

User Manual

Share ECU

Version 1.0

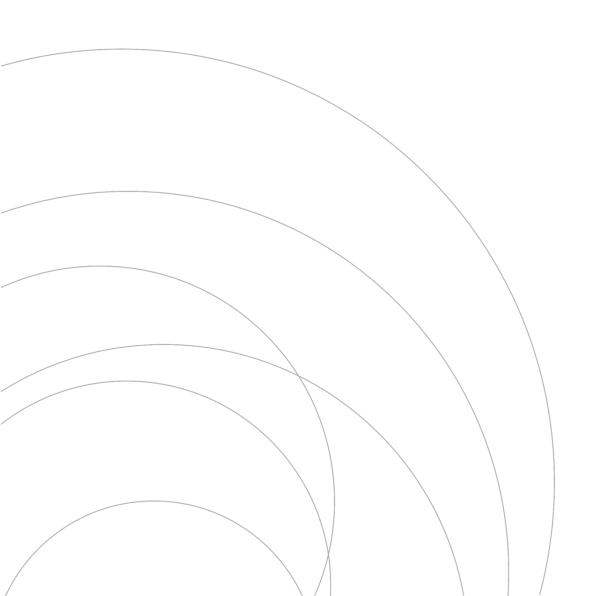


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Basic conception and usage restriction

Introduction

Share ECU is a solution that the adjacent families sharing a wireless communication ECU to upload the data of Inverters, but every family has an individual EMA account. This article brings this new solution and give a quick guide to use.

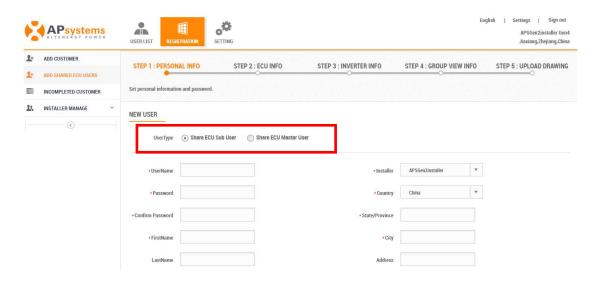
The two different customers of Share ECU

Introduction of the two different customers

Share ECU Sub User : ECU could create accounts for different families who use a same ECU device to monitor the output data of their Inverters. There is no interference between the different accounts which use a same ECU device. Each customer could look over the data of his/her Inverters independently.

Share ECU Master User:

For easy management, installers are allowed to register an additional account to monitor the output power of all the Inverters which are using a same ECU device.



Basic conception and usage restriction

Registration management

There is a single entry for Share ECU registration and the registration steps are

different.

Sub User:

The registration steps are similar to the normal accounts' registration. Notice

inputting the devices' ID numbers belong to the customer while adding

inverters.

Master User:

Only need to register customer information and ECU ID number. EMA will

automatically associate this account with other Share ECU sub users who use

the same ECU device. Notice that the account is optional.

The permission of installers:

Installers could not register the Share ECU account by default. If need to

grant this permission, please connect with APSystems.

Systems data monitoring

The output power data has something difference from the normal customers'.

Sub User: Could only look over the data belongs to their own device.

Master User: Could look over the summarized data of Share ECU.

The restrictions of Share ECU

Only for Zig-bee communication.

Make sure the distance less than 300m. Keep the different parts of inverters

and ECU connection before sharing.

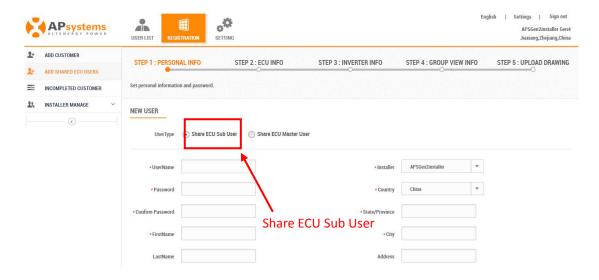
Share ECU Sub User Registration

The registration procedure is same as the normal users'

Including personal information, registration ECU information, registration inverter information, create system view information (optional), upload drawings (optional).

Registration entry

Select "Registration ", "Add Share ECU Users". This menu is only visible to the administrator account that has been activated for " Add Share ECU Users".



Personal Information

Need to select "Share ECU Sub User". Other information is the same as registering a normal account.

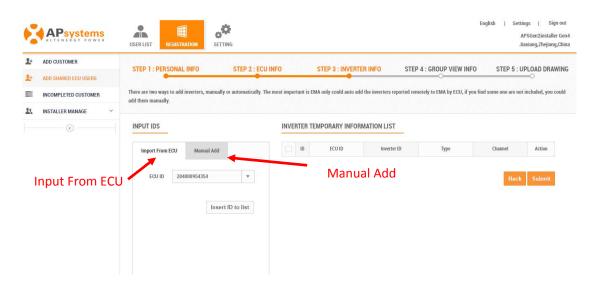
ECU Information Registration

Similar to the registration procedure for normal users. But please notice that modifying or replacing the ECU: The changed ECU ID only affects the current Share ECU sub user account but doesn't affect the ECU ID of the associated Share ECU master user.

If the Share ECU sub user's ECU ID is different from the Share ECU master user's. It will not make any sense of Share ECU.

Inverter Registration

There are two ways registering the inverters in EMA, including "Import from ECU" and "Manual Add ". Either way, adding an inverter only need to add the inverter ID number that belongs to the Share ECU sub user.



View Information Adding

Optional step. The register method is divided into "Automatic Adding" and "Manually Adding ", which is same as normal users'.

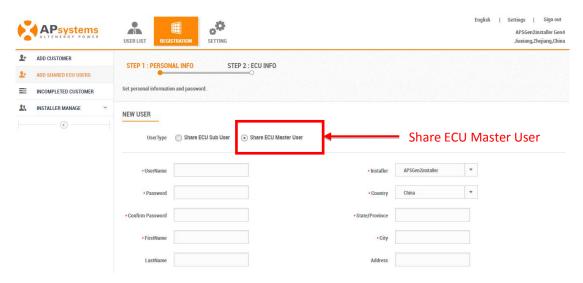
Drawings Uploading

Use to save uploaded installation drawings or photos of the system. It is an optional step for registration. The procedure is the same as normal users'.

Share ECU Master User Registration

Share ECU Master User registration includes personal information and ECU registration information.

The registration procedure is similar to the normal users'. But notice that selecting the Share ECU master user as the user type.

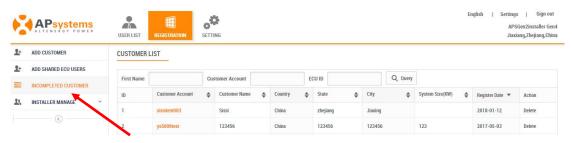


After the registration procedure has been completed, EMA will automatically find all Share ECU sub user accounts corresponding to the ECU ID number according to the ECU ID number and associate the registered inverters, views information, installation drawings and other information to this account.

Incompleted 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 "Incompleted Customer" list and follow the reminders to continue the registration.



Incompleted Customer

System Data Monitoring

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

Different types Of user Login Monitor Content

Objects	Sub User	Matser User	Normal User
System energy	Only display the power generation data of the inverter which belongs to current Share 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	Displaythe 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 Share ECU sub user account view and the power generation data of corresponding component	Display the inverter layout view for all Share 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 Share ECU Sub User's inverter power generation data and the corresponding environmental benefits	Display the all Share 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 Share ECU Sub User account basic information is displayed Only the historical data of the current Share ECU Sub User system is displayed	Master User account information Display the Share ECU	Display user basic information Display system history

System Data Monitoring

Installer Management Share ECU Users

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