

Item	Meritek IoT Manual	Date	2024/03/11	Version	1.9
				Page	75



MERITEK IoT Cloud Service Manual

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1. Summary

To connect to a remote device via a network, complex setups are often required to obtain HMI or PLC device data. Even if all settings were configured properly, there will be many online restrictions and data security problems, resulting in inefficient and inconvenient use of the system. Meanwhile, also because of the high cost of construction etc., users may finally abandon this function. The MERITEK IoT cloud service platform provides a solution to make it easier.

MERITEK IoT offers a new solution of HMI and PLC remotely monitoring named "iMonitor". As long as the devices can connect to the Internet, users can easily get the data on the devices, simultaneously monitor and access multiple devices and receive real-time data, system alarms, data log which are useful for remotely debugging. The communication security also has a professional security encryption mechanism, so that the operation and access to equipment information has effective protection. With these functions above, user does not need to make any network settings.

MERITEK IoT also provides iAccess remote maintenance. When the device is in a foreign country far away, maintenance personnel do not need to spend a lot of traffic and travel there and do troubleshooting on site. With iAccess, you can easily connect to the device, download program and debug on line. In addition, iAccess and MERITEK HMI Pass Through function are perfectly integrated, users can directly monitor PLC data and update PLC program through iAccess, and can also operate the HMI at the same time without interruption.

1.1 Feature

Traditionally, remote connection to a network device requires understanding the surrounding network environment and settings, which may involve configuring routers or firewalls. There may also be restrictions where a single WAN IP can only be assigned to one device. Moreover, in overly complex network environments, individually configuring each device might become impractical.

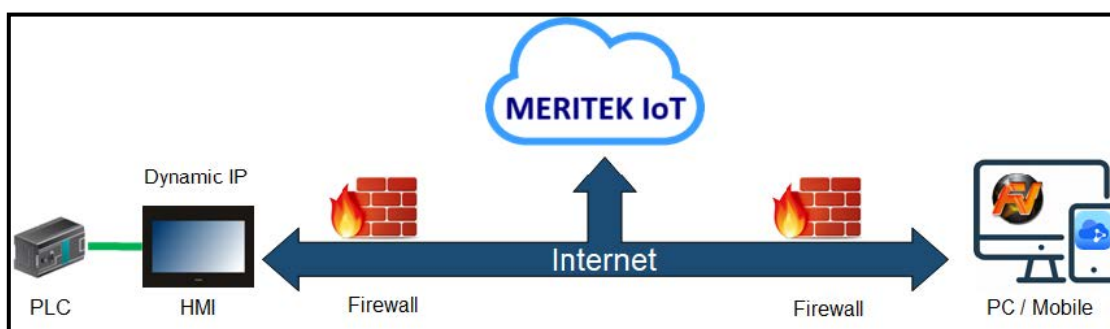
MERITEK IoT offers two main services: "iMonitor" and "iAccess." When connected to the internet, users only need to perform simple device configurations to easily monitor device data. Although the two services have slightly different application scenarios, users can plan the cloud service system according to their needs, and both services can be used simultaneously without conflicts. Additionally, the "iLocation" feature is provided, which displays the device's location on Google Maps.

Select the scenarios and features of the iMonitor:

- There are multiple HMIs and PLCs scattered in different areas and the data on these devices should be monitored at the same time.
- Set alarm conditions to specific register address, if conditions are met then SMS or email can be sent to the user admin for on-site troubleshooting.
- If you want to analyze the time or the data changes, record the data and acquire the system status through the historic trend.
- No need to redownload the HMI project, can configure and modify the register address through browser.
- Adjustable device returning time interval or return when changed, can reduce the use of network bandwidth.
- GPS location information can be set on the device, and the MERITEK IoT can be logged in through the browser to view the distribution location of the device.

Select the scenarios and features of the iAccess:

- There is a requirement to change the application of the program, to use remote maintenance or update system functions.
- Monitor specific single device data in real time and support real time trend analysis.
- GPS location information can be set on the device, and the MERITEK IoT can be logged in through the browser to view the distribution location of the device.



1.2 Device Hardware Requirements

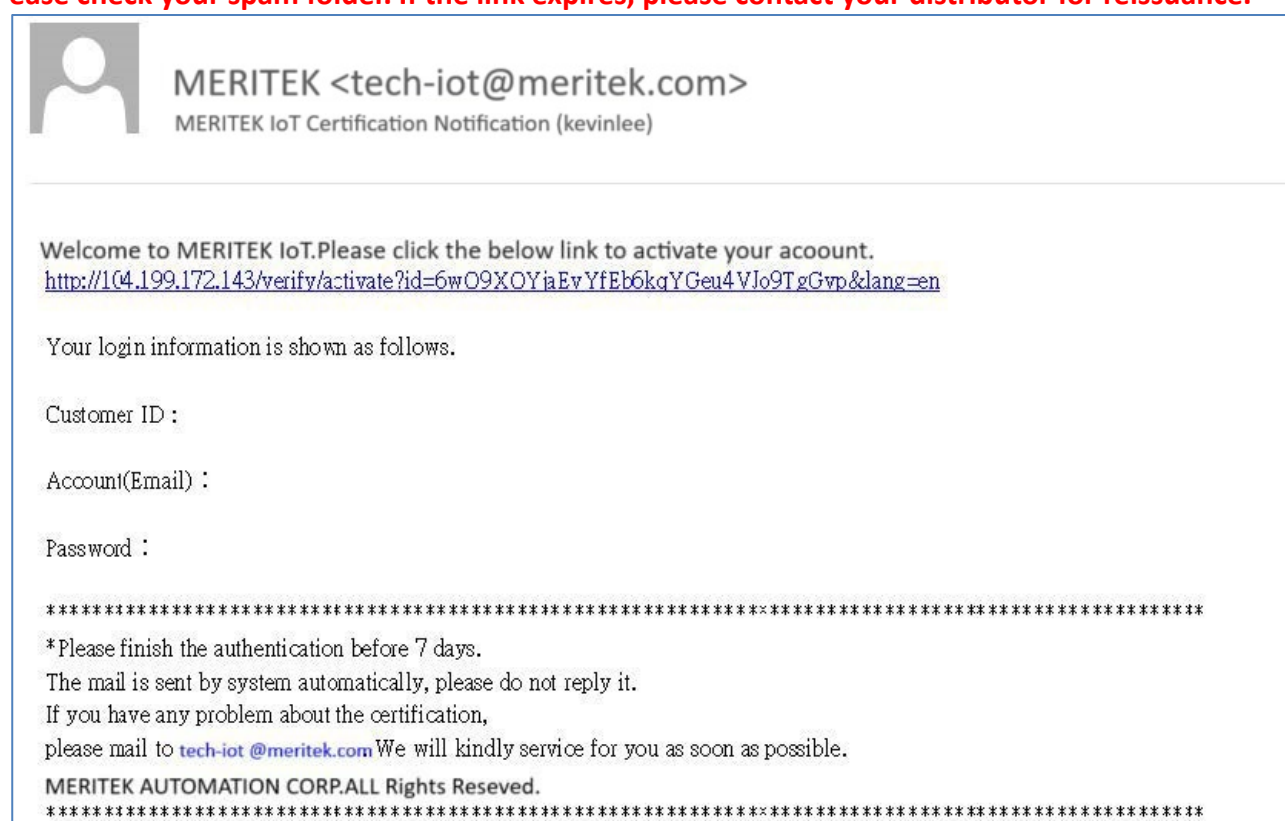
Category	Product	Notes
HMI	P5 Series, P2K Series	OS 2.0.10 or above/Firmware v1.6.24 or above
MBs Series	CMWLC, CBES	

2. Activation Process

Before using the MERITEK IoT service, please request an application form from your distributor. Once you receive the activation confirmation, you can start using the service.

Web	MERITEK IoT (GCP)	https://meritekcloud.net
Web	MERITEK IoT (Alibaba Cloud)	https://meritekiot.cn
App	Google Play	https://play.google.com/store/apps/
App	App Store	https://apps.apple.com/tw/app/meritek-iot/id1453667290

Upon receiving the email, please click the link within 7 days. If you haven't received the email, please check your spam folder. If the link expires, please contact your distributor for reissuance.



2.1 HMI Setting

MERITEK HMI supports the use of both "iMonitor" and "iAccess." Below is an overview of the device login process:

Step 1.

To access the system settings of the HMI and navigate to the "Server/IoT" page, follow these steps:



Step 2.

Switch to the IoT tab and check the box for "Enable IoT Services."

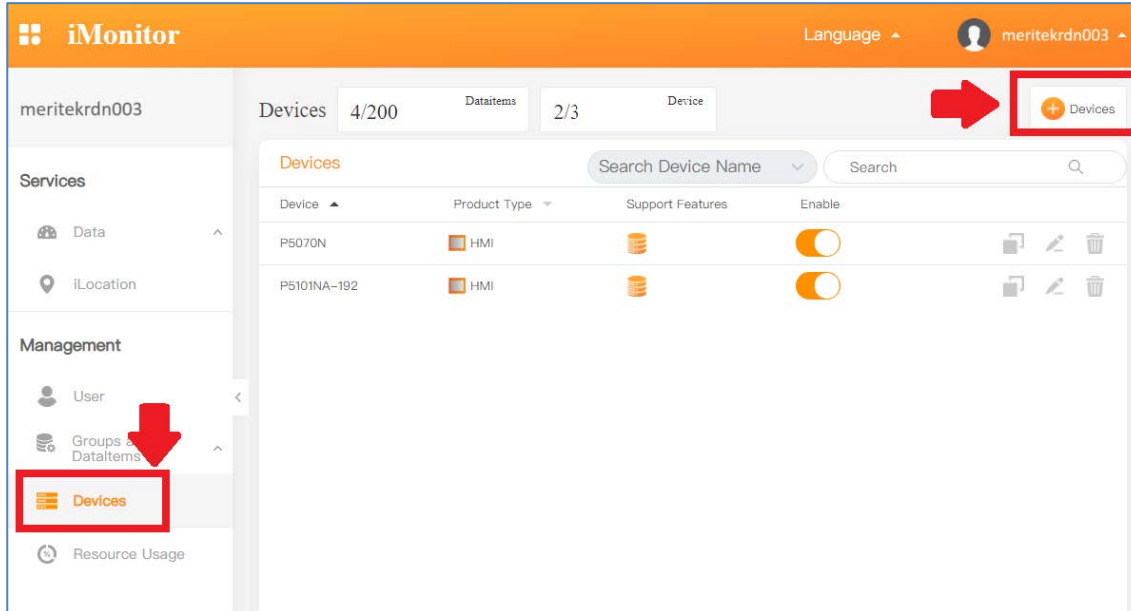


Step 3.

You need to input the HWID on the web and the LID on the HMI. Here are two methods to do so.

2.1.1 Manually

After logging into the webpage, click on "Devices" then select "Add New"



Here, you need to enter the "Name", choose the "Product type", input the "Service password", and enter the "Hardware ID". After filling out these fields, you need to click "Save" at the bottom of the webpage.

- ◆ Service Password : Should match the one entered on the HMI.
- ◆ Hardware ID : The HWID displayed on the HMI.

*** Name**

*** Product Type**

*** Service Password**

*** Hardware ID**

Description A

Description B

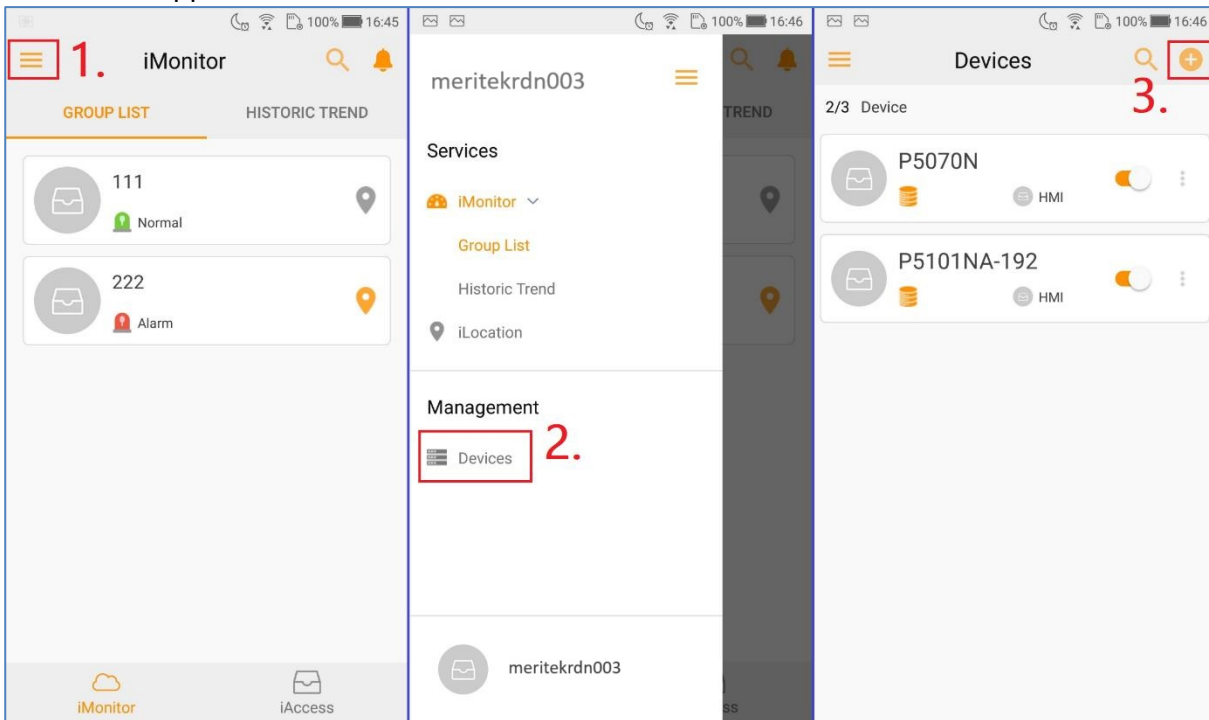
Back on the HMI, to use the iAccess feature, you need to purchase an "LID" (License ID). Upon purchase, you will receive either a physical product or an email containing a serial number. Once you have the serial number, please check the box for "Enable iAccess" and input the LID.

- ◆ Once activated, the LID will bind to the HWID and cannot be used with other HMIs. °
- ◆ The LID does not need to be entered on the webpage.

The screenshot shows the 'Servers/IoT' configuration window. At the top, there are 'Cancel' and 'OK' buttons. The main section is titled 'Servers/IoT'. Below this, there is a checkbox labeled 'Enable IoT Services (iMonitor/iAccess)' which is checked. Under this checkbox, there are several fields: 'Host' with the value 'meritekcloud.net', 'HWID' with the value 'FE2308B7-8F12-4837-823D-44E9695A01E8', 'Service Password' with the value '****', and 'LID' with the value 'YK6DDMEMTFT5QXGUCFSQF4HTNY'. The 'LID' field is highlighted with a red rectangle. Below the 'LID' field, there is a checkbox labeled 'Enable iAccess' which is checked. Below this, there is a checkbox labeled 'Enable iAccess Viewer' which is unchecked, with the text '(It depends on your LID supports.)' below it. At the bottom of the main section, there is a checkbox labeled 'Mask Passwords' which is checked. Below the main section, there are four tabs: 'FTP', 'VNC', 'Pass Through', and 'IoT'. The 'IoT' tab is currently selected.

2.1.2 Using the App

Open the app and follow the steps shown in the image below. Click on the specified step, and the camera will appear.

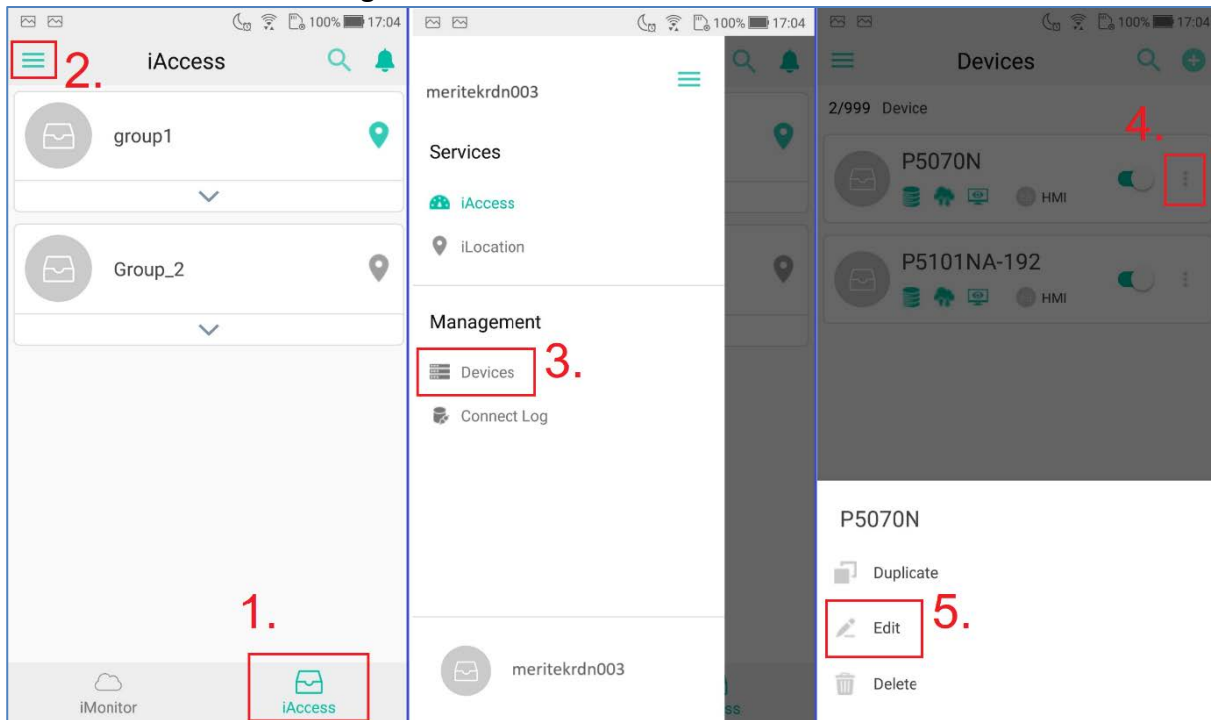


After entering the "Service Password" on the IoT page, click on the image on the right side. It will generate a QR code. Please scan it using the app.

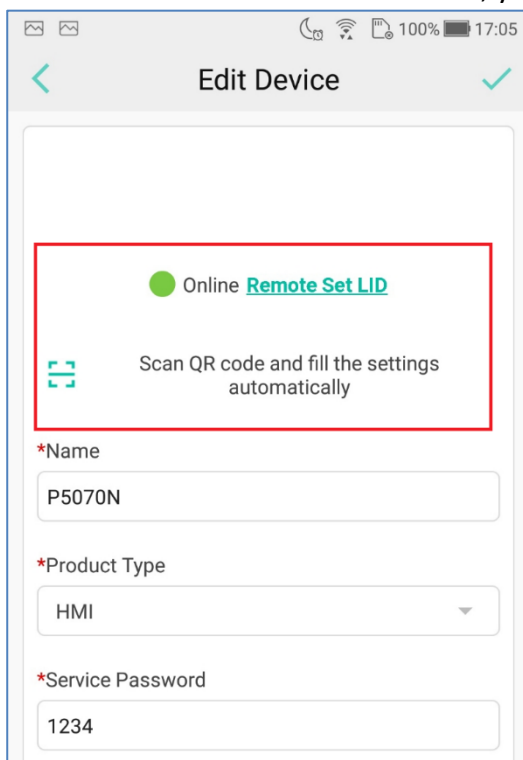


After scanning is complete, press "OK" in the top right corner of the HMI to save. The app will automatically fill in the HWID, Service password, and Product type. After entering the Name, click on the checkmark in the top right corner to add this device.

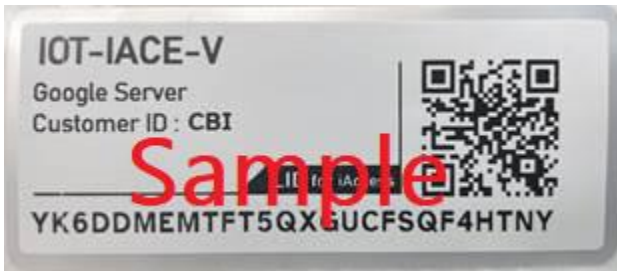
When adding an LID, **you need to switch to the iAccess Page**. Once in the iAccess device library, click on the device on the right side to edit it.



When the device is in an online state, you can click on "Remote Set LID."

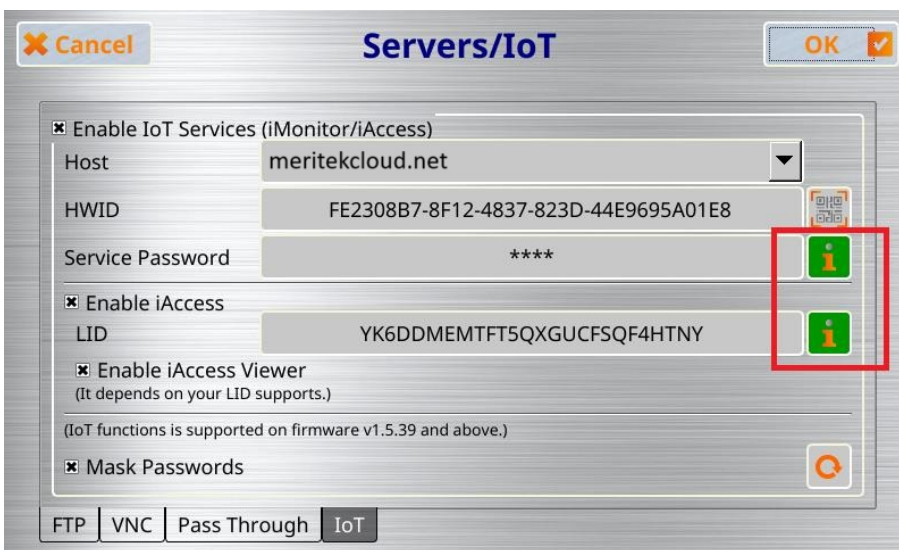


Scanning the QR code on the physical product will automatically input the LID into the HMI.



Step 4.

Check the IoT page if a green icon. A green icon indicates that the connection is normal, while a red icon indicates an abnormality. You can click on the icon to view error messages.



2.2 MBs-CMWLC Setting

Step 1.

【IoT Service】: Select the service and set up the password

Device Setting

System Device Server IoT Services

☒ iMonitor

Server meritekcloud.net

Password ●●●

Step 2.

【Diagnostics】→【Information】, write down the HWID and enter it later when the web terminal creates the device.

HWID 48I [Masked]

iMonitor Status Connecting

2.3 MBs-CBES Setting

Step 1.

【IoT Service】 setting, write down the HWID and enter it later when the web terminal creates the device.

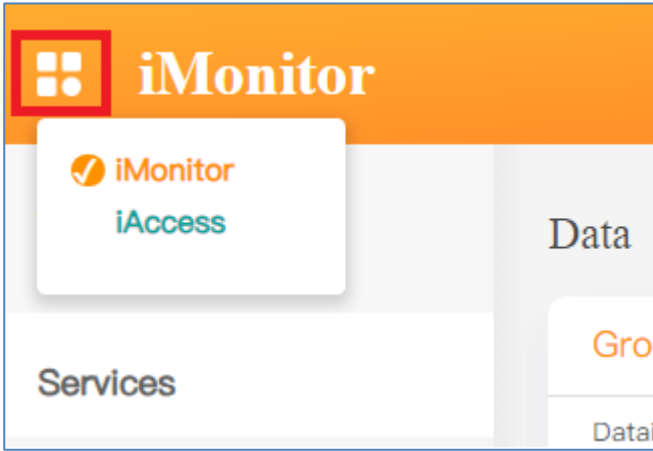
Step 2.

-Select the service and set up the password.

Parameter	Value
HWID	66A [Masked]
iMonitor Status	Connecting
⌵ iMonitor	
Enable/Disable	Enabled
Server	meritekcloud.net
Password	●●●

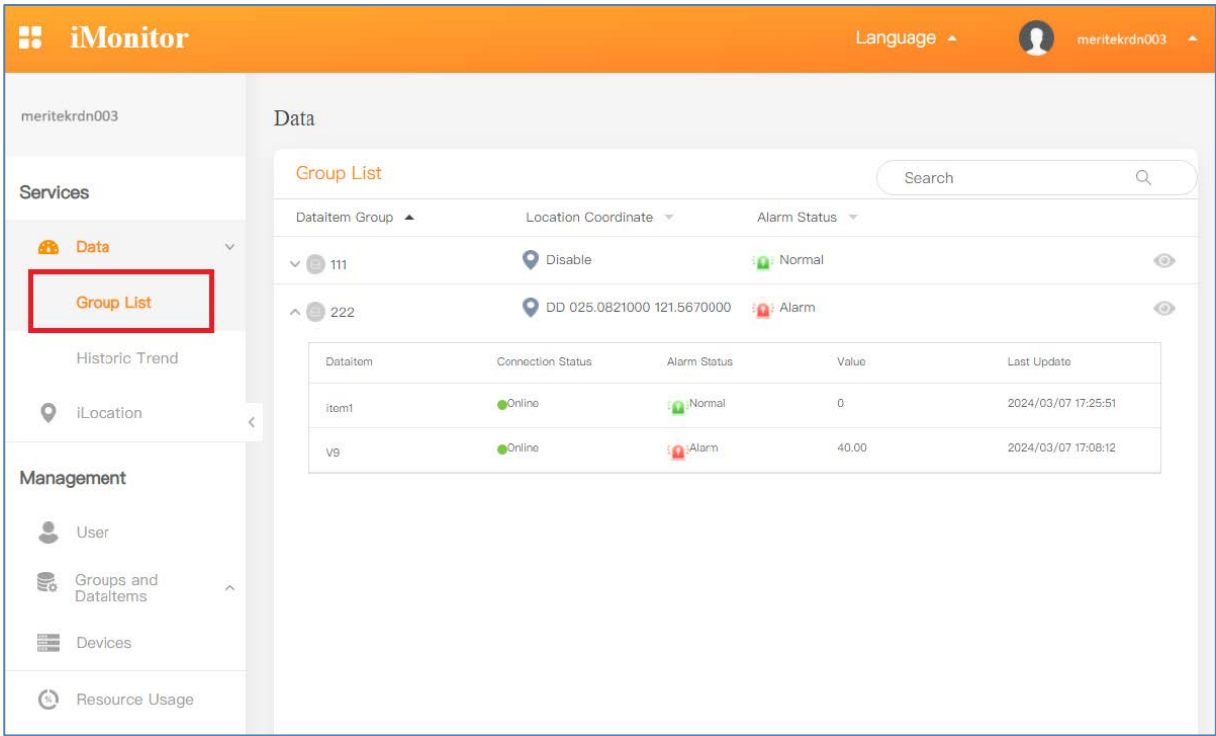
3. Services

The website will only display the purchased features.
You can switch functions through the menu in the top left corner.



3.1 【iMonitor】

3.1.1 Group List



Item	Describe	
Dataitem Group	Display the name of the Dataitem group.	
Location Coordinate	Display the GPS coordinates of the device's location.	
Alarm Status	Alarm 	An alarm has occurred.
	Normal 	Status is normal, no alarms have occurred.
Dataitem	The name of the data item.	

Connection Status	Online	The device is connected to MERITEK IoT.
	Offline	The device is not connected to MERITEK IoT.
	Abnormal	Device is connecting to MERITEK IoT, but data settings or communication is incorrect.
Value	The return value from the device address.	
Last Update	Last update time.	
Detail	Detail information of dataitem, including trend display, value operation setting, historic data and alarm events.	
Search	Quickly search the list of groups or dataitems.	

3.1.2 Dataitem List

Clicking "Detail" allows you to view the status of data items in detail and edit their values.

Data

Group List

Search

Dataitem Group ▲ Location Coordinate ▼ Alarm Status ▼

▼ 111 Disable Normal

▲ 222 DD 025.0821000 121.5670000 Alarm

Detail

Dataitem	Connection Status	Alarm Status	Value	Last Update
item1	Online	Normal	0	2024/03/08 08:12:01
v9	Online	Alarm	40.00	2024/03/07 23:05:11

Data > Group Detail

Dataitem List Device Status Data Log Alarm Event

Dataitem List

Search

Dataitem ▲ Connection Status ▲ Alarm Status ▲ Value ▲ Last Update ▲

▼ item1 Online Normal 0 Edit 2024/03/08 08:13:06

▼ v9 Online Alarm 40.00 2024/03/07 23:05:11

3.1.3 Device Status

Data > Group Detail

Dataitem List **Device Status** Data Log Alarm Event

Device Status

Dataitem ▲	From Device ▼	Connection Status ▼	
item1	P5101NA-192	● Online	
V9	P5101NA-192	● Online	

Data > Group Detail

Dataitem List **Device Status** Data Log Alarm Event

< P5101NA-192

Device Information

OS_VER	OS V2.0.28
ENV_VER	4.104
FW_VER	1.6.55 e838f70d

Item	Describe
OS_VER	OS version of the device system.
ENV_VER	Environment package version of the device system.
FW_VER	Firmware version of the device system.

3.1.4 Data Log

Data > Group Detail

753/20000

Historic Data

Dataitem List

Device Status

Data Log

Alarm Event

Download

Delete

Dataitem Group Name

Last day

All

item1

V9

Dataitem	Time	Data log
V9	2024/03/07 08:19:40	40
V9	2024/03/07 08:29:40	40
V9	2024/03/07 08:39:40	40
V9	2024/03/07 08:49:40	40
V9	2024/03/07 08:59:40	40
V9	2024/03/07 09:09:40	40

Item	Describe
Dataitem Group Name	Select the Dataitem Group you want to view and choose the viewing time range.
List	Display the collected data.
Download	Select a Dataitem and download the collected data.
Delete	Select a Dataitem and delete the collected data.

When the data collection reaches its maximum capacity, it will stop collecting and send an email to the user. Please manually delete the data.

3.1.5 Alarm Event

Data > Group Detail

36/20000 Alarm Records

Dataitem List

Device Status

Data Log

Alarm Event

Download

Delete

Dataitem Group Name

Last 5 days

All

item1

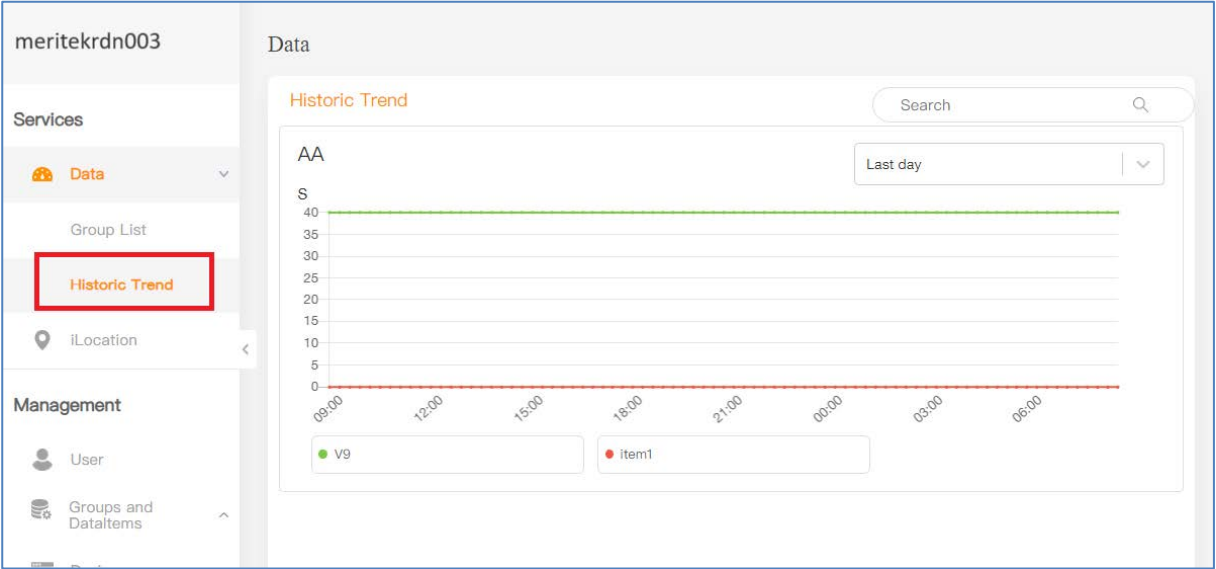
V9

Dataitem	Alarm Message	Time	Value
V9	IoT Web Message	Trigger Time : 2024/03/05 16:06:01 Recovery Time -	1

Item	Describe
Dataitem Group Name	Select the Dataitem Group you want to view and choose the viewing time range.
List	Display the recorded alarm data.
Download	Select a Dataitem and download the recorded alarm data.
Delete	Select a Dataitem and delete the recorded alarm data.

When the maximum number of Alarm Records, recording will stop, and an email will be sent to the user. Please manually delete the data.

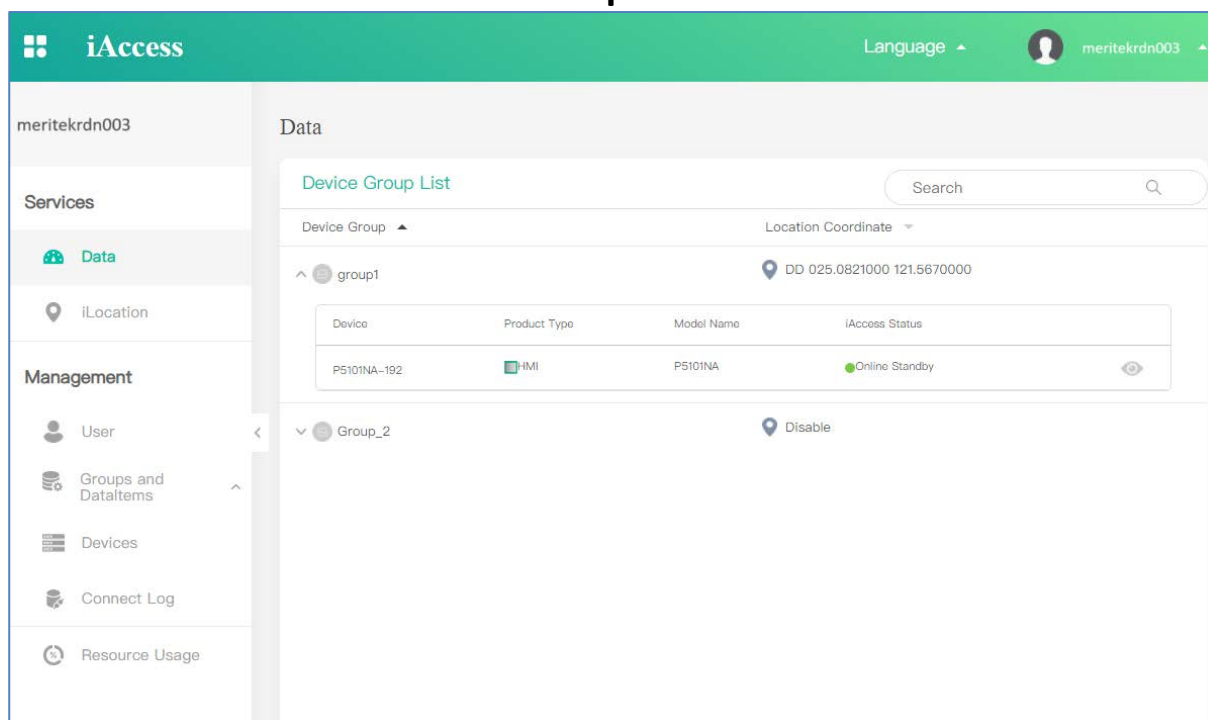
3.1.6 Historic Trend



Item	Describe
Select a data item.	Choose the trend chart of the Dataitem you want to view.
Time filter:	Set the interval for the query.

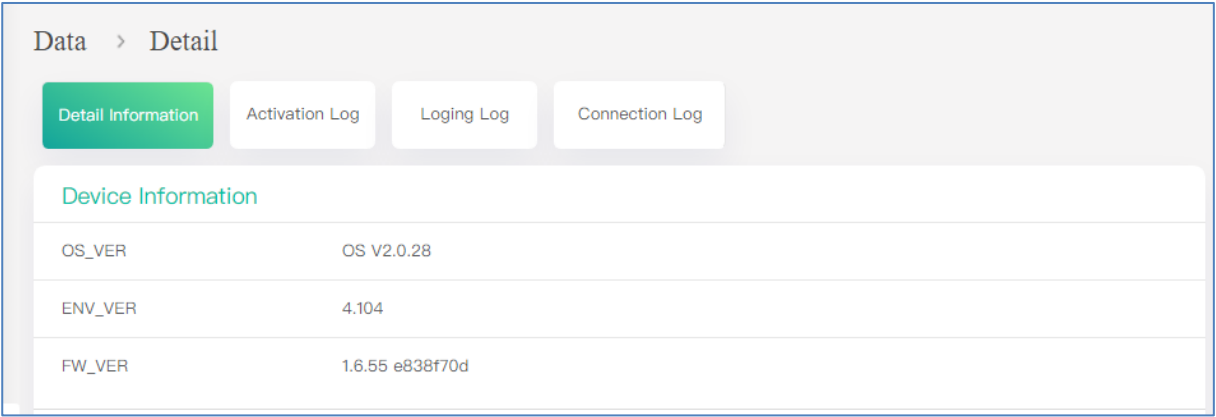
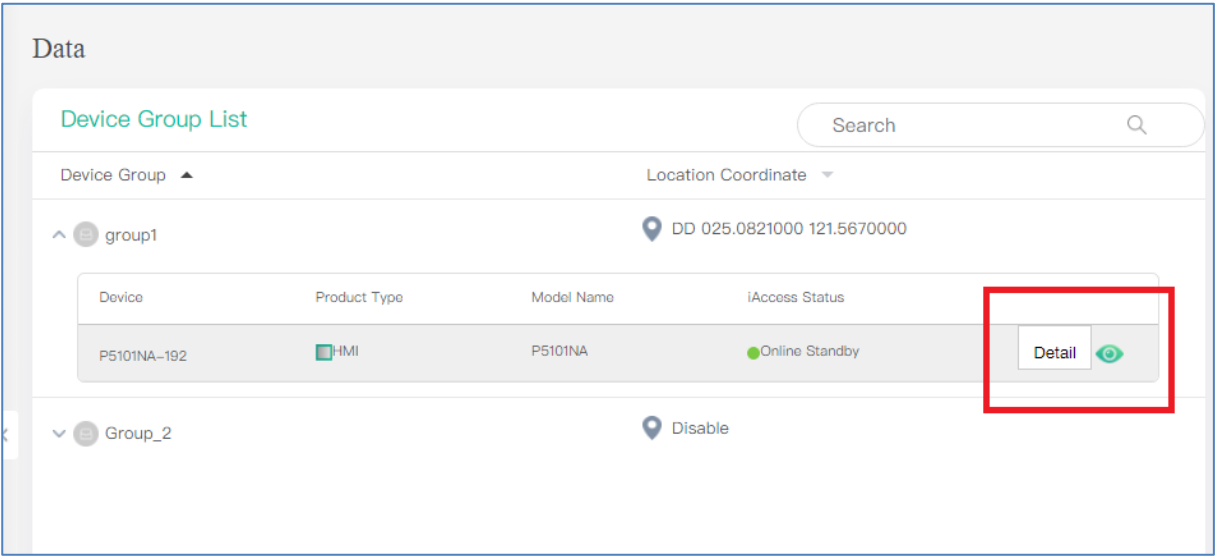
3.2 【iAccess】

3.2.1 Device Group List



Item	Describe								
Device Group	Device Group name.								
Location Coordinate	Display the GPS coordinate of the device.								
Device	Device name.								
Product Type	MERITEK IoT supports MERITEK HMI currently, other types of devices will be supported in the future.								
Model Name	Display the HMI model name, such as P5070N.								
iAccess Status	Four kinds of status below: <table border="1"> <tr> <td>Inactivated</td><td>LID is not activated and the device cannot be used.</td></tr> <tr> <td>Offline</td><td>LID is activated but device is not connecting.</td></tr> <tr> <td>Online Standby</td><td>Device is connecting with MERITEK IoT but there is no user doing operation.</td></tr> <tr> <td>Online Used</td><td>Device is connecting with MERITEK IoT and the user is operating, only one user can operate at the same time.</td></tr> </table>	Inactivated	LID is not activated and the device cannot be used.	Offline	LID is activated but device is not connecting.	Online Standby	Device is connecting with MERITEK IoT but there is no user doing operation.	Online Used	Device is connecting with MERITEK IoT and the user is operating, only one user can operate at the same time.
Inactivated	LID is not activated and the device cannot be used.								
Offline	LID is activated but device is not connecting.								
Online Standby	Device is connecting with MERITEK IoT but there is no user doing operation.								
Online Used	Device is connecting with MERITEK IoT and the user is operating, only one user can operate at the same time.								
Search	Quickly search the list of groups or devices.								

3.2.2 Device Information



Item	Describe
OS_VER	OS version of the device system.
ENV_VER	Environment package version of the device system.
FW_VER	Firmware version of the device system.

3.2.3 Activation Log

Display the date when this device was activated using LID.

Data > Detail

Detail Information

Activation Log

Logging Log

Connection Log

P5101NA-192

The latest 50 logs

Time	Content
2023/12/14 10:31:54	Device is activated.
2023/09/19 15:42:57	Device is activated.

3.2.4 Logging Log

Display the time when the device logged into the server.

Data > Detail

Detail Information

Activation Log

Logging Log

Connection Log

P5101NA-192

The latest 50 logs

Time	Content
2024/03/08 08:47:53	Device login
2024/03/07 23:05:10	Device login
2024/03/07 21:44:23	Device login
2024/03/07 21:35:13	Device login
2024/03/07 18:03:51	Device login
2024/03/07 17:08:11	Device login
2024/03/07 17:05:09	Device login

3.2.5 Connection Log

Display the time when a user connected to this device.

Data > Detail

Detail Information

Activation Log

Logging Log

Connection Log

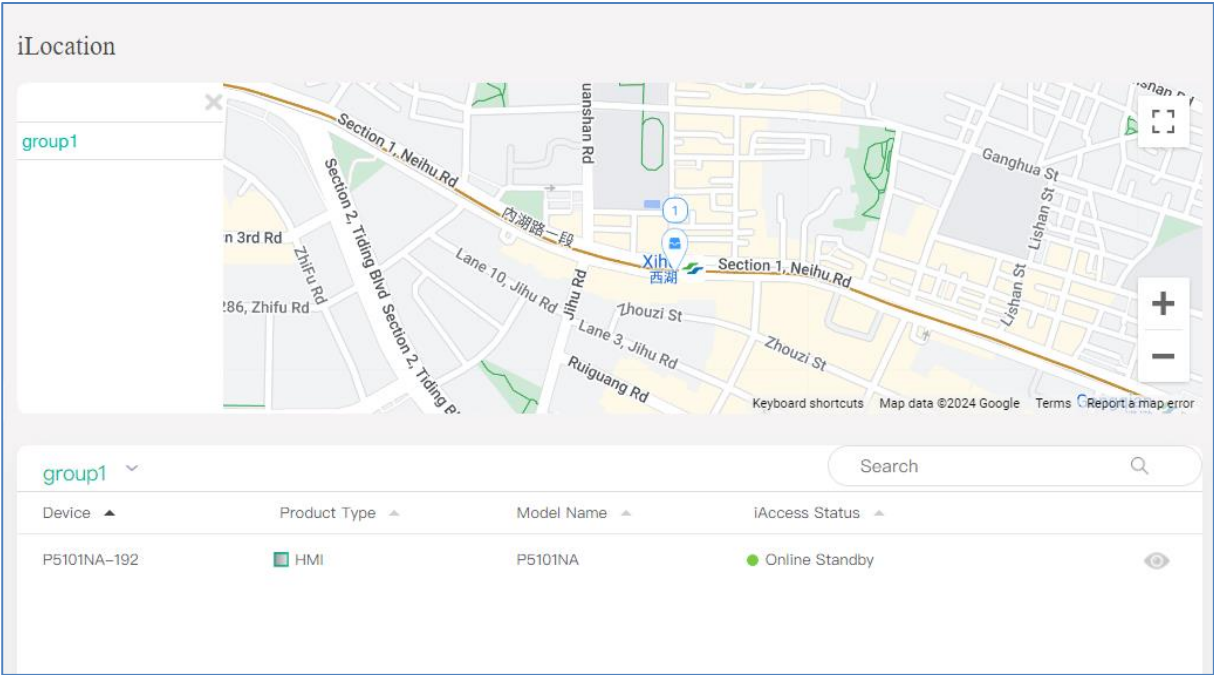
P5101NA-192

The latest 50 logs

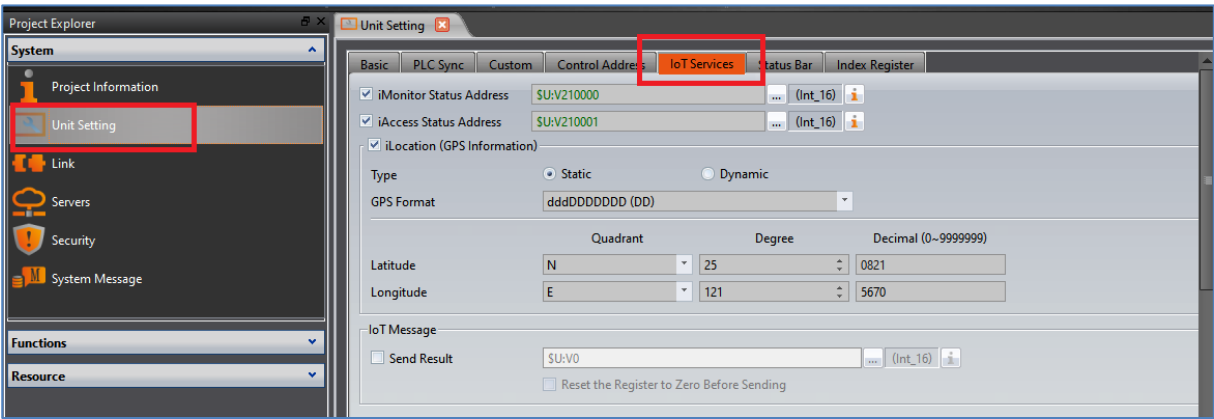
Time	Content
2024/03/06 11:21:19	Device is connected.
2024/03/06 10:40:55	Device is connected.
2024/02/14 16:24:04	Device is connected.
2024/02/07 13:33:10	Device is connected.
2024/02/06 23:29:15	Device is connected.
2024/02/06 23:28:23	Device is connected.
2024/02/06 23:22:43	Device is connected.

3.3 【iLocation】

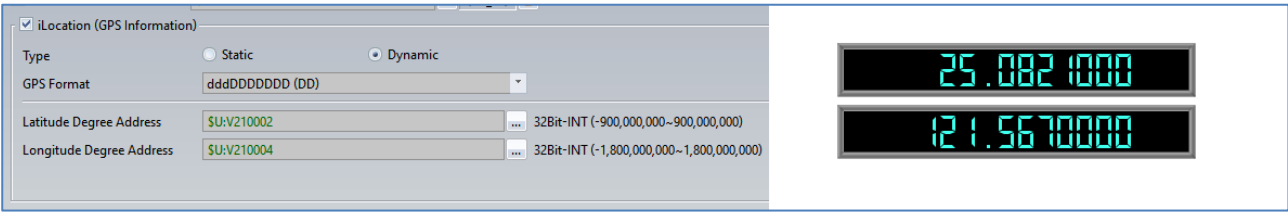
Display the geographical location of the Group on the map.



The GPS location of the HMI needs to be set in FvDesigner and can be configured as static



Or dynamic (Total digits: 10 / Decimal points: 7).

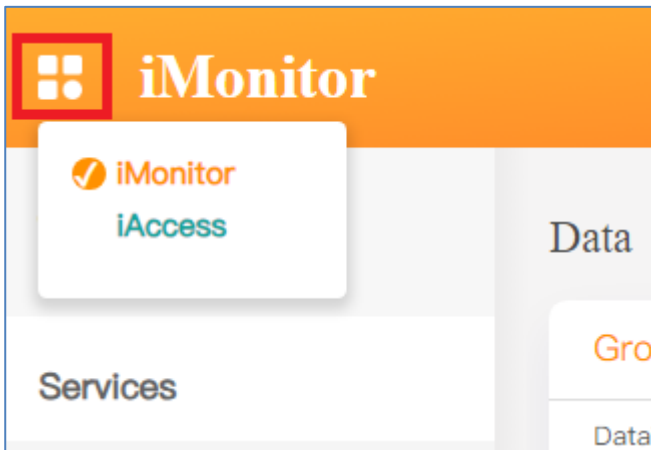


4. Management

The "Management" interface is only accessible to accounts that have been granted permissions through the completion of an application form. Regular users will not see this interface.

The website will only display the purchased features.

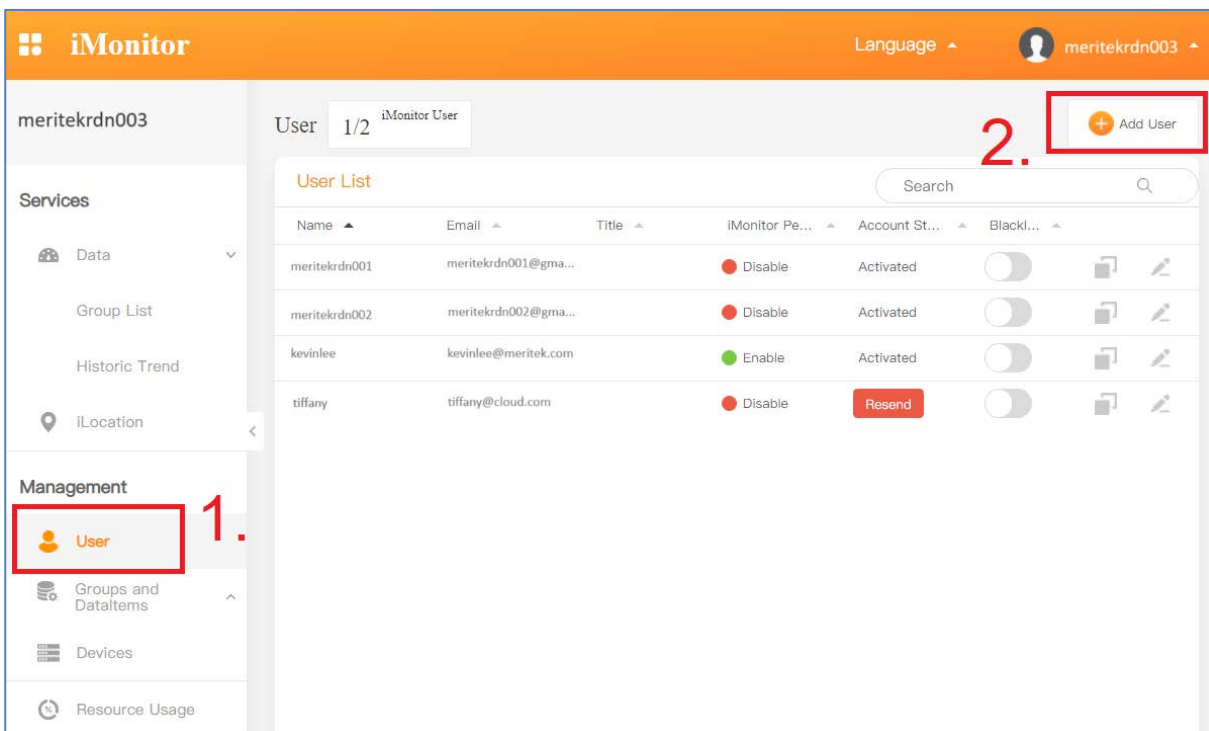
You can switch functions through the menu in the top left corner.



4.1 【iMonitor】

4.1.1 Create User

Create users who can log in to this project and manage the devices they can operate based on the set permissions.



User > Add User

1/2 iMonitor User

Information

Basic Information

* Name

Nickname

Title

* Account(Email)

Mobile Phone Number

* Password

* Email Language

Select...

Description

Permission

Data

Black List

☒ Enable

☐ Unblocked

iMonitor

DataItem Group

Search

Name	Read Only	Read and Write	Browse Device Info
111	☐	☐	☐ Off
222	☐	☐	☐ Off

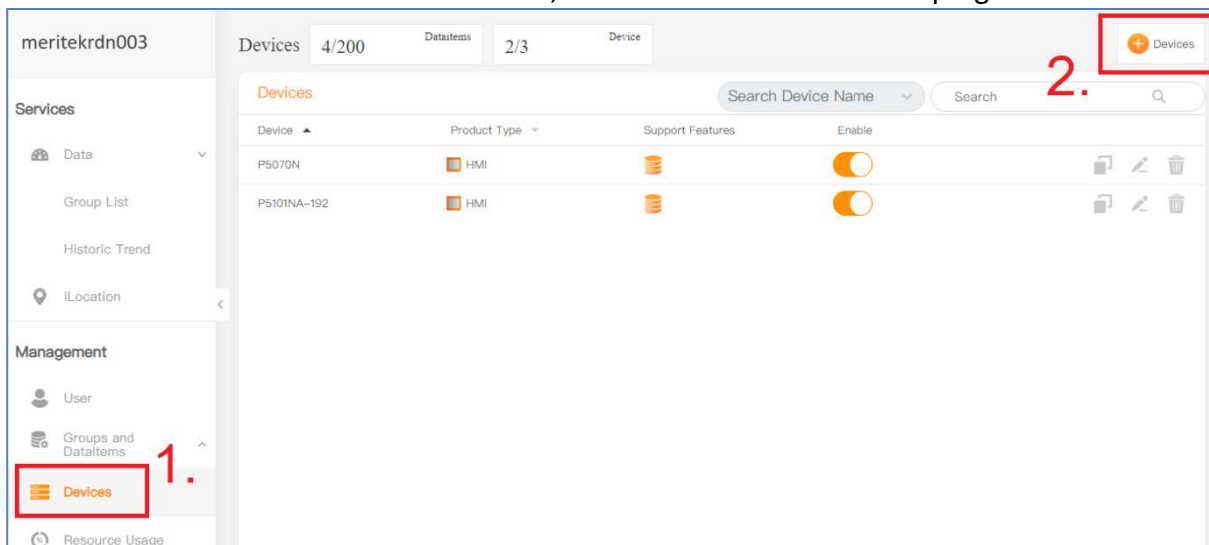
Cancel

Save

Item	Describe
iAccess User	Number of existing users and maximum number of user accounts.
Name	Set the user's name.
Nickname	Set the user's nickname.
Title	Set the user's title.
Account(Email)	Set the user's login account.
Mobile Phone Number	Set the user's mobile phone number.
Password	Set the user's login password.
Email Language	Set the language for receiving emails for this user
Description	Set the description about the user.
Data (Enable/Disable)	Set the user's permissions for operating the Dataitem Group.
Black List (Enable/Disable)	Forbid the user to log in to the IOT management page

4.1.2 Create Devices

Click on "Device" in the bottom left corner, then click on "Add" in the top right corner.



Groups and DataItems > Devices



* Name

* Service Password

Description A

Description B

Description C

* Product Type

* Hardware ID

Third Party App Information Broadcast

☐ Disabled

Item	Describe
Name	Customize the device name.
Product Type	Select the device type.
Service Password	Set the service password to match the one entered on the device.
Hardware ID	Enter the hardware ID displayed on the device.
Description	Set any additional notes.
Link Device	Set up the links that will be used; functionality will not be affected if this section is left unset.

Third Party App Information Broadcast

Set whether to send notifications for this device to Third Party App.

After creating the device, you need to switch it to "Enable" before you can use it.

Devices	4/200	Dataitems	2/3	Device	 Devices
Devices Search Device Name  Search 					
Device 	Product Type 	Support Features	Enable		
P5070N	 HMI				 
P5101NA-192	 HMI				 

4.1.3 Create Dataitems

After creating the device, you can add Dataitems.

The screenshot shows the MERITEK IoT interface. On the left sidebar, under 'Management', the 'Groups and DataItems' menu is expanded, and 'Device List' is highlighted with a red box and the number '1.'. In the top right corner, the 'DataItems' button is highlighted with a red box and the number '2.'. The main area displays a 'Device List' table with columns for Device, Product Type, and DataItems. The table lists two devices: P5070N and P501NA-192, both of type HMI, with 2/200 data items each. Below the table, the 'Dataitem' configuration form is visible. The 'Basic Setting' tab is active, showing fields for 'Read Only' (switched off), 'Select Device' (P501NA-192), 'Dataitem Name', 'Data Format' (Bit), 'Length' (1), 'Comment', 'Address', 'Update Mode' (Period), and 'Period Time' (5 Sec). The 'Data Log' tab is also visible, showing 'Switch' (switched off), 'Sampling Period' (3600 Sec), 'Alarm' (switched off), 'Condition' (A-B), 'Limit Value A' (0), 'Limit Value B' (1), 'Content', 'Alarm' (switched off), 'Send Email' (switched off), 'App Notification' (switched off), 'Send SMS Message' (switched off), 'The third party' (switched off), 'Contact' (All customer ID, meritekrdn003, meritekrdn002, tiffany, meritekrdn001, kevinlee), 'Recurrence Interval' (0 Minutes), and 'Transfer Delay Time' (1 Sec).

Item	Describe
read-write	Set whether this Dataitem can be written to; if not switched, it can only be read.
Select Device	Select the device to get data.
Dataitem Name	Set Dataitem name.
Data Format	The format set here must match the components on the HMI. Bit

	<table><tr><td>16Bit-BCD</td></tr><tr><td>16Bit-INT</td></tr><tr><td>16Bit-UINT</td></tr><tr><td>16Bit-HEX</td></tr><tr><td>32Bit-BCD</td></tr><tr><td>32Bit-INT</td></tr><tr><td>32Bit-UINT</td></tr><tr><td>32Bit-HEX</td></tr><tr><td>32Bit-FLOAT</td></tr><tr><td>ASCII String</td></tr></table>	16Bit-BCD	16Bit-INT	16Bit-UINT	16Bit-HEX	32Bit-BCD	32Bit-INT	32Bit-UINT	32Bit-HEX	32Bit-FLOAT	ASCII String
16Bit-BCD											
16Bit-INT											
16Bit-UINT											
16Bit-HEX											
32Bit-BCD											
32Bit-INT											
32Bit-UINT											
32Bit-HEX											
32Bit-FLOAT											
ASCII String											
Length	Data length.										
Decimal Point Location	Set the decimal point display position.										
Max / Min	Set the range of numerical input.										
Comment	Set related remarks.										
Address	Set the address to read from. Please copy and paste from FvDesigner to here. If the address entered here is different from the one on the HMI, it will not be able to read. Example: \$U:V0, @0:R0, \$T:Tag0										
Update Mode	Mode for device to return data. <table><tr><td>Period</td><td>According to [Period Time] to return data periodically.</td></tr><tr><td>Trigger</td><td>Return data when the value has changed.</td></tr></table>	Period	According to [Period Time] to return data periodically.	Trigger	Return data when the value has changed.						
Period	According to [Period Time] to return data periodically.										
Trigger	Return data when the value has changed.										
Period Time	Use in the periodic update mode, increase the time can reduce the network bandwidth usage and reduce the system loading.										
DataLog Enable/Disable	Enable the data log function.										
Sampling Period	Period of data log sampling.										
Alarm Enable/Disable	Enable alarm function.										
Alarm Condition	When the condition to trigger an alarm is met, the alarm will be sent.										
Alarm Content	User customize the alarm content to be sent.										
Send Email	Send message via email.										
App Notifications	Push notification of the alarm message to mobile APP.										
Send SMS Message* Note 1	Send message via SMS message.										
The third party	When this Dataitem triggers an alarm, the selected personnel will be notified synchronously.										
Alarm Contact	Receiver of the alarm message.										
Recurrence Interval (Minutes) *Note 2	When alarm is triggered and send the first SMS, e-mail or push notification, this is used to determine the interval to send the message again until the alarm is cleared.										
Transfer Delay Time (Second)	When the alarm condition is triggered, this is used to determine delay how many times to send SMS, e-mail or APP push notification. This function is to avoid										

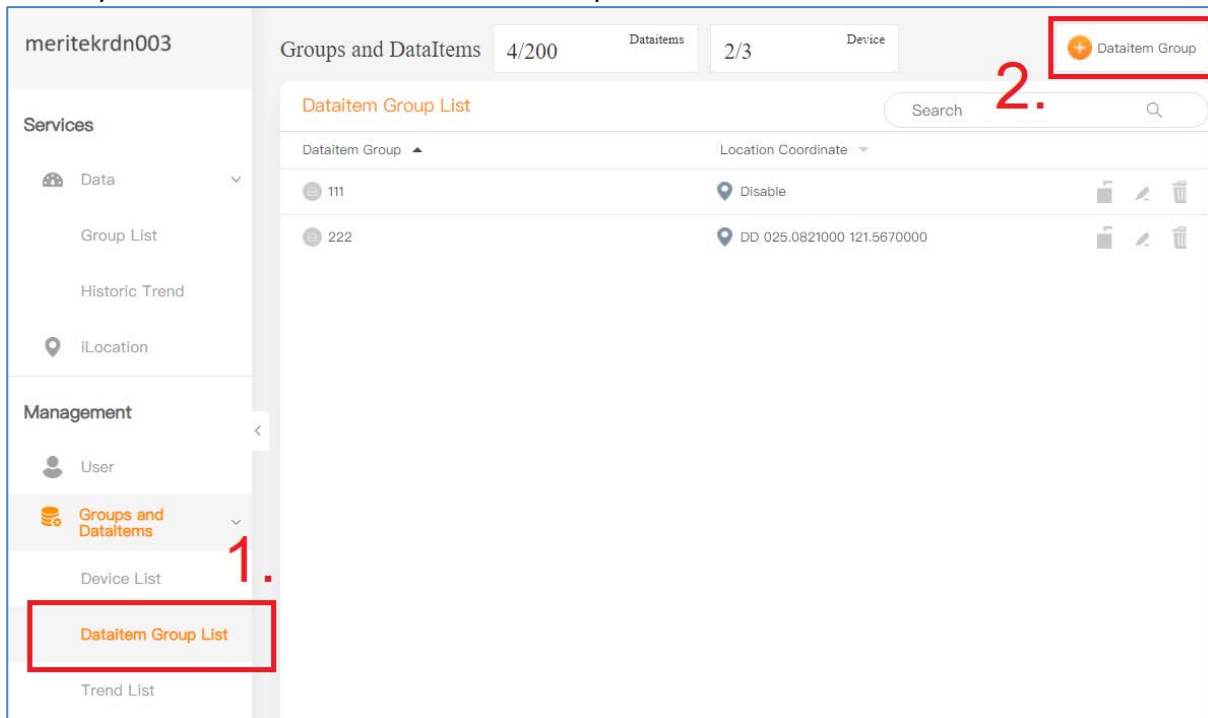
	sending too much message when the value changed in a limited time.
--	--

Note 1: Purchasing SMS credits is required for sending text messages.

Note 2: When the resend interval is set to "0" minutes, alarm notifications will only be sent once and will stop resend.

4.1.4 Create Dataitem Group

You must set up a Dataitem Group before you can read or write from the Web or App. Place the Dataitem you want to monitor in the same Group.



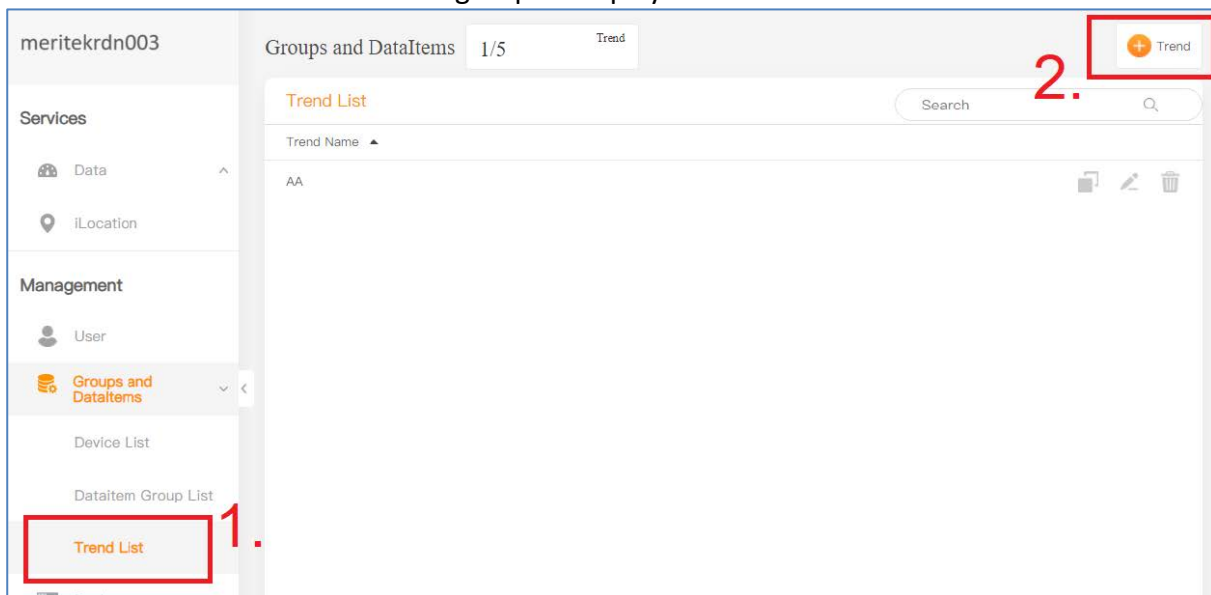
The screenshot shows the 'Dataitem Group' creation form. It includes fields for 'Dataitem Group Name', 'GPS Source' (set to P5101NA-192), 'Description A', 'Description B', and 'Description C'. There is an 'Upload' button for a group icon. Below the form, there are sections for 'Add Dataitem' and 'User' settings.

Item	Describe
Dataitem Group Name	Set Group name.
Upload	Set the group icon.
GPS Source	Set the group GPS source. The coordinates need to be set in FvDesigner.

Description	Set your own description.
Add Device	To add devices to the group, the right-side arrow provides the drop-down menu for users to add dataitems into the group.
User	Add users who can monitor this group.

4.1.5 Create Trend

Select Dataitems from the created group to display trend chart lines.



Groups and DataItems > Trend

* Trend Name: * Y-axis Unit:

* Select Dataitem Group:

☒		111	V10.0	V20
☐		222	item1	V9

Item	Describe
Trend Name	Set the trend name.
Y-axis Unit	Set the Y-axis unit.
Select Dataitem Group	Add groups to the trend and select the group's dataitem.

4.2 【iAccess】

4.2.1 Create User

Create users who can log in to this project and manage the devices they can operate based on the set permissions.

1. Click on the **User** link in the left sidebar under the **Management** section.

2. Click on the **+ Add User** button in the top right corner of the **User List** table.

User List Table:

Name	Email	Title	iAccess P...	Support F...	Account S...	Blac...
meritekrdn001	meritekrdn001@gma...		Enable		Activated	
meritekrdn002	meritekrdn002@gma...		Enable		Activated	
kevinlee	kevinlee@meritek.com		Disable	- - -	Activated	
tiffany	tiffany@cloud.com		Disable	- - -	Resend	

Add User Form:

Basic Information

- * Name:
- Nickname:
- Title:
- * Account(Email):
- Mobile Phone Number:
- * Password:
- * Email Language:
- Description:

Permission

- Data: ☒ Enable
- Black List: ☐ Unblocked
- Dataitem: ☐ Disable
- Maintain: ☐ Disable
- Viewer: ☐ Disable

iAccess Device Group

Name	Read Only	Read and Write	Maintain
Group_2	☐	☐	☐
group1	☐	☐	☐

Item	Describe
iAccess User	Number of existing users and maximum number of user accounts.
Name	Set the user's name.
Nickname	Set the user's nickname.
Title	Set the user's title.
Account (Email)	Set the user's login account.
Mobile Phone Number	Set the user's mobile phone number.
Password	Set the user's login password.
Email Language	Set the language for receiving emails for this user
Description	Set the description about the user.
Data (Enable/Disable)	Set the user's permissions for operating the Device Group.
Black List (Enable/Disable)	Disable the user from logging into the IOT page.
Dataitem	Set whether the user can read and write Dataitems.
Maintain	Set whether the user can use maintenance functions such as Upload, Download, Pass Through, and File Transfer.
Viewer	Set whether the user can use the screen monitoring function of iAccess Viewer.

4.2.2 Create Devices

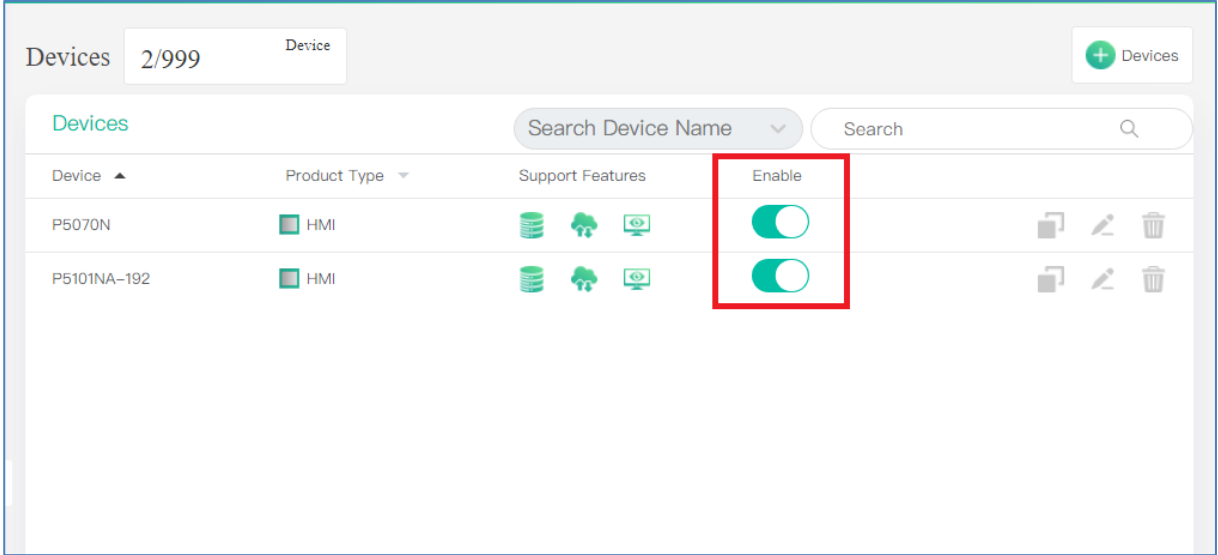
Click on "Device" in the bottom left corner, then click on "Add" in the top right corner.

The screenshot displays the MERITEK IoT management interface. On the left sidebar, the 'Devices' option is highlighted with a red box and labeled '1'. In the top right corner, a '+ Devices' button is highlighted with a red box and labeled '2'. The main content area shows a table of existing devices with columns for Device, Product Type, Support Features, and Enable. Below the table, there is a form for creating a new device. The form includes a circular icon placeholder on the left and several input fields on the right: Name, Product Type (a dropdown menu), Service Password, Hardware ID, and three Description fields (A, B, and C). At the bottom of the form, there is a toggle switch for 'Third Party App Information Broadcast', which is currently set to 'Disabled'.

Item	Describe
Name	Customize the device name.
Product Type	Select the device type.
Service Password	Set the service password to match the one entered on the device.
Hardware ID	Enter the hardware ID displayed on the device.
Description	Set any additional notes.
Link Device	Set up the links that will be used; functionality will not be affected if

	this section is left unset.
Third Party App Information Broadcast	Set whether to send notifications for this device to Third Party App.

After creating the device, you need to switch it to "Enable" before you can use it.



4.2.3 Create Dataitems

After creating the device, you can add Dataitems.

The screenshot shows the MERITEK IoT interface. On the left sidebar, under 'Management', the 'Device List' link is highlighted with a red box and the number '1'. The main area shows the 'Device List' page with a table of devices. In the top right corner of this page, the '+ Dataitems' button is highlighted with a red box and the number '2'.

Below the screenshot, the 'Dataitems' configuration page is shown. It includes a 'Basic Setting' section with the following fields:

- Read Only:** A toggle switch.
- Select Device:** A dropdown menu showing 'P5101NA-192'.
- * Dataitem Name:** A text input field.
- Data Format:** A dropdown menu showing 'Bit'.
- Length:** A text input field showing '1'.
- Comment:** A text area.
- * Address:** A text input field with a numeric keypad icon.
- Update Mode:** A dropdown menu showing 'Period'.
- Period Time:** A text input field showing '10' and a 'Sec' label.

Item	Describe
read-write	Set whether this Dataitem can be written to; if not switched, it can only be read.
Select Device	Select the device to get data.
Dataitem Name	Set Dataitem name.
Data Format	The format set here must match the components on the HMI.
	Bit
	16Bit-BCD
	16Bit-INT
	16Bit-UINT
	16Bit-HEX

	32Bit-BCD 32Bit-INT 32Bit-UINT 32Bit-HEX 32Bit-FLOAT ASCII String		
Length	Data length.		
Decimal Point Location	Set the decimal point display position.		
Max / Min	Set the range of numerical input.		
Comment	Set related remarks.		
Address	Set the address to read from. Please copy and paste from FvDesigner to here. If the address entered here is different from the one on the HMI, it will not be able to read. Example: \$U:V0, @0:R0, \$T:Tag0		
Update Mode	Mode for device to return data.		
	Period	According to [Period Time] to return data periodically.	
	Trigger	Return data when the value has changed.	
Period Time	Use in the periodic update mode, increase the time can reduce the network bandwidth usage and reduce the system loading.		

4.2.4 Create Dataitem Group

You must set up a group before you can read or write data items on the Web or App. Place the Devices you want to view in the same group.

The screenshot shows the MERITEK IoT Web interface. On the left sidebar, under 'Management', the 'Device Group List' option is highlighted with a red box and labeled '1.'. The main content area shows the 'Device Group List' with a table of existing groups. A red box labeled '2.' highlights the '+ Device Group' button in the top right corner.

Below the list, the 'Device Group' creation form is shown. It includes fields for 'Catalitem Group Name', 'GPS Source' (set to 'P5101NA-192'), and three description fields (A, B, C). There is an 'Upload' button for the group icon. Below the form, there are two sections: 'Add Device' and 'User'.

The 'Add Device' section shows a table of devices to be added to the group:

Device	Count
P5101NA-192	1
P5070N	

The 'User' section shows a table of users who can monitor this group:

User	Read Only	Read and Write	Maintain	Viewer
meritekrdn001	☐	☒	☒	☒
meritekrdn002	☒	☐	☐	☒

Item	Describe
Dataitem Group Name	Set Group name.
Upload	Set the group icon.
GPS Source	Set the group GPS source. The coordinates need to be set in FvDesigner.
Description	Set your own description.
Add Device	To add devices to the group, the right-side arrow provides the drop-down menu for users to add dataitems into the group.
User	Add users who can monitor this group.

4.2.5 Connect Log

View the usage status of the device.

meritekrdn003

Services

Data

Location

Management

User

Groups and DataItems

Device List

Device Group List

Devices

Connect Log

Resource Usage

59 Connect Log

Download

Delete

Connect Log

Select Device

Select Time interval

2 Selected Device

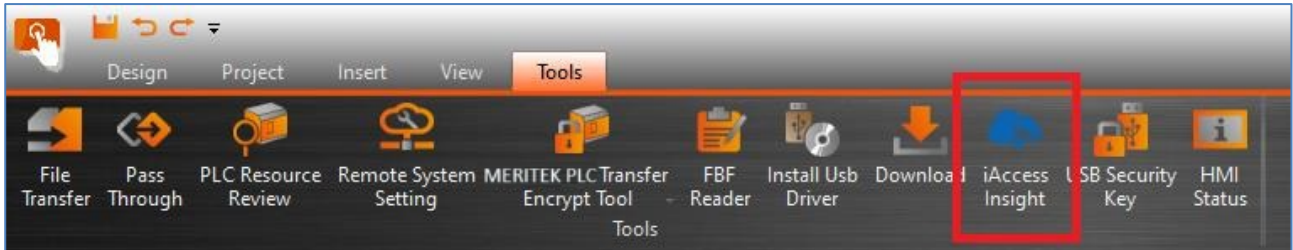
Last 5 days

Search

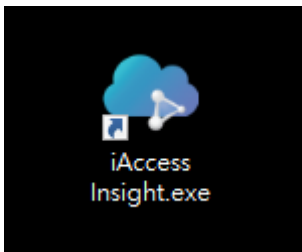
Device Name	開始時間	結束時間	User	Purpose	Comment
P5101NA-192	2024/03/06 11:21:25	2024/03/06 11:24:50	meritekrdn003	DataItem	Disconnected by device
P5070N	2024/03/06 10:41:35	2024/03/06 10:41:46	meritekrdn003	Viewer	Disconnected by device
P5070N	2024/03/06 10:41:07	2024/03/06 10:41:15	meritekrdn003	DataItem	Disconnected by device
P5101NA-192	2024/03/06 10:40:56	2024/03/06 10:41:00	meritekrdn003	DataItem	Disconnected by device

5. iAccess Remote Maintenance

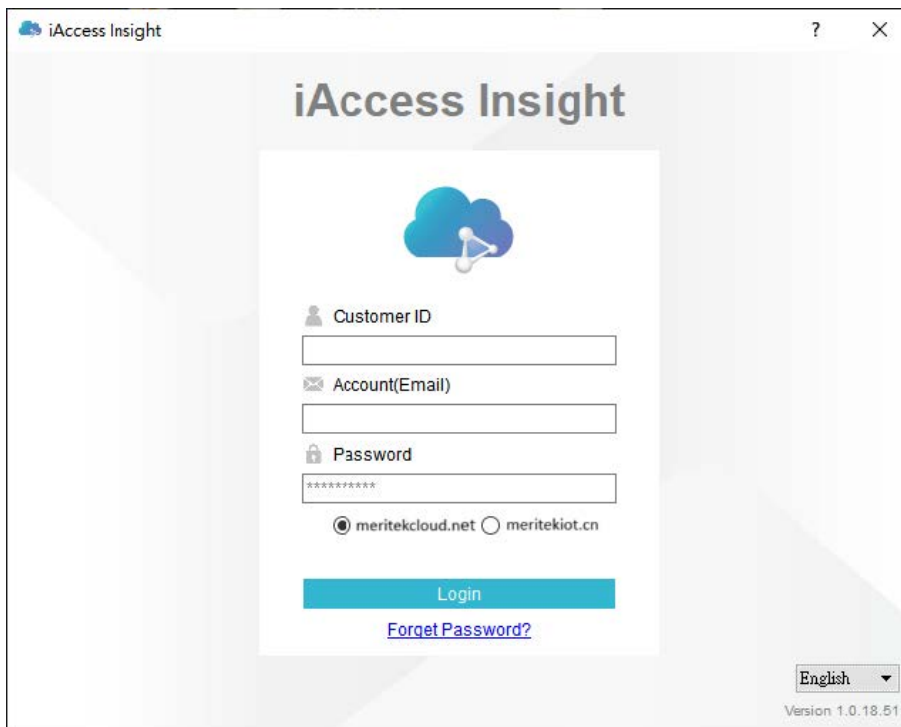
iAccess Insight is a MERITEK IoT tool that assists users in remote updates and maintenance of devices. You can find it in FvDesigner.



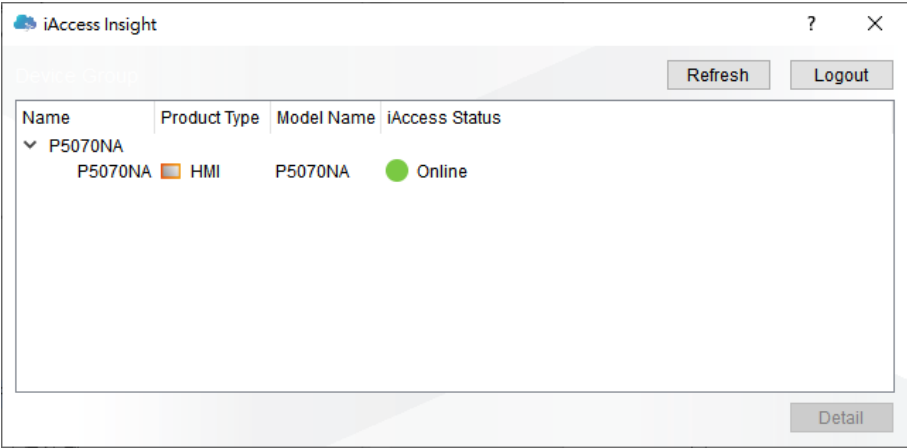
Alternatively, you can download the standalone installation package. <https://www.meritek.com/download.php?act=list&cid=16>



After opening the application, select the server you want to connect to, then fill in the Customer ID, Account, and Password to log in.



After logging in, you will see the iAccess devices that have been Enable.



Item	Describe
Name	Device name, need to login to the website to set.
Product Type	Display the product type.
Model Name	Display the group's model name.
iAccess Status	Display the current status of the device.
Refresh	Refresh the device status.
Logout	Logout the account.
Detail	Select the device then enter the remote function page.

5.1 HMI Maintenance

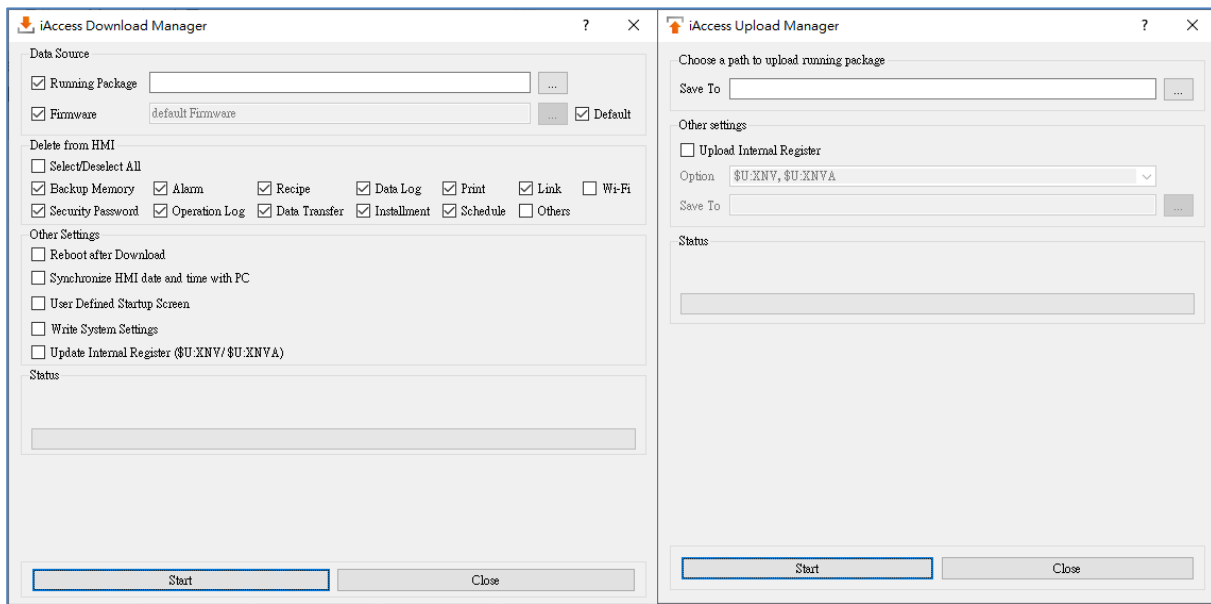
Click on the HMI to enter the device control page.



Item	Describe
Name	Device name.
Model	Display the device model.
Firmware version	Display the device firmware version.
OS version	Display the device OS version.
Env version	Display the device environment package version.
iAccess Status	Display the connect status.
iAccess LID	Display the LID type.

5.1.1 Upload/Download

Users can remotely upload and download projects for HMI.



If you encounter mismatches between the project and firmware when using the standalone installation package of iAccess Insight, please update to the latest version of iAccess Insight from the official website.

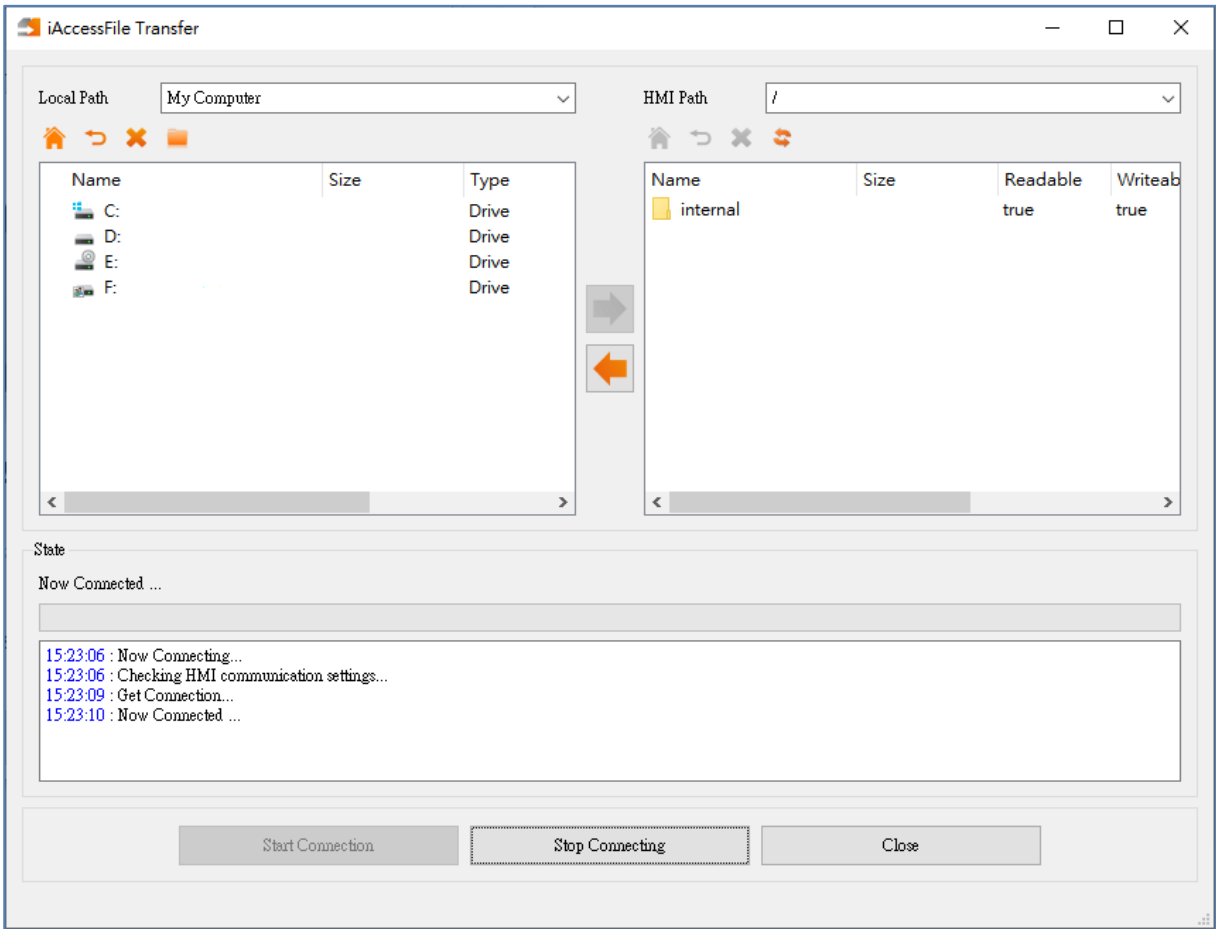
5.1.2 Pass Through

Using Pass Through allows remote control of the PLC.

Item	Describe
Pass Through by	Choose between using IP or iAccess Virtual COM.
PLC Type	Select how the HMI is connected to the PLC.
Correction Setting-PC	Configure the method of connection to the remote HMI.
Correction Setting-HMI	Set up the serial port for the HMI to connect to the PLC; this step is not necessary if the HMI and PLC use network communication.
Correction Setting-PLC	Configure the connection parameters for the remote PLC.

5.1.3 File Transfer

Users can connect to the remote HMI to access the internal folders.



5.1.4 Viewer

The Viewer function supports users to control the screen via a computer or app. This feature needs to be enabled in the system settings of the HMI beforehand.



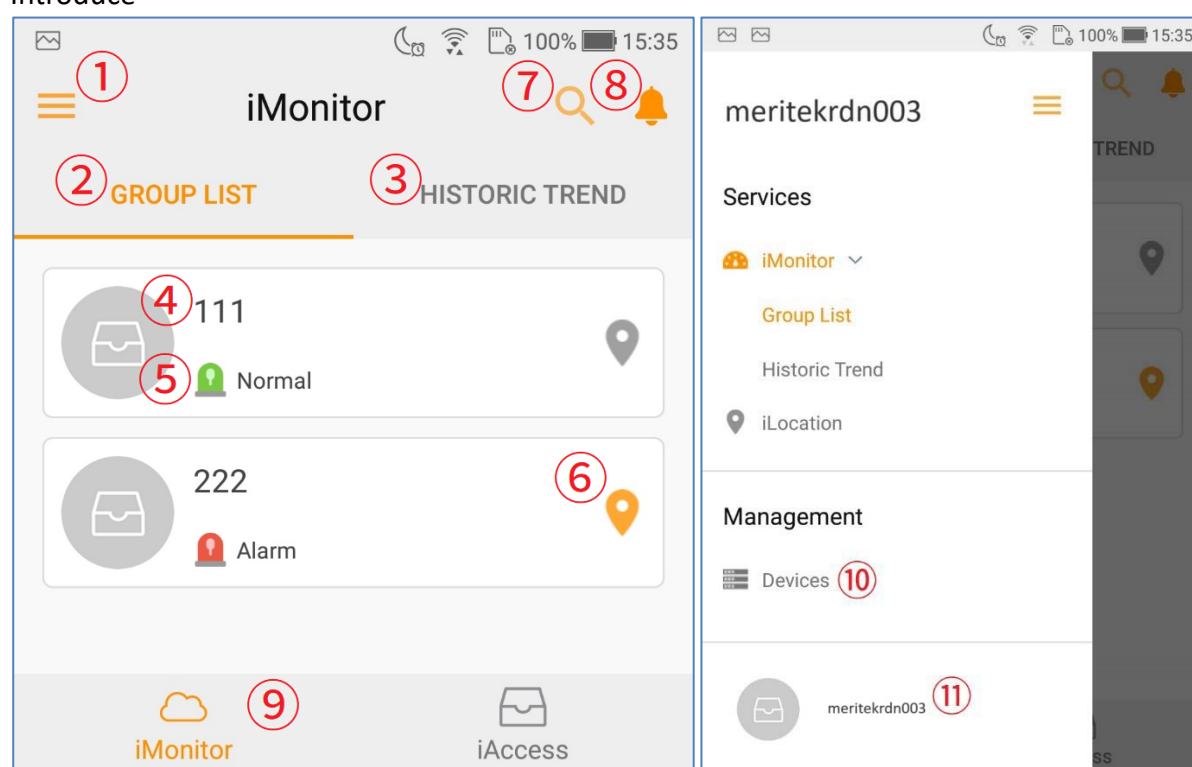
6. 【MERITEK IoT App】

The MERITEK IoT App supports both Android and iOS platforms, providing iMonitor and iAccess services. The app will only display the purchased features.

Google Play	https://play.google.com/store/apps/details?id=com.meritek.iot&pcampaignid=web_share
App Store	https://apps.apple.com/tw/app/meritek-iot/id1453667290
Alibaba Cloud	http://www.meritek.com.cn/download.php?act=list&cid=16

6.1.1 【iMonitor】

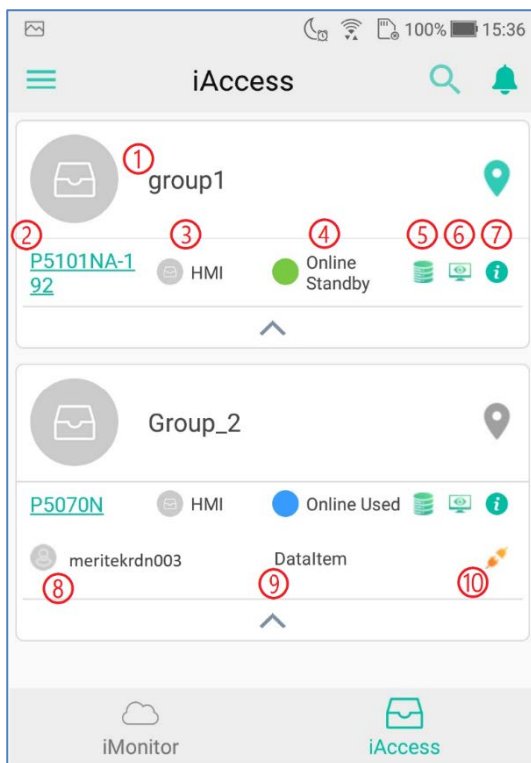
Introduce



Item	Describe
① Menu	Click to expand the side settings page.
② Group List	Displays the configured groups.
③ Historical Trend	Displays the configured historical trend chart, with customizable display time range.
④ Group Name	Displays the name of the group.
⑤ Alarm Status	Indicates whether the group has triggered alarms.
⑥ GPS	Indicates if GPS is configured; if illuminated, can be clicked to switch to iLocation.
⑦ Search	Allows input of keywords to search for groups.
⑧ Notifications	Click to display notifications that have occurred.
⑨ Switch	Click to switch between functions in use.

⑩ Device	Click to switch to the device library page, where devices can be add/edit/enable/disable.
⑪ Settings	Click to switch to the account settings page, where Name/Password/Biometric can be modified, privacy policy and terms of service can be viewed, and the account can be logged out.

6.1.2 【iAccess】



Item	Describe
① Group Name	Displays the name of the group.
② Device Name	Displays the name of the devices within the group; clicking will go to the DataItems page.
③ Device Type	Displays the type of device.
④ Device Status	Displays the status of the device; for example, if it is currently in use, it will show "Online Used."
⑤ Data Items	Clicking will switch to the Data Items page, where configured data items can be monitored.
⑥ iAccess Viewer	Clicking will display the device's screen.
⑦ Device Information	Clicking will display information such as the device's firmware version.
⑧ Connected Users	If the device is currently being accessed, it will display the users who are connected.
⑨ Active Functionality	If the device is currently being accessed, it will display the functionality being used by the user.
⑩ Force Disconnect	A feature only available to project managers, which allows them to forcibly disconnect users from the device.

7. Configure sending push notifications to third-party applications.

To ensure users receive abnormal notifications more quickly, we have developed the ability to send push notifications using both 「Line Notify」 and 「WeChat」 for the following scenarios:

1. Sending push notifications when a data item triggers an alarm in iMonitor.
2. Sending push notifications when an alarm occurs in HMI

Here are the prerequisites for using this feature:

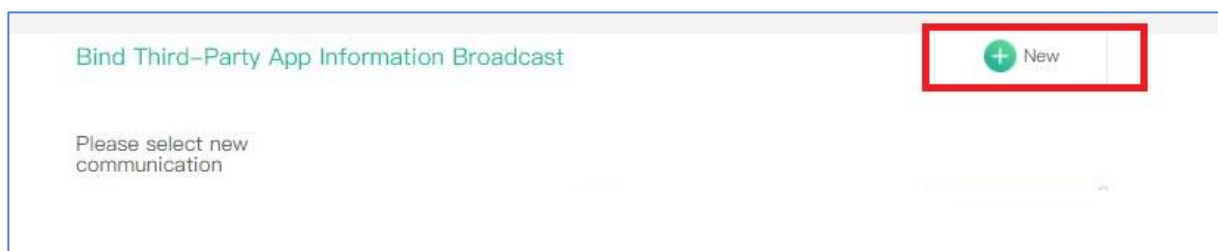
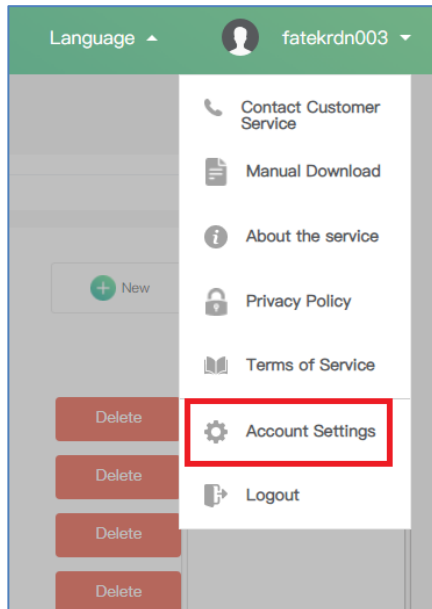
1. Enable "Third Party App Information Broadcast" for the devices in the "Device"
2. The HMI used must be able to connect to IoT, and the firmware version must be v1.6.60 or higher.
 - Google Cloud only supports 【Line Notify】
 - Alibaba Cloud only supports 【WeChat】
3. Individual settings are required for iMonitor notifications for each Dataitem.

7.1 Bind Application

7.1.1 Line Notify

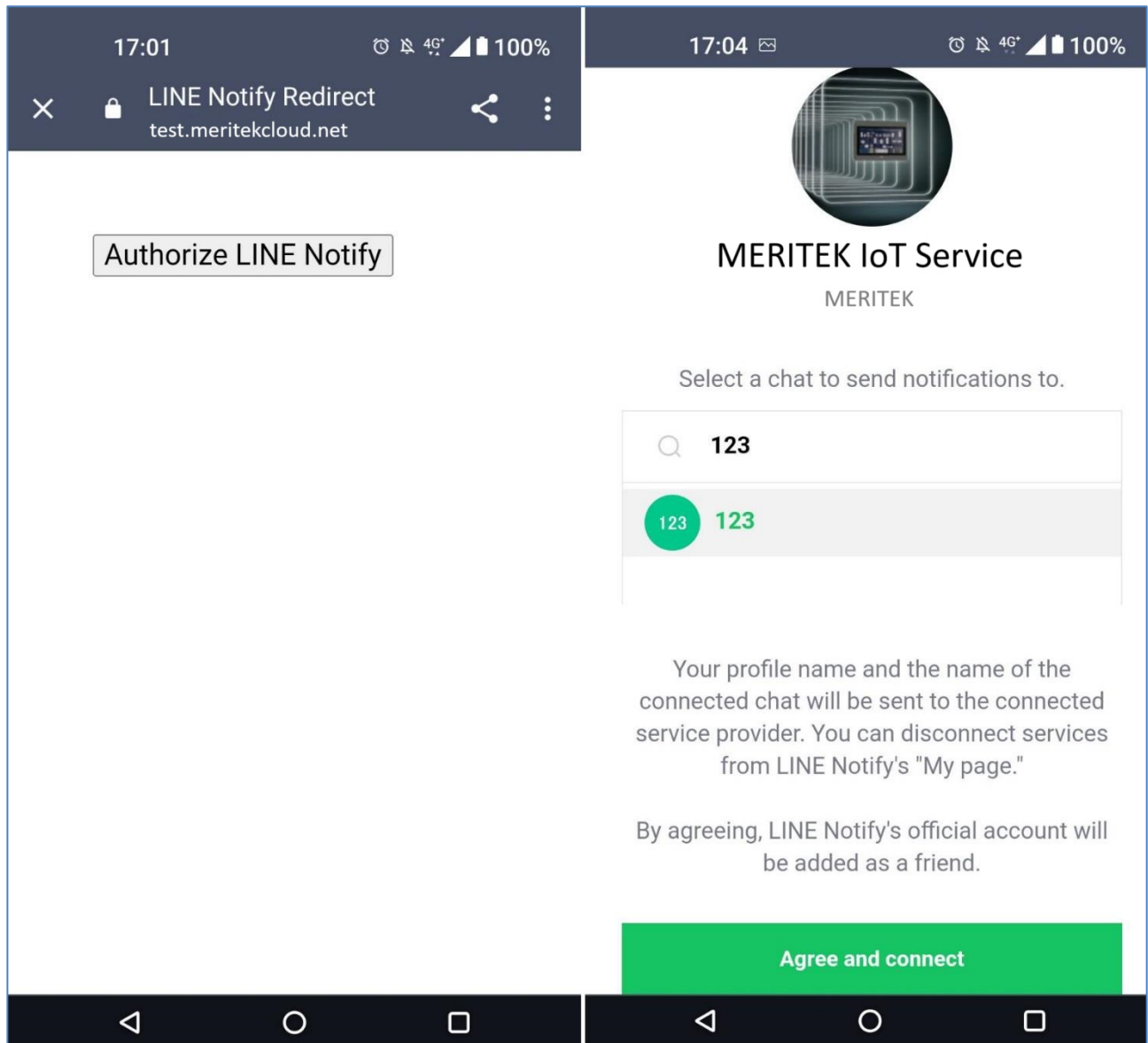
Step 1.

Go to account settings, find "Bind Third-Party App Information Broadcast", press "Add" and a QR code will appear.



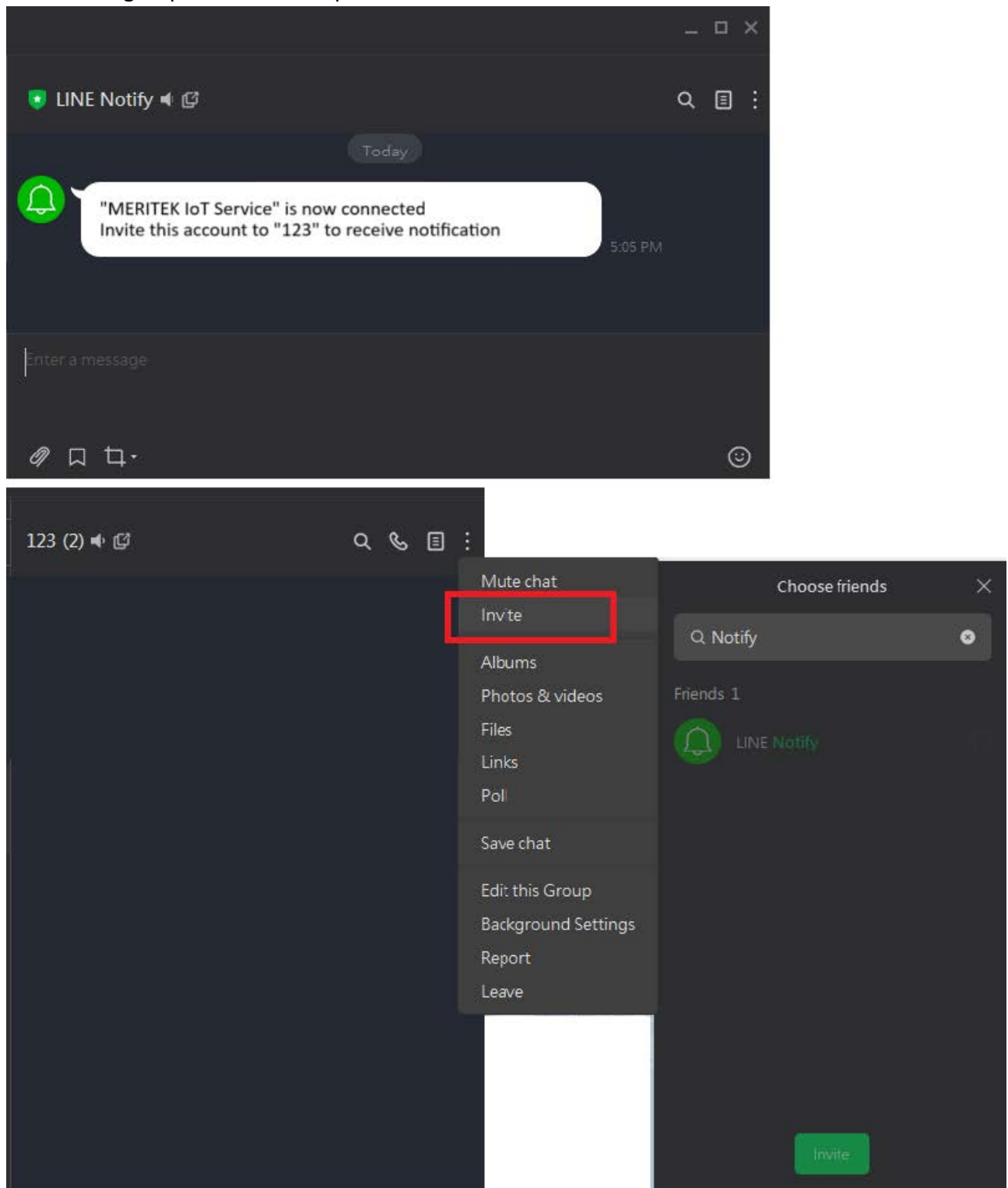
Step 2.

After the QR code appears, please scan it with Line. After scanning, a button requesting authorization will appear. Click on it, select the chat room where you want to receive notifications, and then click "Agree". (If you leave this step without selecting, please restart Step 1).



Step 3.

After linking, an official friend named Line Notify will appear on your phone. Invite this official friend to the group selected in Step 2.



Step 4.

After successful integration, return to the webpage, click "Confirm", check if the newly added item is displayed on the screen, and then click "Save".

Bind Third-Party App Information Broadcast

+ New

Please select new communication

	Test group	LINENOTIFY ☒ Enable	Delete
	memo	LINENOTIFY ☒ Enable	Delete

Change Password

Current Password

New Password

Confirm Password

Cancel Save

Note:

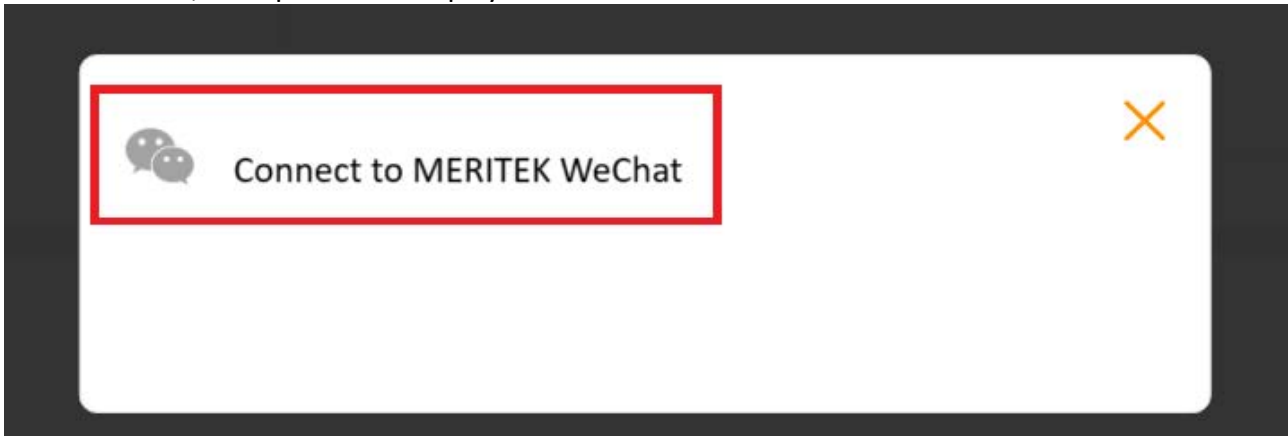
The fields behind the images can be customized to use as notes. After modification.

	123	Save	LINENOTIFY ☒ Enable	Delete
	memo	LINENOTIFY ☒ Enable	Delete	

7.1.2 WeChat

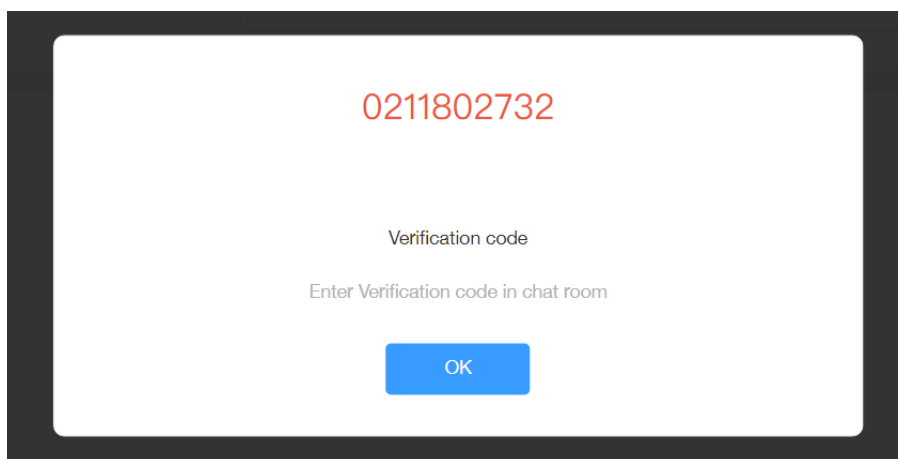
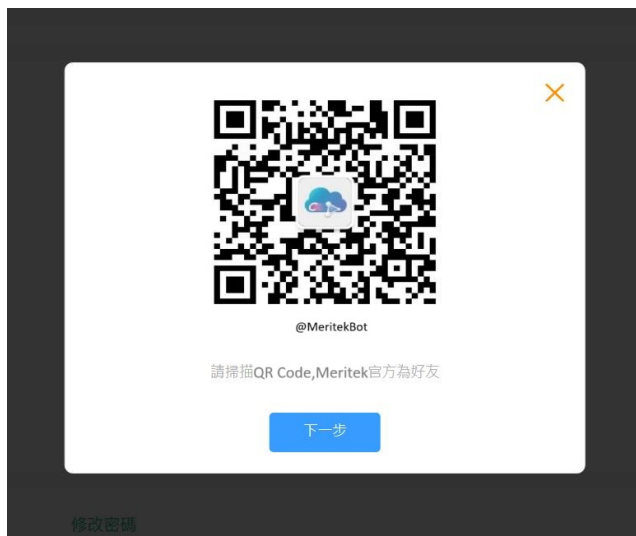
Step 1.

Select WeChat, then press it to display a QR code.



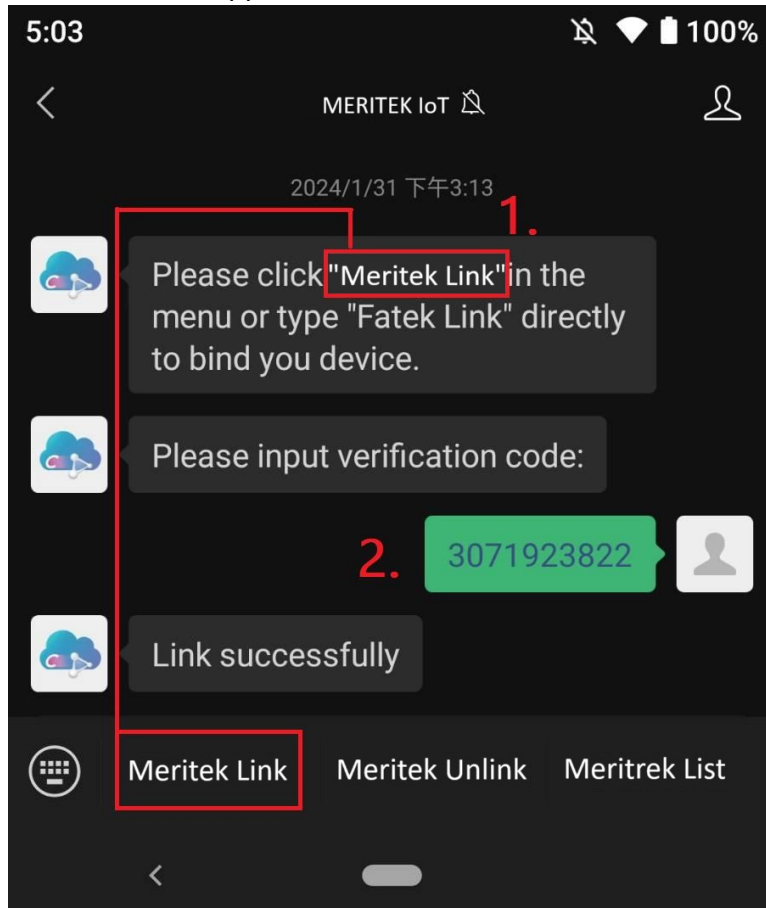
Step 2.

Use the built-in camera in WeChat to scan the QR code. After successful scanning, you will be invited to join the official group. Once joined, click "Next" here to stay on the project identification page.



Step 3.

In the WeChat chat room, click or enter keywords as needed. After completion, you will be asked to enter the project identification code. After entering, a message indicating successful connection will appear.

**Note:**

If you forget the project identification code, you need to return to Step 1 to repeat the process.

7.2 Set up message

7.2.1 iMonitor Dataitems

In the iMonitor's Device List, select the Dataitem you want to enable messages for, then check the option to enable "The third party."

Alarm

Send Email ☒

App Notification ☐

Send SMS Message ☒

The third party ☒

Contact ▾

☐ All customer ID	
☒ meritekrdn003	☐ meritekrdn001
☐ meritekrdn002	☒ kevinlee
☐ tiffany	

Recurrence Interval Minutes

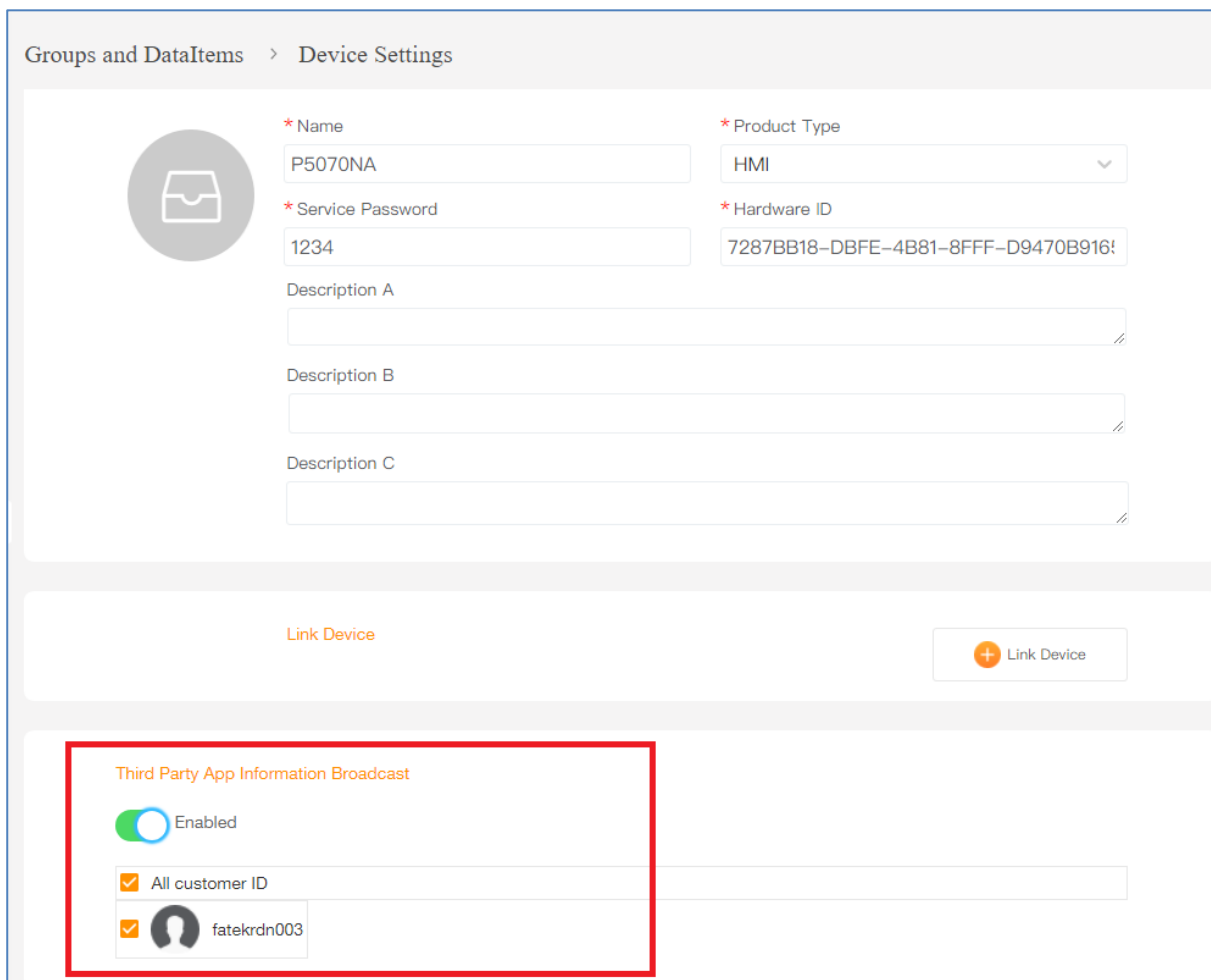
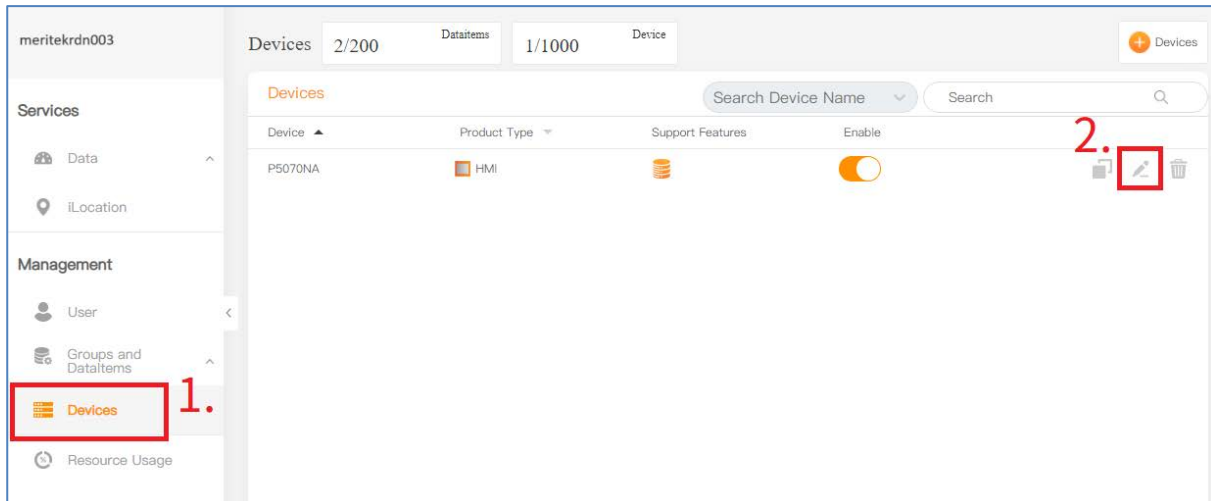
Transfer Delay Time Sec

When a Dataitem triggers an alarm, it will be sent to the selected contacts below.

The contacts must also have their own accounts bound with third-party applications.

7.2.2 HMI Alarm

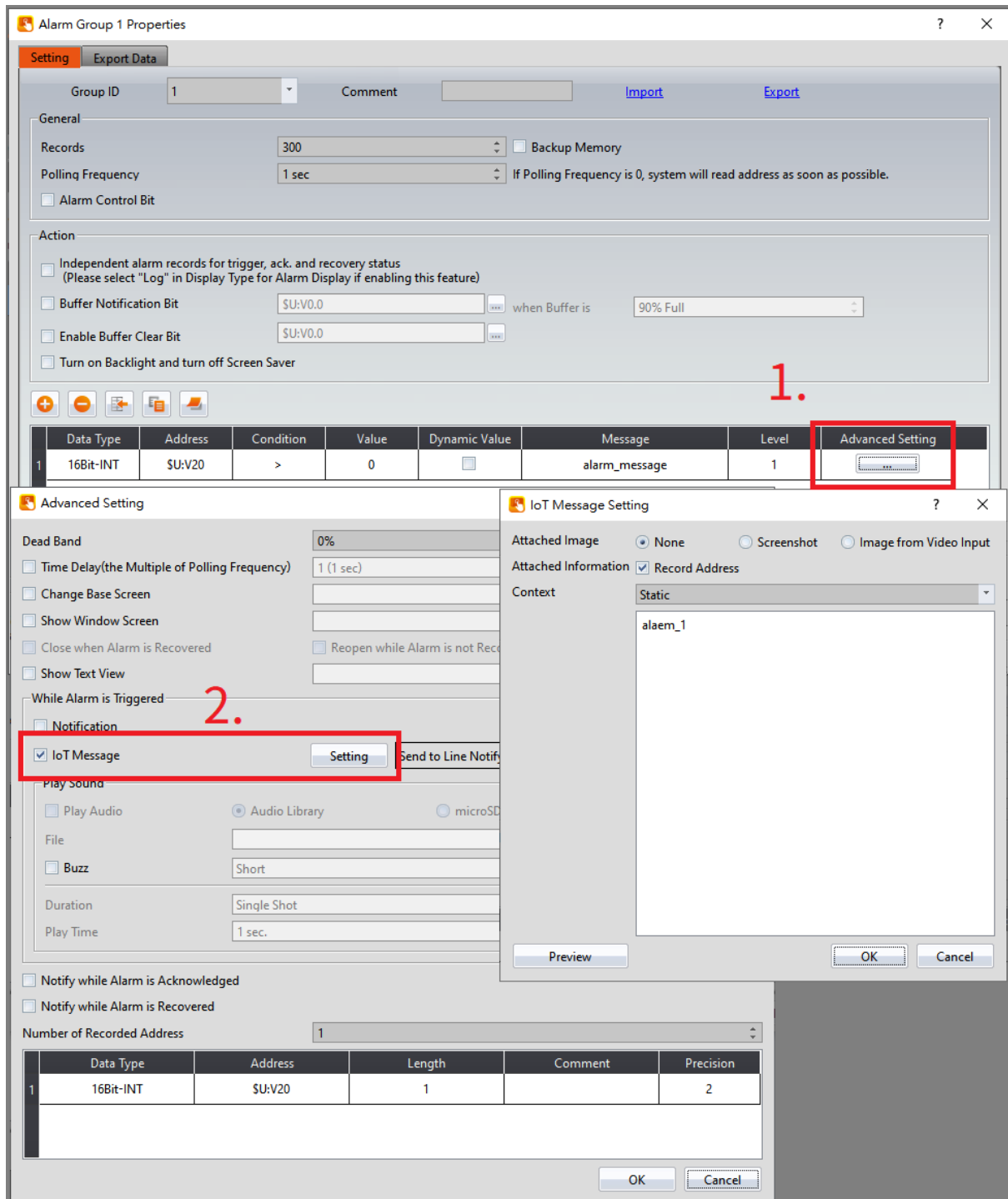
To send a message using HMI, you need to check "Third Party App Information Broadcast" in the device library on the webpage and select the user(s) you want to receive this device's notification.



Next, configure the alarms in FvDesigner.

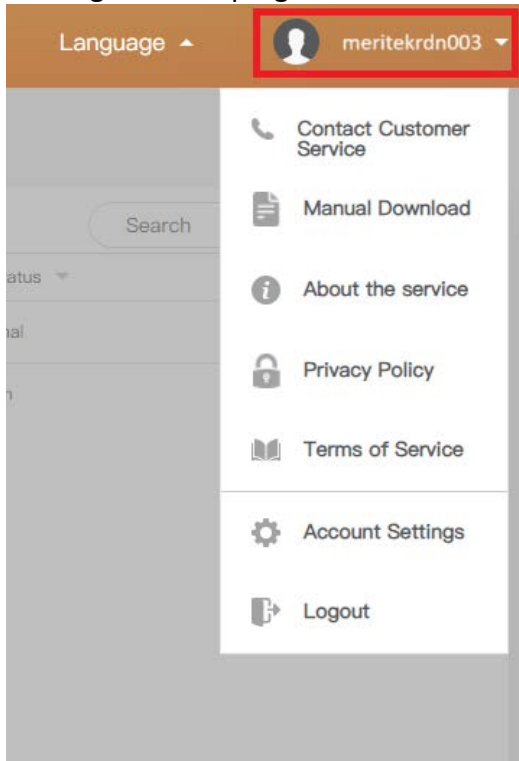
FvDesigner requires version 1.6.61 or above. After accessing the "Advanced Setting" of the alarm, check the "IoT Message" option. You can configure the message content here. When an alarm occurs, the message will be sent to the third-party application.

If the alarm duration is less than 1 second, it may not be sent.



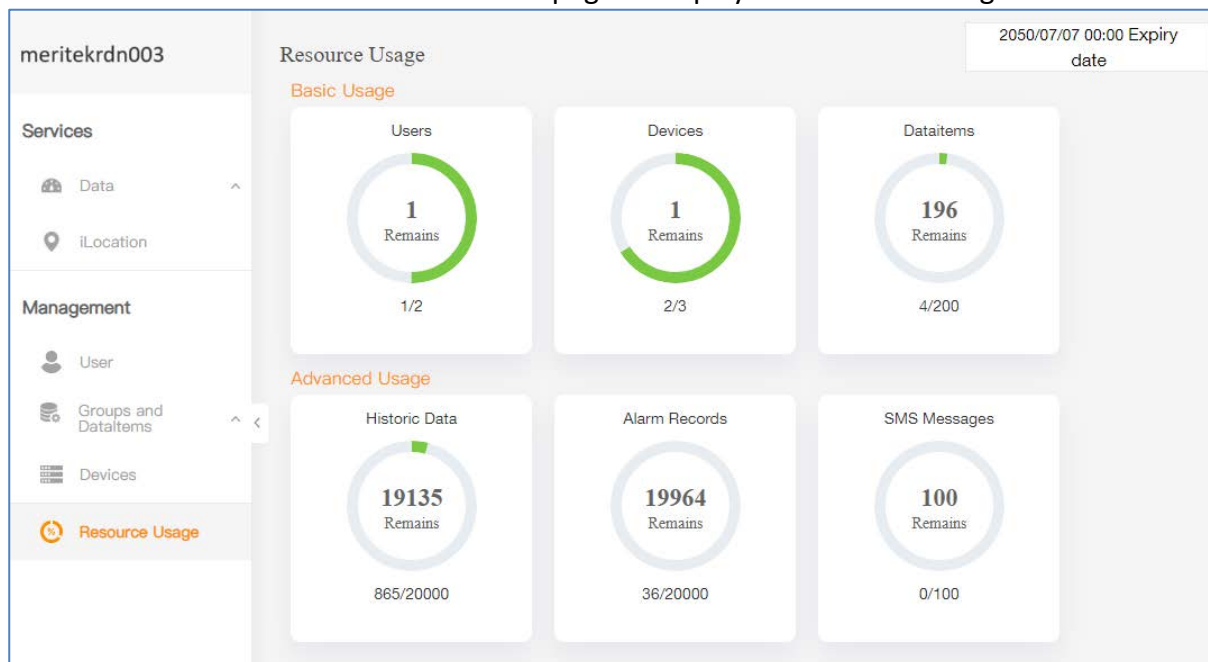
8. User Center and Resource Usage

Clicking on the top right corner of the webpage will trigger a pop-up window.



Item	Describe
Contact Customer Service	Can directly send email to MERITEK customer service for help.
Manual Download	Download the manual.
About the service	Briefly explain supported function and QR code for downloading the App.
Privacy Policy	View the Privacy Policy document.
Terms of Service	When using Meritek service indicates you have accepted. the terms of service, please read these terms carefully.
Account Settings	Modify account settings.
Logout	Exit MERITEK IoT.

Click on the bottom left corner of the webpage to display the Resource Usage.



Here, you will see the usage of various functions, and if it's iMonitor, the expiration date will be displayed.

9. API concatenation

To enable users to use IoT functionalities more flexibly, the following APIs are currently available for use:

GCP	https://meritekcloud.net
Alibaba Cloud	https://meritekiot.cn
Data Format	JSON
HTTP Method	POST

9.1 Login Account

URL

Server /fiot_api/auth/login

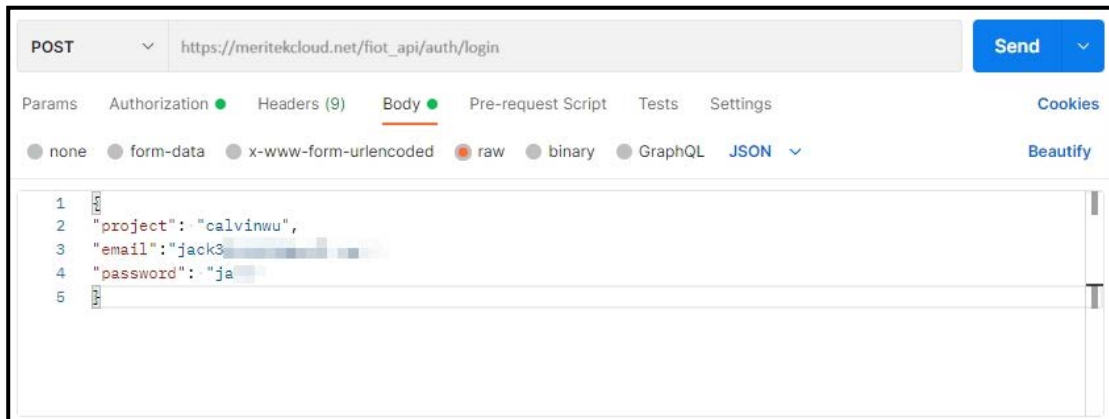
Parameter

Field	Type	Describe
project	String	Customer ID (Required)
email	String	Email
password	String	Password (Required)

Return

Field	Type	Describe
errorcode	Number	0:SUCCESS 1:ERR_INVALID_PARAMETER 3:ERR_ITEM_NOT_EXIST 7:ERR_PROJECT_NOT_EXIST) 8:ERR_AUTH_FAIL) 9:ERR_IN_BLACKLIST 15:ERR_NOT_ACTIVATED
token	String	Token
refresh_token	String	Refresh Token
expired_time	String	Token Expired Time
type	String	User Type
user_id	String	User ID
projectExpireStatus	Number	0: Not expired 1: Expiring soon 2: Expired
projectExpireTime	Number	Project Expiry Time (UNIX TIMESTAMP)

Example



Return



9.2 Logout Account

URL

[Server](#)/fiot_api/auth/logout

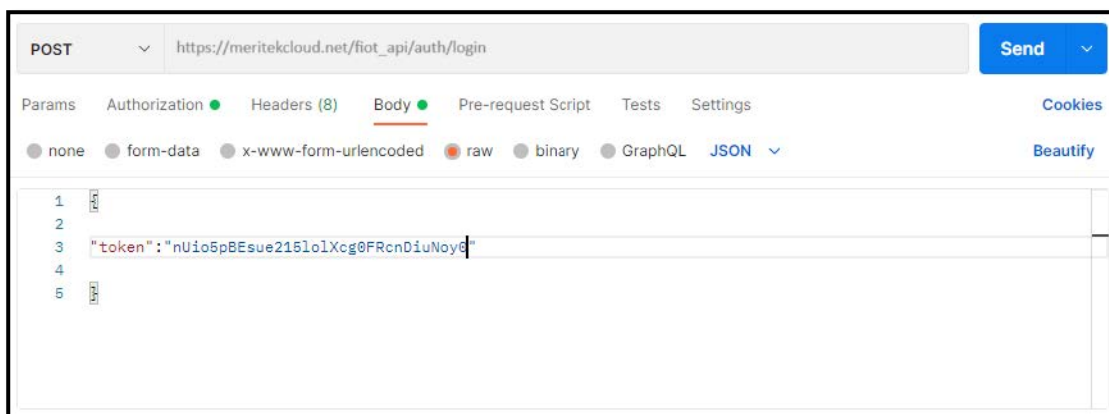
Parameter

Field	Type	Describe
token	String	Token

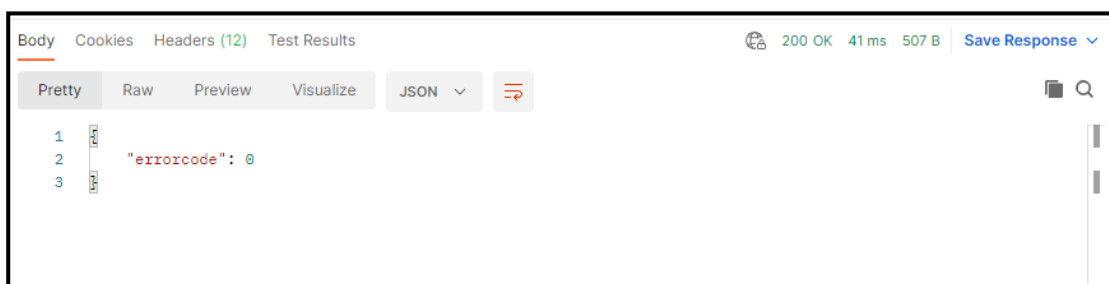
Return

Field	Type	Describe
errorcode	Number	0:SUCCESS 1:ERR_INVALID_PARAMETER 4:ERR_INVALID_TOKEN

Example



Return



9.3 Refresh TOKEN

URL

[Server](#)/fiot_api/auth/refresh

Parameter

Field	Type	Describe
refresh_token	String	refresh_token (Required)

Return

Field	Type	Describe
errorcode	Number	0:SUCCESS 1:ERR_INVALID_PARAMETER 3:ERR_ITEM_NOT_EXIST 4:ERR_INVALID_TOKEN 7:ERR_PROJECT_NOT_EXIST 9:ERR_IN_BLACKLIST 15:ERR_NOT_ACTIVATED
token	String	Token
refresh_token	String	Refresh Token
expired_time	String	Token Expired Time
type	String	User Type

Example

The screenshot displays two panels of a REST client interface. The top panel shows the response body of a successful login request (200 OK, 16 ms, 760 B). The response is a JSON object with the following fields: `errorcode`: 0, `token`: "nUio5pBFsue2151oIXcg0FRcnDiuNov0", `refresh_token`: "7ye1G8qhYRzmAGLNg7lu66cAt6eZ4Y1K", `expired_time`: 10800, `type`: "user", `user_id`: "60e69383aa927a0a05c145ec", `projectExireTime`: 2555770930, and `projectExpireStatus`: 0. The `refresh_token` value is highlighted with a red box. A blue arrow points from this box to the bottom panel. The bottom panel shows a POST request to the endpoint `https://meritecloud.net/ftot_api/auth/login`. The request body is a JSON object containing the `refresh_token` value: `"refresh_token": "7ye1G8qhYRzmAGLNg7lu66cAt6eZ4Y1K"`.

```
1 {
2   "errorcode": 0,
3   "token": "nUio5pBFsue2151oIXcg0FRcnDiuNov0",
4   "refresh_token": "7ye1G8qhYRzmAGLNg7lu66cAt6eZ4Y1K",
5   "expired_time": 10800,
6   "type": "user",
7   "user_id": "60e69383aa927a0a05c145ec",
8   "projectExireTime": 2555770930,
9   "projectExpireStatus": 0
10 }
```

POST `https://meritecloud.net/ftot_api/auth/login` Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies Beautify

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2   "refresh_token": "7ye1G8qhYRzmAGLNg7lu66cAt6eZ4Y1K"
3 }
```

Return

The screenshot displays the response body of a successful login request (200 OK, 77 ms, 760 B). The response is a JSON object with the following fields: `errorcode`: 0, `token`: "6yVed0ow8kwILVbzmAX4wS1iSuGcTovP", `refresh_token`: "7ye1G8qhYRzmAGLNg7lu66cAt6eZ4Y1K", `expired_time`: 10800, `type`: "user", `user_id`: "60e69383aa927a0a05c145ec", `projectExireTime`: 2555770930, and `projectExpireStatus`: 0.

```
1 {
2   "errorcode": 0,
3   "token": "6yVed0ow8kwILVbzmAX4wS1iSuGcTovP",
4   "refresh_token": "7ye1G8qhYRzmAGLNg7lu66cAt6eZ4Y1K",
5   "expired_time": 10800,
6   "type": "user",
7   "user_id": "60e69383aa927a0a05c145ec",
8   "projectExireTime": 2555770930,
9   "projectExpireStatus": 0
10 }
```

9.4 Obtain Dataitem Group List

URL

Server /fiot_api/imonitor/group/list
--

Parameter

Field	Type	Describe
token	String	TOKEN (Required)

Return

Field	Type	Describe
errorcode	Number	0:SUCCESS 1:ERR_INVALID_PARAMETER 4:ERR_INVALID_TOKEN 255:ERR_NO_PERMSSION
Number	Number	Group Count
groups	Object[]	Group List
name	String	Name, Non-duplicate within the project
group_id	String	Group ID
location	String	GPS Coordinates, "DMS 021° 58'50.100 125° 06'08.067"
cloud_status	Number	0: Not connected 1: Connected, no report 2: Connected, reported 5: Communication abnormality
alert	Boolean	Alarm Status
permission	String	Read/write permissions for this user

Example

POST ▼ https://meriteklcloud.net/fiot_api/monitor/group/list Send ▼

Params Authorization ● Headers (8) ● Body ● Pre-request Script Tests Settings Cookies

● none ● form-data ● x-www-form-urlencoded ● raw ● binary ● GraphQL JSON ▼ Beautify

```

1 [
2   "token": "6yVed@ow8kwILVbzmAX4WS1iSuGcTovP"
3 ]

```

Return

Body Cookies Headers (13) Test Results 200 OK 61 ms 1.01 KB Save Response ▼

Pretty Raw Preview Visualize JSON ▼ ≡

```

1 [
2   "errorcode": 0,
3   "groups": [
4     {
5       "group_id": "5dbbd5ae04e06b9a409afa67",
6       "name": "MERITEK_HMI",
7       "location": "DMS 000°00'00.000 000°00'00.000",
8       "ddLocation": "0 0",
9       "alert": false,
10      "permission": "RW"
11    },
12    {
13      "group_id": "62343c4da1c398b834d0/cfb",
14      "name": "MERITEK_CMWLC",
15      "location": "DD 000.0000000 000.0000000",
16      "ddLocation": "000.0000000 000.0000000",
17      "alert": false,
18      "permission": "RW"
19    },
20    {
21      "group_id": "5ceb9ca6772b97d73fdcc851",
22      "name": "MERITEK_CBES",
23      "location": "000.0000000 000.0000000",
24      "ddLocation": "",
25      "alert": false,
26      "permission": "RW"
27    }
28  ],
29   "Number": 3

```

9.5 Obtain the Dataitem Information of the Dataitem Group

URL

Server /fiot_api/imonitor/group/dataitems

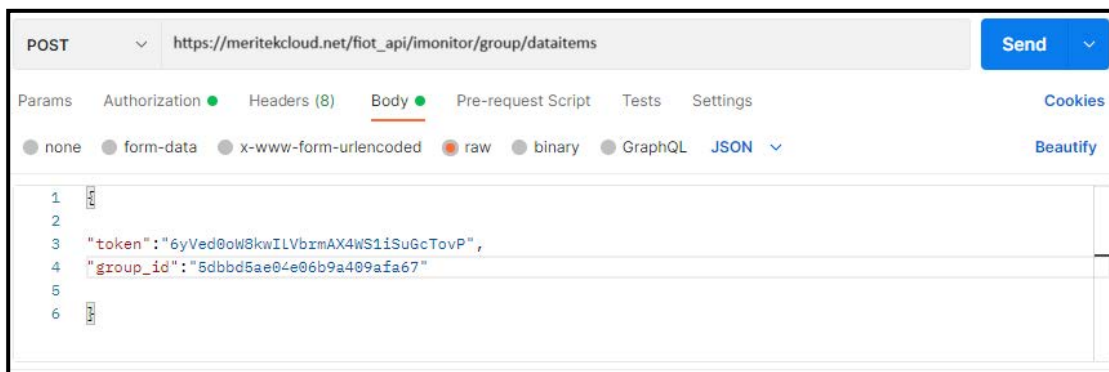
Parameter

Field	Type	Describe
token	String	TOKEN (Required)
group_id	String	Group ID (Required)

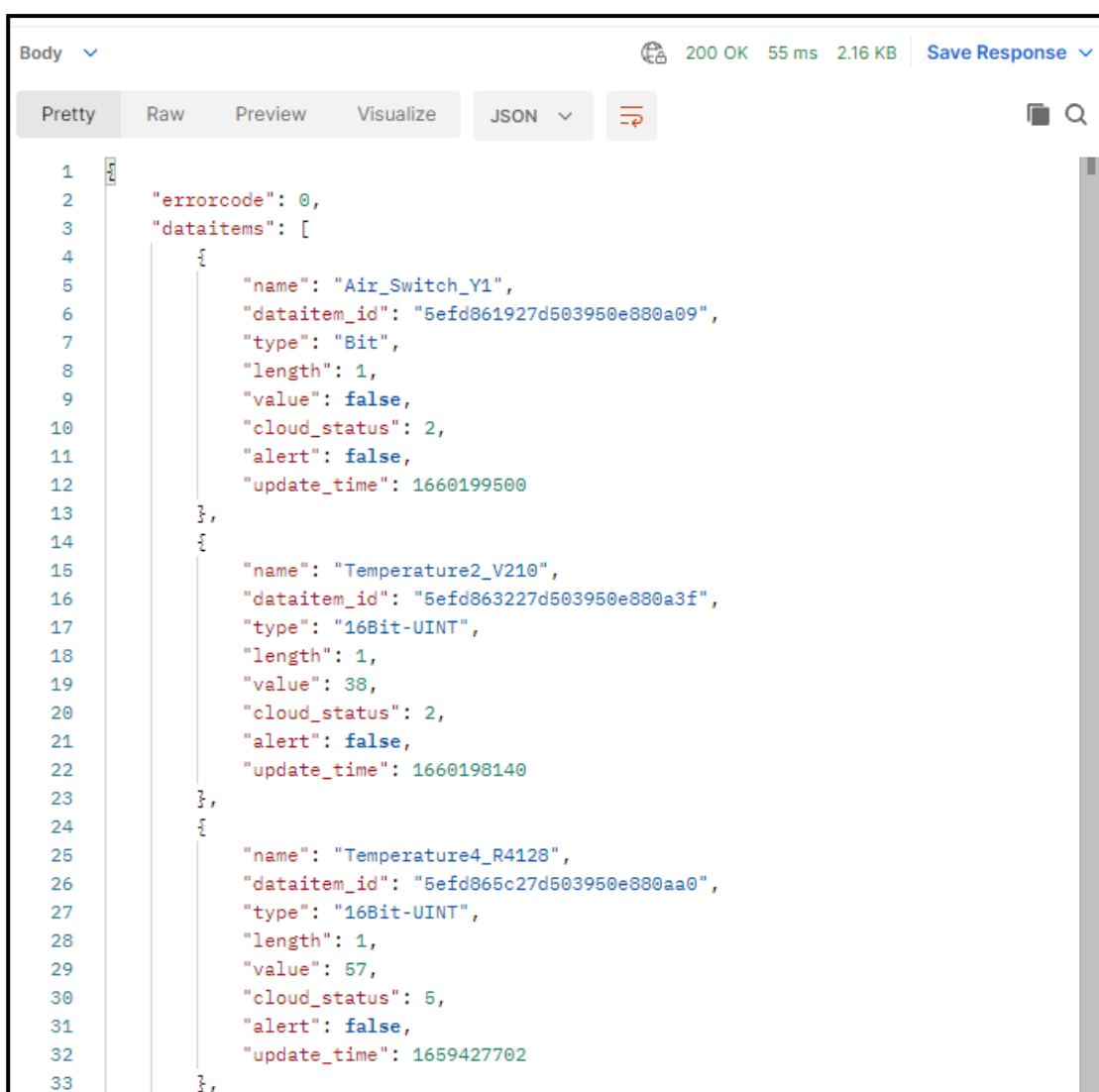
Return

Field	Type	Describe
errorcode	Number	0:SUCCESS 1:ERR_INVALID_PARAMETER 3:ERR_ITEM_NOT_EXIST 4:ERR_INVALID_TOKEN 255:ERR_NO_PERMSSION
Number	Number	Data Item Count
dataitems	Object[]	Data Item List
name	String	Data Item Name
dataitem_id	String	Data Item ID
type	String	Data Item Format (e.g., BIT/INT)
length	Number	Data Item Data Length (<100)
value	Number	Data Item Value
cloud_status	Number	0: Not connected 1: Connected, no report 2: Connected, reported 5: Communication abnormality
alert	Boolean	Alarm Status
update_time	Number	Data Item Update Time

Example



Return



9.6 Obtain Dataitem Information

URL

[Server](#)/fiot_api/imonitor/dataitem/value

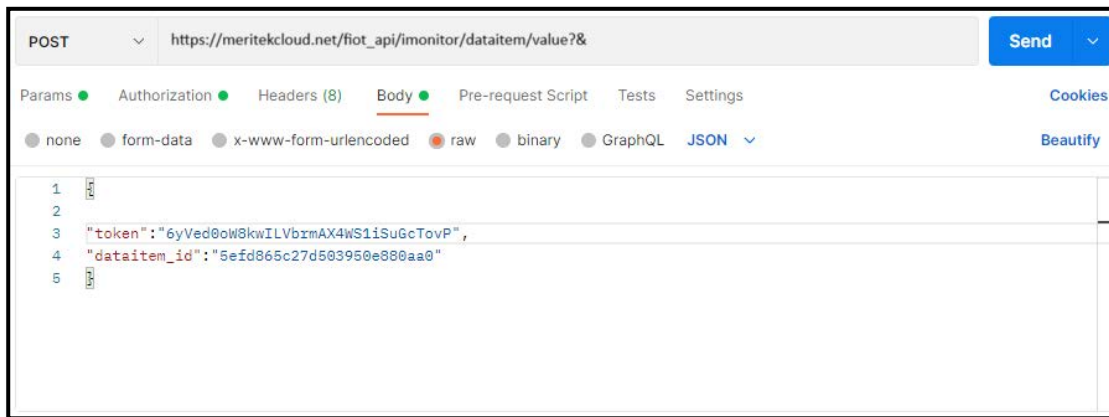
Parameter

Field	Type	Describe
token	String	TOKEN (Required)
dataitem_id	String	Dataitem ID (Required)

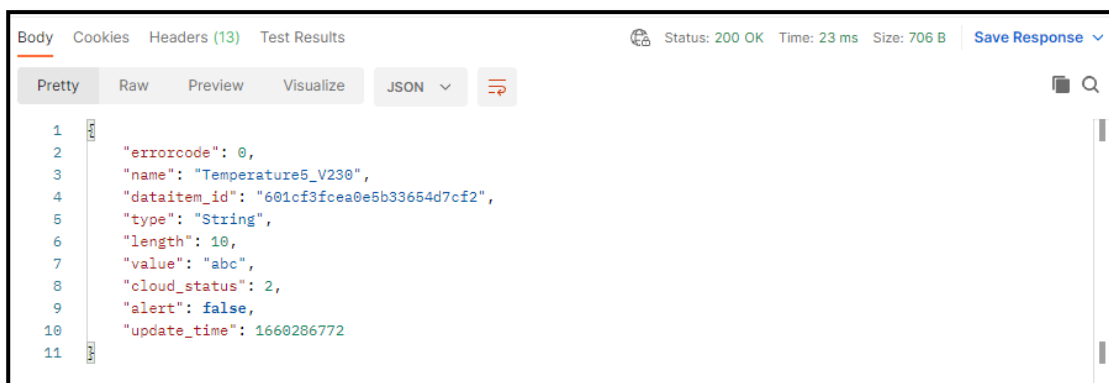
Return

Field	Type	Describe
errorcode	Number	0:SUCCESS 1:ERR_INVALID_PARAMETER 3:ERR_ITEM_NOT_EXIST 4:ERR_INVALID_TOKEN 255:ERR_NO_PERMSSION
name	String	Data Item Name
dataitem_id	String	Data Item ID
type	String	Data Item Format (e.g., BIT/INT)
length	Number	Data Item Data Length (<100)
value	Number	Data Item Value
cloud_status	Number	0: Not connected 1: Connected, no report 2: Connected, reported 5: Communication abnormality
alert	Boolean	Alarm Status
update_time	Number	Data Item Update Time

Example



Return



9.7 Setting Dataitem Values

URL

[Server](#)/fiot_api/imonitor/dataitem/setValue

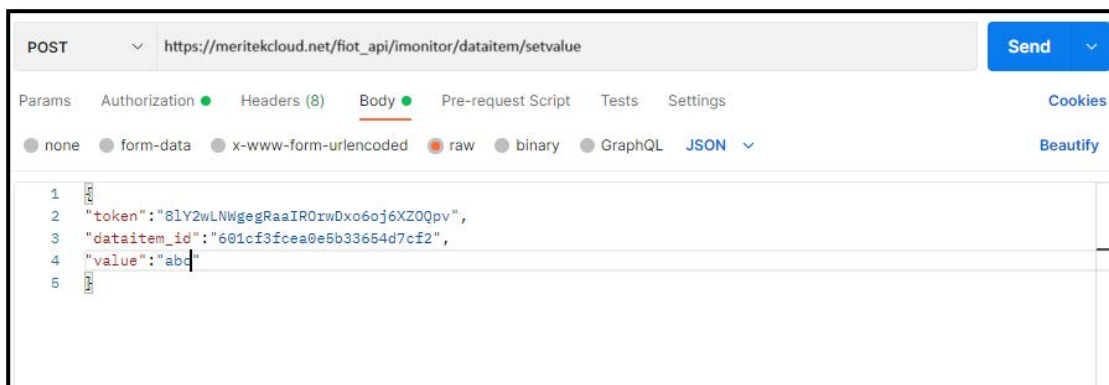
Parameter

Field	Type	Describe
token	String	TOKEN (Required)
dataitem_id	String	Dataitem ID (Required)
value	Any	Numerical value/number or string depending on the type (Required)

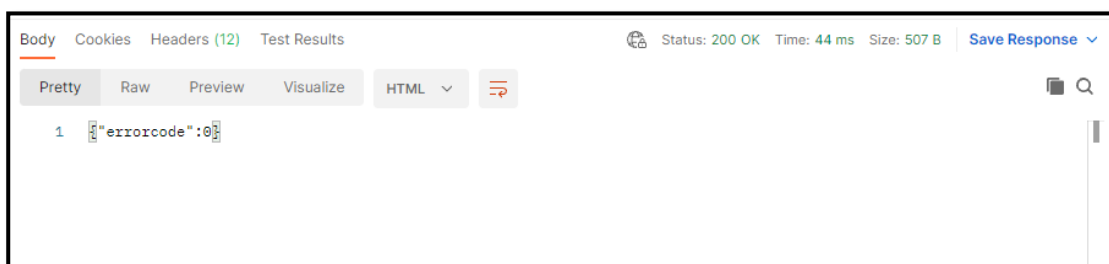
Return

Field	Type	Describe
errorcode	Number	0:SUCCESS 1:ERR_INVALID_PARAMETER 3:ERR_ITEM_NOT_EXIST 4:ERR_INVALID_TOKEN 255:ERR_NO_PERMSSION

Example



Return



Note: Strings support input "abc", numbers support input 10, boolean values support input true or false.