# Univers EMS Application User Manual – Installer Admin & Installer

Rev. 1.3.1



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### **Version Control**

Rev.	Date	Description	Changed By	Approved By
1.2.4	07.FEB.2024	Accomodated updates from 240130 release (Application release v1.2.4)	Crystal Zhou;	Crystal Zhou
			Tang Kaiyi	
1.2.5	09.APR.2024	Accomodated updates from 240330 release (Application release v1.2.5)	Crystal Zhou; Tang Kaiyi	Crystal Zhou
1.2.6	04.JUN.2024	Accomodated updates from 240530 release (Application release v1.2.6)	Crystal Zhou; Tang Kaiyi	Crystal Zhou
1.2.9	30.AUG.2024	Accomodated updates from 240830 release (Application release v1.2.9)	Crystal Zhou; Claire Cui	Crystal Zhou
1.3.1	30.NOV.2024	Accommodated updates from 241130 release (Application release v1.3.1)	Crystal Zhou; Claire Cui	Crystal Zhou

### **Update Contents**

### **New Features**

- 1. Added Alarm Detail for alarms on mobile app.
  - On Alarm module, users can click each alarm to see the alarm details.
  - On Alarm detail page, users can accept the alarm by clicking "Accept", then the alarm will be marked as "Acked" on the alarm list.
  - On Alarm detail page, users can clear the alarm by clicking "Clear", then the alarm will be deleted from the alarm list.
  - Refer to <u>Alarm Detail</u>

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- 2. Implemented **Asset Tree navigation** to display information on specific company/site/device on web portal.
  - On Home Page, default displays cross-site statistics of the root node company.
  - Refer to <u>Home Page</u>
  - Users can search company/site/device on the asset tree.

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• Users can view the cross-site statistics by selecting the company on the asset tree.

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• Users can view the site details by selecting the site on the asset tree.

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• Users can view the device details by selecting the device under a specific site on the asset tree.

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### **Main Enhancements**

1. Enhanced the design of the fleet map.

- Users can view the KPI data of power site distribution and aggregation under the company / regional node flexibly.
- The column on the right shows the key metrics of all sites within the scope of user authority; the left shows the production, energy trend, consumption and EV station statistics of the selected level (integrated sites or single site).
- Refer to Fleet Map



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### **1** Mobile Application – Installer Admin & Installer

### **1.1 Setup Account**

### 1.1.1 Installer Admin Account Setting

#### Method1:

- 1. Entelar admin will collect your email address and username, and create an account based on the email address and username.
- 2. You will receive a registration email by that email address after admin create for you.
- 3. Click the link in email to set the password in accordance with password policy requirements. You will be redirected to the website to set your password.

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Note: If email is not in your inbox, please check your spam/junk email

### Method2:

- 1. Download the mobile application in Google Play or App Store. The application name is Univers EMS
- 2. Open the application and click on **[Self Registration]** at the bottom of the page.
- 3. Tap on [I'm an Installer Admin].

EnOS

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	ers	2	I'm an Installer Admin → Real-time monitoring of plant operation. Top to create your account
Login	English≁	2	I'm an Installer → Quick setup, O&M, Operation monitoring. Tap to create your account
😫 Username			
Password	Ø		
	⑦ Forgot password		
☐ I have Read and Agre <u>ment</u> and <u>Privacy Pc</u>	ed to the <u>User Agree</u> <u>licy</u>		
Logi	n		
Self Regis	tration		

- 4. You will be directed to the Installer Admin Account Self-Registration page. **Please note that:** this process is creating new installer company and at the same creating your account as installer admin of this new company, so if your installer company has been registered, please contact corresponding installer admin to add account for you.
  - a) **Company Invitation Code**: get from your parent company admin user, and new company your register will be the sub-company under this Company.
  - b) **Company name**: enter company name that you will register, this will create a sub company under the parent company which you have provided the invitation code.
  - c) **Username**: enter your preferred username.
  - d) **Password**: enter a password.
  - e) Confirm Password: enter your password again.
  - f) User Email: enter your email address.
  - g) **Verification Code**: press the **[Send]** button first, a verification code will be sent to your email address, key in the verification code here.

Note: If email is not in your inbox, please check your spam/junk email.

- h) Read and tick the button to consent the User Agreement and Privacy Policy.
- i) Press [Register] button to complete the registration.

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	Register	

### 1.1.2 Installer Account Setting

### Method1:

- 1. Installer admin will collect your email address and username, and create an account based on the email address and username.
- 2. You will receive a registration email by that email address after admin create for you.
- 3. Click link in email to set the password in accordance with password policy requirements. You will be redirected to the website to set your password.

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Note: If email is not in your inbox, please check your spam/junk email

#### Method2:

- 1. Download the mobile application in Google Play or App Store. The application name is Univers EMS
- 2. Open the application and click on **[Self Registration]** at the bottom of the page.
- 3. Tap on [I'm an Installer].

EnOS

17:48	. <b>11 46 30</b>	9:41 <	जा रू 🖿
VIVe	ers	2	I'm an Installer Admin → Real-time monitoring of plant operation. Tap to create your account
Login	English✔	•	I'm an Installer → Quick setup, O&M, Operation monitoring. Tap to create your account
A Username			
Password	8		
(	③ Forgot password		
I have Read and Agreed ment and Privacy Poli	d to the <u>User Agree</u> icy		
Login			
Self Registr	ration		

- 4. You will be directed to the Installer Account Self-Registration page.
  - a) Company Invitation Code: get from your Installer Company'Installer Admin
  - b) **Username**: enter your preferred username.
  - c) **Password**: enter a password.
  - d) Verify Password: enter your password again.
  - e) User Email: enter your email address.
  - f) Verification Code: press the [Send] button first, a verification code will be sent to your email address, key in the verification code here. Note: If email is not in your inbox, please check your spam/junk email.
  - g) Read and tick the button to consent the User Agreement and Privacy Policy.
  - h) Press [Register] button to complete the registration.

### EnOS

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Please e	nter user name	
Passwo	rd *	
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Please e	nter an email address to register	account
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🔿 I hav	e Read and Agreed to the <u>Use</u>	r Agreeme
<u>nt</u> a	nd Privacy Policy	
	Register	

1.2 Login



### **1.2.1** Application Download

1. You can download the mobile application in Google Play for Android users or App Store for Apple users. The application name is Univers EMS as shown in Figure.

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Search			
	Univers Univers Ho Energy Ma	EMS me nagement	Û
AGE <b>17+</b> Years Old	CATEGORY Business	DEVELOP	GITAL
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2. Or you can also download from the link provided in the Set Account email.





### 1.2.2 Application Login

- 1. Enter your username or email address and password.
- 2. Read and check the **box** to consent the User Agreement and Privacy Policy.
- 3. Press the **[Login]** button.



After logging, you will be directed to the Home page of Univers EMS where you can monitor your plants.

### EnOS

15:15			
Plants	Statistics		
唱- Plant Guide	2. Add Users		
All Normal 1,709 4	FaultyOffline71,698		
Q Plant name	品 7		
Plant Operation State: Nr Capacity: 200.00 kW Production Today: kW Active Power: 0.00 kW	Normal brmal		
Plant Operation State: O Capacity: 100.00 kW Production Today:kW Active Power:kW	Offline h		
Plant Operation State: Or Capacity: 200.00kW Production Today:kW	Offline		
Home Alarm	Management Me		

### 1.2.3 Forgot Password

If you forget the login password, click the 'Forget password' button to reset the password.

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<	Forgot password
Email * Email addi	ess
Confirm e Please re-	mail * enter email address
O Please accourt	enter the email address bound to the nt, password reset email will be sent
	Apply

### 1.3 Company & User Management

### 1.3.1 Company Management

The application provides the module of multi-level company management, which can be flexibly supported by the multi-level distributor and installer model of overseas household savings. Company Management module is for System Admin and Installer Admin to manage the sub-companies. The user can create, edit, or delete a sub-company. The user is allowed to create up to four levels of sub-companies under the root node.

You can access the page by go to [Me] page and press [Company Management].



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Settings			>
	<u>in</u>		

You will be directed to the Company Management page as shown below. The page will show a list of sub-companies that you have permission.

12:22		4G 🔠
<	Company Management	0
Q Con	npany Name	
E Univ	ers	^
	installer Company	



### 1.3.1.1 Create Sub-Company

You can create more sub-company if needed.

1. Press the [Manage icon] on the top right-hand corner.

12:22	1	.11 4G 🔠
<	Company Management	O
Q Cor	npany Name	
🗈 Univ	vers	^
₿	Installer Company	

2. Select a parent company that you want to add the sub-company to and press the **[Sub Company]** button on the bottom to add a sub-company to the selected parent company.



12:31		all 4G 📧
	Select Company	Cancel
Q Company	/ Name	
🔵 🖪 Unive	rs	^
🕑 🗈 In	staller Company	



3. Enter the **Company name**, **Username** and **User email**. This user account will automatically be installer admin for this company.

12:33		ul 4G 80
<	Add Sub-company	
Parent co	mpany	
Installer C	Company	
Company	Name *	
Please en	ter company name	
Username	•*	
	ter username	
User Ema	il *	
Please en	ter User's email address	
More V		
Cano	el Apply	

- 4. Press the **[More]** to enter the Company Email, Phone, Website, Address and Company Invitation Code if needed.
- 5. Company Invitation Code will be used for Installer Admin/Installer under the company to fill in during self-registration. Please provide it to the relevant installer users. If invitation code is changed, previous one will be invalid.

Note: It requires 8-64 characters and numbers, the invitation code must be unique.

6. Press the **[Apply]** button to create the sub-company.

-		~	$\sim$
-	m	()	Sec.
<u> </u>		$\sim$	$\sim$

16:49		
<	Add Sub-company	
Company E	Email	
Please ente	er company contact email	
Company F	Phone	
Please ente	er company contact phone nu	Imber
Company V	Vebsite	
Please ente	r company website	
		0/500
Company A	Address	
Please ente	r company address	
		0/500
Company	witation Code	
Please ente	er the company invitation cod	e 🗗
	0	Senerate
Fold A		

Note: Maximum four levels of company are allowed.

### 1.3.1.2 **Delete Sub-Company**

Pre-requisite: You only can delete a sub-company if there is no sub-companies, no users and no plants under this sub-company.

1. Press the [Manage icon] on the top right-hand corner.

12:22	2	.11 4G 🛅	
<	Company Management	٢	
Q Cor	npany Name		
🗈 Univ	vers	^	
≞	Installer Company		

- 2. Select a sub-company that you wish to delete and press the **[...More]** button on the bottom right-hand corner.
- 3. Press [Delete Company] button.



4. Press [Delete] on the pop-up window to confirm the deletion.



12:25		.11 4G 🔠
	Select Company	Cancel
Company N	ame	
🔿 🗈 Univers		^
😒 🗈 Insta	aller Company	
Dele reco yo Car	ted company cannot t vered. please confirm pu want to delete this company? ticel Delet	e a
<b>않</b> User	🐍 Sub company	··· More

### 1.3.1.3 Edit Sub-Company

1. Press the **[Manage icon]** on the top right-hand corner.

12:22		II 4G 81
<	Company Management	Θ
Q Cor	npany Name	
🗈 Univ	vers	^
₽	Installer Company	

- 2. Select a sub-company that you wish to delete and press the **[...More]** button on the bottom right-hand corner.
- 3. Press [Edit Company] button.

12:25		uti 46 81
	Select Company	Cancel
Q Compar	ny Name	
🗋 🗈 Univ	ers	^
😒 🗈 I	nstaller Company	
	3 E Ed	it Company
	De	lete Company
0		
Gi User	Lo Sub comp 2	···· More

- 4. You will be redirected to the Edit Company page where you can edit the company information such as the company name, email, phone, website, address and invitation code. Parent company is not editable.
- 5. Company Invitation Code is used for Installer Admin/Installer under the company to fill in during self-registration. Please provide it to the relevant installer users. If invitation code is changed, previous one will be invalid.

Note: It requires 8-64 characters and numbers, the invitation code must be unique.

17:08		al ? 92
<	Edit Company	
Parent comp	bany	
hossain		
Company Na	ame *	
demoCompa	пу	
Company En	nail	
Company Ph	one	
Company Ph	one	
Company W	ebsite	
Company We	bsite	
		0/500
		0/500
Company Ac	ldress	
		0/500
Company In	itation Code (2)	
Please enter	the company invitation code	由
	1 - 21-11-11-11-11-11-11-11-11-11-11-11-11-1	
	Ge	nerate
Cancel	Apply	

6. Press [Apply] to save the changes.

### 1.3.2 User Management

User Management is for Admin, Installer Admin, and Installer to manage the user accounts under his/her authority. This involves creating, deleting, and disabling a user account or reset password for a user account. Distinct roles have different management permissions:

- System Admin: can manage Installer Admin, Installer and End User accounts.
- Installer Admin: can manage Installer and End User accounts.
- Installer: Installer could manage End User accounts.

You can access the page by go to the **[Management]** page and switch to the **[Users]** tab. This page shows a list of users that you have management permission.

### EnOS

	12:41			<b>atl</b> 40	3 79
	Plants	Dev	ices	Users	+
	Q Username		-	品	7
l	EndUser Insta	aller Cor	np	Enab	led
	Role: User				
	Email: chydhu@1	63.com			
i	hossain.ad	Univer	s	Enab	led
	Role: System ac	lmin			
	Email: 182172578	51@139.	com		
1	hossaintest	Jnivers		Enab	led
	Role: System ac	lmin			
	Email: hongyuan.	chen@ur	nivers.com		
			_		
		à.	•		0
	Home Al	arm	Managemen	1t	Vie



### 1.3.2.1 User Account Creation through Home Page

12:44	.11 4G <b>7</b> 9	12:07	.비 후 98
Plants	Statistics	< Add	l User
<i>⊈</i> - Plant Guide	온 Add Users	Service provider * 0618demo	>
All 3 0	Fault Offline 3	Role * Installer admin	>
Q Plant name	Ciffline	Username * Example	
Plant Operation State: Offli Capacity: 10.00kW Production Today:kWh	ne	User email * example@email.com	
Active Power: kW		Profile photo	>
Demo site02 Plant Operation State: Offli Capacity: 200.00 kW Production Today:kWh Active Power: 0.00 kW	Offline		
Demo Site Plant Operation State: Offli Canacity: 15.00kW	Offline	Library obtained the a	
Production Today: kWh		Cancel	Apply
Home Alarm	Management Me		

1. Go to **[Home]** page and press the **[Add Users]** button.

- 2. Service provider: select company this user belongs to
- 3. Role:
  - a. If you are a system admin, you can select [System Admin]/[Installer Admin]/[Installer]/[End User].
  - b. If you are an installer admin, you can select [Installer Admin]/[Installer]/[End User].
  - c. If you are an installer, you can select [End User].
  - d. When creating **Installer** accounts, you can choose the related plant but it is not mandatory.
  - e. When creating **End User** accounts, it is mandatory to choose the related plant.
- 4. Username: enter the **Username** for the user.
- 5. User email: enter the user's **email** address.
- 6. Profile photo: set the profile phone if needed.
- 7. Check the **[box]** to confirm that you have obtained the owner's authorization.
- 8. Press the **[Apply]** button to create the account.

### 1.3.2.2 User Account Creation through Management Page

1. Go to [Management] page, switch to the [Users] tab and press the [+] button.

### EnOS



- 2. Service provider: select company this user belongs to
- 3. Role:
  - a. If you are a system admin, you can select [System Admin]/[Installer Admin]/[Installer]/[End User].
  - b. If you are an installer admin, you can select [Installer Admin]/[Installer]/[End User].
  - c. If you are an installer, you can select [End User].
  - d. When creating **Installer** accounts, you can choose the related plant but it is not mandatory.
  - e. When creating **End User** accounts, it is mandatory to choose the related plant.
- 4. Username: enter the **Username** for the user.
- 5. User email: enter the user's **email** address.
- 6. Profile photo: set the profile photo if needed.
- 7. Check the **[box]** to confirm that you have obtained the owner's authorization.
- 8. Press the [Apply] button to create the account.

### 1.3.2.3 User Account Creation through Company Management

1. Go to [Me] page and press [Company Management].



Me demo001 demo001@maildrop.cc Corporate Information	>
demo001 demo001@maildrop.cc	>
E Corporate Information	>
E Company Management	>
. WIFI Settings	>
(i) About	>
Settings	>
	•
Home Alarm Management	Me

2. Press the [Manage] icon.

17:22		I ? 🗊
<	Company Management	Θ
Q Comp	any Name	
🗈 hossai	n	^
🗈 de	moCompany	

3. Select the company which you want to add the user into and press [User] button.

17:22		41 <b>? (1</b> 1
	Select Company	Cancel
Q Company	Name	
🗈 hossain		^
🕑 🗈 de	moCompany	
0		
10000		
2		
🔐 User	🐍 Sub company	··· More

4. Press [+] button at the top right hand corner.

1	al 🕈 🛐	17:22	11 <b>?</b> 81
User Management	+	< Add	d User
rname	7	Service provider * demoCompany	>
0001 demoCompany Installer admin : demo001@maildrop.cc	Enabled	Role * Select	>
0002 demoCompany Installer : demo002@maildrop.cc	Enabled	Username * Please enter the userna User email *	me
0003 demoCompany User : demo003@maildrop.cc	Enabled	Please enter the email a Profile photo	ddress >
		Cancel	owner's authorization.
	User Management aname continue demoCompany installer admin is demoCompany installer is demoCompany User is demoCompany is d	User Management + User Management + out the second sec	Luser Management + User Management + Imame V Add Service provider * demoCompany Enabled Installer admin installer demoCompany Enabled Installer demoCompany Enabled User email * Please enter the userna User email * Please enter the email a Profile photo Service provider * demoCompany Enabled User email * Please enter the email a Profile photo Service provider * demoCompany Enabled User email * Please enter the email a Profile photo Service provider * demoCompany Enabled User email * Please enter the email a Profile photo Service provider * demoCompany Enabled User email * Profile photo Service provider * demoCompany Enabled User email * Profile photo Service provider * demoCompany Enabled User email * Profile photo Service provider * demoCompany Enabled Service provider * demoCompany Enabled User email * Profile photo Service provider * demoCompany Enabled Cancel

- 5. Service provider: select a sub-company this user belongs to
- 6. Role:



- a. If you are a system admin, you can select [System Admin]/[Installer Admin]/[Installer]/[End User].
- b. If you are an installer admin, you can select [Installer Admin]/[Installer]/[End User].
- c. If you are an installer, you can select [End User].
- d. When creating **Installer** accounts, you can choose the related plant but it is not mandatory.
- e. When creating **End User** accounts, it is mandatory to choose the related plant.
- 7. Username: enter the **Username** for the user.
- 8. User email: enter the user's **email** address.
- 9. Profile photo: set the profile photo if needed.
- 10. Check the **[box]** to confirm that you have obtained the owner's authorization.
- 11. Press the **[Apply]** button to create the account.

### 1.3.2.4 User Account Deletion

1. Choose a user account that you wish to delete and press on it.

Plants     Devices       O Username     Image: Complexity of the second	Users + R 7 Enabled
C Username  EndUser Installer Comp Role: User Email: chydhu@163.com  hossain.ad   Univers	유 7 Enabled
EndUser       Installer Comp         Role:       User         Email:       chydhu@163.com         hossain.ad       Univers	Enabled
hossain.ad Univers	
Role: System admin Email: 18217257851@139.com	Enabled
hossaintest Univers Role: System admin Email: hongyuan.chen@univers.com	Enabled

- 2. You will be directed to the user information page, press the [...] button on the top right-hand corner.
- 3. Press [Delete user] button to delete the desired user account.
# EnOS

12:51	,111 4G <b>77</b>
<	hossaintest 1
Service provider	Disable account
Role	O Reset password
Username	2 편 Delete user
User email	hongyuan.chen@univers.com
Profile photo	2

4. Press **[Delete]** on the pop-up window to confirm the deletion.

12:51		.11 4G 😿
<	hossaintest	
Service provider		Univers
Role	Ş	System admin
Username		hossaintest
User email	hongyuan.chen	@univers.com
Profile photo		8
Delete recove yc	ed account cannot b ered. Please confirm ou want to delete?	be Lif
Cano	cel Delete	e



### 1.3.2.5 User Account Disabling

1. Choose a user account that you wish to disable and press on it. You could perform a fuzzy search by the User Name to look for the user account.

12:51		.ill 4G 🗾
Plants	Devices	Users +
Q Username		品 7
Role: User Email: chydhu@10	aller Comp 63.com	Enabled
hossain.ad Role: System ad Email: 182172578	Univers Imin 351@139.com	Enabled
hossaintest Role: System ac Email: hongyuan.	Univers Imin .chen@univers.co	Enabled
	á A	

- 2. You will be directed to the user information page, press the [...] button on the top right-hand corner.
- 3. Press [Disable account] button to disable the desired user account.



12:51	
<	hossaintest 🚺 😶
Service provider	2 Disable account
Role	O Reset password
Username	Delete user
User email	hongyuan.chen@univers.com
Profile photo	2

4. Press **[Yes]** on the pop-up window to confirm the disabling of the account. Disabled account is not able to login to the App. Support enabling back the disabled accounts.

12:5	9		.al <b>i</b> 4G 7
<	h	ossaintest	
Service	e provider		Univers
Role		Sys	stem admin
Userna	ame		nossaintest
User e	mail	hongyuan.chen@u	inivers.com
Profi	The user log in. Ple want	will not be able to base confirm if you to disable the account?	2
	Cancel	Yes	



### 1.3.2.6 Password Resetting

1. Choose a user account that you wish to reset the password and press on it.



- 2. You will be directed to the user information page, press the [...] button on the top right-hand corner.
- 3. Press [Reset password] button to reset the user's password.



16:04		al 🗟 🔂
<	0614_test191	0
Service provider		Disable account
Role	2 0	Reset password
Username		Delete user
User email	0614_te	st19101@163.co
Profile photo		Q

4. Press **[Yes]** on the pop-up window to confirm the resetting of this user's password. A password reset email will be sent to this user's email.

12:	59		<b>1 </b> 4G (	76
<	J	hossaintest		
Servi	ice provider		Uni	vers
Role			System ac	dmin
User	name		hossair	ntest
User	email	hongyuar	n.chen@univers.	com
Profi	p!			Do
	The use log in. P wan	r will not be lease confin it to disable account?	able to m if you the	
	Cancel		Yes	

## 1.3.2.7 User Account Editing

1. Choose a user account that you wish to edit and press on it.



1000	18:16		.ıl 🔶 🕻
	Plants	Devices	Users -
	Username		A T
	demo001   der Role: Installer a Email: demo001@	noCompany dmin ≌maildrop.cc	Enabled
1	<b>demo002</b>   de Role: <b>Installer</b> Email: demo002(	moCompany ®maildrop.cc	Enabled
	demo003   der Role: User Email: demo003(	moCompany @maildrop.cc	Enabled
	Home A	iarm Manage	mant Mo

2. You will be directed to the user information page, press the **[Edit]** button at the bottom.

18:16	.ıl 🕈 🕅
<	demo002
Service provider	demoCompany
Role	Installer
Related Plant	
Username	demo002
User email	demo002@maildrop.cc
Profile photo	2
	Edit

3. You could edit the company and the plant for the user.



18:17		.1 🗢 🖾
<	Edit user	
Service provi demoCompa	ider * ny	>
Role * Installer		>
Related Plan Select	t	>
Username * demo002		
User email * demo002@m	aildrop.cc	
Profile photo		>
I have obt	ained the owner's autho	rization.
Cancel	Comple	te

4. Tick the box after you have obtained the owner's authorization and press **[Complete]** to save the changes.

18:26		.ul 🗢 📧
<	Edit user	
Service provide demoCompany	r*	>
Role * Installer		>
Related Plant Select		>
Username * demo002		
User email * demo002@mail	drop.cc	
Profile photo		>
Nave obtair	ned the owner's auth	orization.
Cancel	Compl	ete

## **1.4 Residential Plant & Device Management**

### 1.4.1 Device Onboarding & Residential Plant Setting Up

### 1.4.1.1 Setting Up on Commissioning App

To set up residential site and devices, user needs to use the mobile application **Commissioning App "HiSolar"** to connect the device to the Univers EMS.

Set up the device by following the steps below:

#### Step 4:

- If the site has EEDongleA-05:
  - You can either fill in the the domain <u>entelarenergy-emsportal.com</u> or the IP address: 20.199.96.147. You may approach entelar admin if it is not available.
  - Port Number: **27250**
  - TLS Encryption: Enabled
- If the site does not have EEDongleA-05:
  - You can either fill in the the domain <u>entelarenergy-emsportal.com</u> or the IP address: 20.199.96.147. You may approach entelar admin if it is not available.
  - Port Number: **27251**
  - TLS Encryption: **Disabled**

#### Step 5:

• The set up on Commissioning App is only completed the page is displayed with the **Connect to mgmt sys.** 

# EnOS





### 1.4.1.2 Setting Up on Univers EMS

**Pre-requisite:** You need disconnect from device Wi-Fi first, make sure your phone is connected to a public network, and then enter the Univers app.

After the setup is completed and successful on Commissioning App, you will have to set up the residential site and connect device on the Univers EMS Mobile Application.

1. Go to **[Home]** page and press the **[Plant Guide]** button.

_	
10:03	11 4G <b>7</b> 8
Plants	Statistics
	은 Add Users
All Normal 2	Fault Offline 0
Q Plant name	用 7
Demo01	Offline
Capacity: 10.00kW Production Today:k Active Power:kW	Wh
Demo site02	Normal
Plant Operation State: Capacity: 200.00 kW Production Today: 7.01 Active Power: 0.73 kW	Normal kWh
🚍 Demo Site	Normal
Plant Operation State: Capacity: 15.00kW Production Today: 11.7	Normal 7 kWh
Home Alarm	Management Me





- 2. Connect the device through pressing [Scan the QR code of the device] or pressing [Enter the SN number of the device].
  - a. For the Connectivity Scenario with Dongle, you could scan the QR or enter SN of Dongle device, or scan the QR or enter SN of Inverter device.
  - b. For the Connectivity Scenario without Dongle, you could scan the QR or enter SN of Inverter device.





3. After you have scanned the QR code or entered the SN of the device, press **[Add to new plant]** to the plant setup one-stop process.

14:58	al 🕈 🔯
Plants	Statistics
壆 Plant Guide	온 Add Users
All Normal 1,707 5	Faulty Offline 7 1,695
	吊 7
Plant Operation State: Of Capacity: 200.00 kW Production Today:KW Active Power: 0.00 kW	Offline h
<ul> <li>test</li> <li>Plant Operation State: Of Capacity: 100.00kW</li> </ul>	Offline
Please select create a existing	new plant or add to a plant:
Add to ne	ew plant
Add to exis	sted plant
Can	cel
12	

- EnOS
- 4. You will be directed New Plant page to add in the devices to the new plant. Here are the steps:



### Step 1: Add device.

- 1. Devices under a group of networking will be automatically connected, this process probably take a while.
- 2. Check the devices you have added in. When status of all devices is "Connected", this step is finished.
- 3. If not all devices are displayed on the page, you could press **[ReDetect]** to refresh the device list. A pop-up window will appear, showing that the system is redetecting the device. You could press [OK] or wait on the page as the process could take a while. Then the newly detected device list will appear.
- 4. Press [Next].

### Step 2: Basic info.

- 1. Fill in the basic information of the new plant:
  - Country/Region: If you allow App access your location, App will automatically recognize corresponding Country/Region, Province and City

and then you also could change manually. If you do not allow, you need select the respective country, province, and city. Please ensure Country/Region, Province and City are filled in.

- **Plant type**: select the corresponding plant type, default is Residential.
- Service provider: select a company that this plant belongs to and to add this new plant.
- Plant name: enter a plant name.
- Total string capacity (kWp): enter the total string capacity of the plant.
- Grid connection date: select a grid connection date, default date is today.
- Address: enter the address of this plant.
- **Use DST**: if this site's region in using Daylight Saving Time(DST), select "Yes", otherwise it should be "No".
- Plant time zone: App could automatically recognize time zone according to Country/Region and you also could manually select a time zone for the this site.
- Installer Contact (optional): enter the installer name.
- Installer Contact Information (optional): enter the installer contact information.
- NMI: enter the NMI\*.
   \*NMI is an eleven-character identifier assigned by Local Network Service Providers.
- Network Provider (optional): select the network provider, for Australia, you can find the network provider from the area group.
- Plant picture(optional): Upload a plant picture by pressing the + button.
- 2. Press [Next].

### Step 3: Set price.

- 1. Feed-in tariff: adjust the Date period and time if necessary and fill in the corresponding price.
- 2. Purchase price: adjust the Date period and time if necessary and fill in the corresponding price.
- 3. Press [Next].

Note:

- There should be no overlap between the date segments, and it should cover the whole year from January 1st to December 31st.For each date segment, all time segments cannot overlap and must cover 00:00 to 24:00 of a day.
- This step could be skipped, and it support to configure in plant detailed page later, but if Electricity Price not been configured, Revenue will not be calculated.

### Step 4: Layout.

1. If the plant is not equipped with an optimizer, you can press **[Submit]** to create the plant without setting the Layout.

# EnOS



After completing the four steps above, a message is displayed indicating that the plant is created successfully.

11:23		.ıl 🕈 🔟
<	New Plan	t +
Add device	Basic info. Se	et price Layout
🔒 Edit pl	nysical layout	>
	Plant creation suc	cessful.
Cancel	Previous	Save

5. You will have this plant permission and conduct Management and Monitoring.

### 1.4.2 Power Plant Management

Residential Plant Management page provides a list of connected plant under the user's authority. The user can create, edit, and delete plant.

Each plant card on the Plant Management page provides information such as name, address, capacity, contact, and commissioning Date.

To go to page, press [Management] and switch to the [Plants] tab.

# EnOS

11:23			4G 76
Plants	2 Device	s User	s
Q Plant name	e		R
🖤 Demo	1		
◎ 1 HarbourFro	nt Ave, Keppel Ba	y Tower, Singapo	
Capacity: 10.00	kW		
Commissioning	Date: 2024-01-18		
Demo     Demo     Demo     Capacity: 200.0     Contact:	site02 nt Ave, Keppel Bay lokW	Tower, Singapo	
Commissioning	Date: 2024-01-18		
© 291b Sengka Capacity: 15.00	ng E Ave, Singapo kW	re 540270	
Contact:			
Commissioning	Date: 2023-12-01		
		1	
	ini i		
1.000	Alama	Parallel 10	140

## 1.4.2.1 Device Adding

Make sure you have connected the device through the Commissioning App. Please refer to the section <u>Set up on Commissioning App</u> for more information.

If you want to add the devices to **a new plant**, follow the instructions described in the section <u>Set up on Univers EMS</u>.

If you want to add the devices to **an existing plant**, follow the either of the two methods described below:

### Method 1:

1. Go to [Plant Management] page and press the plant that you want to add device.

# EnOS

11:23		<b>11</b> 4	G 76
Plant	2 Devices	Users	
Q Plant nar	ne		R
🚍 Demo	001		
⊙ 1 HarbourF	ront Ave, Keppel Bay 1	ower, Singapo	
Capacity: 10.0	lokw		
Commissionir	g Date: 2024-01-18		
Demo	o site02		
◎ 1 HarbourFi	ont Ave, Keppel Bay To	wer, Singapo	
Capacity: 200	.00kW		
Contact:			
Commissionir	g Date: 2024-01-18		
🚛 Demo	o Site		
© 291b Seng	kang E Ave, Singapore	540270	
Capacity: 15.0	lūkW		
Contact:			
Commissionir	g Date: 2023-12-01		
	(		
	ini –	<b>B</b>	•
Home	Alarm	nagement	1.50

- 2. Press the [Device] tab.
- 3. Press [ReDetect] button to add the new device to the plant.

<	demo s	site		•
Basic Informa	tion Devices	Prices	Layout	Us
SN: ab2	8d8b50b4a			
Device ty Model N SN: a6ft	ogger–1 /pe: Smart Logg ame: Smart_Log 590ec2fd8	er ger2023080	Offline	9
Device type Model Name SN: 621b19	<b>ile–1</b> Dongle a: Dongle202402 p1bada	22	Offline	
Device type SN: 73db3f Model Name 5 Optimizer(	ter-1 Residential Inve 98650c a: Res_Inverter2( s) >	rter )240222	Offline	
Batte Device type SN: 077a72	ery-1 Residential Sto 9220d7 was not found?	rage	Offline	

4. A pop-up window will appear and showing that the system is detecting the device. You can press **[OK]** to close the pop-up window. Or you could wait on this page.

# EnOS



- 5. Once the new device is detected, it will appear in the device list.
  - < demo site ... Basic Information Devices Prices Layout Us Songle-998 Online ... Device type: Dongle Model Name: Dongle20240201 SN: 1eff6845948f Inverter-998 Operating ... Device type: Residential Inverter SN: e44f10bdf41f Model Name: Res\_Inverter20240201 Battery-998 Operating … Device type: Residential Storage SN: 149c79481ef3 Meter-998 Online ... Device type: Residential Electricity Meter Model Name: WEG-MMW03-M22CH SN: a956cab32b75 Songle-1 Offline ···· Device type: Dongle Model Name: Dongle20230809 SN: 3dd907645efc

#### Method 2:

1. Go to [Home] page and press the [Plant Guide] button.

# EnOS

10:03	,ıll 4G <b>72</b> )
Plants	Statistics
里 Plant Guide	은 Add Users
All Normal 2	Fault Offline 0
	品 7
) 🚎 Demo01	Offline
Plant Operation State: Capacity: 10.00kW Production Today: Active Power:kW	Offline kWh
Plant Operation State: Capacity: 200.00 kW Production Today: 7.0 Active Power: 0.73 kW	Normal Normal J1 kWh
Plant Operation State: Capacity: 15.00kW Production Today: 11.	Normal Normal
Home Alarm	Management Me



- 2. Connect the device through pressing [Scan the QR code of the device] or pressing [Enter the SN number of the device].
  - a. **Please Note:** scan the QR code or enter SN of parent device, such as, add a meter under a existed site, please operate as following:
    - i. For the Connectivity Scenario with Dongle, you could scan the QR or enter SN of Dongle device, or scan the QR or enter SN of Inverter device.
    - ii. For the Connectivity Scenario without Dongle, you could scan the QR or enter SN of Inverter device.

14:53	al 🕈 🔟
Plants	Statistics
俚 Plant Guide	은 Add Users
All Normal 1,707 6	Faulty Offline 7 1,694
	品 (7)
Plant Operation State: Of Capacity: 200.00 kW Production Today: kWi Active Power: 0.00 kW	Offline
Plant Operation State: Of Capacity: 100.00kW Production Today:kW Please select a device	Offline fline connection method:
Scan the QR cod	le of the device
Enter the SN o	of the device
Can	cel



3. After you have scanned the QR code or entered the SN of the parent device, new device will be auto detected, press **[Add to existed plant]** to add the device.



4. You will be directed to the Related Plant page where you need to choose a desired plant to add this device by pressing the **[Related Plant].** 





5. Select a plant and press [OK].



6. Press **[Submit]** to complete adding the device.





7. You will be directed to the Devices tab under the plant you have chosen, where you can see that the new device have been added to the desired plant.



8. If not all devices are displayed, press [ReDetect] button to refresh the device list.





## 1.4.2.2 Plant Editing

1. Choose a desired plant that you want to edit from the Plants tab on the Management page.



- 2. Press on the plant and you will be directed to the details page of the chosen plant.
- 3. Press on the [Edit] button under Basic Information tab if you want to edit the basic information of the plant.



<	Rebe	ecca_pla	nt1110	
Basic Informa	tion	Devices	Prices	Layout
	A			
Country/Regi	on *			
China/Shangl	nai/Sha	anghai Mu	nicipality	
Plant type *				
Residential				
Plant name *				
Rebecca_plar	nt1110			
Total string c	apacity	(kWp) *		
509				
Grid connecti	on date	e *		
2023-06-07				
Address *				
China Shang	Hai Sh	i Huana (	Pu Qu 223	2222 (

- 4. Edit the relevant information:
  - **Country/Region**: If you allow App access your location, App will automatically recognize corresponding Country/Region, Province, and City and then you also could change manually. If you do not allow, you need select the respective country, province, and city.
  - **Plant type**: select the corresponding plant type.
  - Service provider: select a company that this plant belongs to and to add this new plant.
  - **Plant name**: enter a plant name.
  - Total string capacity (kWp): enter the total string capacity of the plant.
  - Grid connection date: select a grid connection date, default date is today.
  - Address: enter the address of this plant.
  - Use DST: select whether you want to use DST.
  - **Plant time zone**: App could automatically recognize time zone according to **Country/Region** and you also could manually select a time zone for the plant.
  - Installer Contact (optional): enter the installer name.
  - Installer Contact Information (optional): enter the installer contact information.
  - NMI: enter the NMI\*.
     \*NMI is an eleven-character identifier assigned by Local Network Service Providers.
  - Network Provider (optional): select the network provider, for Australia, you can find the network provider from the area group.
  - Plant picture(optional): Upload a plant picture by pressing the + button.



5. Press [Save].

11:06			.ıl 🕈 💷
K Reb	ecca_plar	nt1110	
Basic Information	Devices	Prices	Layout
Country/Region *			
China/Shanghai/	Shanghai	Municipa	> ality
Plant type *			
Residential			
Plant name *			
Rebecca_plant1110			
Total string capaci 509	ty(kWp) *		
Grid connection da	te *		
2023-06-07			×
Address *			
China, Shang Ha	i Shi, Huar	ng Pu Qu	, ⊙
Cancel		Save	
_		_	

6. You can edit the Prices as well by pressing **[Edit]** button under the Prices tab.

11	:10				.ıl 🗢 😡
<		Reb	ecca_pla	nt1110	
Basic	Informat	tion	Devices	Prices	Layout
	Feed-in t	tariff		Purchas	e price
Date	e period	01–	-01 – 12-	-31	
	Time	00:	00 - 24	1:00	
	Price		CNY/kV	Vh	
			Edit		
		-		_	3

7. Edit relevant Feed-in tariff or Purchase price:



- Feed-in tariff: adjust the Date period and time if necessary and fill in the corresponding price.
- Purchase price: adjust the Date period and time if necessary and fill in the corresponding price.

Note: Feed in tariff and Purchase price will check the two electricity prices at the same time, and there should be no overlap. between the date segments, and it should cover the whole year from January 1st to December 31st. For each date segment, all time segments cannot overlap and must cover 00:00 to 24:00 of a day.

8. Press [Save].

	1:10					I ବ 9
<		Reb	ecca	_pla	nt1110	
Basi	c Informa	tion	Devi	ces	Prices	Layout
	Feed-in 1	tariff			Purchas	e price
Dat	e period	01-	01	-	12-31	0 0
	Time	00:0	00	-	24:00	0 0
	Price				CNY/kW	n

### 1.4.2.3 **Plant Deletion**

Pre-requisite: You only can delete a plant if there are no devices under this plant.

1. Choose a desired plant that you want to edit from the Plants tab on the Management page.



11:03	_	al 3	99
Plants	Devices	Users	•••
Q 1110	•	0	吊
Rebecc     China, Shang     Capacity: 509.00     Contact:     Commissioning I	<b>a_plant1110</b> Hai Shi, Huang Pu Qu, XKW	, ?????? ???	
Commissioning I	Date: 2023-06-07		
		-	
	<u>i</u>	2	

- 2. Press on the plant and you will be directed to the details page of the chosen plant.
- 3. Press on the [...] button on the top right-hand corner and press [Delete plant].

11:20 <b>&lt;</b>	ा। रू Rebecca_plant1110	99 
Basic Infor	mation 22es 👿 Delete plan	nt
Country/Re China/Sha	egion * nghai/Shanghai Municipality	
Plant type Residentia		
Plant name Rebecca_p	ə* əlant1110	
Total string	g capacity(kWp) *	
Grid conne 2023–06–1	ection date * 07	
Address * China, Sha	ng Hai Shi, Huang Pu Qu, ?????? Edit	0

4. Press **[Delete]** on the pop-up window to confirm the deletion.



11:19			비 수 89		
<	Rebecca_p	lant1110			
Basic Inform	mation Device	s Prices	Layout		
		þ			
Country/P	volon *		-		
China	Deleted device	cannot be			
Plant Resid	ecovered. Are want to d	covered. Are you sure you want to delete?			
Plant Rebec	Cancel	Delete			
Total string 509	Total string capacity(kWp) * 509				
Grid connection date * 2023-06-07					
Address * China, Shang Hai Shi, Huang Pu Qu, ??????					
Edit					

### 1.4.3 Device Management

Device Management page provides a list of connected devices under the user's permission. The user can edit, remote control, and parameter settings for the devices.

Each device card on the Device Management page provides information such as name, asset type, SN, model name, plant name, and the status of the device.

To go to page, press [Management] and switch to the [Devices] tab.



10:08		atl 4G 😰
Plan 2	Devices	Users
Q Device Name o	r SN	吊
S Dongle-1		Offline
Asset Type: Dong SN: 4adb15feda3( Model Name: Don Plant name: Demo	le ) gle20240118 001	
🍾 Dongle-1		Online
Asset Type: Dong SN: 164a5988797 Model Name: Don Plant name: Demo	le 7 gle20231127 o Site	
Songle-10		Online
Asset Type: Dong SN: 257d01f78c06 Model Name: Don Plant name: Demo	le 3 gle20240118 9 site02	
Inverter-1		Offline
Asset Type: Resid	ential Inverter 4	
Model Name: Res	inverter202401	
Home Ala	rm Manage	ament Me

## 1.4.3.1 Device Remote Controlling

- 1. Go to the [Management] page and switch to the [Devices] tab.
- 2. Choose a device that you wish to control remotely. You could perform a fuzzy search by device name and or a exact search by SN to look for the device.

10:15			.all 4G 78
Plants	Devic	es	Users ····
Q Device Name of	or SN		吊
Inverter-1			Offline
Asset Type: Hesk SN: 3dae40a520 Model Name: Res Plant name: Dem	dential Inv 44 s_Inverter2 o01	erter 20240118	
Inverter-1			Operating
Asset Type: Resid SN: 89cf01c9e1dd Model Name: Res Plant name: Dem	dential Inv c s_Inverter2 o Site	erter 20231127	
Inverter-1	0		Offline
Asset Type: Resid SN: c0a8de80d1a Model Name: Res Plant name: Dem	dential Inv a6 s_Inverter2 o site02	erter 20240118	
Meter-10			Online
Asset Type: Resid Model Name: ABI Plant name: Dem	dential Ele B-A44 o site02	ctricity M	əter
Home Ala	<b>a</b> rm	Management	Me



- 3. You will be directed to the device information page, press the [...] button on the top right-hand corner.
- 4. Press [Device control] button to control the device remotely.

10:16	<b>11</b> 4G <b>Z</b> E		
<	Inverter-1 🚺 🗔		
	2 🔒 Device control		
	{x} Parameter Settings		
	Delete device		
Device Name o Inverter-1	r SN*		
Asset Type Residential Inve	erter		
SN 89cf01c9e1dc			
Registration Co	de		
Model Name Res_Inverter20:	231127		
Version v1.0.20231127			
Plant name Demo Site			
	Edit		

5. You will be directed to the Device control page where you can select a mode for the desired device.



		ull 4G 78
<	Device con	trol
Device Na	me or SN	Inverter-
ŝN		89cf01c9e1dd
່ງ Device Please operati	Control be careful for remo ions.	ote control
Sta	rt up	Shut down
	Reset	

- 6. For **Inverter**, there are three control modes to the device:
  - a. [Start up]: Control the device to send the startup command.
  - b. [Shut down]: Control the device to send the shutdown command.
  - c.  $\circlet{[Reset]}$  : Control the device to send the reset command.



16:45		.ıl † 63
<	Device control	
Device name	9	Dongle-1
SN		d55c2d1af986
O Reset The devi executed	ce will be reset after the	e command is
	Reset	

- 6. For **Dongle**, there is only one control mode to the device:
  - a. [Reset]: Control the device to send the reset command.
- 7. Choose a mode by pressing the desired mode button.
- 8. Double confirm the action.





- 9. When the control command is sent to the device, the user can choose to:
  - a. wait on the current page or
  - b. leave temporarily and come back to the page later



10. If the user chooses to wait on the current page, the update might take a few minutes. After the control is sent, the pop-up window will show that the message: **Command Issued Successfully/Command Issued Unsuccessfully** as shown below.



17:49		비 중 89
<	Device co	ntrol
Device Nam	ne or SN	Inverter-998
SN		e44f10bdf41f
<ul> <li>ひ Device ( Please b operation)</li> </ul>	Control be careful for rer	note control
Start	up	Shut down
O R T e	Command Unsucces	Issued sfully nd is
	OK	
Device (	Control Log	1 >

11. If the user chooses to leave temporarily, the user can come back to the Device Control page later to check the Device Control Log for the status.

17:49	al 🗢 🖽	17:49	ul \$ 89
< Device	control	<	Device Control Log
Device Name or SN SN V Device Control Please be careful for operations. Start up C Reset The device will be rese	Inverter-998 e44f10bdf41f remote control Shut down et after the command is	<ul> <li>S</li> <li>C</li> <li>R</li> <li>C</li> <li>S</li> <li>C</li> </ul>	tart up 2024-02-06 17:49:40 ommand Issued Unsuccessfully eset 2024-02-06 17:47:48 ommand Issued Unsuccessfully tart up 2024-02-06 17:47:34 ommand Issued Unsuccessfully
Device Control Log	set >		


#### 1.4.3.2 Device Parameter Setting

- 1. Go to the [Management] page and switch to the [Devices] tab.
- 2. Choose a device that you need to set the parameter.

For **dongle**, you can modify the operation mode and working mode.

For **inverter**, you can modify the power parameters, operation mode, characteristic parameters, and other parameter settings.

For **battery**, you can modify the charge and discharge mode, charge and discharge power and other parameter settings.

For **meter**, you can modify the meter direction.



3. You will be directed to the device information page, press the [...] button on the top right-hand corner and then press [Parameter setting] button.



10:16	<b>. 11</b> 4G 🌌
<	Inverter–1 1
	E Device control
	2 {x} Parameter Settings
	Delete device
Device Name	or SN *
Inverter-1	
Asset Type	
Residential Inv	erter
SN	
89cf01c9e1dc	
Registration C	ode
10000	
Model Name	
Res_Inverter20	0231127
Version	
v1.0.20231127	
Plant name	

4. You will be directed to the Parameter Setting page where you can update the parameters of the selected device.

11:11		ull 4G 🌠
<	Parameter Setting	
Grid Para	ameters	
Grid Code	• ⑦	
Select		>
Protectio	on Parameters	
Feature_	Parameters	
AFCI		
Select		>
Off-grid N	Node	
Select		>
Power A	djustment	
Remote P	ower Schedule	
Select		>
Active pov	ver percentage derating	
22		%

5. Please set the parameter value according to the threshold range and prompt description of the parameter as shown in the example below.

# EnOS

10:35		.al 🗢 🖽
<	Parameter Setting	
Select		>
Off-grid	Mode	
Select		>
Power A	Adjustment	
Remote P	Power Schedule	
Select		>
Active po	ower percentage derating	
		%
Reference	value: [-100.0, 100.0]	
Max. acti	ive power	
		kW
Reference	value:	
Active F	Power Control	
Active Po	ower Control Mode	
Select		>
	Issued	

6. Update the preferred parameters and press [Issue].

11:12		ull 4G 7
<	Parameter Setting	
Grid Para	ameters	
Grid Code	0	
Select		>
Protectio	on Parameters	
Feature_	Parameters	
AFCI		
Select		>
Off-grid N	Node	
Enable	3	>
On-grid/0	Off-grid switch mode	
Select		>
Backup po	ower SOC	
		%
Reference va	alue: [0.0~100.0]	
	lssue	

7. Double confirm the update by pressing the Confirm button.

16:51			
<	Parame	ter Setting	
Grid Pa	arameters		
Grid Co	de 🤊		
AUSTR	ALIA-AS4777_	A-LV230	>
Grid ( Limit 253 Referes Prote Level- 300 Referes	After the part are app commands with the device. with caution correct. Aft parameters Code are device may ensure that correct. D confirm t	rameter settings lied, control will be issued to Please operate n to ensure that meter values are er some device such as the Grid modified, the be reset. Please the settings are o you want to he issuance?	③ ∨ ∨
258	Cancel	Confirm	V
Reference	value: [230,345]		
Feature	e_Parameters		
AFCI			
	Co	mplete	
	_		

- 8. When the parameter is updating, the user can choose to:
  - a. wait on the current page or
  - b. leave temporarily and come back later to check the parameter.





9. If the user chooses to wait on the current page, the update will take a few minutes. After the parameter is updated, the pop-up window will show that the message: **Command issue completed** as shown below.

16:52		<b>?</b> ₿
<	Parameter Setting	
Grid Para	ameters	
Grid Code	0	
AUSTRAL	_IA-AS4777_A-LV230	>
Grid Conn Limit	ection and Startup Voltage Upper	0
253		V
Reference	ana 1000 910 81	
Prote	Command issuse completed.	
Level		-
300	ОК	V
Reference va	alue: [230,345]	
10 Minute	OV Protection (?)	
258		V
Reference va	alue: [230,345]	
Feature_	Parameters	
AFCI		
	Complete	

10. If the user chooses to leave temporarily, the user can come back to the parameter setting page later after 5mins, if parameter was set successfully, the parameter value will be updated.

### 1.4.3.3 **Device Editing**

- 1. Go to the [Management] page and switch to the [Devices] tab.
- 2. Choose a device that you wish to delete.

# EnOS



3. You will be directed to the device information page, press the **[Edit]** button on the bottom of the page.

16:03		
<	Inverter-1	•••
	~	
Device Name Inverter–1	or SN.*	
Asset Type Residential In	verter	
SN 89cf01c9e1dc		
Registration (	Code	
Model Name Res_Inverter2	0231127	
Version v1.0.20231127		
Plant name Demo Site		
	Edit	

4. Change the name of the device and press [Save].

16:03		al 🕈 🌆
<	Inverter-1	
Device Name Inverter-1	or SN*	
Asset Type		
Residential Ir	werter	
SN		
89cf01c9e1de	>	
Registration	Code	
Model Name		
Res_Inverter2	20231127	
Version		
v1.0.2023112	7	
Plant name		
Demo Site	2	
Denio Olte		

5. The edited information will be saved.

### 1.4.3.4 **Device Deletion**

- 1. Go to the **[Management]** page and switch to the **[Devices]** tab.
- 2. Choose a device that you wish to delete.

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3. You will be directed to the device information page, press the [...] button on the top right hand corner and then press [Delete device] button.

10:16	11 4G
<	Inverter-1
	Device control
	{x} Parameter Settings
2	Delete device
Device Name or	SN*
nverter-1	
Asset Type	
Residential Inve	rter
SN	
39cf01c9e1dc	
Registration Co	de
Model Name	
Res_Inverter202	231127
Version	
/1.0.20231127	
Plant name	
Demo Site	

4. Press [Delete] on the pop-up window to confirm the deletion.



11:17		II 4G 🔽
<	Inverter-1	•••
Device I	Name or SN *	
Inverter	-1	
Asset T	уре	
Resid		
	Deleted device cannot l	be
SN	recovered. Are you sure	you
8961	want to delete?	
Reais		_
	Cancel Dele	te
Model N	Name	
Res_Inv	erter20231127	
Version		
v1.0.202	231127	
Plant na	ame	
Demo S	lite	
	Edit	-

### 1.5 Residential Plant & Device Monitoring

#### 1.5.1 Plant Monitoring

Plant Monitoring module provides an overview of plant information under the user's authority. The user can view basic information, statistics, devices of the plants.

After the connection is completed, please wait for 5-10 minutes to see the real-time data displayed in Monitoring. The real-time data will be collected from the device to the cloud at the collection frequency of 5 minutes.

#### 1.5.1.1 Single Plant Monitoring

1. On **[Home]** page under **[Plants]** tab, view the list of plants under the user's permission.

Plants	Statistics
Plant Guide	2. Add Users
All Normal	
3 2	Fault Offline 1
Q Plant name	用 7
Demo01	Offline
Plant Operation State: O Capacity: 10.00kW Production Today:kW Active Power:kW	ffline /h
🚎 Demo site02	Normal
Plant Operation State: N Capacity: 200.00kW Production Today: 9.87k Active Power: 0.00kW	ormal Wh
- Demo Site	Normal
Plant Operation State: N Capacity: 15.00kW Production Today: 29.16	ormal

- 2. Enter the plant details page.
- 3. **[Overview]** tab: view the basic information of the plant and the display of the energy flow diagram.
  - 1) Display the photos of the plant, real-time operation status, the address of the plant, real-time weather data.
  - 2) Displays the core indicator data of daily production, daily revenue, daily, monthly, annual and life cycle production of the plant.
  - 3) Energy Flow Diagram:
    - i. show the real-time energy flow diagram of the plant.
    - ii. energy flow direction
    - iii. real-time operating power: PV production power, storage charge and discharge power, house load power, on-grid, and off-grid power.
    - iv. display the real-time status of the inverter, storage (if any), green colour represents Operating, yellow represents Standby, red represents Fault.
- You could dropdown to refresh page and displayed data.

< Envision Digital Sola	ar Site
A No connection over 20 minutes	>
Overview Statistics Layout	Devices
Normal Envision Digital Solar Site No. 768, Zhongshan South 1st Roa South 1st Road C Overcast Sky 12°C-19°C	
99 kWh Yield today Re	44.5 \$ evenue today
Yield this month         Yield this year           1.24 MWp         6120.0 kWh	Total yield 0.86 MWp
Energy flow diagram	Q.187 .wr Grid

- 4. [Statistics] tab: view the statistics data and chart display under the plant:
  - 1) The Metrics of total daily consumption and self-consumption.
  - 2) Under energy management, you can view the Production and Consumption data under the day dimension, as well as the Site PV Active Power, Consumption Power, Self-consumption Power, Charge Power, Discharge Power and SOC in the graph display. For month, year and lifetime dimension, you will able to view the Production and Consumption data, as well as the graph of Production, Consumption, Self-consumption, Charge and Discharge. You can move your two fingers to expand or shrink the size of the graph.

Graph Data	Description
Site PV Active Power	The amount of electrical power being actively generated by a photovoltaic (PV) system installed at the site.
Consumption Power	The amount of electrical power consumed by the site.

Self-consumption Power	The portion of the electricity generated by a renewable energy system, such as solar panels, that is consumed on-site rather than being exported to the grid.
Charge Power	The rate at which energy is supplied to a battery or energy storage system during the charging process.
Discharge Power	The rate at which energy is released or drawn from a battery or energy storage system during the discharging process.
SOC	"SOC" stands for State of Charge. The current level of charge stored within the battery, expressed as a percentage of the total capacity

- 3) Revenue of the plant is displayed in bar charts which can be viewed in the dimension of day, month, year or life period.
- 4) Environmental benefit metrics in lifetime: standard coal saved, CO2 Emissions Avoidance and Equivalent tree planted are displayed.

< Env	ision Digital Sol	ar Site
A No connection	over 20 minutes	>
Overview Sta	tistics Layout	Devices
99 kWh Consuption to	day Self-	44.5 kWh consumption energy
Energy Manag	ement	
Day	Month Yea	ar Lifetime
<	2022-12-26	>
Production		15.27 kWh
Self-consumptio	n To Grid <b>79%) 4.46 kW</b>	'h (29.21%)
Consumption		10.14 kWh
Self-sufficiency 9.93 kWh (97.9	From Gri 93%) 0.21 kW	d h (2.07%)
kW		×⊼ ⊮≌ %
400	MA	80
300		60
200		40
100		20
0	Linh	0
-0- Site PV	0 08:00 12:00 1	6:00 20:00 sumption Power
Self-cor	nsumption Power	Charge Power
Dischar	ge Power - SUC	
Revenue		20
Day	Month Yea	ar Lifetime
<	2022-12-28	>
s 20		
15		
10		Contraction of the second
5		
0 1 3 5 7	7 9 11 13 15 1	7 19 21 23
	Revenue	
Environmenta	l benefits	
	<u>^</u>	(An
586.7 ++	328 4 kt	718
Standard coal saved	CO2 Avoided	Equivalent planted
Home	Aco	Ma
00000		

- 5. [Device] tab: view all the devices connected to the plant.
  - 1) Showing all the device cards with the name, SN, type and operating status.
  - 2) Clicking on the specific device card, It will the basic information, real-time information and historical information of the specific device

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### 1.5.1.2 Cross Plant Monitoring

Cross Plant Monitoring display the statistical results of data from all authorized plants under the user.

- 1. On **[Home]** page under **[Statistics]** tab, view cross plant statistics data.
- 2. The total active power and production BOL data of all the plants under the user's authority is calculated. Yield statistics are graphically displayed according to the dimensions of day, month, year, and life cycle. Active power graph is displayed under the day dimension, while production graph is displayed under the month, year and lifetime dimension. Plants are ranked according to the utilization hours. And the total environmental benefits are displayed.

# EnOS



#### 1.5.2 Device Monitoring

Device Monitoring module is designed for the user to monitor the devices under his/her authority. The user is able to view basic information, real-time information and history data of the selected device.

- 1. To visit the module, go to **[Home]** page **[Plants]** tab, choose and press on a plant to enter the plant details.
- 2. Switch to [Devices] tab to view the list of devices.

#### 1.5.2.1 **Device List**

A list of devices under the selected plant is displayed. Device basic information is shown on each device card. You can also filter the devices according to the device type as shown below:



4:16	5		:: <b>!!</b> 4G 🗩
<	De	mo site02	
A High St	ring Input Volta	age	>
Overvi	ew	Statistics	Devices
All (4)	Inverter (1)	Battery (1)	Electricity Mete
Asset TY SN: 25	<b>ongle-1000</b> /pe: Dongle 7d01f78c06		Online
Asset Type: Inverter SN: c0a8de80d1a6 Active Power: 0.000 kW Production Today: 35.26 kWh			Operating
Meter-10 Asset Type: Electricity Meter Active Power: -2.01kW		Online	
Asset Ty SOC: 2 Daily Ch Daily Dis	attery-10 ype: Battery 2.0 % larging Energy scharging Ene	: 10.77 kWh rgy: 10.44 kWh	Operating

### 1.5.2.2 **Device Details**

- 1. By pressing onto a device on the Device List, you will be directed to the Device Details page.
- 2. Basic Information Tab: displays the device name, asset type, SN, registration code, model name, version, and plant name.





3. History Information tab: you can view the history information of the device by selecting the signal type, signal point name and the date.

16	8:08	al 🗢 🕼
<	Inverter-	1
tion	Real-time information	History information
Sigr Volt	nal type tage(V)	>
Sigr R P	nal point name hase Voltage	>
Sele 202	ect Date 13-10-04	>
	No search re	sult

- 4. Real-time Data tab:
  - a) Inverter: real-time data such as DC input, AC output, active power, internal temperature, inverter efficiency, production (today) etc. are displayed

16:08		ull 🗢 🕼
<	Inverter-1	
formation	Real-time informatio	n History inform
DC Input		
PV1	String Voltage(V)	String Current(A)
AC Output		
	Power voltage (V)	Grid current (A)
А		
в	1.77.77	1000
С	1.000	1777
Active Pow	/er	kW
Internal Te	mperature	°C
DC Input P	ower	kW
Inverter Ef	ficiency	
Production	(Today)	—k₩h
Reactive P	ower	kVar
Power Fac	tor	
		4) 7



b) Battery: real-time information such as working mode, bus voltage, SOC, daily charging/discharging energy, active power is displayed. You can press the [Energy Storage Unit] to view the real-time information of the storage unit and battery pack.



c) Meter: real-time information such as active power, active energy exported/imported is displayed.



11:33		ul 🗟 🔞
<	Meter-10	
information	Real-time information	History infor
Active Powe	ər	0.93 kW
Meter Read Total	Active Energy Exported-	4933.31
Meter Read Total	Active Energy Imported-	5618.50

d) Dongle: real-time data of the dongle state is displayed.

11:34		
<	Dongle-10	•••
Basic information	n Real-ti	me information
Dongle State		Online
-		-

### 1.6 Alarm Management

#### 1.6.1 Alarm List

On the **[Alarm]** tab, it displays all the active alarms. The fault information of all devices under the managed plant are summarized. The alarm is divided into four levels: Fault, Warning, Info and Collapse. The fault level is marked in red; the alarm severity is marked in yellow, the grey sign is used for info, and the brown sign is used for collapse.

On each alarm card, it will display the alarm, device name, plant name, alarm type and the time of occurence of the alarm.

Users can search the alarm by the alarm description or code, and filter the alarm according to the alarm type, device type, time range and/or the status (Acked or not) of the alarm.

6:49		::	<b>4</b> G 🗊	12:12	<b>::!!</b> 4G 🔳
All Fau	Alarm	Info	Colle		Alarm Type
9762 87	4745	61	4869		Selfdefinetype
Q Alarm descr	iption or code		吊 7	Q Alarm	(201) Monitor Alarm
A Battery at Inverter: Invert Plant Name: Re	onormal ter(NS238G0193 ockingham Test	340#1) Bench			(200) Power Alarm
Time of occurre	ence: 2024-11-	18 14:52:55			Device Type
🔺 Abnormal	PV module c	onfiguratio	n		Inverter
Inverter: Invert Plant Name: Sr Time of occurre	ter-3 mart LoggerTes ence: 2024-11-	t Bench 42 14 20:09:54			Battery
					Water Heater
Active Adj Inverter: Invert Plant Name: Sr Time of occurre	justment Instr ter-2 mart Logger;Tes ance: 2024-11-	t Bench 4–2 14 20:09:51	normal		Time Range StartTime
A Battery at	normal				StartTime
Inverter: Invert	tor-2				EndTime
Plant Name: Detery)	ongel-NS2B513	0492 (inv+r	neter+bat		EndTime
Home	Alarm M	14.07-20-08	<u>e</u> 140	Home	Reset Complete
ý					

### 1.6.2 Alarm Detail

Users can click each alarm to see the alarm details. Alarm code, time of occurrence, site name, device type and device name will be displayed on the alarm detail page.

On Alarm detail page, users can accept the alarm by clicking "Accept", then the alarm will be marked as "Acked" on the alarm list. Users also can clear the alarm by clicking "Clear", then the alarm will be deleted from the alarm list.

# EnOS



### 1.7 Account & System Management

Account & System module allows the user to configure system settings as well as account settings. They can be managed through the Me page as shown below:



14:33			.11 4G 🚱
	I	Vle	
<b>h</b> 18	ossain.a 32172578510	dmin @139.com	
Corpora	ite Informat	ion	>
🔓 Compar	ny Managen	nent	>
. WIFI Set	tings		>
About			>
Settings			>
Home	Alarm	Management	Me

### 1.7.1 Password Changing

1. On [Me] page, press [Settings].

14:33			.11 4G 🚱
	1	Иe	
h 18	ossain.a 32172578510	dmin ®139.com	
Corpora	te Informat	on	>
🔓 Compar	ny Managen	ient	>
. WIFI Set	tings		>
About			>
Settings	8		>
	2		2
Home	Alarm	Management	Me

2. Press [Change Password].

12:00	Settings	.ıl ବି 🕮
Change passwo	ord	>
Language		English >
	Log out	
	9	

- 3. You will be directed to Change Password page.
- 4. Enter your old password.
- 5. Enter and confirm your new password.
- 6. Press **[Apply]** to change the password.





### 1.7.2 Language Switching

1. On Me page, press [Settings].

14:33			.11 4G 🚱
	I	Vle	
<b>e</b> h	ossain.a 2172578510	d <b>min</b> @139.com	
Corpora	te Informat	ion	>
🔓 Compan	y Managen	nent	>
. WIFI Sett	ings		>
About			>
Settings	8		>
Home	Alarm	Management	Me

2. Press [Language].

12:00 <	Settings	.ıl 🗟 94
•	eettiinge	
Change password		>
Language		English >
	Log out	

- 3. Swipe to choose a desired language. Univers EMS supports English and Chinese languages currently.
- 4. Press [OK] to confirm the switching of language.

12:03		al '	<b>२ 94</b>
<	Settings		
Change password			>
Language		Engli	sh >
	Log out		
Cancel			OK
	Faaliah		
	English 简体中文		
-		-	



### 1.7.3 System Information

1. Go to [Me] page and press [About].



2. Version number is shown on the first line on the About page.



12:09		.ıl ≎ 03
<	About	
Version number		1.1.1
App download (	QR code	>
User agreement		>
Privacy policy		>
Contact us		>

4. Press **[User Agreement]** and you will be directed to the User Agreement page.

12:09		al 🗢 😡	12:11	ul 🗢 🖽
<	About		<	User agreement
Version numb	er	1.1.1	User	Agreement
App download	d QR code	>		3
User agreeme	ent	>	This Use acceptance	er Agreement is effective upon e for new users, and from 20-09-2023
Privacy policy	r	>	for existing	j users.
Contact us		>	UNIVERS ("UNIVERS LICENSEE INDIVIDU/ ENTITY TH LICENSEE AUTHORIS TO YOU (" UNIVERSI THROUGH SECTION "YOU" OR CONDITIO TERMS OI AGREEME	PTE. LTD. AND/OR ITS AFFILIATES S") IS WILLING TO LICENSE THE D SOFTWARE TO YOU AS THE AL, THE COMPANY, OR THE LEGAL HAT WILL BE UTILIZING THE D SOFTWARE VIA THE SED LOGIN ACCOUNT PROVIDED 'USER ACCOUNT') BY EITHER DIRECTLY OR INDIRECTLY H YOUR OU ADMINISTRATOR (SEE 2.7) (REFERENCED BELOW AS "YOUR') ONLY ON THE DN THAT YOU ACCEPT ALL OF THE F THIS USER AGREEMENT ("USER ENT").
			Read the to Agreement Software. T contract be accepting t	erms and conditions of this User t carefully before using the Licensed This is a legal and enforceable etween You and UNIVERS. By this Agreement, either by indicating

5. Press [Privacy Policy] and you will be directed to the Privacy Policy page.

# EnOS



### 2 Web Application – Installer Admin & Installer

Web Portal Application is for Entelar System Admin, Installer Admin and Installer Users to monitor, control and management residential sites and devices under their permission, and for End Users to monitor their own site and devices.

### 2.1 Login

**Pre-requisite:** You are a Installer Admin/Installer user. Web Portal Login account is the same with Mobile Application account.

Univers EMS Web portal: app.entelarenergy-emsportal.com

Univers EMS Web portal provides a login access page when you first opened the application. To log in to Univers EMS, enter your credentials (**username** or **email address**, **password**) and check the **box** to consent the User Agreement and Privacy Policy.

	vers	
Login	English	<b>، ~</b>
Crystal.zhou		
	ø	ø
	⑦ Forgot Passwor	ord
I have read and agr ent and Privacy Pol	eed to the <u>User Agreem</u> licy	<u>m</u>
Lo	ogin	

If you forget the login password, click the **[Forget password]** button to retrieve the password.

After logging, you will be directed to the Fleet Map page under the Central Monitor of Univers EMS where you can monitor your plants.



### 2.2 Home Page

On Home Page, it displays an asset tree navigation bar with information on specific company/site/device. Default displays the cross-site statistics of the root node company.

1. User can search company/site/device on the asset tree.

## EnOS

				۵ ۵	hossain.admin +		
Univers EMS	O, Asset	Statistics Overview		Current Plant Ranking (Equivalent	Yield)		
Home Page	B Wholesale Plumber	durthaw Brease	Production 8/01				
	• B 1429	11.40 mm	92.07 TWh	and rais rais to add to	17.70 %		
	<ul> <li>         ・         ・         ・</li></ul>			DemoSite1023	13.92 h		
	• Bb mm	Yield Statistics	Month Year Lifetime	No.3 Test Plant 01	5.19 h		
	BilliziAdmin001	Month 2024-11		NSA yangjiasi	5.14 h		
Device Management	<ul> <li>              Bit hoanhoandBit(公司01          </li> <li>             Bit #SWERP(2)         </li> </ul>	N7W6 150		No.5 Hhtestaile003	3.04 h		
	Babacca_second22	120		No.6 Mike' s Demo Site	4 00.5		
	B Rebeccaltest 021		Plant00 Hyde Park Nort	1.57 h			
	<ul> <li>         ・         ・         ・</li></ul>	0 11-01 11-03 11-05 11-07 11-09	0 11-01 11-05 11-05 11-07 11-09 11-11 11-13 11-15 11-17 11-19 11-21 11-23 11-25 11-27 11-28				
	<ul> <li>         ·</li></ul>		Production	(N6.9) et/c204232003	0.64 h		
	thy Company			「No.10」 第5式12001-身设数	0.35 h		
	B 0000019demoED(To     B 062002     B oemAdmin_creste	Emironmental Benefits					
	Ba android EVEEDIT     Ba 0704_regression02     Ba Fitce1882/Fi02	<ul> <li>Litetime Seandard Coal Seved</li> <li>36,737.83 M</li> </ul>	CD: Litetime Reduction 43,735.51 kt	Elletime Equivalent Trees Planted \$0 59,747,311.26			
	• 图 YUH版本测试-Test						
	the final+2485968     ■ final+004						

2. Users can view the cross-site statistics by selecting the company on the asset tree.

≡ EnOS			🖾 🗘 hossan admin 🛩
Univers EMS > Q, Asset	E Statistics Overview		Current Plant Ranking (Equivalent Yield)
Home Page     B Wholesale Plumb		A	8
로 Central Monitoring · · Bi 노력소리	5.63 MW	92.07 TWN	
B 作用水设施     B 作用水设施     B cc11	Midd Photolog		
LE KPI Statistics D Hossail	n demo site v	Words rear Listine	
B mm     B mm     B mstAdmin	101 MW		
Device Monitoring 🔹 🗈 transformedity	#公司01 70 80		
R CAM Management - B Grandbirg B	8 50 cond02 40		
Device Management     B ENITRO2	287 20	difficulture and the second second	
Company and User Mgt     B Refercates     B Removal	0 11-01 11-03 11-05 11-07 11	1-09 11-11 11-12 11-15 11-17 11-19 11-21 11-23 11-25 11-27 11-29	
Message Center      Message Center     Message Center		Production	
Hotp and Feedback -      B Rttamto     B     doCompany	ien K		
■ More      •      B 0000619den	IOEDITO Environmental Benefits		
About     A	Sette Litering Standard (and Societ	(O) Lifetime Reduction	Librima Envirolant Tours Directed
B android 등(3	EDIT 🖨 - Kg	Ci - sq	40
B 0704_regres     B = 20008000	skon02 102		
• B #####23	001		
Binstaller Con     Binstaller Con	ipany A Tant		
• Bt 1130622	new A		

3. Users can view the site details by selecting the site on the asset tree.

Univers EMS	Q. Asset	G Site Overview 🕒 Energy 5	tatistics					
Home Page	Bh Wholesale Plumber	~						
👳 Central Monitoring 🗠	• B 上海公司	Hossain demo sit	e offline				6	Layout
& Flett Map	<ul> <li>         ·</li></ul>	● Sunty 557F ◎ 中国上海市實施区SFXG	927 <b>million (17)</b> : 200023					
all KPI Statistics	• Ø Hossain demo site	Capacity 234.00 kW	Commissioning Date 2023-05-12 Contact -	- Contact inform	nation -			
Site Monitoring	inverter-1							
Device Monitoring	inverter 3	Production Today Reven — kWh	ue Today Production the 0.00 kWI	i month h	Production this year 0.00 kWh		Ulletime Production 0.00 kWh	
C6M Management	Finverter-0							
Device Management	inverter-2	Energy Flow Diagram	Devices Overview					
Company and User Mgt	inverter-1		0 Dongle-1	Offine	8 Dongle-1	Office	Dongle-1	.01
Message Center 🚽	inverter 2	Pr System	SN Model Name	b2e13e1d	SN Model Name	83f1f5d5	SN Model Name	9bc289f
Help and Feedback	II Battery-1	2.00 1.00						
More	Battery-1		inverter-1	Offine	Inverter-3	Offine	Inverter-3	0
	E Battery 3		SN	fecd0601	SN	83dfa57e	EN Adverter Street	1e3c285
ADDIL	E Ballery 3		费 Active Power	- KW	Active Power	- kW	Active Power	- kW
	E Estters?		Production Today	- kinh	Production Today	- kWh	Production Today	- kWh
	B Batters 1	Storage System	Grid					
	E Battery3		□ Inverter-3	Office	Inverter-2	Ottine	Inverter-2	2
	Battery 2	(A)	SN	e84fc7c0	SN	09647c90	5N	00da714
	• B m	-	Model Name Active Prover	- kW	Active Power	- kW	Active Power	- kw
	<ul> <li>En stratementon</li> </ul>	Loed	Production Today	- kitth	Production Today	- kWh	Production Today	- kwh

4. Users can view the device details by selecting the device under a specific site on the asset tree.

					🗐 🗘 tossan admin 🛩
Univers EMS	Q. Asset	Battery-3	Officia		
Home Page	B Wholesale Plumber	Hossein den	no site		
🖵 Central Monitoring 🗠	• B 142司	◎ 中国上型	台周期1055FX0+927 創設機長 200023		
💩 Field Map	<ul> <li>         ·</li></ul>	Asset Type 8	attery SN 7c19b3b8 Version v1.0.2	2230814	
all KPI Statistics	• Ø Hossain demo site	Real-time Info			
🖬 Site Monitoring	Finverter-1	Bus Voltage	- V	soc	-3
Device Monitoring	inverter-d	Daily Charging Energy	- kWh	Daily Discharging Energy	- kWh
R OMM Management	Inverter-3     Inverter-2	Active Power	- KW		
Device Management	🖼 inverter-2	History Info (			
Company and User Mgt	inverter-1	Signal Type: Energy Yield(kWh)	<ul> <li>Signal Point Name: Selected (2)</li> </ul>	∨ Time: 2024-11-28 🖂	
Message Center 🔍	🛱 inverter-2				
	II Battery-1				
	Battery-1			No data found	
D Atout	Battery3				
	∃ Battery-2				
	II Battery-2				
	II Battery-1				
	E Battery-3				
	∃ Battery 2				
	<ul> <li>B) Bisfladmin001</li> </ul>				
	<ul> <li>Bt humbuanBit(2001</li> </ul>				

### 2.3 Central Monitoring

### 2.3.1 Fleet Map

- 1. Click [Central Monitor] and then [Fleet Map] on the left menu.
- 2. Central Monitor provides a satellite world map, showing the geographical distribution and aggregated KPIs of household plants within the limits of user authority, and by scrolling up and down, the user can zoom in or out the map page.
- 3. Click the left mouse button to drag the map anywhere on the page.
- 4. Users can carry out centralized and hierarchical management according to the regional / company organizational structure and can view the KPI data of power plant distribution and aggregation under the company / regional node flexibly.
- 5. The column on the right shows the key metrics of all photovoltaic sites within the scope of user authority; the left shows the production, energy trend, consumption and EV station statistics of the selected level (integrated sites or single site).

# EnOS



#### 2.3.2 KPI Statistics

- 1. Click [Central Monitor] and then [KPI Statistics] on the left menu.
- 2. The KPI statistics page of cross-plants to carry out automatic aggregation statistics of production indicators for all plants within the scope of user select in Management Structure Tree in Top Left Corner. Default is all plants that user have permission.
- 3. The statistics overview is provided with the total active power and production BOL data of all plants within the scope of user select in Management Structure Tree in Top Left Corner. Production statistics are graphically displayed according to the dimensions of day, month, year, and lifetime. Plants are ranked according to the Yield. And the total environmental benefits are displayed.



### 2.4 Site Monitoring

### 2.4.1 Site Monitoring List

When first come to the Site Monitoring menu, it displays a list of all sites within the current user's authority, and core information such as real-time operation status, capacity, production, revenue, active power, and other core information of the plant.

The user can filter the sites according to the operating status, whether the site has battery configured, the total string capacity, battery capacity, followed or all plants, grid connection date and located area.

≡	EnOS									9	¢	hossain.admin	•
Uni	ivers EMS	>	Site: Select	~	Site Configur : All	~ S	Site Ope	eration Status: All	×		Q	uery Reset	~
Ħ	Central Monitor	~								Q. Searc	h		
<b>1</b>	Site Monitoring		Site Name		Site Operation	Capacity (kW)		Production Today	Reve	nue Today		Operation	
Ū	Device Monitoring		Demo Site		Status	15.00		(kWh)	0.00	s		Detail	
Ŕ	Alarm Managem	~	Yih		Offline	68.00		122	- 20			Detail	
Ŗ	System Manage…	~	Demo site02		Normal	200.00		35.49	4.52	¥		Detail	
Ŷ	Plant Management	~	Test123		Offline	10.00		10	-			Detail	
Ø			Demo01		Offline	10.00			i <del>nt</del> ii			Detail	
Ø	About		Total 5 Items									< 1	5
	©Powered by EnOS												

#### 2.4.2 Site Overview

On the Site List page, click **site name** of a site to go to the overview monitoring page of a single site. Default is on the site overview page and it displays:

- a. Photo of site, real-time operation status of site, address of site, real-time weather data, contact information.
- b. Statistics of the core indicators of production, revenue in daily, monthly, annual and lifetime dimensions.
- c. The energy flow diagram shows:
  - 1. the real-time energy flow diagram of the site.
  - 2. energy flow direction
  - 3. real-time operating power such as PV production power, inverter output power, storage charge and discharge power, load power, on-grid, and off-grid real-time data.
  - 4. display the real-time status of the inverter, storage (if any), green colour represents Operating, yellow represents Standby, red represents Fault.
- d. All the devices under the site are displayed according to the device type, with the operation status and core information of all the devices.

EnOS				🖾 🗘 hossain admin 🛩
Univers EMS	Site Overview () Energy Statistics			
Central Monitor  Kat Site Monitoring  Device Monitoring  Alarm Managem  System Manage	Demo01 office Burny 22°C O No Data Capacity – kW Commissioning Date – Confact –	Contact Information -		
Plant Management     OTA     About	Production Today Revenue Today 	Production this month 0.00 kWh	Production this year 0.00 kWh	Lifetime Production
♀ About	Energy Flow Diagram	Devices Overview           Dongle-100         Ontime         Inverter-1         C           SN         4abb 15fcda30         SN         Sdae40a52044           Model Name         Dengle20240118         Model Name         Pers_Inverter202x           Active Power         - kWh         Production Today         - kWh	Inverter-1         Office           SN         3dae40a52044           Model Name         Re_Unverte2024011           Active Power         e           Production Toy         - kor           Production Toy         - kor	Meter-1 Other Active Power – kW Total Active Deepy – kWh Total active Revery – kWh Consumption
@Powered by EnOG	Storage System	Battery-1         Other           SN         84541499399f           Model Name         Res_Storage2024011           0         0           SOC         -%           Oally Charging Energy         -Wh           Daily Discharging         -Wh		

### 2.4.3 Site KPI

On the site overview page, click the tap **[Energy Statistics]** on the top to go to the KPI statistics monitoring page and it displays:

- 1. The KPI: consumption and self-consumption statistics.
- 2. Production and consumption of the chosen plant by day, month, year, and lifetime dimension.
- 3. Energy Management graph showing the PV output and consumption graph according to day, month, year, and lifetime dimension.
- 4. Revenue bar chart by day, month, year, and lifetime dimension.
- 5. Environmental benefits such as standard coal saved, CO2 Emission Avoidance and equivalent tree planted are displayed.

ErOS					🖨 🗘 hossain admin 🛩
Univers EMS	[iii] Site Overview	O Energy Statistics.			
😨 Central Monitor 😐	Canal State Recharded				
12 Ste Monitoring	KPI	Production	Day Month Year 2024-10-30	Consumption	Day Month Year 2024-10-30
Device Montohing <u>Tr</u> Alarm Managem	Consumption Today 7.51 km Self-consumption Today 2.76 km	Production 7.32 wm Self-consumption 2.76 kWm To Grid 4.56 kWm	• Self-consu 37270 % • To Crid 4230 %	Consumption 7.51 km Self-sufficiency 2.76 km From Grid 4.75 km	• Self suffi_ 36.75 % • From Celd 63.25 %
enviewed to boog	Energy Management	15,25 15,35 15,45 15,55 16,05 1	A15 1625 1625 1625 1705 1725 1725 1725 1	745 1755 1805 1815 1825	Day Month Year Lifetime SOC

### 2.4.4 Site Details

On the site list page, click the **[Detail]** on the right of the site to go to the site details page, click different tab to see different information of the site:

- 1. Basic info: including basic information, system information, installer information and grid information of the site.
- 2. Devices under this site.
- 3. Prices: Purchase price and Feed-in Tariff.
- 4. User information: installer and end user information of the site.

Б	nOS				😐 🗘 hossain.admin 🔻
Univers	EMS	×	← Site List / Site Details		
모 Cent	tral Monitor	*)	Paolo Info Devices Drisse User Info		
📔 🖾 Site	Monitoring		Basic Into Devices Prices Oser Into		
🖵 Devi	ice Monitoring		Demo01		Delete Plant
📩 Alarr	m Managem	× 1			
🔑 Syste	tem Manage	¥)			
🔗 Plan	it Management	*)	Basic Info		
🛛 ота			Plant Name *	Country/Region *	Address *
🛛 Abou			Demo01	Australia/Australian Capital Territory/Booth	1 HarbourFront Ave, Keppel Bay Tower, Singapore 098632
			Detail Address	Post Code	Plant Time Zone *
			-	-	+08:00
			System Info		
6Pc	owered by EnOS		Edit		

#### 2.4.5 Site Management

On the site details page, you can manage the site:

- 1. Under "Basic Info" tab, click **[Edit]** on the bottom to edit the basic information of the site.
- 2. Under "Basic Info" tab, click [Delete Plant] on the right to delete the site.

≡ EnOS			© "Ω hossain.admin <del>▼</del>
Univers EMS	Site List / Site Details		
P Central Monitor	Basic Info Davices Prices User Info		
Site Monitoring	Date into Devices Prices Gate into		
Device Monitoring	Demo01		Delete Plant
ற், Alarm Managem			
💋 System Manage			
Plant Managemer	Basic Info		
Φ ΟΤΑ	Plant Name *	Country/Region *	Address *
🍄 About	Demo01	Australia/Australian Capital Territory/Booth	1 HarbourFront Ave, Keppel Bay Tower, Singapore 098632
	Detail Address	Post Code	Plant Time Zone *
	(H)	9	+08:00
	System Info		
	Edit		



3. Under "Devices" tab, click the **icon** besides the device to edit the device name or delete the device under the site.

Ξ	EnOS		hossain.admin 🔫
Un	ivers EMS	Site List / Site Details	
罕		v Basicinto <b>Davine</b> Drive Heartefo	
<b>1</b> 🖾	Site Monitoring		
Q		Dongle-100 Offine	2 0
Ŕ	Alarm Managem	Asset Type Dongle SN 4adb15feda30 Model Name Dongle20240118	
Þ			
Ø		Greet Tune Inverter - SN 3/dead0a52044 Model Name Des Inverter20240118	
0		House the means of concentration model have readiments for the	
Ø		Battery-1 Office	L Ō
		Asset Type Battery SN 84d414a9359f Model Name Res_Storage20240118	
		Meter 1 Office	4 0
		Asset Type Electricity Meter SN 679212fa0493 Model Name JANITZA-UMG604	

4. Under "Prices" tab, click the [Edit] at the bottom to edit the price.

		🖾 🗘 hossain.a	idmin 🔻	
Univers EMS	€ Site List / Site Details			
😟 Central Monitor 🗸 🗸	Deviate for Deviation Deviation United	Con the C		
Site Monitoring	Basic Info Devices Prices User Info			
Device Monitoring	✓ Purchase Price			
ஜ் Alarm Managem 🗸	1		•	
🍠 System Manage 🗸	Date Period * Time Period Prices	AUD / PMb	ı লি	
🚱 Plant Management 🖂		A007 KWI		
🛇 OTA	5 <b>7</b> .			
🍄 About	0			
✓ Feed-In Tariff				
	1		•	
	Date Period * Time Period Prices			
OPowered by EnOS	Save Cancel			

### 2.5 Device Monitoring

#### 2.5.1 Device Monitoring List

The device list page provides the KPI of all devices connected to different types of devices under the same plant, including device SN, active power, operating status, etc.

The user can filter the devices according to the management node or plant and filtering according to the operating status of the device or the type of device.


Basic information such as device name, SN, state, active power and production statistics are provided.

≡	EnOS	_									9	¢	hossain.admin 🔻
Un	ivers EMS	>	Site: All (5)	~	Device Type	e: Inverter	~	Device	e: All (6)	~			
Ŧ	Central Monitor	*	Q Search										⊻ ≡ ∷
<b>X</b>	Site Monitoring		Offline	Operating	Standby	Fault	📩 Rese	et					
🗖	Device Monitoring		Device Name	\$   SN		\$ Belong	jed Site	÷	Inverter State		÷. Ψ	Ac	Action
Ŕ	Alarm Managem	~	Dinverter-10	c0a8de80c	d1a6	Demo	site02		Operating			0.	Details
Ŗ	System Manage	*	D Inverter-1	89cf01c9e	1dc	Demo	Site		Operating			2.	Details
Ø	Plant Management	*											
Ø													
Ø	About												
4	©Powered by EnOS		Local Time: 2024-10-3	30 15:14:30 Last	Refresh 2024-10-3	30 15:14:22 😋	I						

#### 2.5.2 Device Details

On the Device List, click **device name** or **[Details]** of a device to go to the monitoring details page of the device. Device details page displays the basic information, real-time data, and historical data of the device.

1) Real-time data:

Inverter: DC output, AC output, real-time data such as active power, internal temperature, efficiency, reactive power, power factor, and production today.

Battery: charge and discharge energy, SOC, active power, bus voltage, working mode, working state, SN etc.

Meter: active power, on and off grid data, etc.

Inverter-1 omine Domo Site © 2016 Sengkang E Ave, Singapo		e, Singapore 540270		
C Input	Asset Type, Residential	Inverter SN 89cf01c9e1dc Registration Code	Model Name Res_Inverter20231127 Version AC Output	v1.0.20231127
	String Voltage(V)	String Current(A)	Power voltage (V)	Grid current (A)
PV1	350.9	5.96	243.1	243.10
PV2	296.2	6.02		
PV3	0.0	0.00		
PV4	0.0	0.00		
Real-tim	e Info			
Active F	Power	0.000 kW	Internal Temperature	38.800 °C
Invertor	Efficiency	100.00	Reactive Power	0.000 kVar
Power I	Factor	1.000	Mains Frequency	49.97 Hz
OEM SI	tate	On-grid (Off-grid mode: running)	Output Mode	
Rated Power(kWac)		10.00		

	Demo site02						
34	Asset Type Residential Storag	e SN be4272dec598	Version v1.0.20240118				
Real-time Info							
Storage Working Mo	de	Maximise self consum	nption	Bus Voltage		749.2 V	
SOC		2.0 %	2.0 %		Daily Charging Energy		
Daily Discharging Er	iergy	10.45 kWh		Active Power		0.000 kW	
Working State		Running		SN		36026151abb5	
Software Version		v1.0.20240118-RACK	v1.0.20240118-RACK			40.44 kWh	
Total Discharge Ene	rgy.	40.44 kWh	40.44 kWh		rgy	40.44 kWh	
Bus Voltage		233.44 V	233.44 V			34.20 %	
Battery Pack							
Name	Working State	SN	Active Power (kW)	Voltage (V)	Total Discharge Energy (kWh)	Software Version	SOC (%)
Battery Pack1	Running	d166b8136b7d	23.23	23.23	16.23	v1.0.20240118-PACK	23.44
Battery Pack2	Running	905de80c0681	34.43	34.43	12.44	v1.0.20240118-PACK	12.67

#### 2) Historical data:

On the page, navigate to the **[Historical data]** module to view the historical curve of all the data collected by the device. You can select the signal type, signal point name and time to view the data curve.

nal type:	Voltage(V)	Signal point name:	Selected 2	1 ime: 2024-01-18	
	Voltage(V)		Q. Search		
v	Current(A)		All		
	Frequency(Hz)		Grid Voltage		man
	Power(kW)		String Voltage		
	Reactive power(kVar)		-		
	Yield(kWh)				
0:00 00:40	0 01:20 02:00 02:40 03:20 04	00 04:40 05:20 06:0	0 06:40 07:20 08:00 08:40	09:20 10:00 10:40 11:20 12:00 1	12:40 13:20 14:00 14:40 15:20 16:00 16:40 17:20 18:00 18:40 19:20 20:00 20:40 21:20 22:00 22:44

## 2.6 Device Management

#### 2.6.1 Device Management List

The device management list page provides key information about all devices of diverse types within the scope of user's authority, including device SN, model, operating status, software version number, etc.



The user can filter the devices according to the management node or plant and filtering according to the operating status of the device or the type of device.

$\equiv$	EnOS					Ģ	🖸 🋕 hossain.admin 🔻
Uni	vers EMS	>	Site: All (5)	V Device Type: Inverter	V Device: All (6)	~	
Ŧ	Central Monitor	*	Device Name v Q	Search			$\mathbf{\tau}$
Ш	Site Monitoring		Offline Operating	Standby Fault			
₽	Device Monitoring		Device Name	≑ SN	Model Name	‡ ∣ Invε	Action
Ŕ	Alarm Managem	÷	Dinverter-1111	4d7eaa479725	Res_Inverter20240314	Offl	Parameter Setting
ą	System Manage	÷	🛱 Inverter-1	3dae40a52044	Res_Inverter20240118	Offl	Parameter Setting
•	Plant Management		🖆 Inverter-10	c0a8de80d1a6	Res_Inverter20240118	Орг	Parameter Setting
Ψ	Frant Management	<u></u>	Dinverter-1	89cf01c9e1dc	Res_Inverter20231127	Орғ	Parameter Setting
6	Device Managemei	nt	🖻 Inverter-1	d1abad4283a8	Res_Inverter20240830	Offl	Parameter Setting
6	Device Log Export		Dinverter-1-yjh1	c8199e425ef4	Res_Inverter20240830	Offl	Parameter Setting
Ø							
ـ	About						
			Local Time: 2024-10-30 15:20:26	Last Refresh: 2024-10-30 15:20:25 🔿			

#### 2.6.2 Device Name Editing

In the device management list, locate the device to be managed, click **[Parameter Setting]**, it will open the device details page where you can edit the device name.

Click on the **[Edit]** icon besides the device name, enter the updated name and then click the  $[\sqrt{}]$  icon to save the name.



← Device Management / Device Details			
Basic Info Parameter Setting			
Inverter-1111			Delete Device
Device Type	SN	Registration Code	
Inverter	4d7eaa479725	an an ann an	
Model Name	Version	Plant Name	
Res_Inverter20240314	v1.0.20240314	Test123	
← Device Management / Device Details			
Device Management / Device Details  Basic Info Parameter Setting			
Device Management / Device Details      Basic Info Parameter Setting      Inverter-1111      X			Delete Device
Cevice Management / Device Details  Basic Info Parameter Setting Inverter-1111 V X  Device Type	SN	Registration Code	Delete Device
Device Management / Device Details  Basic Info Parameter Setting Inverter-1111  V  Device Type Inverter	SN 4d7eaa479725	Registration Code	Delete Device
Device Management / Device Details  Basic Info Parameter Setting Inverter-1111	SN 4d7eaa479725 Version	Registration Code 	Delete Device
Device Management / Device Details  Basic Info Parameter Setting  Inverter-1111   Device Type Inverter  Model Name Res_Inverter20240314	SN 4d7eaa479725 Version v1.0.20240314	Registration Code  Plant Name Test123	Delete Device

#### 2.6.3 Device Parameter Setting

On the device details page, click **[Parameter Setting]** tab, it will open the device parameter page, and you can send remote parameter control to the device.

For **dongle**, you can modify the operation mode and working mode.

For **inverter**, you can modify the power parameters, operation mode, characteristic parameters, and other parameter settings.

For **battery**, you can modify the charge and discharge mode, charge and discharge power and other parameter settings.

For **meter**, you can modify the meter direction.



Device Management / Device Details	
Basic Info Parameter Setting	
Grid Parameters	
Grid Code (2)	
Select v	
Protection Parameters	
Feature Parameters	
AFCI	Off-grid Mode
Select	Select v
Power Adjustment	
Remote Power Schedule	Max. active power
Select v	Please Input
	KW Reference value (0.1.6)
fissund .	

To set the device parameter:

1. Please set the parameter value according to the threshold range and prompt description of the parameter as shown in the example below.

Protection Parameters     Feature Parameters      AFCI Off-grid Mc     Select     Select      Power Adjustment	de	
Feature Parameters       AFCI     Off-grid Mc       Select     V       Select     V	da	
AFCI Off-grid Mr Select V Select	de	
Select V Select	(secol	
Power Adjustment	ж.	
Remote Power Schedule Active pow	er percentage derating	Max. active power
Select V Please In	iput 👘	Please Input
Reference va	due (-100.0, 100.0)	kW Reference value
Active Power Control		

- 2. Update the preferred parameters and press [Issue].
- 3. Double confirm the update by pressing the Confirm button.

Basic Info Parameter Setting			
Grid Parameters		Command Issue X	
Select Protection Parameters	×.	commands will be issued to the device. Please operate with caution to ensure that the set parameter values are correct. O After some device parameters such as the Grid Code are modified, the device may be reset. Please	
Feature Parameters		ensure that the settings are correct. Do you want to confirm the issuance?	
Enable	×	Cancel Confirm	
Power Adjustment			

- 4. When the parameter is updating, the user can choose to:
  - a. wait on the current page or
  - b. click **[Confirm]** to leave temporarily and come back later to check the parameter.

Parameter updating	×
You can stay on the current page and wait for the parameter setting results, and the entire process will last for a few minutes.	
Cancel Confi	m

- 5. If the user chooses to wait on the current page, the update will take a few minutes. After the parameter is updated, the pop-up window will show the result: **Command issue successful/failed**.
- 6. If the user chooses to leave temporarily, the user can come back to the parameter setting page later after 5mins, if parameter was set successfully, the parameter value will be updated.

## 2.7 Operation & Management

Pre-requisite: You are using a System Admin/Installer Admin/Installer account.

#### 2.7.1 Active Alarm

On the Active Alarm page, all alarm information under the power plant is displayed in real time, including alarm generation time, alarm power plant, device, alarm level, alarm category, and alarm description.

On the top of the page, it displays the total number of active alarms (including number of active alarms by severity), total number of active alarms from today, total number of active alarms cleared today.

Users can manage the alarm based on the company node / power plant and support flexible filtering according to the alarm level and alarm category. Users can also search the alarms by alarm description or alarm code.

For the alarm record information that is invalid but not automatically recovered by the device, the manual clearing mechanism is supported. If the user clear the alarm, the alarm will enter the historical alarm record and no longer display and prompt the alarm that has not been restored.

Univers EMS		A Fault	78			
Central Monitor 🛛 👻	Total <b>0 702</b>	▲ Warning	4748	Daily Alarm <b>7</b>	Daily Cleared	l Alarm
Site Monitor 🛛 🗸	0,102	▲ Collapse	4909		Ŭ	
Alarm Managem						
Active Alarm	Plant: Select V	Alarm Severity: Select V	Alarm Type: Select	Device Type: Select	×	Search Reset •
Historical Alarm	Batch Clear				Q Alarm	description or code
System Manage 👻	Device Name	Site Name	Device Type	Alarm Severity	Alarm Type	Alarm Descri
Plant Management	Inverter-1	Test_site	Inverter	🛦 Info	(201) Monitor Alarm	Abnormal Str
Than management	Inverter-1	Test_site	Inverter	▲ Info	(200) Power Alarm	String Curren
OTA Upgrades	inverter have a long long long	Test_site	Inverter	▲ Info	(200) Power Alarm	String Curren
Northbound Manage	inverter have a long long long	Test_site	Inverter	A Fault	(200) Power Alarm	String Revers
	inverter have a long long long	Test_site	Inverter	▲ Info	(201) Monitor Alarm	Abnormal Str
	Inverter-2	Test_site	Inverter	🔺 Fault	(200) Power Alarm	DC Arc Fault(

### 2.7.2 Historical Alarm

On the Historical Alarm page, all the restored historical alarm records under the current power plant are summarized and displayed, including alarm generation time, recovery time, alarm power plant, device, alarm level, alarm category, alarm description, duration, and so on. Users can manage the alarm based on the company node / power plant and support flexible filtering according to the alarm Severity and alarm type. Users can also search the alarms by alarm description or alarm code.

Univers EMS	>	Plant: Select $\lor$	Alarm Severity: Select $\qquad \lor$	Alarm Type: Select	✓ Device Type: Select	~	Search Reset 🛩
Central Monitor	1					Q. Al.	arm description or code
Site Monitor	1.90						
Alarm Managem		Device Name	Site Name	Device Type	Alarm Severity	Alarm Type	Alarm Description
Active Alarm		Inverter-Demo1	Plant03 Hyde Park North,100cE Doeydai Serity asd	Inverter	A Fault	(200) Power Alarm	High String Input Volta
Historical Alarm System Manage	.~	Inverter-Demo1	Plant03 Hyde Park North,100cE Doeydai Serity asd	Inverter	A Fault	(200) Power Alarm	(8704) Internal fan 4 abnormal
Plant Management		Inverter-Demo2	Plant02 Hyde Park North,100 Month One 01 Wart Keels Ko Hyde ParK	Inverter	🔺 Info	(201) Monitor Alarm	(1314) Abnormal string function of PV14
Northbound Manage	»	inverter-solargain-mocked	For-Greensync-to-Verify	Inverter	A Fault	(200) Power Alarm	(10402) MPPT1 DC terminator temperature abnormal
About		inverter-2	WA-Integration-UAT Plant	Inverter	A Fault	(200) Power Alarm	(10402) MPPT1 DC terminator temperature abnormal
		Inverter-Demo3	Plant01	Inverter	A Fault	(200) Power Alarm	(315) DC arc fault of P
					2	N N	(8006) PV parallel

### 2.7.3 Device Firmware Upgrade

When there is an upgrade / update of the device software version, the system supports remote firmware upgrade of the device. Under the OTA Upgrade module, users can uniformly manage and maintain firmware and upgrade tasks.

#### 2.7.3.1 Create Firmware

1. Users can create new firmware by clicking the **[New]** button under each type of devices.

Univers EMS	Residential Inverter Dongle Smart	Logger Residential Storage				
Central Monitor 🛛 🛩	+ New				Q, Enter firmwar	e name to search
Site Monitor 🗸 🗸	Firmware Name	Version	Firmware Description	Create On	Firmware File	
Alarm Management 🗠	OTA Test 0822	v4.0.0	desc	2023-08-22 10:44 09	Download	合 茴
System Managem	Version111Version111	Version111Version111	8	2023-08-21 18:39-28	Download	合 茴
Plant Management ~	Version66666Version66666	Version66666Version66666	.es.	2023-08-21 17:53:54	Download	\$ 0
The management	1.1.131	1.1.151		2023-08-21 14:14:15	Download	☆ ⊡
OTA Upgrades	1018-4	v1.0.2023081804		2023-08-16 15:52:08	Download	
Northbound Manage	1018-3	v1.0.2023081603		2023-08-16 15:14:35	Download	\$ 10
	Total 56 Items				< 1 2 3 4 5 6	> 10 / Page v
с						

- 2. Fill in the firmware name and version. Upload the firmware package by clicking the button **[Click to upload].** You can choose to add the description and label for this new firmware.
- 3. Click [Submit].

Univers EMS	Residential Inverter Dongle Sm	art Logger Residential Storage	8	Add Firmware
	+ Now			Firmware Name +
Sile Monitor V	Ermusero Namo	Marcana	Firmwara Description	Please Input 0764
Alarm Management 🖂	OTA Test 0822	v4.0.0	desc	Version*
System Mananam	Version111Version111	Version111Version111	-	Please input 07.128
	Version66666Version66666	Version66666Version66666		Upload Firmware *
Plant Management.	1.1.131	1 1 151	. <del></del>	<ul> <li>Oik of group</li> <li>Oik of group</li> <li>Bin, tar, gz and zip files are supported, and the size is no more than 100M</li> </ul>
OTA Upgrades	1018-4	v1.0.2023081804		Firmware Description
Northbound Manage	1018-3	v1 0.2023081603		Please enter the text
	Total 56 Items			07500
				Label( 0 /10) + Add Label
				Cancel Subm

#### 2.7.3.2 **Delete Firmware**

Users can delete an unwanted firmware package through **[Delete]** icon on the right hand column of the page.

Univers EMS	Residential Inverter Dongle Smar	t Logger Residential Storage				
Central Monitor v	+ New				Q, Enter firmwar	e name to search
Site Monitor 🛛 🗸	Firmware Name	Version	Firmware Description	Create On	Firmware File	
Alarm Management 🗠	OTA Test 0822	v4.0.0	desc	2023-08-22 10:44.09	Download	4 🖂
System Managem ~	Version111Version111	Version111Version111	-	2023-08-21 18:39:28	Download	全回
Plant Manadamant	Version66666Version66666	Version66666Version66666		2023-08-21 17 53 54	Download	☆ 茴
	1.1.131	1.1.151		2023-08-21 14:14:15	Download	
OTA Upgrades	1018-4	v1.0.2023081804		2023-08-16 15 52 08	Download	全面
Northbound Manage	1018-3	v1.0.2023081603		2023-08-16 15:14:35	Download	☆ 茴
	Total 56 Items				< 1 2 3 4 5 🚯	10 / Page 🗸

#### 2.7.3.3 **Download Firmware Packages**

Users can download firmware packages through **[Download]** button in the Firmware File column.

ntral Monitor 🛛 👻	+ New				Q, Enter firmwa	re name to search
e Monitor 🛛 🗸	Firmware Name Version		Firmware Description	Create On	Firmware File	
m Management 🖂	OTA Test 0822	v4.0.0	desc	2023-08-22 10:44:09	Download	合 直
em Managem 😪	Version111Version111	Version111Version111	8	2023-08-21 18:39:28	Download	全直
	Version66666Version66666	Version86666Version66666	-	2023-08-21 17 53 54	Download	\$ Ō
management ~	1.1.131	1.1.151	3 I	2023-08-21 14:14:15	Download	\$ D
Upgrades	1018-4	v1.0.2023081804		2023-08-16 15:52:08	Download	수 <b>回</b>
xound Manage	1018-3	v1.0.2023081603		2023-08-16 15:14:35	Download	

### 2.7.3.4 Upload Firmware Packages

1. Users can upload firmware packages through **[Upload]** icon on the right hand column of the page.

Univers EMS	Residential Inverter Dongle Smar	t Logger Residential Storage				
Central Monitor 🛛 👻	+ New				Q, Enter firmwar	re name to search
Site Monitor V	Firmware Name	Version	Firmware Description	Create On	Firmware File	
Alarm Management 🗠	OTA Test 0822	v4.0.0	desc	2023-08-22 10:44.09	Download	순립
System Managem 😔	Version111Version111	Version111Version111		2023-08-21 18:39-28	Download	全面
Diant Managamand	Version66666Version66666	Version66666Version66666	-	2023-08-21 17:53:54	Download	全面
Fiant Management	1.1.131	1.1.151	-	2023-08-21 14:14:15	Download	\$
OTA Upgrades	1018-4	v1.0.2023081804		2023-08-16 15:52:08	Download	
Northbound Manage	1018-3	v1.0.2023081603		2023-08-16 15:14:35	Download	
	Total 56 Items				< 1 2 3 4 5 🚯	> 10 / Page v

- 2. User will be able to track the upgrade task history on this page.
- 3. Click [Add Upgrade Task] to upload the firmware package.



Univers EMS	Firmware Management / Firmw	are Upgrade			
	1030_regression				
	Firmware Number v1030.01 De	vice Type Res_Inverter Firmware Description t	lest Label 1 0		
Alarm Management 👒	+ Add upgrade task				Q. Enter task name to search
System Managem	Upgrade Task Name	Upgrade Start Time	Task Creation Time	Operator	i i
Plant Management 🖂	test	2023-10-30 16:10:42	2023-10-30 16:10:42	Rebecca yu01	i ii
OTA Upgrades	Total 1 Items				< 1 > 10 / Page 🗸
Northbound Manage					

- 4. Select the device/devices base on the device, device model or the version of the devices. The user can choose multiple devices.
- 5. Click [Confirm].

Univers EMS	Emmware Management / Firmware Upgrade / Add Upgrade Task
Central Monitor     Site Monitor     Alarm Management	Choose Device  Choose Device
Plant Management	Device selected(i)     A     Device NullSelected(i)     A     Current Ve Selected(ii)     A     Content     Current Ve       Q. Enter the company/selent n     Q. Enter the device model to     1.0.0     Image: Company selected (iii)     Image: Company selected (iiii)     Image: Company selected (iiii)
OTA Upgrades Northbound Manage	B: Team Solar         None         1H           B: Installer Company         SKTL-L1         A1234567890           B: Installer AdminRegis         EESOLAR-29 0KTL-M3         B1234567890           B: Installer AdminRegis         EESOLAR-20 0KTL-M3         V1000001C005PC156           B: 0118 2024 0118         ISHYPS-S000TL-IPH         V100R001C005PC156           B: demoCompany         ISHYPS-S000TL-IPH         V100R001C025PC158           B: tompany2024.024.024         ISHYPS-6000TL-IPH         V100R001C025PC122
	Next Next

6. A list of devices to be upgraded will be displayed.

Univers EMS	← Firmware Management / Firmware	Upgrade / Add Upgrade Task			
			-		
		() Choose	Device  Ø Upgrade task setter	gs	
	Choose Device (1)				
	Device: Selected(1) v	Device Nu : Selected(0) v Current Ve.	.:: Selected(0) v Confirm Clear		
Plant Management	Device Name	SN	Device Number	Software Number	Device Status
OTA Upgrades	Inverter-1	16e7fc0f3e6a	Res_Inverter20230927	v1.0.20230927	• inactive
Northbound Manage	Inverter-1	846b2317	2	v1.0.20230814	+ offline
1 - N	Inverter-2	13083811	÷	v1.0.20230814	offline
	Inverter-3.	b8775e44	8	v1.0.20230814	<ul> <li>offline</li> </ul>
	Total 4 Items				< (1) > 10 / Page v
	Next				

- 7. Click [Next].
- 8. Fill in the upgrade task settings, such as task name, upgrade window.

Univers EMS	Firmware Management	/ Firmware Upgrade / Add	Upgrade Task				
Central Monitor 🛛 🗸							
Site Monitor 🛛 🗸				Choose Device	Opgrade task settings		
Alarm Management 🖂	Task name *						
	Please enter a task name		A				
			07.04				
OTA Upgrades	Update Window *						
	Upgrade timeout 🛞						
	Please Enter	minutes					
	Please enter an integer betw	een 5 and 2880					
	Failed to retry						
	I have been authorized b	ly the equipment owner to upg	rade the equipment rer	notely.			
	Submit Previous						

9. The user can choose to enter an upgrade timeout minutes. Hover on the information icon to view the description of the Upgrade Timeout: If the device selected above does not return a verification result (success or failure) within this time period, the task will fail.



Univers EMS	E Firmware Management / Firmware Upgrade / Add Upgrade Task
	Character Denice
	Curron navon — Godbann razz semita
Alarm Management 🖂	Task name +
System Managem	Please enter a task name 0 / 64
Plant Management 🗠	If the device selected above does not
OTA Upgrades	return a vorticitation result (success of falue) within this time period, the task will fail.
Northbound Manage	Upgrade timeor Please Enter multiple Please oriter an integer between 5 and 2880 Failed to retry
	I have been authorized by the equipment owner to upgrade the equipment remotely.
	Submit Previous

10. Toggle the switch to enable Failed to retry option. Enter retry interval minutes and number of retries. This option is for the system to retry upgrading if the first try has failed.

Univers EMS	← Firmware Managem	ent / Firmware Upgrade / Ar	dd Upgrade Task					
Central Monitor								
Site Monitor 🤍 🗸				Choose Device —	Opgrade task s	ettings		
Alarm Management 🗠			0764					
System Managem 🛩	Update Window *							
Plant Management 🛛 🛩	O Update Now							
OTAUpgrades	Upgrade timeout 🚳							
	Please Enter	minutes						
Northbound Manage	Prease enter an integer be	nween 5 and 2000						
	Failed to retry							
	10	minutes						
	Please enter an integer be	stween 5-1440						
	Number of retries *							
	2	times						
	Please enter 1~5							
	I have been authorize	d by the equipment owner to u	pgrade the equipment re	notely				
	Submit Previous							

- 11. Tick the consent box and click **[Submit]** to initialize the upgrade task.
- 12. The system will issue the firmware and remotely upgrade the device according to the definition of the upgrade task.

#### 2.7.3.5 Track Upgrade Tasks

When the upgrade task starts, users can track the upgrade progress, and the page will display the upgrade progress. When the upgrade task is completed, the upgrade result will be displayed. If the upgrade fails, the reason for the failure will be reported. Users can retry the operation.

1. Select a firmware and click **[Upload]** icon on the right hand column of the page.

Univers EMS	Residential Inverter Dongle Sma	rt Logger Residential Storage				
Central Monitor 🗸 🗸	+ New				Q, Enter firmwar	e name to search
Site Monitor 🗸 🗸	Firmware Name	Version	Firmware Description	Create On	Firmware File	
Alarm Management 👒	OTA Test 0822	v4.0.0	desc	2023-08-22 10:44.09	Download	순고
System Managem 🤟	Version111Version111	Version111Version111	9	2023-08-21 18:39:28	Download	全面
Divid Management	Version66666Version66666	Version66666Version66666	3	2023-08-21 17:53:54	Download	合 茴
Plant Management	1.1.131	1.1.151	<b>4</b>	2023-08-21 14:14:15	Download	全面
OTA Upgrades	1018-4	v1.0.2023081804		2023-08-16 15 52 08	Download	全面
Northbound Manage	1018-3	v1.0.2023081603		2023-08-16 15 14 35	Download	☆ 茴
	Total 56 Items				< 1 2 3 4 5 6	> 10 / Page v
K						

2. Click the [details] icon of the upgrade task that the use wants to track.

Univers EMS	Firmware Management / Firmwa	re Upgrade			
Central Monitor 🛛 👻	1030_regression				
Site Monitor 🛛 🛩	Firmware Number v1030.01 Dev	ice Type Res_Inverter Firmware Description t	est Label 1 [d]		
Alarm Management	+ Add upgrade task				Q. Enter task name to search
System Managem	Upgrade Task Name	Upgrade Start Time	Task Creation Time	Operator	
Plant Management 🗠	test	2023-10-30 16:10:42	2023-10-30 16:10:42	Rebecca.yu01	R
OTA Upgrades	Total 1 Items				< 🚺 > 10 / Page 🗸
Northbound Manage					

3. On the Task Detail page, the user can filter the tasks according to the device model, device, upgrade status and firmware version.

Central Montor       Device NaSelected(0)       Device: Selected(0)       Update StaSelected(0)       Current VeSelected(0)       Query Reset         Ste Montor       Enter the device model to search       Enter the company/plant name to se       Filmware to be issued       11.0.       or SN to search       Plant2024-02.04 ×         Atarm Maningement       System Maningement       System Maningement       Plant2024-02.04 ×	Univers EMS	← Firmware Management / Firmware Upgrade	/ Task Detail			
Ste Monitor <ul> <li>Enter the device model to search</li> <li>C. Enter the companyiplant name to se</li> <li>Firmware to be issued</li> <li>1.0.0</li> </ul> Atem Management <ul> <li>Plant2024-02.05 ×</li> <li>Firmware to be issued</li> <li>HH.</li> <li>Plant2024-02.04 ×</li> <li>Plant2024-02.04 ×</li></ul>	Central Monitor 🛛 👻	Device Nu: Selected(0)	Device Selected(0)	Update Sta Selected(0)	<ul> <li>Current Ve: Selected(0)</li> </ul>	A Query Reset
Atam Management         None         Print2024 02.05 v         Firmware issued         H           System Management         SKTLL1         Print2024 02.04 v         Upgrading         A1234567890           Plant Management         EESOLAR-29 (WTL-M3         Print2024 02.04 v         Saccessfully upgraded         B1234567890           Plant Management         EESOLAR-29 (WTL-M3         Print2024 02.04 v         Print2024 02.04 v         Print2024 02.04 v           OTA Upgrades         ISHYB 5000TL IPH         Print2024 02.04 v         Print2024 02.04 v         Print2024 02.04 v           Nothbound Management         ISHYB 5000TL IPH         Print2024 02.04 v         Print2024 02.04 v         Print2024 02.04 v           Nothbound Management         ISHYB 5000TL IPH         Print2024 02.04 v         Print2024 02.04 v         Print2024 02.04 v           Nothbound Management         ISHYB 5000TL IPH         Print2024 02.04 v         Print2024 02.04 v         Print2024 02.04 v         Print2024 02.04 v           Nothbound Management         ISHYB 5000TL IPH         Print2024 02.04 v         Prin	Site Monitor V	Q. Enter the device model to search	Q. Enter the company/plant name to se	Firmware to be issued	10.0	or SN to search
System Munugent	Alarm Management 🛛 🗸	None	■ Plant2024-02-05 ∨ ■ Plant2024-02-05 ∨	Firmware issued	1H	
Plant Manupement         EESOLAR-6KTL_L1         Plant2024-02-04         Plant2024	System Managem ~	EESOLAR-29.9KTL-M3	Plant2024-02-04 ~	Successfully upgraded	B1234567890	IP CO
OTA Upgrades         IS-HYB-5000TL-1PH         IS-HYB-5000TL-1PH         IS-HYB-5000TL-1PH         IS-HYB-5000TL-1PH         IS-HYB-5000TL-1PH         IS-HYB-5000TL-1PH         IS-HYB-5000TL-1PH         IS-HYB-6000TL-1PH         IS-HYB-6000TL-1PH <t< th=""><th>Plant Management</th><th>EESOLAR-6KTL-L1</th><th></th><th>Failed to upgrade</th><th>V100R001C00SPC155</th><th>10 (Been 1)</th></t<>	Plant Management	EESOLAR-6KTL-L1		Failed to upgrade	V100R001C00SPC155	10 (Been 1)
Northbound Manage         IS-HYB-8000TL-1PH         IPInit/024-02-04         V100R001C20SPC122           IPInit/024-02-04         IPInit/024-02-04         V100R001C20SPC122	OTA Upgrades	IS-HYB-5000TL-1PH			V100R001C00SPC156	107 Page V
Doc. Invorter20230617	Northbound Manage	IS-HYB-6000TL-1PH			V100R001C20SPC122	

4. The user can track the upgrade progress and status of each task.

5. If the task has failed, the cause of failure will be displayed as well.

Univers EMS	Firmware Management / Fi	rmware Upgrade / Task D	etail						
Central Monitor 🚽	Device Nu Selected(0)		Device Selected(0	)	V Update Sta	Selected(0) v	Current Ve Selected(0)	Query	Reset
Site Monitor 🚽	Batch Retry							Q. Enter Device Name or SN to sea	arch O
Alarm Management ~	Current Version	Version number to be	Device Status	Installation company/site	Unmade Promess	Unitate Status IB	Cause of Failure	Status Lindate Time	
System Managem	30 v1.0.20230605	v1030.01	offline	Plant01/rebecca site02	of france in the second	0% Firmware to be issued		2023-10-30 16-10:41	BO
Plant Management 🔗	Total 1 Items								10 / Page V
OTA Upgrades									
Northbound Manage									

6. The user can click **[Batch Retry]** to batch retry upgrading.

Univers EMS	Firmware Manag	ement / Firmware Upgrade	/ Task Detail									
Central Monitor 🔍	Device Nu ; Se	elected(0)	V Device: Selected(0)		V Update Sta: Se	elected(0)	Current Ve	: Selected(0)		Query	Reset	
Site Monitor V	Batch Retry							1	A, Enter D	evice Name or SN to sea	rch	0
Alarm Management 💚	Device Name	SN	Device Number	Current Version	Version number to be uppraded	Device Status	Installation company/site	Upgrade Progress		Update Status ()		
System Managem	Inverter-1	9d495a94b13d	Res_Inverter20230	v1.0.20230605	v1030.01	offline	Plant01/rebecca site02		0%	<ul> <li>Firmware to be issued</li> </ul>	E C	
Plant Management 🖂	Total 1 flems									< <b>()</b> >	10 / Page	e V
OTA Upgrades												
Northbound Manage												
s						企业	微信					

## 2.8 Northbound Management

Pre-requisite: You are using a System Admin/Installer Admin account.

Northbound Management module is used to create northbound user and assign plant permissions to the northbound user.

The northbound user list includes User name, Identifier, Secret key and Description. Secret key is used if the user uses access token to invoke open API.

## Univers EMS User Manual Rev. 1.3.1

	User name	Identifier	Secret key		Description
	smokeTest2024-02-04	ca4af29f-e907-4c8e-8f5d-77b0f3b5b8f5	2b144***********************************	۲	smokeTest
rm Management 🖂	1111	40e76a9a-bdfb-406c-aaf3-d1fe7fc063c5	b6f5b******404	۲	1111
tem Mananem 🔍 👻	rebeccaOpenAPI01	2b470702-b291-4f99-882e-4af245878fef	14d9e*******aaf	0	rebeccaOpenAPI01
som manogon	rebeccaOpenAPI	a3834e79-0cf3-4449-83f5-979547a66130	98114******eaa	۲	Open API SA
nt Management 🛛 🗸	test 011010	5cae3805-e472-417d-b0c0-717dea65b16f	b7354******594	0	test00001
A Upgrades	test1113_04	64602a8b-50ff-4eb4-b499-15062c14baec	c3d99******d22	۲	test1113_04
rthbound Manage	test1113_03	f6d193ca-e748-4b41-a472-0d2520b7b128	75/05********************************	0	test1113_03
	test1113_02	ca27d4ab-c6ac-4c7c-8cf2-9b6ae82fb2f3	25be7*******ebf	۲	test1113_02
	test1113_01	cb1c9e0a-fe1f-46b5-9008-a3584deda3be	43649***********************************	۲	test1113_01
	test1113	8caa54a4-6119-49f6-bdf8-d4c8acdd57ee	c557a******fa4	۲	test1113
	Total: 29				< 1 2 3 > 10/Pag

### 2.8.1 Add Northbound User

1. To add a northbound user, please click the button [Add User].

100000 0000000 Do							
Univers EMS		+ Add User					Q. Search for username
Central Monitor ~		User name	Identifier	Secret key		Description	
Site Monitor ~		smokeTest2024-02-04	ca4af29f-e907-4c8e-8f5d-77b0f3b5b8f5	2b144******c1d	0	smokeTest	
Alarm Management 👒	2	1111	40e76a9a-bdfb-406c-aaf3-d1fe7fc063c5	b6f5b*******404	۲	1111	
System Mananem 😪		rebeccaOpenAPI01	2b470702-b291-4f99-882e-4af245878fef	14d9e*******aaf	0	rebeccaOpenAPI	01
Coyatem managem		rebeccaOpenAPI	a3834e79-0cf3-4449-83f5-979547a66130	98114******eaa	۲	Open API SA	
Plant Management ~		test 011010	5cae3805-e472-417d-b0c0-717dea65b16f	b7354*****594	0	test00001	
OTA Upgrades		test1113_04	64602a8b-50ff-4eb4-b499-15062c14baec	c3d99******d22	۲	test1113_04	
Northbound Manage		test1113_03	f6d193ca-e748-4b41-a472-0d2520b7b128	75f05*******************************	۲	test1113_03	
		test1113_02	ca27d4ab-c6ac-4c7c-8cf2-9b6ae82fb2f3	25be7******ebf	0	test1113_02	
		test1113_01	cb1c9e0a-fe1f-46b5-9008-a3584deda3be	43649******c16	۲	test1113_01	
		test1113	8caa54a4-6119-49f6-bdf8-d4c8acdd57ee	c557a*******fa4	0	test1113	
		Total: 29					< 1 2 3 > 10 / Page V

- 2. Input the user name and the description.
- 3. Click **[Apply]** and the northbound user will be created.

Univers EMS	+ Add User						Q. Search for username.
Central Monitor 🚽	User name	Identifier		Secret key			Description
Site Monitor	smokeTest2024-02-04	ca4af29f-e907-4c	8e-8f5d-77b0f3b5b8f5	2b144*****	*c1d	0	smokeTest
Alarm Management 🖂	1111	40e76a9a-bdfb-4	06c-aaf3-d1fe7fc063c5	b6f5b*****	404	۲	1111
Suctam Managam	rebeccaOpenAPI01	2b470702-b291	Add Northbound User		×	0	rebeccaOpenAPI01
oystem managem	rebeccaOpenAPI	a3834e79-0cf3-	User name +			0	Open API SA
Plant Management 🛛 🗸	test 011010	5cae3805-e472	Please Input		0 / 100	0	test00001
OTA Upgrades	test1113_04	64602a8b-50ff-4	Description			0	test1113_04
Northbound Manage	test1113_03	f6d193ca-e748-	Please Input			0	test1113_03
Northooding Manage	test1113_02	ca27d4ab-c6ac-				0	test1113_02
	test1113_01	cb1c9e0a-fe1f-4			07200	0	test1113_01
	test1113	8caa54a4-6119				0	test1113
	Total: 29			Cancel	Apply		< 1 2 3 > 10 / Page v

4. Click the **[View]** icon besides the Secret Key, you will be able to view the full secret key.

Univers EMS	+ Add User				Q. Search for username
Central Monitor 🗸	User name	Identifier	Secret key		Description
Site Monitor 🛛 🗸	test user manual	847a47fc-67be-4522-8e70-787d322259a9	4d823******325	$\odot$	create for user manual
Alarm Management 🖂	smokeTest2024-02-04	ca4af29f-e907-4c8e-8f5d-77b0f3b5b8f5	2b144*******c1d	$\odot$	smokeTest
System Managem 24	1111	40e76a9a-bdfb-406c-aaf3-d1fe7fc063c5	b6f5b******404	0	1111
Gystein managen	rebeccaOpenAPI01	2b470702-b291-4f99-882e-4af245878fef	14d9e*******aaf	۲	rebeccaOpenAPI01
Plant Management 🗸	rebeccaOpenAPI	a3834e79-0cf3-4449-83f5-979547a66130	98114*****eaa	0	Open API SA
OTA Upgrades	test 011010	5cae3805-e472-417d-b0c0-717dea65b16f	b7354*****594	٢	test00001
Northbound Manage	test1113_04	64602a8b-50ff-4eb4-b499-15062c14baec	c3d99******d22	0	test1113_04
	test1113_03	f6d193ca-e748-4b41-a472-0d2520b7b128	75f05*******************************	0	test1113_03
	test1113_02	ca27d4ab-c6ac-4c7c-8cf2-9b6ae82fb2f3	25be7******ebf	0	test1113_02
	test1113_01	cb1c9e0a-fe1f-46b5-9008-a3584deda3be	43649*******c16	0	test1113_01
	Total: 30				< 🚺 2 3 > 10 / Page 🗸

### 2.8.2 Edit Northbound User

1. Scroll the window to the right and click the [Edit] icon.

#### Univers EMS User Manual Rev. 1.3.1

Univers EMS	+ Add User					Q. Search for usern	ame	
Central Monitor 🛛 🗸		Identifier	Secret key		Description	Edit		
		847a47fc-67be-4522-8e70-787d322259a9	4d823******325	۲	create for user manual	L	o	۵.
Alarm Management. 👒	2-04	ca4af29f-e907-4c8e-8f5d-77b0f3b5b8f5	2b144*******c1d	۲	smokeTest	L	0	Ē
Syctom Mananom 🖂		40e76a9a-bdfb-406c-aaf3-d1fe7fc063c5	b6f5b******404	0	1111	L	$\odot$	Ē
oysion managem	1	2b470702-b291-4f99-882e-4af245878fef	14d9e******aaf	۲	rebeccaOpenAPI01	L	0	Ē
Plant Management 🛛 🛩		a3834e79-0cf3-4449-83f5-979547a66130	98114*****eaa	0	Open API SA	<u>_</u>	0	Ē
OTA Upgrades		5cae3805-e472-417d-b0c0-717dea65b16f	b7354******594	0	test00001	1	0	ē
Northbound Manage		64602a8b-50ff-4eb4-b499-15062c14baec	c3d99******d22	۲	test1113_04	L	$\odot$	Ξ.
		f6d193ca-e748-4b41-a472-0d2520b7b128	75f05******469	0	test1113_03	2	0	ē
		ca27d4ab-c6ac-4c7c-8cf2-9b6ae82fb2f3	25be7*******ebf	۲	test1113_02	L	$\odot$	Ē
		cb1c9e0a-fe1f-46b5-9008-a3584deda3be	43649***********************************	0	test1113_01	l	0	Ē
	Total: 30					< 1 2 3 >	10 /	Page ∨

2. You can edit the description for the northbound user.

Univers EMS >	+ Add User			Q. Search for username
Central Monitor ~	Identifier	Secret key Desc	rintion	
Site Monitor 🛛 🗸	847a47fc-67be-4522-8e70-787	322: Edit Northbound User	× user manual	<b>∠</b> ⊙ ē
Alarm Management 🖂	2-04 ca4af29f-e907-4c8e-8f5d-77b0f	3b5b User name +	st	∠ © ⊡
System Mananem 🖂	40e76a9a-bdfb-406c-aaf3-d1fe	fc06 test user manual		∠ ⊙ ⊡
cyston managem	1 2b470702-b291-4f99-882e-4af2	4587 Identifier	penAPI01	∠ ⊙ ⊡
Plant Management 😔	a3834e79-0cf3-4449-83f5-9795	47a6 847a47fc-67be-4522-8e70-787d322259a9	SA	2 0 🖻
OTA Upgrades	5cae3805-e472-417d-b0c0-717	Jea6 Secret key	t.	∠ © ⊡
Northbound Manage	64602a8b-50ff-4eb4-b499-1506	2c14 4d823************************************	04	∠ ⊙ ⊡
	f6d193ca-e748-4b41-a472-0d2	20bi Description +	03	∠ ⊙ ⊡
	ca27d4ab-c6ac-4c7c-8cf2-9b6a	e82ft create for user manual	.02	2 0 0
	cb1c9e0a-fe1f-46b5-9008-a358	Ided	01	2 O ±
	Total: 30	22 / 200		< 1 2 3 > 10/Page v
		Cancel Save		

3. Click **[Save]** to save the changes.

### 2.8.3 Manage Northbound User

1. Scroll the window to the right and click the **[Manage]** icon.

Univers EMS	+ Add User					Q. Search for usern	ame	
Central Monitor 🛛 👳		Identifier	Secret key		Description	N	tanage	
Site Monitor 🛛 👻		847a47fc-67be-4522-8e70-787d322259a9	4d823************************************	۲	create for user manual	L	0	ŏ
Alarm Management 🖂	2-04	ca4af29f-e907-4c8e-8f5d-77b0f3b5b8f5	2b144******c1d	۲	smokeTest	L	0	Ē
System Mananem		40e76a9a-bdfb-406c-aaf3-d1fe7fc063c5	b6f5b******404	۲	1111	<u>@</u>	0	Ē
cyclon managon	1	2b470702-b291-4f99-882e-4af245878fef	14d9e******aaf	0	rebeccaOpenAPI01	<u>@</u>	0	Ū
Plant Management 🖂		a3834e79-0cf3-4449-83f5-979547a66130	98114*****eaa	0	Open API SA	L	0	
OTA Upgrades		5cae3805-e472-417d-b0c0-717dea65b16f	b7354******594	۲	test00001	2	0	ē
Northbound Manage		64602a8b-50ff-4eb4-b499-15062c14baec	c3d99******d22	0	test1113_04	L	٢	Ē
		f6d193ca-e748-4b41-a472-0d2520b7b128	75f05******469	0	test1113_03	e	0	Ō
		ca27d4ab-c6ac-4c7c-8cf2-9b6ae82fb2f3	25be7*****ebf	0	test1113_02	<u>@</u>	$\odot$	ē
		cb1c9e0a-fe1f-46b5-9008-a3584deda3be	43649******c16	۲	test1113_01	0	0	Ē
	Total: 30					< 1 2 3 >	10 / 1	Page ∨

2. Tick the box of the plants that you want to assign to the northbound user. The selected plants will appear on the Selected List on the right. You can select multiple sites.

Univers EMS	+ Add User				Q, Search for userna	ime :	
Central Monitor ~	Identifier	Plant Management		×		0.0	
Site Monitor V	847a47tc-67be-4	Flaint Ivianagement			L	0	
Alarm Management ~	2-04 ca4af29f-e907-4	Selectable List	Selected List 1	Clear All	<u>e</u>	• <u></u>	
System Managem 🔍	40e76a9a-bdfb-4	Q. Entor	Q. Search by site name		L	0 🖻	
	1 2b470702-b291-	🖳 🚇 testsite00123	Test Site 004	ū	2	⊙	
Plant Management V	a3834e79-0cf3-4	Test upload file final			L	0 ē	
OTA Upgrades	5cae3805-e472-	一 嬰 Test upload file Jimmy			L	0 0	
Northbound Manage	64602a8b-50ff-4	Test site photo			L	0 Ē	
	f6d193ca-e748-4	Test upload			L	0 Ē	
	ca27d4ab-c6ac-	Pest Site 004     Pest Site 004     Pest Site 004			L	0 ē	
	cb1c9e0a-fe1f-4	HHTestSite001			L	• •	
	Total: 30	₩ test001	1		< 1 2 3 >	10 / Page	~
				Cancel			
2							

3. Click the **[Delete]** icon on the right if you do not wish to grant the permission of the selected site to the northbound user.

nivers EMS 🔷	+ Add User					Q. Search for use	mam	Ð
entral Monitor 🔍 👘	Identifie	-						
te Monitor 🛛 🗸	8478471	c-67be-4 Plant Management			×	l	0	
arm Management 🖂 🛂	04 ca4af29	-e907-4 Selectable List		Selected List 1	Clear All	l	0	Ó
stom Managam	40e76a	la-bdfb-4		Q. Search by site name		2	0	ē
1	2b47070	12-b291-		Test Site 004		l	0	ē
ant Management 🧹	a3834e	9-0cf3-4 • 📄 🗈 Installer Company				l	0	ē
A Upgrades	5cae380	• D InstallerAdminRegistration     • Et 0105	1			l	0	
rthbound Manage	64602a8	b-50ff-4 • D: u0118 2024 0118				l	0	Ô
	f6d193c	a-e748-4				l	0	Ō
	ca27d4a	b-c6ac ▶ □ 1company2024-02-02				l	0	
	cb1c9e0	a-fe1f-4				l	0	ē
	Total: 30	₩ jimmy 2.22				< 1 2 3 >	10	/ Page
		● ● Providing ●						
					Cancel OK			

4. Click **[OK]** to assign the plants permission to the northbound user.

### 2.8.4 Delete Northbound User

1. Scroll the window to the right and click the **[Delete]** icon to delete the northbound user.

Univers EMS	+ Add User					C, Search for usern	ame
Central Monitor ~		Identifier	Secret key		Description		Delete
		847a47fc-67be-4522-8e70-787d322259a9	4d823************************************	۲	create for user manual	L	0
Alarm Management v	2-04	ca4af29f-e907-4c8e-8f5d-77b0f3b5b8f5	2b144*******c1d	۲	smokeTest	L	⊙ <u>⊡</u>
Suctam Mananam 🗤		40e76a9a-bdfb-406c-aaf3-d1fe7fc063c5	b6f5b******404	۲	1111	L	•
Gystern managem	1	2b470702-b291-4f99-882e-4af245878fef	14d9e******aaf	۲	rebeccaOpenAPI01	2	0 1
Plant Management 🤟		a3834e79-0cf3-4449-83f5-979547a66130	98114*****eaa	0	Open API SA	L	0 ē
OTA Upgrades		5cae3805-e472-417d-b0c0-717dea65b16f	b7354******594	۲	test00001	2	0 ē
Northbound Manage		64602a8b-50ff-4eb4-b499-15062c14baec	c3d99******d22	۲	test1113_04	L	0 Ē
		16d193ca-e748-4b41-a472-0d2520b7b128	75105***********************************	0	test1113_03	L	0 🖻
		ca27d4ab-c6ac-4c7c-8cf2-9b6ae82fb2f3	25be7*******ebf	۲	test1113_02	L	⊙ <u>⊡</u>
		cb1c9e0a-fe1f-46b5-9008-a3584deda3be	43649*******c16	0	test1113_01	L	0 ē
	Total: 30					< 1 2 3 >	10 / Page 🗸
	· · · · · · · · · · · · · · · · · · ·						

2. Click the [Delete] button on the pop-up window to double confirm the deletion.

Univers EMS	+ Add User					Q Search for user	ame	1
Central Monitor 🛛 🗸		Identifier	Secret key		Description			
		847a47fc-67be-4522-8e70-787d322259a9	4d823******325	۲	create for user manual	L	0	Ō
Alarm Management 🗸 🗸	2-04	ca4af29f-e907-4c8e-8f5d-77b0f3b5b8f5	2b144***********************************	0	smokeTest	L	0	Ō
		40e76a9a-bdfb-406c-aaf3-d1fe7fc063c5	b6f5b******404	0	1111	L	٢	ē
System Managem V	1	2b470702-b291-4f99-882e-4af245878fef	14d9e*****aaf	٢	rebeccaOpenAPI01	L	0	Ō
Plant Management 👒		a3834e79-0cf3-4449-83f5-979547a66130	Delete Northbound Liser	×	open API SA	L	0	ē
OTA Upgrades		5cae3805-e472-417d-b0c0-717dea65b16f	Delete Northboding Oser	i.	rst00001	L	0	Ō
Northbound Manage		64602a8b-50ff-4eb4-b499-15062c14baec	cannot be recovered. Are you sure you want to de	na elete this	st1113_04	L	0	Ō
		f6d193ca-e748-4b41-a472-0d2520b7b128	user?		st1113_03	L	0	ē
		ca27d4ab-c6ac-4c7c-8cf2-9b6ae82fb2f3	Cancel	Delete	st1113_02	L	0	Ŭ
		cb1c9e0a-fe1f-46b5-9008-a3584deda3be	43649***********************************	0	test1113_01	2	0	ē
	Total: 30					< 1 2 3 >	107	Page ∨
	1							

3. The northbound user is then deleted.

## 2.9 Company & User Management

#### 2.9.1 Company Management

#### Pre-requisite: You are using a System Admin/Installer Admin/Installer account.

The application provides the module of multi-level company management, which can be flexibly supported by the multi-level distributor and installer model of overseas household savings. Company Management module is for System Admin and Installer Admin to manage the sub-companies. The user can create, edit, or delete a sub-company. The user is allowed to create up to four levels of sub-companies under the root node.

You can access the page by go to **[System Management]** and then **[Company and User Management].** The page will show a list of sub-companies that you have permission, together with the user list under the selected company.

Univers EMS							
🖵 Central Monitor 🗸	Q Search	Add User					Q, Enter A Keyword
Site Monitoring	■ parent_company	Username	Service provider T	Role T	Status	User Email	1 5
Device Monitoring	• 🗈 02_Edit	05	05edit	Installer admin	<ul> <li>Enabled</li> </ul>	05@maildrop.cc	20
🖄 Alarm Managem 🗸	ED 03	111000	Company03	Installer	Enabled	Hhj@11.com	_ ⊡ …
🖉 System Manage 🗠	• 🖬 Company02002	123213123123213123123	Company03	Installer admin	Enabled	121231123213@qq.com	20
Company and User	* 🗈 Company03	12323312213123123123123123	Company04	Users	Enabled	123312123123132@qq.com	_ ⊡ …
$\mathscr{O}$ System Configuration	- En Company04	123312123123	Trina	Installer	Enabled	123213213@ccc.com	2 茴 …
🛛 Plant Management 🗸 🗸	D 05edit	123312123123222	Company03	Installer admin	<ul> <li>Enabled</li> </ul>	233232@www.com	2 茴 …
Ф ОТА	En envisiont estAportalfe	123334	Company03	Users	Enabled	111@wwww.com	2 回 …
🛇 About	En ztgTest02	16364747474748484847374	3737474747747477774747474	Installer admin	Enabled	bhhheudufuie@yyy.com	∠ ⊡ …
	E Rebecca_demoU1	21321312312213123123123	Company03	Installer	Enabled	213213213213213222@qq.cor	n 2 ē …
		Total 98 Items				× 🕐 2	3 4 5 10 > 10/1

### 2.9.1.1 Create Sub-Company

You can create more sub-company if needed.

- 1. Hover your mouse over a parent company that you want to add the sub-company to and hover over the [...] button on the right of the company.
- 2. Click on [Add Sub-company] button.

Univers EMS		Add User					Q. Enter A Keyword
묘 Central Monitor ~	Q Search	Username	Service provider T	Role	Status	User Email	
Site Monitoring	parent_company	02	02_Edit	Installer admin	<ul> <li>Disabled</li> </ul>	02@163.com	2
Device Monitoring	• 🗈 02_Edit	05	05edit	Installer admin	<ul> <li>Enabled</li> </ul>	05@maildrop.cc	20
📩 Alarm Managem	ED 03	111000	Company03	Installer	• Enabled	Hhj@11.com	2
🔑 System Manage 🗠	En Company02002	123213123123213123123	Company03	Installer admin	<ul> <li>Enabled</li> </ul>	121231123213@qq.com	2
Company and User	• Ph. Company03	12323312213123123123123	Company04	Users	· Enabled	123312123123132@qq.com	2
C System Configuration	🐍 Add Sub-company	123312123123	Trina	Installer	Enabled	123213213@ccc.com	2
Plant Management ~	🖉 Edit Company	123312123123222	Company03	Installer admin	Enabled	233232@www.com	2 🗇 …
<b>©</b> OTA	Delete Company	123334	Company03	Users	Enabled	111@wwww.com	2
🗘 About	En ztgTest02	16364747474748484847374	3737474747747477774747474_	Installer admin	<ul> <li>Enabled</li> </ul>	bhhheudufuie@yyy.com	2 🖻 …
	H Rebecca_demoti	21321312312213123123123	Company03	Installer	Enabled	213213213213213222@qq.com	n 🖉 🗇 …
		Total 98 Items				< 🚺 2	3 4 5 10 > 10/1





3. Enter the **Company name**, **Username** and **User email**. This user account will automatically be installer admin for this company.

Univers EMS >	(	Add User				Add Sub-company
里 Central Monitor ~	Q Search					Parent company
Site Monitoring	★	Usemame 05	Service provider w	Role T Installer admin	Status     Enable	Company02002 ~
Device Monitoring	• 🗈 02_Edit	123213123123213123123	Company03	Installer admin	• Enable	* Company Name
🖄 Alarm Managem 👻	■ 03	12323312213123123123123123	Company03	Users	Enable	Please enter company name
System Manage ^	• En Company02002	123312123123222	Company03	Installer admin	Enable	* Username
Company and User	+ En Company03	123334	Company03	Users	Enable	Please enter usemame
System Configuration	★ En Company04	21321312312213123123123	Company03	Installer	Enable	User Email     Please enter User's email address
Plant Management	<ul> <li>D 05edit</li> <li>En envisiont estáportalfe</li> </ul>	Hhb	Company02002	Installer admin	Enable	Company Fmail
OP OTA	ED ztgTest02	Vib	Company02002	Users	Enable	Please enter company contact email
C About	En Rebecca_demo01	eee30	Company04	Users	Enable	Company Phone
		Total 42 liama				Please enter company contact phone number
		10(4) 42 115115				Company Website
						Please enter company website
						0.7 500
						Cancel Complete

4. Press the [Complete] button to create the sub-company.

Note: Maximum four levels of company are allowed.

#### 2.9.1.2 Delete Sub-Company

Pre-requisite: You only can delete a sub-company if there is no sub-companies, no users and no plants under this sub-company.

- 1. Hover your mouse over a company that you want to delete and hover over the [...] button on the right of the company.
- 2. Click on [Delete Company] button.

Univers EMS	14	Add User					Q. Enter A Keyword
묘 Central Monitor ~	Q Search					1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	
🖾 Site Monitoring	▼      parent_company	02	02_Edit	Installer admin	Disabled	02@163.com	2 亩 …
Device Monitoring	• 🗈 02_Edit	05	05edit	Installer admin	<ul> <li>Enabled</li> </ul>	05@maildrop.cc	1
효 Alarm Managem	En 03 En 22	111000	Company03	Installer	<ul> <li>Enabled</li> </ul>	Hhj@11.com	2
👂 System Manage 🗠	► Fh Company02002	123213123123213123123	Company03	Installer admin	Enabled	121231123213@qq.com	2 🗇 …
Company and User	• Ph Company03	12323312213123123123123	Company04	Users	Enabled	123312123123132@qq.com	2
$\mathscr{O}$ System Configuration	🐍 Add Sub-company	123312123123	Trina	Installer	Enabled	123213213@ccc.com	∠ ⊡ …
Plant Management ~	🖉 Edit Company	123312123123222	Company03	Installer admin	<ul> <li>Enabled</li> </ul>	233232@www.com	2 🗇 …
Φ ΟΤΑ	Delete Company	123334	Company03	Users	Enabled	111@www.com	2
Ø About	En ztgTest02	16364747474748484847374	3737474747747477774747474	Installer admin	<ul> <li>Enabled</li> </ul>	bhhheudufuie@yyy.com	2 🗇 …
	Rebecca_demo01	21321312312213123123123	Company03	Installer	Enabled	213213213213213222@qq.com	2
		Total 98 Items				< 🚺 2 - 3	4 5 10 > 10/1

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3. Press [Delete] on the pop-up window to confirm the deletion.

#### 2.9.1.3 Edit Sub-Company

- 1. Hover your mouse over a company that you want to edit and hover over the [...] button on the right of the company.
- 2. Click on [Edit Company] button.

Univers EMS		Add User					O Enter & Kerword
🖳 Central Monitor 🗸 🗸	Q Search				2		
Site Monitoring	▼	02	02_Edit	Role T	Disabled	02@163.com	2 亩 …
Device Monitoring	• 🗈 02_Edit	05	05edit	Installer admin	<ul> <li>Enabled</li> </ul>	05@maildrop.cc	2 🖻 …
拉 Alarm Managem	E 03	111000	Company03	Installer	Enabled	Hhj@11.com	2
👂 System Manage 🗠	• En Company02002	123213123123213123123	Company03	Installer admin	Enabled	121231123213@qq.com	_ ⊡ …
Company and User	• Ph Company03	12323312213123123123123123	Company04	Users	<ul> <li>Enabled</li> </ul>	123312123123132@qq.com	2
$\mathscr{O}$ System Configuration	🐍 Add Sub-company	123312123123	Trina	Installer	Enabled	123213213@ccc.com	₫
Plant Management ~	🖉 Edit Company	123312123123222	Company03	Installer admin	Enabled	233232@www.com	₫ …
Φ ΟΤΑ	Delete Company	123334	Company03	Users	Enabled	111@wwww.com	2
Ø About	ztgTest02	16364747474748484847374	3737474747747477774747474_	Installer admin	<ul> <li>Enabled</li> </ul>	bhhheudufuie@yyy.com	2
	En Rebecca_demout	21321312312213123123123	Company03	Installer	Enabled	213213213213213222@qq.com	2
		Total 98 Items				< 1 2 3	4 5 10 > 10/1

3. You can edit the company information such as the company name, email, phone, website, address and invitation code. Parent company is not editable.

Univers EMS >	(	Add User			0	Edit Company
Central Monitor	Q Search				-	Parent company
LE Site Monitoring	* En parent_company	Usemame	Service provider	Testalles admin	Status	Company04
Device Monitoring	• 🗈 02_Edit		00600	instaner aurtain	• Enable	* Company Name
📩 Alarm Managem	Eb 021	Total 1 Items				05edit
System Manage ^	ED 03					Company Email
Company and User	E 22					Company Email
System Configuration	• En Company02002					Company Phone
🐼 Plant Management 🖂	★ En Company04					Company Phone
<b>62</b> OTA	D 05edit					Company Website
🕅 About	• 🗈 envisiont estAportaif					Company Website
↓ About	Eb ztgTest02					
						0 / 500
						Company Address
						Company Address
						Cancel Complete

4. Press [Complete] to save the changes.

#### 2.9.2 User Management

#### Pre-requisite: You are using a System Admin/Installer Admin/Installer account.

User Management page is designed for Admin, Installer Admin and Installer to manage the user accounts under his/her authority. This involves creating, deleting, and disabling a user account or reset password for a user account. Distinct roles have different management permissions:

- System Admin: can manage Installer Admin, Installer and End User accounts.
- Installer Admin: can manage Installer and End User accounts.
- Installer: Installer could manage End User accounts.

You can access the page by go to **[System Management]** and then **[Company and User Management].** The page will show a list of sub-companies that you have permission, together with the user list under the selected company.

Univers EMS		Add User					Q. Enter A Keyword
🖳 Central Monitor 🛛 🗸	Q Search						
🖾 Site Monitoring	▪ 🗈 1 parent_company	Usemame 02	02_Edit	Role W	Disabled	User Email 02@163.com	20
Device Monitoring	• D 02_Edit	05	05edit	Installer admin	Enabled	05@maildrop.cc	2 亩 …
☆ Alarm Managem	ED 021	111000	Company03	Installer	<ul> <li>Enabled</li> </ul>	Hhj@11.com	2
👂 System Manage 🗠	ED 22	123213123123213123123	Company03	Installer admin	Enabled	121231123213@qq.com	之 卣 …
Company and User	- En Company02002	12323312213123123123123	Company04	Users	Enabled	123312123123132@qq.com	2 🗇 …
C System Configuration	- En Company03	123312123123	Company03	Installer	<ul> <li>Enabled</li> </ul>	123213213@ccc.com	∠ ⊡ …
Plant Management ~	▼ En Company04	123312123123222	Company03	Installer admin	<ul> <li>Enabled</li> </ul>	233232@www.com	2 亩 …
Ο ΟΤΑ	D 05edit	123334	Company03	Users	Enabled	111@wwww.com	2
O About	envisiont estAportalf	16364747474748484847374	3737474747747477774747474	Installer admin	<ul> <li>Enabled</li> </ul>	bhhheudufule@yyy.com	2
	En ztglest02	21321312312213123123123	Company03	Installer	<ul> <li>Enabled</li> </ul>	213213213213213222@qq.cor	n 🖉 🗇 …
		Total 98 Items				< 🕚 2	3 4 5 ••• 10 > 10/

#### 2.9.2.1 User Account Creation through Management Page

For accounts already added in the App Portal Console, our system will automatically integrated their accounts in our application.

≡ EnOS	м.				🖾 🗘 hossain admin 🕶
Univers EMS	Company: Wholesale Plumber 🗸 🗸	O Synchronize Asset Tree			Add User
Home Page	Add User				User email     Please enter the email address
🖳 Central Monitoring 🗸 🗸	Username	User Email	Role	T Service provider	
🖾 Site Monitoring	000825	0825@163.com	Installer admin	Plant01	* Username Please enter the username
Device Monitoring	04	04@163.com	System admin	Wholesale Plumt	
R O&M Management v	0520	0520@maildrop.cc	System admin	Wholesale Plumb	* Role Please select
	0521	0521@163.com	System admin	Wholesale Plumt	
Device Management	06	06@163.com	System admin	Wholesale Plumb	* Service provider Wholesale Plumber
Company and User Mgt	0614_test337	0614_test33701@163.com	Installer admin	0614_test337	entronosouro e tornaso.
🗄 Message Center 🗸 🗸	0614_test346	0614_test34601@163.com	Installer admin	0614_test346	I have obtained the owner's authorization.
Help and Feedback	0614_test348	0614_test34801@163.com	Installer admin	0614_test348	
	0614_test349	0614_test34901@163.com	Installer admin	0614_test349	
□ more ~	0614_test351	0614_test35101@163.com	Installer admin	0614_test351	
About	Total 2312 Items				
					Cancel Complete

1. Click **[Add User]** button on the top of the user list.

- 2. User email: enter the user's **email** address. If the user's email has been already registered in App Portal Console, it will auto populate the username corresponding to the email address and the username is uneditable. If the user's email has not been registered, the account will be created here, no need to add the account again in App Portal Console.
- 3. Username: enter the **Username** for the user.
- 4. Role: select [Installer Admin]/[Installer]/[End User].
- 5. Service provider: select company this user belongs to
- 6. Check the **[box]** to consent that you have obtained the owner's authorization.
- 7. Press the [Complete] button to create the account.

#### 2.9.2.2 User Account Deletion

1. Choose a user account that you wish to delete and click on the **[Delete]** button on the right hand side of the account.

Univers EMS	frances 1	Add User					Q. Enter A Keyword
🖳 Central Monitor 🗸	Q Search	Usemame	Service provider T	Role T	Status	User Email	
Site Monitoring	▪ 🗈 1 parent_company	02	02_Edit	Installer admin	Disabled	02@163.com	20
Device Monitoring	- ► 02_Edit	05	05edit	Installer admin	<ul> <li>Enabled</li> </ul>	05@maildrop.cc	2 🗇 …
ත් Alarm Managem 🗸 🗸	Eb 021	111000	Company03	Installer	<ul> <li>Enabled</li> </ul>	Hhj@11.com	2 11
& System Manage A	EI 03	123213123123213123123	Company03	Installer admin	Enabled	121231123213@qq.com	2 亩…
Company and User	The Company02002     Company020     Company020     Company020     Company020     Company020     Com	12323312213123123123123	Company04	Users	Enabled	123312123123132@qq.com	2
$\mathscr{O}$ System Configuration	▼	123312123123	Company03	Installer	<ul> <li>Enabled</li> </ul>	123213213@ccc.com	∠ ⊡ …
Plant Management ~	- En Company04	123312123123222	Company03	Installer admin	Enabled	233232@www.com	∠ ⊡ …
<b>O</b> TA	D 05edit	123334	Company03	Users	<ul> <li>Enabled</li> </ul>	111@wwww.com	2
Ø About	envisiont estAportalf	16364747474748484847374	3737474747747477774747474	Installer admin	Enabled	bhhheudufuie@yyy.com	∠ ⊡ …
	E Ztglestu2	21321312312213123123123	Company03	Installer	<ul> <li>Enabled</li> </ul>	213213213213213222@qq.con	」 ∠ 茴 …
		Total 98 Items				< 1 2	3 4 5 ••• 10 > 10/

2. Press [Delete] on the pop-up window to confirm the deletion.

### 2.9.2.3 User Account Disabling

1. Choose a user account that you wish to disable, hover onto the [...] button on the right hand side of the account and click [Disable account].

Univers EMS		Add User					Q. Enter A Keyword
모 Central Monitor ~	Q Search	Heamanna	Canilos provider T	Polo T	Chatrine	Liene Consil	
Site Monitoring	■ 1 parent_company	02	02_Edit	Installer admin	<ul> <li>Disabled</li> </ul>	02@163.com	Disable account
Device Monitoring	•	05	05edit	Installer admin	Enabled	05@maildrop.cc	O Reset password
🖄 Alarm Managem	En 021	111000	Company03	Installer	Enabled	Hhj@11.com	2 11
👂 System Manage 🗠	Eb 03	123213123123213123123	Company03	Installer admin	<ul> <li>Enabled</li> </ul>	121231123213@qq.com	20
Company and User	• En Company02002	12323312213123123123123	Company04	Users	Enabled	123312123123132@qq.com	2
System Configuration	- En Company03	123312123123	Company03	Installer	Enabled	123213213@ccc.com	∠ ⊡ …
Plant Management ~	▼ En Company04	123312123123222	Company03	Installer admin	<ul> <li>Enabled</li> </ul>	233232@www.com	∠ 亩 …
😋 οτα	E 05−−edit	123334	Company03	Users	Enabled	111@wwww.com	₫ …
Ø About	envisiont estAportalf	163647474748484847374	3737474747747477774747474	Installer admin	<ul> <li>Enabled</li> </ul>	bhhheudufuie@yyy.com	2 🖬 …
	EI Zigresioz	21321312312213123123123	Company03	Installer	<ul> <li>Enabled</li> </ul>	213213213213213222@qq.con	• ∠ ⊡ …
		Total 98 Items				< 🚺 2	3 4 5 10 > 10/

- 2. You will see the status of the account became 'Disabled'.
- 3. To enable the account, perform the same steps.

#### 2.9.2.4 Password Resetting

1. Choose a user account that you wish to reset the password, hover onto the [...] button on the right-hand side of the account and click [Reset password].

Univers EMS		AddUser					O Enter & Keyword
🖳 Central Monitor 🗸 🗸	Q Search						S. Ditter Hintymore
🖾 Site Monitoring	• ☐ ] parent_company	Usemame 02	Service provider T 02_Edit	Role T	Status     Disabled	User Email 02@163.com	Disable account
Device Monitoring	- • • 02_Edit	05	05edit	Installer admin	<ul> <li>Enabled</li> </ul>	05@maildrop.cc	O Reset password
📩 Alarm Managem	En 021	111000	Company03	Installer	<ul> <li>Enabled</li> </ul>	Hhj@11.com	2 =
👂 System Manage 🗠	En 22	123213123123213123123	Company03	Installer admin	<ul> <li>Enabled</li> </ul>	121231123213@qq.com	2 亩 …
Company and User	- En Company02002	12323312213123123123123123	Company04	Users	<ul> <li>Enabled</li> </ul>	123312123123132@qq.com	₫
$\mathscr{O}$ System Configuration		123312123123	Company03	Installer	Enabled	123213213@ccc.com	∠
Plant Management ~	★ En Company04	123312123123222	Company03	Installer admin	<ul> <li>Enabled</li> </ul>	233232@www.com	_ ⊡ …
<b>O</b> OTA	D 05edit	123334	Company03	Users	<ul> <li>Enabled</li> </ul>	111@wwww.com	₫ …
Ø About	envisiont estAportalf	16364747474748484847374	3737474747747477774747474	Installer admin	• Enabled	bhhheudufuie@yyy.com	2 @
	EI Zigresioz	21321312312213123123123	Company03	Installer	<ul> <li>Enabled</li> </ul>	213213213213213222@qq.cor	n ē …
		Total 98 Items				< 🚺 2	3 4 5 ••• 10 > 10/

2. A password reset email will be sent to this user's email.

#### 2.9.2.5 User Account Editing

1. Choose a user account that you wish to edit and click on the **[Edit]** button on the righthand side of the account.

Univers EMS		Add User					O Enter & Keyword
🖳 Central Monitor 🗸	Q Search						St Ener Alleyhold
🖾 Site Monitoring	• D parent_company	Username 02	Service provider T 02_Edit	Role T	Disabled	User Email 02@163.com	20
Device Monitoring	▼ 🗈 02_Edit	05	05edit	Installer admin	Enabled	05@maildrop.cc	20
📩 Alarm Managem	ED 021	111000	Company03	Installer	<ul> <li>Enabled</li> </ul>	Hhj@11.com	2
👂 System Manage 🗠	Eb 22	123213123123213123123	Company03	Installer admin	Enabled	121231123213@qq.com	₫ …
Company and User	- En Company02002	12323312213123123123123123	Company04	Users	<ul> <li>Enabled</li> </ul>	123312123123132@qq.com	∠ ⊡ …
$\mathscr{O}$ System Configuration	- En Company03	123312123123	Company03	Installer	Enabled	123213213@ccc.com	∠ ⊡ …
Plant Management ~	▼ 🗈 Company04	123312123123222	Company03	Installer admin	<ul> <li>Enabled</li> </ul>	233232@www.com	2 🖻 …
<b>O</b> OTA	D 05edit	123334	Company03	Users	<ul> <li>Enabled</li> </ul>	111@wwww.com	∠ ⊡ …
🛇 About	envisiont estAportalf	16364747474748484847374	3737474747747477774747474	Installer admin	<ul> <li>Enabled</li> </ul>	bhhheudufuie@yyy.com	∠ ⊡ …
	En zigiestuz	21321312312213123123123	Company03	Installer	Enabled	213213213213213222@qq.com	∠ ⊡ …
		Total 99 Items				< 🚺 2 - 3	4 5 *** 10 > 10/F

2. You could edit the company and the plant for the user.



Univers EMS		Add User			8	Edit user
Central Monitor	Q search	Usemame	Service provider 🖤	Role *	Status	* Service provider
🖾 Site Monitoring	★ B parent_company	02	02_Edit	Installer admin	<ul> <li>Disable</li> </ul>	Company04 v
Device Monitoring	▼	05	05edit	Installer admin	Enable	* Role
😰 Alarm Managem 👻	En 021	111000	Company03	Installer	• Enable	Users
👂 System Manage 🗠	En 22	123213123123213123123	Company03	Installer admin	• Enable	* Username
Company and User	→ En Company02002	12323312213123123123123123	Company04	Users	Enable	12323312213123123123123
System Configuration		123312123123	Company03	Installer	Enable	* User email
Plant Management ~	➤ En Company04	123312123123222	Company03	Installer admin	Enable	123312123123132@qq.com
<b>O</b> OTA	D 05edit	123334	Company03	Users	Enable	* Related Plant
About	envisiont estAportalf	163647474748484847374	3737474747747477774747474	Installer admin	Enable	Selected (1) Please Select
	En zigrestoz	21321312312213123123123	Company03	Installer	Enable	I have obtained the owner's authorization.
		Total 99 Items				
						Cancel Complete

3. Tick the box after you have obtained the owner's authorization and press **[Complete]** to save the changes.

### 2.9.3 System Configuration

Pre-requisite: You are using a system admin account.

Go to **[System Management]** – **[System Configuration]**, you can edit your company's basic information here.

≣	EnOS			 ¢	hossain.admin 🔻
Un	ivers EMS	>	Company Information		
막	Central Monitor	*	Contact Number		
E	Site Monitoring		a:		
ē	Device Monitoring		Email		
Ŕ	Alarm Managem	*	Company Website		
ß	System Manage	<b>^</b>	-		
Ī	Company and Use	er	Company Address		
4	System Configurat	tion			
Ø	Plant Management	. M.			
Ŷ					
Ø	About				
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## 2.10 System Management

#### 2.10.1 Edit User Information

In personal settings, you could edit your own phone number information.

- 1. Click on the **[Change]** button besides the mobile number.
- 2. Choose your country code and enter your phone number.
- 3. Click [OK] to save.

Univers EMS	User_name	
Central Monitor ~	user@email.com	
Site Monitor	User Information	
Alarm Managem 🗵	Mobile Phone	+86 17777777777 Change
System Manage	Basic Settings	
Company and Us	Temperature Settings	Centigrade Degree("C) Shhrenheit Degree("F)
System Config.		Temperature related indicators and device monitoring data will be calculated and displayed in the selected unit.
Personal Settings	Account Deletion	
Plant Management 🗸	Account Deletion	Apply for Account Deletion
OTA Upgrades		After account deletion, it cannot be retrieved. Please operate with caution.
WeCo Battery OTA		
Device Provisioning		
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### 2.10.2 Temperature Setting

You could configure the temperature unit by choosing Centigrade degree or Fahrenheit degree to calculate and display the temperature related indicators and device monitoring data in the selected unit.

Univers EMS	User_name		
Site Monitor V	User Information	+86 1777777777 Change	
System Manage	Basic Settings		
Company and Us	Temperature Settings	Centigrade Degree(*C) Fahrenheit Degree(*F)  Temperature related indicators and device monitoring data will be calculated and displayed in the selected unit.	
Personal Settings	Account Deletion		
Plant Management 🖂	Account Deletion	Apply for Account Deletion	
OTA Upgrades		① After account deletion, it cannot be retrieved. Please operate with caution.	
WeCo Battery OTA			
Device Provisioning			
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#### 2.10.3 Account Deletion

You could delete your own user account by clicking the **[Apply for Account Deletion]** button.

Univers EMS	User_name	
Central Monitor 🗸 🗸	user@email.com	
Site Monitor V	User Information	
Alarm Managem 🗸	Mobile Phone	+86 1777777777 Change
System Manage	Basic Settings	
Company and Us	Temperature Settings	Centigrade Degree("C) O Fahrenheit Degree("F)
System Config.		O Temperature related indicators and device monitoring data will be calculated and displayed in the selected unit.
Personal Settings	Account Deletion	
Plant Management 🗸	Account Deletion	Apply for Account Deletion
OTA Upgrades		① After account deletion, it cannot be retrieved. Please operate with caution.
WeCo Battery OTA		
Device Provisioning		
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Read the account deletion notice carefully, after you have deleted your account, you are not able to use this account anymore and all the related data will be deleted.

Click on the box to agree with the account deletion notice and click [Apply for deletion].

Univers EMS	Basic Settings / Account Deletion
Central Monitor 🛛 🗸	Apply for Account Deletion
Site Monitor 🛛 😔	Please read, understand, and accept our account "Deletion Notice" before permanently deleting your MyNex account. If you do not agree with any part of this "Deletion Notice", please stop the account deletion procedure immediately.
Alarm Managem	Account deletion is permanent and cannot be reversed. We recommend that you make a backup copy of all information associated with your account and ensure that all services associated with your account have been properly attended. Once you delete your account, we will delete your personal information, content, and information saved in or associated with this account (except in cases required by national laws, regulations, rules,
System Manage 🗠	government policies, orders, etc., or required to perform our contractual or compliance obligations).
Company and Use	You will no longer be able to access this account, or retrieve any content or information saved in or associated with this account (this is true even if you use the same personal details to register for a new MyNex account again).
System Config.	1. Please confirm your account status below before you proceed with account deletion. a You are the authorized party to raise a request to delete your account
Personal Settings	b. Your account is in a normal state, not subject to ongoing complaints, disputes, penalties, and no payment in arrears. c. There are no uncompleted orders or services tied to your account.
Plant Management 👒	d. The deletion of your account will not infringe the legitimate rights and interests of any third party.
OTA Upgrades	2. Upon completion of account deletion, the circumstances including but not limited to the following will apply: a. You will not be able to log in to ruse this account, and you will not be able to retrieve any content or information related to the account. b. You will not be able to retrieve any personal information or activity associated with this account, including but not limited to your profile photo, username, email, access rights, and support ticket history.
WeCo Battery OTA	c. You understand and accept that:
Device Provisioning	L wynex win not be able to assist you win an account recovery request.
Help and Feedback 🔗	
About	I agree with the above, voluntarily give up all rights and interests in the account, and no longer accept the corresponding services of the account.
	Apply for Deletion