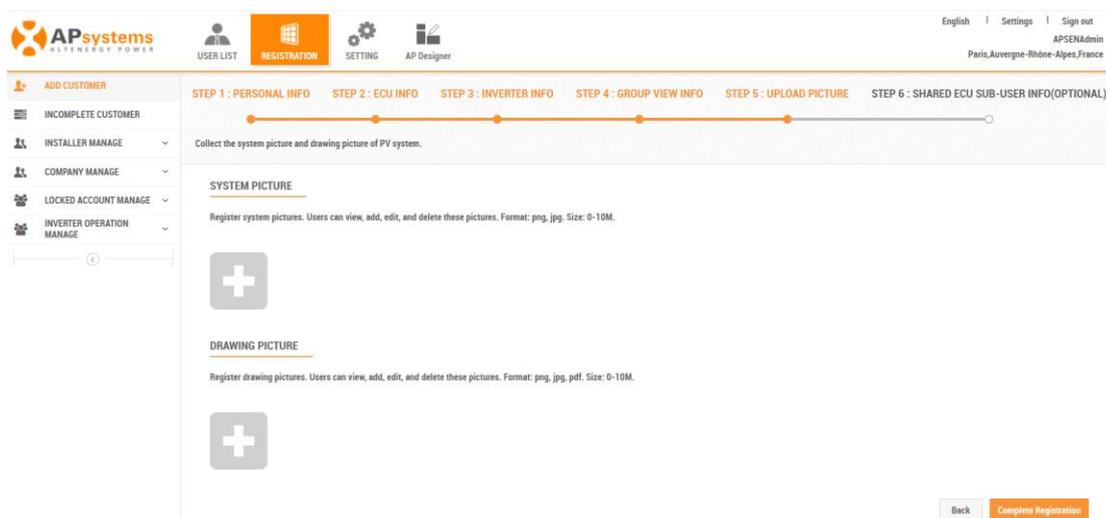
The screenshot shows the 'ADD CUSTOMER' page in the APsystems EMA interface. The page is titled 'ADD CUSTOMER' and has a navigation menu on the left with options like 'ADD CUSTOMER', 'INCOMPLETE CUSTOMER', 'INSTALLER MANAGE', 'COMPANY MANAGE', 'LOCKED ACCOUNT MANAGE', and 'INVERTER OPERATION MANAGE'. The main content area is divided into three sections: 'PV OR PV+ STORAGE USER', 'STORAGE ONLY USER', and 'SHARED ECU USER'. Each section contains a description of the user type and an 'Add' button. The 'SHARED ECU USER' section includes a list of requirements and two sub-user types: 'Shared ECU Master User' and 'Shared ECU Sub User', each with its own 'Add' button.

- According to the registration process, fill in the registration information.

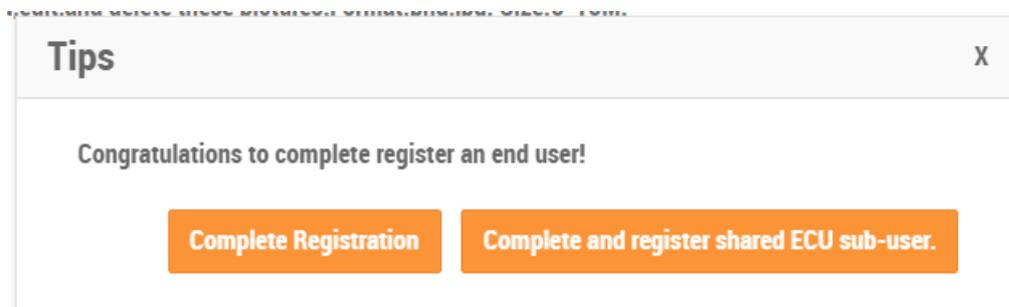
The screenshot shows the 'STEP 1: PERSONAL INFO' registration page in the APsystems EMA interface. The page is titled 'STEP 1: PERSONAL INFO' and has a progress bar at the top with steps: 'STEP 1: PERSONAL INFO', 'STEP 2: ECU INFO', 'STEP 3: INVERTER INFO', 'STEP 4: GROUP VIEW INFO', 'STEP 5: UPLOAD PICTURE', and 'STEP 6: SHARED ECU SUB-USER INFO(OPTIONAL)'. The main content area is divided into 'ACCOUNT INFO' and 'CONTACT INFO'. The 'ACCOUNT INFO' section includes fields for 'Login Account', 'Password', 'Confirm Password', and 'Name'. The 'CONTACT INFO' section includes fields for 'Contact Email', 'Contact Phone - Optional', and three checkboxes: 'Allow visitors to access to this system', 'Disagree maintenance policy and shielded intelligent alarm', and 'Allow APsystems to Send New Productions, Services, Meetings and Marketing News'.

- Click "Complete Registration" to submit registration information.

1. Basic Concepts and Usage Restrictions



Attention: In the dialog box will appear "Complete Registration" and "Complete and register shared ECU sub-user".



Select "Complete and register shared ECU sub-user" and click "Associate" to verify the ECU association. After the association is successful, the web page will jump to the user information page, and the installer can follow the registration steps to register sub-users.

1.2.2 Register Shared ECU Sub User

- Log onto EMA, click "REGISTRATION".
- Select "Add shared ECU Sub User", Enter ECU ID.

1. Basic Concepts and Usage Restrictions

"STORAGE ONLY" USER

The user only installs the APstorage device(s).

Add "Storage Only" User

"SHARED ECU" USER

Multiple customers share the same roof with (Micro inverters and PV modules) independently. Require: First, register the "Shared ECU" Master User.

1. "Shared ECU" Master User

It is used by the installer who manages all of the devices.

Add "Shared ECU" Master User

2. "Shared ECU" Sub User

It is used by the customer who monitors his/her own devices (Micro inverters and PV modules).

Add "Shared ECU" Sub User

Shared ECU ID

Note: Please enter the correct shared ECU ID. If the shared ECU ID has been associated with the shared ECU master user, the shared ECU sub-user can share the system information of the master user, simplifying the registration process.

Shared ECU ID *
12-digit number located on the top of ECU, or on the front flap of the shipping box.

OK

EMA. Each customer can register as a

- Enter the ECU ID that needs to be verified. When the verification is passed, click "OK" to open the sub-user registration page.

APsystems
ALTERNATIVE POWER

English | Settings | Sign out
APSEAdmin
Paris,Auvergne-Rhône-Alpes,France

USER LIST REGISTRATION SETTING AP Designer

ADD CUSTOMER INCOMPLETE CUSTOMER INSTALLER MANAGE COMPANY MANAGE LOCKED ACCOUNT MANAGE INVERTER OPERATION MANAGE

STEP 1 : PERSONAL INFO STEP 2 : ECU INFO STEP 3 : INVERTER INFO STEP 4 : GROUP VIEW INFO STEP 5 : UPLOAD PICTURE

We collect the Account Info and System Info in order to provide technical support and after sales service to you. Account Info means the account credentials. System Info means the address of PV system, the basic configuration of PV system.

Shared Master User : sisinst009, Shared ECU ID : 2

ACCOUNT INFO

Login Account *
1-60 bit letters,digits,underscores,@,spaces or:

Password *
Length 6-32 bits, must contain numbers and letters

Confirm Password *
Length 6-32 bits, must contain numbers and letters

Name *

Contact Email *

Contact Phone - Optional

Allow visitors to access to this system
Enabled this function, users can display this system on other websites through embedded services. Refer to [help] for operation details.

Disagree maintenance policy and shielded intelligent alarm
Enable this function, EMA cannot analyse the working data of this system, it does not support [Smart Maintenance]

Allow APsystems to Send New Productions, Services, Meetings and Marketing News
Enable this function, APsystems will send new productions, services, meetings and marketing news to your email irregularly

- Fill in the user information according to the registration process, click "Submit" to save the user information.
- Check the associated ECU ID and click "Next" to enter the inverter registration list

1. Basic Concepts and Usage Restrictions

STEP 1 : PERSONAL INFO STEP 2 : ECU INFO STEP 3 : INVERTER INFO STEP 4 : GROUP VIEW INFO STEP 5 : UPLOAD PICTURE

Collect the ECU of PV system. ECU ID is a 12-digit number located on the top of ECU, as well as on the front flap of the shipping box.

ECU LIST

Export

ID	ECU ID	Timezone	Meter	Action
1	2-██████████	Europe/Paris	--	Switch

Displaying 1 to 1 of 1 items.

Go 1 10

Back Next

- Click "Associate" to open the list of Unrelated UUIDs under the master user.

STEP 1 : PERSONAL INFO STEP 2 : ECU INFO STEP 3 : INVERTER INFO STEP 4 : GROUP VIEW INFO STEP 5 : UPLOAD PICTURE

Relate UID

Unrelated UUIDs Check All

Related UUIDs Check All

Search... Search...

>> <<

+ Associate Export

Back Next

Cancel Submit

- Select the inverter UID to be associated, and import the inverter UID into the "Related UUIDs" on the right.

Relate UID

Unrelated UUIDs Check All

Related UUIDs Check All

Search... Search...

503876495757-1 503876495756-1

503876495757-2 503876495756-2

503876495757-3 503876495756-3

503876495757-4 503876495756-4

503876495758-1

503876495758-2

>> <<

Cancel Submit

1. Basic Concepts and Usage Restrictions

- Click "Submit" to submit UID information.

STEP 1 : PERSONAL INFO STEP 2 : ECU INFO **STEP 3 : INVERTER INFO** STEP 4 : GROUP VIEW INFO STEP 5 : UPLOAD PICTURE

Collect the Inverter of PV system. UID is a 12-digit number located on the top of inverter, as well as on the front flap of the shipping box.

INVERTER LIST

ECU: 20: UID: Query + Associate Export

ID	UID	Type	Channel
1	4054	YC500	A

Displaying 1 to 1 of 1 items. < 1 > Go 1 20

Back Next

- Click "Next" to enter "View List" page.

STEP 1 : PERSONAL INFO STEP 2 : ECU INFO STEP 3 : INVERTER INFO **STEP 4 : GROUP VIEW INFO** STEP 5 : UPLOAD PICTURE

Collect the view of PV system. In order to manage and maintenance the PV systems, please register the modules in accurate position according to the installations on the job.

VIEW LIST

+ Add Delete Export

ID	ECU ID	View Name	Input Number	Max Row	Max Column	Action
No Records Found						

Back Next

- Click "Add" to open the view information edit box.

STEP 1 : PERSONAL INFO STEP 2 : ECU INFO STEP 3 : INVERTER INFO **STEP 4 : GROUP VIEW INFO** STEP 5 : UPLOAD PICTURE

Collect the view of PV system. In order to manage and maintenance the PV systems, please register the modules in accurate position according to the installations on the job.

CREATE VIEW X

Note: Please register the module in accurate position according to the installation on the job.

ECU ID •
20

View Name •
1-30 bit letters,digits,underscores,@,space,-, or .

Row •
1-80
5

Column •
1-80
5

Create

+ Add Delete Export

ID	ECU ID	View Name	Input Number	Max Row	Max Column	Action
----	--------	-----------	--------------	---------	------------	--------

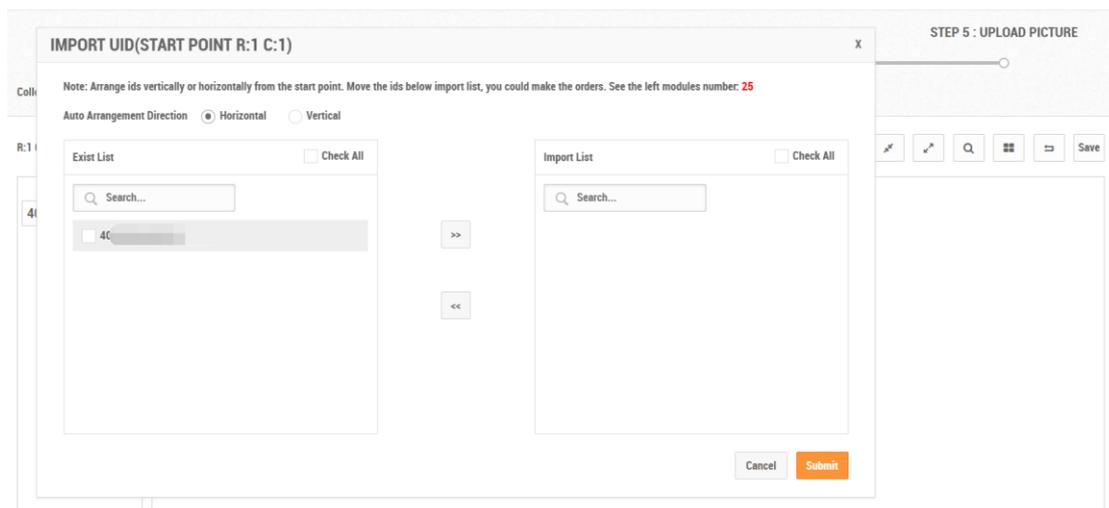
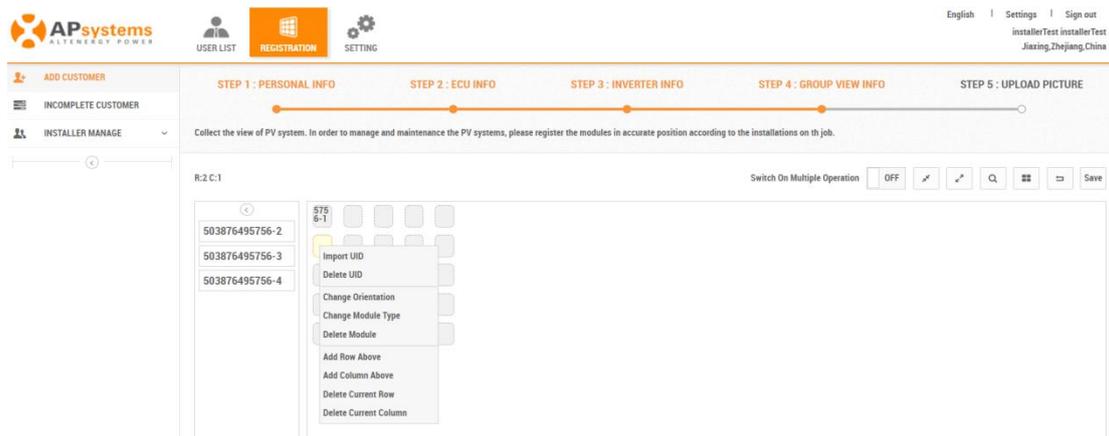
Back Next

1. Basic Concepts and Usage Restrictions

- Fill in the view information and click the "OK" to open the "Component Layout" page.



- Drag the UID on the left to the blank component on the right, or right-click any component to open the UID import mode, and import the UID to the blank component.



1. Basic Concepts and Usage Restrictions

STEP 1 : PERSONAL INFO STEP 2 : ECU INFO STEP 3 : INVERTER INFO STEP 4 : GROUP VIEW INFO STEP 5 : UPLOAD PICTURE

Collect the view of PV system. In order to manage and maintenance the PV systems, please register the modules in accurate position according to the installations on the job.

R:1 C:1 Switch On Multiple Operation OFF [↖] [↗] [Q] [≡] [⇌] Save

454
S-A

- Click "Save" to submit the view information.
- Click "Next" to enter the upload picture page.

STEP 1 : PERSONAL INFO STEP 2 : ECU INFO STEP 3 : INVERTER INFO STEP 4 : GROUP VIEW INFO STEP 5 : UPLOAD PICTURE

Collect the view of PV system. In order to manage and maintenance the PV systems, please register the modules in accurate position according to the installations on the job.

VIEW LIST

	ID	ECU ID	View Name	Input Number	Max Row	Max Column	Action
<input type="checkbox"/>	1	203256458451	view	1	1	1	Edit

Displaying 1 to 1 of 1 items.

< 1 > Go 1 10 ▾

Back Next

STEP 1 : PERSONAL INFO STEP 2 : ECU INFO STEP 3 : INVERTER INFO STEP 4 : GROUP VIEW INFO STEP 5 : UPLOAD PICTURE

Collect the system picture and drawing picture of PV system.

SYSTEM PICTURE

Register system pictures. Users can view, add, edit, and delete these pictures. Format: png, jpg. Size: 0-10M.

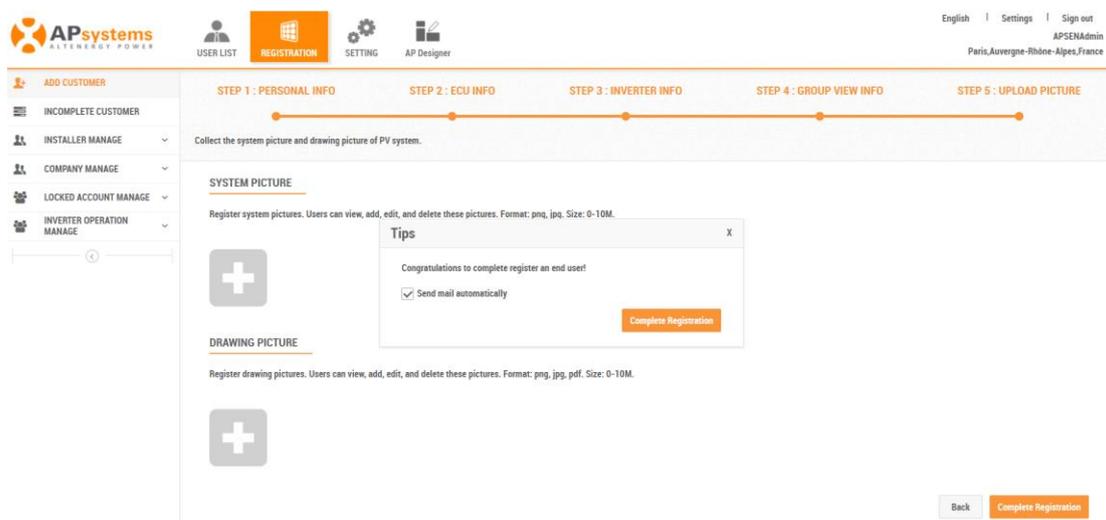
DRAWING PICTURE

Register drawing pictures. Users can view, add, edit, and delete these pictures. Format: png, jpg, pdf. Size: 0-10M.

Back Complete Registration

- Upload corresponding photos or drawings as required.
- Click "Complete Registration " to submit account information.

1. Basic Concepts and Usage Restrictions



1.3 The Restrictions of Share ECU

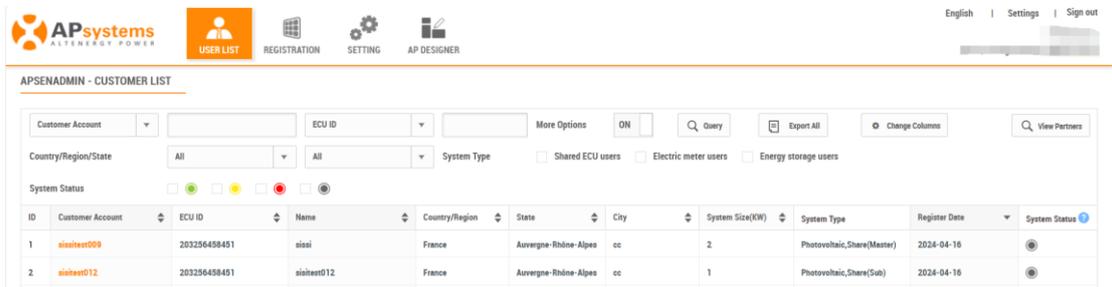
- Applicable ECU type: only ECU with Zigbee communication mode.
- The scope of application: The shared transmission distance of the wireless communication ECU is controlled within 300 meters, and the stable communication between the inverter and the ECU should be ensured before use.

2. Information Inquiry and Management

Compared with ordinary users, the display of output power is a little different.
Compared with ordinary users, the display of output power is a little different.
Share ECU Master user: you can see the data summary of all sub users under the current registered ECU.

2.1 Search for Shared ECU Users

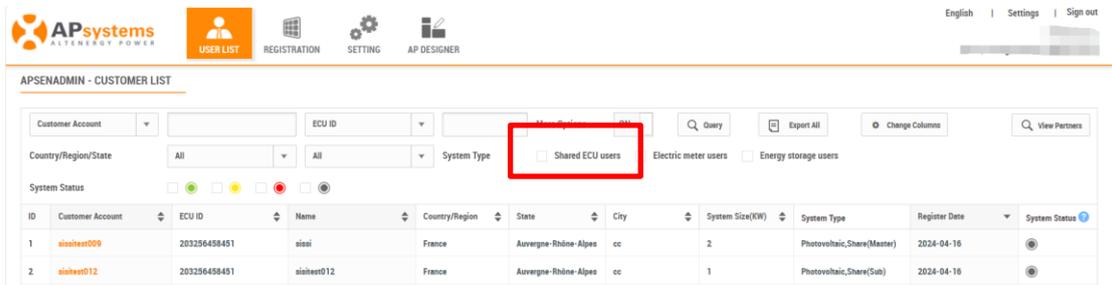
- Login EMA,
- Select “More Options”,



The screenshot shows the 'APSEADMIN - CUSTOMER LIST' interface. At the top, there are navigation tabs: 'USER LIST', 'REGISTRATION', 'SETTING', and 'AP DESIGNER'. The 'USER LIST' tab is active. Below the navigation, there are search and filter options: 'Customer Account', 'ECU ID', 'More Options' (set to 'ON'), 'Query', 'Export All', and 'Change Columns'. The 'System Type' section has three checkboxes: 'Shared ECU users', 'Electric meter users', and 'Energy storage users'. The 'System Status' section has five status icons. Below these are two data rows:

ID	Customer Account	ECU ID	Name	Country/Region	State	City	System Size(KW)	System Type	Register Date	System Status
1	aisoltest009	203256458451	aisol	France	Auvergne-Rhône-Alpes	cc	2	Photovoltaic,Share(Master)	2024-04-16	●
2	aisoltest012	203256458451	aisoltest012	France	Auvergne-Rhône-Alpes	cc	1	Photovoltaic,Share(Sub)	2024-04-16	●

- Select “User Type” as “Shared ECU Master User” or “Shared ECU Sub User”



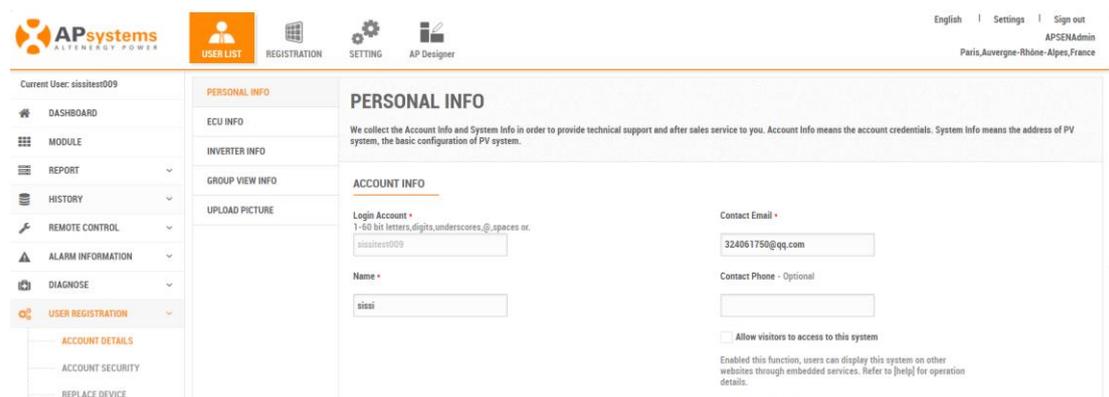
The screenshot shows the same 'APSEADMIN - CUSTOMER LIST' interface. The 'More Options' dropdown menu is open, and the 'Shared ECU users' checkbox is highlighted with a red box. The other checkboxes, 'Electric meter users' and 'Energy storage users', are not selected. The data table below remains the same as in the previous screenshot.

Press “Query”.

2. Information Inquiry and Management

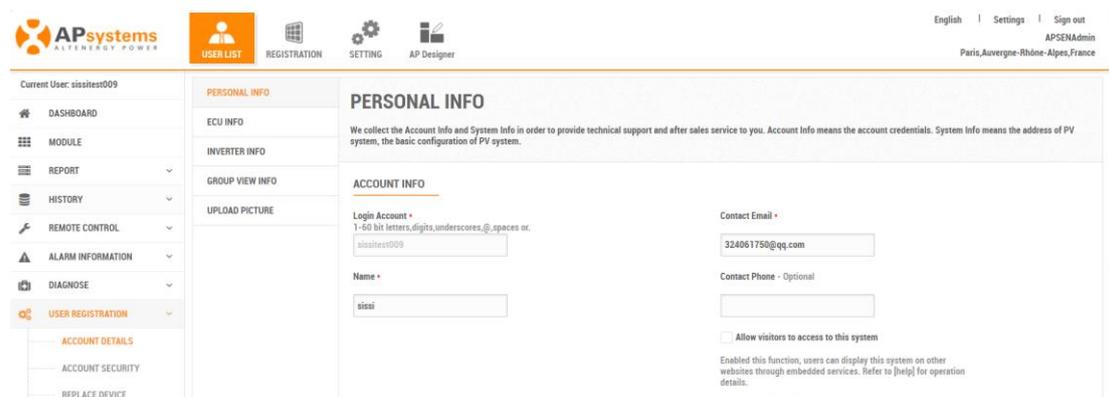
2.2 Shared ECU User Registration Information Management.

2.2.1 Shared ECU Master User



2.2.1.1 Personal Information

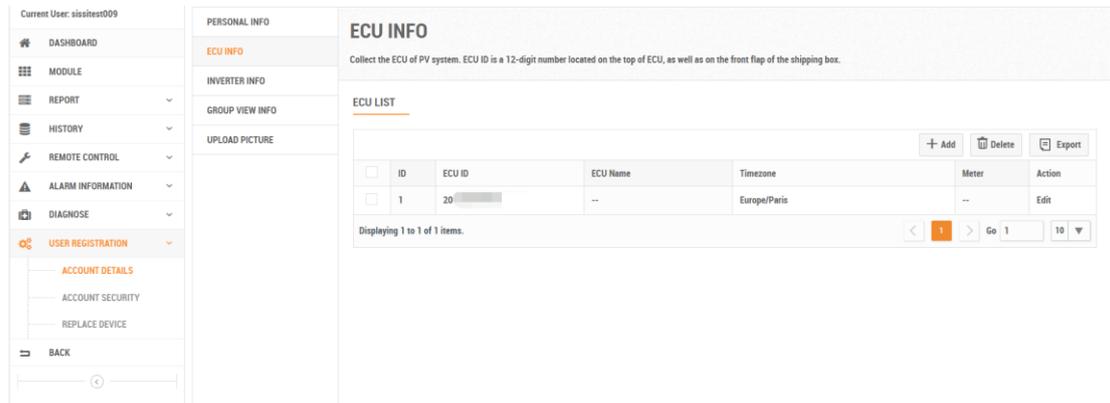
The modification and management of account information is same as ordinary user.



1. Information Inquiry and Management

2.2.1.2 ECU Information

The process of adding and managing ECU information is same as ordinary user.



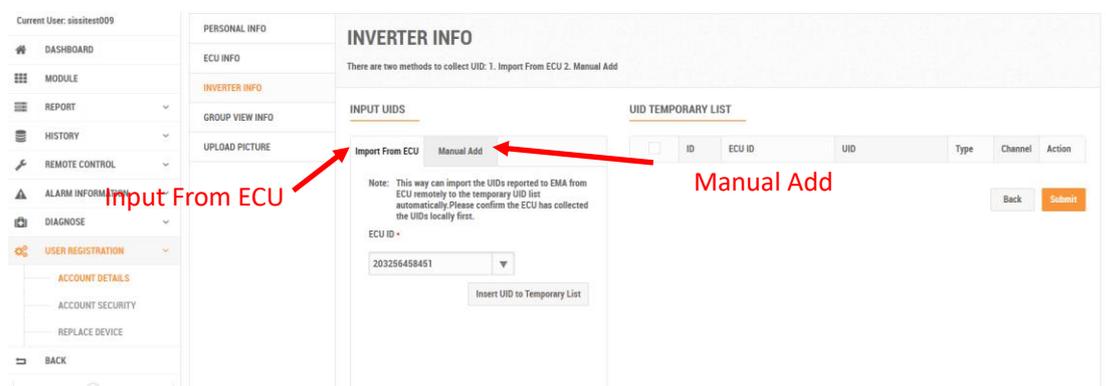
Note:

Edit ECU: Changing ECU ID will affect the ECU ID of shared ECU sub users. To maintain the relationship between master and sub users, the ECU ID must be same, otherwise there is no correlation.

Replace ECU: you need to go to the "REPLACE DEVICE " page under " USER REGISTRATION ".

2.2.1.3 Inverter Information

The registration and management of Inverter information is same as ordinary user.



2. Information Inquiry and Management

Note:

Replace Inverter: you need to go to the "REPLACE DEVICE " page under " USER

2.2.1.4 View Information

View information is required of new version EMA, the adding and management of view information is same as ordinary user.

ID	ECU ID	View Name	Input Number	Max Row	Max Column	Action
1	203256458451	view	2	1	2	Edit

2.2.1.5 Upload Picture

It is used to save the uploaded installation drawings or system pictures. It is an optional item. The upload process is the same as the ordinary users.

SYSTEM PICTURE
Register system pictures,Users can view,add,edit,and delete these pictures.Format:png,jpg. Size:0-10M.

DRAWING PICTURE
Register drawing pictures,Users can view,add,edit,and delete these pictures.Format:png,jpg,pdf. Size:0-10M.

2. Information Inquiry and Management

2.2.2 Shared ECU Sub User

Shared ECU sub user information is similar to shared ECU master user information, including personal information, ECU information, Inverter information, view information and upload pictures.

The screenshot shows the 'PERSONAL INFO' page for a shared ECU sub user. The left sidebar contains a navigation menu with options: DASHBOARD, MODULE, REPORT, HISTORY, REMOTE CONTROL, ALARM INFORMATION, DIAGNOSE, and USER REGISTRATION. Under 'USER REGISTRATION', there are sub-options: ACCOUNT DETAILS, ACCOUNT SECURITY, and UPGRADE ACCOUNT. The main content area is titled 'PERSONAL INFO' and includes a sub-section 'ACCOUNT INFO'. It displays the following information: 'Shared Master User : sisitest009 , Shared ECU ID : 203256458451'. Below this, there are input fields for 'Login Account' (containing 'sisitest012'), 'Contact Email' (containing '340@qq.com'), and 'Name' (containing 'sisitest012'). There is also a 'Contact Phone - Optional' field and a checkbox for 'Allow visitors to access to this system'. A note at the bottom states: 'Enabled this function, users can display this system on other websites through embedded services. Refer to [help] for operation details.'

Note:

The information management is similar to the ordinary user, except that the registration information of ECU ID and Inverter UID can be obtained by associating the registration information of master user.

After shared ECU sub users purchase new ECU as private communication device, the installer can upgrade it from sub user to ordinary user.

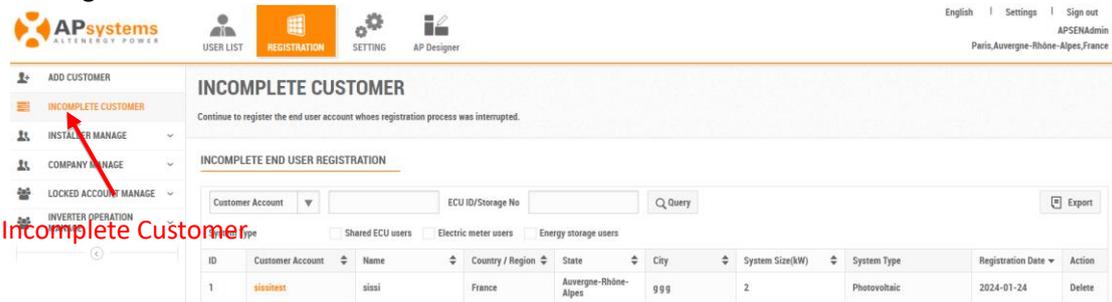
The screenshot shows the 'Upgrade Account' page. The left sidebar is identical to the previous screenshot. The main content area is titled 'Upgrade Account' and contains the following text: 'Once the shared ECU sub-user bought a new ECU as his own communication device, installer can upgrade his account as a customer account. Note: Upgrade operation can not be returned, please be careful.' Below this, there is a sub-section 'UPGRADE ACCOUNT' with two input fields: 'Shared ECU ID' (containing '203256458451') and 'New ECU ID'. An 'OK' button is located at the bottom of the form.

2. Information Inquiry and Management

2.3 Incomplete Customer

Registration procedure may be interrupted due to special reasons. EMA will retain the unfinished registration information for the customers who can continue registering after completing other works.

The procedure is the same as normal users'. In the "Registration", search the unfinished registration customers in "Incomplete Customer" list and follow the reminders to continue the registration.



The screenshot shows the APsystems web interface. The left sidebar contains a menu with items: ADD CUSTOMER, INCOMPLETE CUSTOMER (highlighted with a red arrow), INSTALLER MANAGE, COMPANY MANAGE, LOCKED ACCOUNT MANAGE, and INVERTER OPERATION. The main content area is titled 'INCOMPLETE CUSTOMER' and includes a sub-section 'INCOMPLETE END USER REGISTRATION'. Below this, there are search filters for Customer Account, ECU ID/Storage No, and a Query button. A table lists the incomplete registrations with columns for ID, Customer Account, Name, Country / Region, State, City, System Size(kW), System Type, Registration Date, and Action.

ID	Customer Account	Name	Country / Region	State	City	System Size(kW)	System Type	Registration Date	Action
1	sissiteat	sissi	France	Auvergne-Rhône-Alpes	999	2	Photovoltaic	2024-01-24	Delete

3. System Data Monitoring

The data monitoring content of the shared ECU is basically same as normal users' . The following tables list the differences between them.

3.1 Different Types Of User Login Monitor Content

Objects	Sub User	Master User	Normal User
System energy	Only display the power generation data of the inverter which belongs to current Shared ECU sub user account	Display the power generation data of all the inverters under this ECU. When there are several ECUs, it is the summary value of all ECUs	Display the power generation data of all the inverters under this ECU. When there are several ECUs, it is the summary value of all ECUs
Module	Only display the layout of the current Shared ECU sub user account view and the power generation data of corresponding component	Display the inverter layout view for all Shared ECU Sub User and the power generation data of corresponding component	Display the current user layout view and the power generation data of corresponding component
Report (including system overview, ECU level data, power generation data report download)	Only display the current Shared ECU Sub User's inverter power generation data and the corresponding environmental benefits	Display the all Shared ECU Sub User's inverter power generation data and the corresponding environmental benefits	Display all the inverter under the ECU power generation data and the corresponding environmental benefits, when there are several ECUs, it is the summary of the value
Setting (including system information, system information maintenance)	Only the current Shared ECU Sub User account basic information is displayed Only the historical data of the current Shared ECU Sub User system is displayed	Display the Shared ECU Master User account information Display the Shared ECU Master User 's ECU history and all Shared ECU Sub User 's inverter history data	Display user basic information Display system history

3. System Data Monitoring

3.2 Installer Management Shared ECU Users

Object	Shared ECU Sub User	Shared ECU Master User	Normal User
User generation information: Such as system energy, component power, system reports, etc.	See "3.1 Different Types Of User Login Monitoring Content Difference"		
History (ECU history data, inverter history data)	Only displays the current Shared ECU Sub User's ECU and inverter history	Display the Shared ECU Master User 's ECU history and all Shared ECU Sub User 's inverter history data	Display system ECU and inverter history
Remote control	Both user actions operate on the entire ECU range		Acting on the entire ECU range
Diagnose	Only show Shared ECU Sub User's information and working condition of registered inverter	Display the Shared ECU Master User information, working condition of Shared ECU Sub User's inverter has been registered and the report of the unregistered but have reported data inverter	Display system user information, the working condition of the inverter has been registered and the inverter has not been registered but reported data