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## 1 Login



Open the browser and enter the website address: <u>https://www.xingxuanda.net/login.html</u> Enter the user name, password, and press the enter key or click on the "login" button to log on the IOT cloud platform.



## 2、home page

#### 2.1 Top area



This area includes functional modules of logo information, login user name, logout and password modification.

#### 2.1.1 Account information

Click the login user name "mydemo" to pop up the interface of account information.

	Welcon	e mydemo
Account information	>	
Pleas	e complete the following information	: <b>16</b> (100.00
Account	mydemo	Quer
Creation date	2018-11-19 14:05:42	
Active state	Activated	
Contact number	020-88888888	
Email	999999999@qq.com	
Contact address	Shenzhen City, Guangdong Province	*****
Remark	2018 test account	1.1
LOGO info		
	Save	

You can edit the contact telephone number, email address, contact address, remarks information and logo information in this interface. Click "Save" to automatically jump to the system login page after saving successfully, and then enter the user name and password to log in again.

#### 2.1.2 Change password

Click"password" to pop up the below interface:

	Welcome, <b>mydemo!</b>		Password
Password		× Its:	0 (0.00%)
Old password		E ID	O.
New password			
Confirm password			
	Save	el	
		-	

Here you can change the password.

#### 2.2 Tabs

This area includes Maps(device distribution map), Overview, Templates,

Devices(equipment management) and Users(users management) :



### 2.3 Equipment status bar



1) Click the characters such as "total", "online", "offline" and "faults" to enter the corresponding equipment overview page. For example, after clicking "online", it is shown in the following figure:

IOT Cloud Wekome, mydemot Loop								
Maps	Overview Templat	s Devices		Total:	21 Online: 1 (4.76%)	Offline: 20 (95.24%)	Faults: 0(0.00%)	
						Query by GPRS IE	o O.	

2) Click "Faults" to query all the faults (pie chart and report) of the day under the current login account, as shown in the following figure:

	IOT Cloud						Wel	come, mydemo!	Logout Password
W Maps	Overview Templat	tes Devices Users				Total: 21	Online: 1(476%)	Offline: 20(95.24%)	Faults: 0(0.00%)
Start time	2020-07-27 00:00:00	End time 2020-07-27 23:59:59	Q, Search						🖨 Export
				Numbe	Fault Statistics of occurrences (percentage)			- No Faults	
					-No Faults				
No	o. GPRS ID	Alarm Time	Fault Description		Alarm Frequency				
					2020 © IOT Cloud				

Select a time period (the end time must be greater than the start time), and click "search" to query the faults (pie chart and report) occurred in the selected time period

### 2.4 Maps

This area includes GPRS distribution on the map and GPRS search function.

Input GPRS ID (limited to 14 digit characters) in the search box, press enter or click the search icon to search the geographical location and online status of GPRS on the map. For example, enter "0000000000002" and press enter to search, as shown in the figure below:



\*Note: the green mark  $\heartsuit$  on the map is online, and the red mark  $\heartsuit$  is offline.

Click "GPRS ID" to enter the GPRS real-time monitoring page. For example, click "0000000000002" in the above figure to enter the real-time monitoring page, as shown in the figure below:

от 🎧	Cloud							Welco	ome, mydemo! Logout Overview
# General-Pu	rpose Inverter GPRS R&W Fault Statistics H								
Basic info		Undatatime : 2020.07.27.17:55:2						Control panel	Timing Setting>>
GPRS ID	0000000000002	opuateune : 2020-07-27 17:552	, 						
Template name	CT112							RUN	REV
Customer name	demo	a familie for		al and the		and participation of the			
SIM Card	1440032585243	200 800		200 800		200 200		STOP	RESET
SIM State	Normal	- 100 / 400 -		100 400 -		100 400			
SIM Type	No card			· · · · ·		500		Common parameters	Virtual Ports s
Used flow	500M	Output fragmancy		Output current		Output voltage	·	common parameters	THRUSH FOR F
Surplus flow	OM	Output inequency		Output current		Output voltage		Frequency	(Hz)
Creation date	2016-09-20 14:40:51								
	a Bagulou	Pump speed(C0.03)	0 RPM	DC working voltage(C0	307.7 V	Frequency reference(C	0 Hz	Read	Set
		X terminals state(C0.08)	0 -	Output power(C0.05)	0 KW	Current poweron time(	12756 min	_	
	Gr Point: [113.875324 22.581759] ×	8						Parameter name	
ng Passenger	DOME CALIFIC	Current running time(C	1.1 min	Remain running time(C	0 min	working status(C0.33)	0 -	Please select	· ·
port Terminal	Xtxiang No 1 Bridge	MPPT reference voltag	0 V	Today flow	0 M^3	Total flow 2	0 m^3		
tock	Stiendhen Badan Xixia	31						Parameter value	
	Prople's Hospital	Total flow 1	0 m^3	Today energy	0 kwh	Total energy 1	0 kwh		
	R Hantang Yinxing Hotel	Total energy 2	0 kwh	DC bus current(C0.57)	0 A	Flow rate(C0.58)	0 m^3/h		
	Xixiang Park 🐑 🔘 Wixiang S	L						Read	Set
Hong	en Mansion							_	
Operation reo	ord	l							
Time	Operation	•	-O- C	utput frequency Output curren	t -O- Output	: voltage			1-74
2020-07-27	mulane and "DUN" armound								
17:54:11	mydenio sena kon commana.	'1						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
2020-07-27		0.8 -							
17:49:31	mydemo send "STOP" command.	06							
2020-07-27						17:55:20			
16:57:16	demo send "正转运行" command.	0.4 -				<ul> <li>Output frequency: 0Hz</li> <li>Output current: 0A</li> </ul>			
2020-07-27	midemo modify "0000000000000000"	0.2-				Output voltage: 0V			
2020-07-27	mydenio modity odobodobodo gprs								
10:12:40	device.	17:55:13 17:55:14	17:	55:15 17:55:16 17:5	5:17 1	7:55:18 17:55:19	17:55:20	1 PARTIES	
2020/07/27									
				2020 © IOT Cloud					

### 3、Overview

This interface displays all GPRS information under the current login account in the form of tag card, and provides GPRS search function.

#### 3.1 Tab card information

- 1) GPRS application industry picture: Click to enter the real-time monitoring page.
- 2) Elignal icon: indicates the signal strength of the location when GPRS is online.
- 3) Basic information: GPRS ID, GPRS owner, parameter template used, remarks, update time.
- 4) Operation function button: use this function can remote control the on-line devices which installed with the GPRS.

\*Note: the background of tag card is blue, which means GPRS is online; gray background is GPRS offline。

#### 3.2 Real-time monitoring

Click GPRS application industry picture is to enter the real-time monitoring page.

от 🌍	Cloud					Welcome, mydemo! Logout Overview
# General-Purp	pose Inverter GPRS R&W Fault Statistics Hi	storical Data Curve Analysis				
Basic info GPRS ID	000000000002	Updatetime : 2020-07-27 17:55:20	0		Control panel	I Timing Setting>>
Template name Customer name SIM Card SIM State SIM Type Used flow Sumius flow	CTT12 demo 1440032585243 Normal No card 500M	OHz	A Dutput cu		to so to so to to to to to to to to to to to to to	RUN REV STOP RESET ameters Virtual Port>>
Creation date	2016-09-20 14:40:51				Frequency	(Hz)
ng Passenger sport Terminal cock use Building (a) Hongre	A Burgeha      Point: [11:2675342 22:591759]      Point: [11:2675342 22:591759]      Cragen BallCarden @      Pointernet Namme Name Name      Pointernet Name Name Name Name Name Name Name Name	Pump speed(C0.03) X terminals state(C0.08) Current running time(C MPPT reference voltag Total flow 1 Total energy 2	BENI DC working voltage(CD.     Output power(CD05)     Inim Remain running time(C.     V Today flow     m^3 Today energy     Olwin DC bus current(C0.57)	30.7.7 V Frequency referent     0.KW Current poweron 1     0.min working status(C0     0.MA3 Total flow 2     0.kuh Total energy 1     0.A Flow rate(C0.56)	cetC 0 1/12 Read imeL 12756 min 333 0 m <sup>-5</sup> 3 0 m <sup>-5</sup> 3 0 m <sup>-5</sup> 3/h Read	e e vi
Operation reco	rd				2	
Time 2020-07-27 17:54:11	Operation	17	-O- Output frequency -O- Outpu	t current -O- Output voltage		
2020-07-27 17:49:31	mydemo send *STOP* command.	0.8-		1775.30		
2020-07-27 16:57:16	demo send "正转运行" command.	0.4-		Cutput freque     Output current	ency: 0Hz ent: 0A	
2020-07-27 16:12:46	mydemo modify "0000000000002" gprs device.	0 17:55:13 17:55:14	17:55:15 17:55:16	17:55:17 17:55:18 17:55:	ige: 0V	

## 4、Templates(Parameter template)

	OT Cloud				We	lcome, mydemo!	Logout Password			
N Maps	Overview Tem	plates Devices	Users				Total: 21	Online: 1(4.76%)	Offline: 20 (95.24%)	Faults: 0(0.00%)
④ Add	1 Delete									99
No	0 Template M	Name © Crea	tion Date	Remark	Operation	Import/Export				
										â

#### 4.1 New parameter template

Click the "add" button in the upper left corner, and enter the interface as shown in the figure below:

IOT Cloud				Welcome, myd	emo! Logout Password
Maps Overview Templates	Devices Users			Total: 21 Online: 1 (4.76%) Offline: 2	0 (95.24%) Faults: 0 (0.00%)
Add					×
Template name	Monitoring parameters Commo	2 on parameters	3 Fault definition	4 Button definition	
No. Register Ad C	Chinese Description English Description Unit	Accuracy Display Type	Address Format Operation		
⊙ Ada Item		Template Name Template Name Template Name Remark Ne	x 12020 w template test Save Cancel		Nex
		2020 © IOT	Cloud		

After filling in the template name and remarks, click save, and the prompt "save successfully" indicates that the new empty template has been added successfully.

Then click "next" to step 4 "button definition" page (this operation is to write the basic parameters of "button definition" into the newly added empty template), as shown in the following figure:

<b>C</b> 1	IOT	Cloud									Welcome, my	demol
# Ma	ips O	verview	Templates	Devices	Users						Total: 21 Online: 1(476%) Offline:	20 (95.24%
Add												
mpla	ite name	Test202	0.	Monitoring	parameters		Common p	arameters		Fault definition	4 Button definition	
	No.	0	Chinese Descri	iption I	English Description	Executes Instr	ctions	Successful	Receipt	Operation		
	3	1	王转动运行	3	RUN	01 06 20 00 0	01 43 CA	01 06 20 0	10 00 01 43 CA	🖌 Edit		
	2	1	反转运行	REV		01 06 20 00 0	02 03 CB	01 06 20 0	10 00 02 03 CB	🖌 Edit		
	3	MERINAL STOP		STOP	01 06 20 00 0	05 42 09	01 06 20 0	0 00 05 42 09	🖌 Edit			
	4	3	故障复位	1	RESET	01 06 20 00 0	07 C3 C8	01 06 20 0	0 00 07 C3 C8	🖌 Edit		
	No.	Chines	Engli	Start T	Start Instruction	Chine	s Engli	End TI	End Instruction	Operation		
	1	正转运	FT RUN	00:00:00	0 01 06 20 00 00 01	43 CA 自由	机 STOP	00:00:00	01 06 20 00 00 05 42	09 🖌 Edit		
	2	正转运	RUN	00:00:00	01 06 20 00 00 01	43 CA 自由	初 STOP	00:00:00	01 06 20 00 00 05 42	09 Cdit		
	3	正转运	FT RUN	00:00:00	0 01 06 20 00 00 01	43 CA 自由	机 STOP	00:00:00	01 06 20 00 00 05 42	09 🖌 Edit		
	4	正转运	F RUN	00:00:00	01 06 20 00 00 01	43 CA 自由(	机 STOP	00:00:00	01 06 20 00 00 05 42	09 🖌 Edit		
	5	正转运	FT RUN	00:00:00	01 06 20 00 00 01	43 CA 自由	机 STOP	00:00:00	01 06 20 00 00 05 42	09 🖌 Edit		
	6	正转运	RUN	00:00:00	0 01 06 20 00 00 01	43 CA 自由(	机 STOP	00:00:00	01 06 20 00 00 05 42	09 🖍 Edit		
	7	正转运	行 RUN	00:00:00	01 06 20 00 00 01	43 CA 自由	机 STOP	00:00:00	01 06 20 00 00 05 42	09 🖍 Edit		
	8	正转运	F RUN	00:00:00	0 01 06 20 00 00 01	43 CA 自由	机 STOP	00:00:00	01 06 20 00 00 05 42	09 🖌 Edit		

Click "submit", pop up the prompt of "submitted successfully". at this time, click " $\times$ " (the top right corner of the page) to close the new page, and you can find the template new added in the last line of the template list, and the basic parameters of button definition have been written to the template.

	71	Test2020.	2020-07-27 18:04:33	New template test	🖊 Edit	Apply	⊕ Import	Export

#### 4.1.1 monitoring parameters

Click the "Edit" button to pop up the interface of monitoring parameter. Click the "Add item" button to enter the interface of parameter editing, then click the "confirm" button to complete the parameter item addition. as shown in the figures below.



The pop-up interface will not be closed automatically. You can continue to add parameters to be monitored. At the same time, the list also provides editing and deleting operation functions.

\*Note: the parameters added and confirmed in this step are only added and saved in the current monitoring parameter table, but not written into the template. If the parameters to be added are written into the template immediately, click "next " to step 4 "button definition" page, click "submit" in the lower right corner, and prompt "submitted successfully", all parameters have been written into the template. If the operation is wrong and the "submit" is

not executed, then the "button definition" of the template is blank. You can delete and create a new one, or refer to 4.5 parameter template import.

#### 4.1.2 Common parameters

The operation is similar to the operation of monitoring parameters in 4.1.1.

#### 4.1.3 Fault definition

The operation is similar to the operation of monitoring parameters in 4.1.1.

#### 4.1.4 Button definition

This function block includes the basic button definition and timing settings, and provides editing functions. As shown in the figure below:

112	ite name	Test2020.		Aonitoring pa	rameters		Co	mmon pa	rameters		Fault defini	ition Button definition
	No.	Chin	ese Descrip	tion Eng	glish Description	Executes Inst	tructions		Successful	Receipt	Operation	
	1	IE46	置行	RU	N	01 06 20 00	00 01 43	CA	01 05 20 0	0 00 01 43 CA	🖉 Edit	
	2	反转	运行	RE	V	01 06 20 00	00 02 03	CB	01 06 20 0	0 00 02 03 CB	🖌 Edit	* In cathering of a Constation of
	3	减速	序机	STO	OP	01 06 20 00	00 05 42	09	01 06 20 0	0 00 05 42 09	🖌 Edit	button definition
	4	20,00	見行	RE	SET	01 06 20 00	00 07 C3	СВ	01 06 20 0	0 00 07 C3 C8	🖌 Edit	
	No.	Chines	Engli	Start T	Start Instruction	Chi	nes	Engli	End Ti	End Instruction	Operation	
	1	正转运行	RUN	00:00:00	01 06 20 00 00 01 4	43 CA Eld	師机	STOP	00:00:00	01 05 20 00 00 05 42 09	🖌 Edit	
	2	正转运行	RUN	00:00:00	01 06 20 00 00 01 4	43 CA 曲印	166-87.	STOP	00:00:00	01 06 20 00 00 05 42 09	🖌 Edit	
	3	正转运行	RUN	00:00:00	01 05 20 00 00 01 4	13 CA Ele	師都	STOP	00:00:00	01 06 20 00 00 05 42 09	🖌 Edit	
	4	正转运行	RUN	00:00:00	01 06 20 00 00 01 4	43 CA 自由	HAR	STOP	00:00:00	01 06 20 00 00 05 42 09	🖌 Edit	
	5	正转运行	RUN	00:00:00	01 05 20 00 00 01 4	43 CA 目由	1881	STOP	00:00:00	01 06 20 00 00 05 42 09	🖌 Edit	
	6	正統运行	RUN	00:00:00	01 06 20 00 00 01 4	43 CA 自由	H\$F81.	STOP	00:00:00	01 05 20 00 00 05 42 09	🖌 Edit	anning setting
	7	正转运行	RUN	00:00:00	01 06 20 00 00 01 4	43 CA 🗎 🕮	1998	STOP	00:00:00	01 05 20 00 00 05 42 09	🖌 Edit	
	8	正转运行	RUN	00:00:00	01 06 20 00 00 01 4	43 CA 自由	(学校)	STOP	00:00:00	01 05 20 00 00 05 42 09	🖌 Edit	

When editing, please enter the time in English format. After editing, click" confirm". In order to make it effective, click "submit" in the lower right corner to write it into the template.

#### 4.2 Edit parameter template

Find the template you want to edit, and click "Edit" button of the line, as shown in the following figure:

	71	Test2020.	2020-07-27 18:04:33	New template test	🖊 Edit		(f) Import	() Export
--	----	-----------	---------------------	-------------------	--------	--	------------	-----------

The following operation is similar to 4.1.1-4.1.4.

\*Note: If you want to make each step take effect immediately, please click "next" button enter step 4 "button definition" interface, and then click "submit" button to write it into the template.

#### 4.3 Delete parameter template

Select the check box in front of the row of the parameter template to be deleted, and click the "delete" button in the list head to pop up a warning prompt, as shown in the figure below:

I Maja       Dervice       Tengletic       Dervice       Under: Hauro       Office: H	IOT Cloud							We	lcome, mydemol	Logout Password
Image       Control to the metal       Remark       Operation       Image/UEspot         Image       Image       Image       Image       Image       Image         Image       Image       Image       Image       Image       Image       Image         Image       Image       Image       Image       Image       Image       Image       Image         Image       Image       Image       Image       Image       Image       Image       Image         Image	Maps Overview	emplates Devices Users					Tota	al: 21 Online: 1 (4.76%)	Offline: 20 (55.24%)	Faults: 0 0.00%
No. *       Tengletan Name *       Constituon Date       Remarkt       Operation       Import/Eport         ************************************	⊕ Add 🖀 Delete	0								m
1       1	No. © Templa	e Name © Creation Date	Remark	Operation	Import/Export					
1       2       0727       2020-07-27       231312       cent       Control (100)       Control	71 Test202	0. 2020-07-27 18:04:33	New template test	🖍 Edit 🔠 Apply	Dimport Export					
	72 0727	2020-07-27 23:13:12	ceshi	✓ Edit 🗄 Apply	Dimport Export					
Control     Control       Control     Control	73 0728	2020-07-28 09:22:54	ceshi	✓ Edit 🗄 Apply	Dimport Export					
	K 1_6 7 <b>I</b> >	Current page 8 Go Total page	473 TO 2	Pronget Are you sure yo Test2020: 7	a want to delete the templat	× .				

Click "delete" to delete the parameter template. \*Note: if the parameter template is in use by GPRS, it cannot be deleted.

#### 4.4 Parameter template application

If you want to query which GPRS use the template, click the "apply" button in the line, as shown in the figure below:



#### 4.5 Parameter template import

Click the "Import" button in the row where the parameter template is to be imported, as shown in the following figure:

71	Test2020.	2020-07-27 18:04:33	New template test	🖊 Edit	A Import	Export

Select the parameter template file to import, as shown in the following figure:

File name	Size	State	Operation
Test2020.xls	16.0kb	Waiting for upload	Delete

user can override the new empty template by importing the parameter template

#### 4.6 Parameter template export

Click the "export" button to export the parameter template, as shown in the following figure:

71 Test2020. 2020-07-27 To.04-55 New template test Zealt to Apply Craimport Classification of the Apply	7	71	Test2020.	2020-07-27 18:04:33	New template test	🖊 Edit	Apply	A Import	Export
---	---	----	-----------	---------------------	-------------------	--------	-------	----------	--------

## 5、 Devices (devices management)

This interface user can add, edit and delete GPRS devices, and search GPRS ID , display GPRS list information. As shown in the figure below:

	IOT Cloud									We	come, mydemo!		
#* N	laps Overview Templates Devic	es Users							Total: 21	Online: 1 (4.76%)	Offline: 20(85.24%)	Faults: 0 0 00%	s ]
œ	) Add 🛛 🖌 Edit 🖀 Delete	Search	O,									99	1
	Gprs Name	GPRS ID ¢	SIM Card ©	State ¢	Rssi	Belong Customer 💠	Update Time 💠	Template Name 💠	Apply Industry	Machine No.			
	test 1, shenzhen	0000000000002	1440032585243	Online	((:-	demo	2020-07-28 11:45:32	PV800_KEWO	General-Purpos				^
	4G 2.2kW Photovoltaic water pump	0000000000001		Offline		mydemo	2020-07-28 11:46:04	SG320	Photovoltaic pu	123456			L
		0000000000003		Offline		demo	2020-07-27 16:13:11	PV800_KEWO	General-Purpos	•			L
	test 2, shandong	00000000000004		Offline		demo	2020-07-27 16:12:58	PV800_KEWO	Photovoltaic pu				L
		00000000000005		Offline		mydemo	2020-07-27 18:16:57	Test2020.	General-Purpos				L
		00000000000006	?	Offline		mydemo	2019-12-20 15:20:34	MICNO-01_EN	Oil field	2			L
		00000000000007		Offline		demo	2020-07-27 16:13:22	PV800_KEWO	Construction m				L
		80000000000008		Offline		mydemo	2019-09-07 10:28:33	\$200-C3	Construction m				I.
		0000000000009		Offline		mydemo	2019-09-26 18:16:13	Truly	Photovoltaic pu				L
		0000000000010		Offline		demo	2020-07-27 16:13:31	PV800_KEWO	Other				L
		0000000000012		Offline		myderno	2020-07-04 08:04:13	SG600_EN	Construction m				L
	-	0000000000013		Offline		mydemo	2020-07-01 23:28:39	MV10 20 30	General-Purpos				I.
		0000000000014		Offline		mydemo	2020-07-27 16:03:39	PV800_KEWO	Photovoltaic pu				
		0000000000015		Offline		mydemo	2020-06-25 13:14:03	S200-C3	Air compressor	1234567			
		0000000000016		Offline		myderno	2020-07-06 05:42:35	SG320	Oll field				
		0000000000017		Offline		mydemo	2020-06-30 11:46:49	SG320	General-Purpos				
		0000000000019		Offline		mydemo	2020-07-13 16:19:35	SG320	Other				~
<	1 Current page 1 Go Tot	al pages 21 100 🖂											
						2020 © IOT Clo	bu						

#### 5.1 Add new devices

Click "add" button to pop up the new add edit box, select the application parameter template, subordinate customer, application industry, geographical location, and fill in GPRS ID, GPRS name, SIM and other information. As shown in the figure below:

* N	laps Overview Templates Devi	ces U	sers				
•	Add / Edit 🖻 Delete	Search	Q,				
	Gprs Name	GPRS	Add		×	omer ‡	Update Time
	test 1, shenzhen	00000	GPRS ID				2020-07-28 18
	4G 2.2kW Photovoltaic water pum	00000	-				2020-07-28 1
	-	00000	Template	Please select	*		2020-07-27 16
	test 2, shandong	00000	Customer		Ψ.		2020-07-27 16
		00000	SIM Card				2020-07-27 18
	-	00000	Apply Industry	Please select	-		2019-12-20 15
	-	00000					2020-07-27 16
		00000	Machine No.				2019-09-07 10
	-	00000	Machine Date				2019-09-26 18
	-	00000	Maintenance Time				2020-07-27 16
		00000	Video KEY				2020-07-04 08
	-	00000	Madhus Claus				2020-07-01 23
	<i>a</i>	00000	Address				2020-07-27 16
		00000	GPRS Name				2020-06-25 13
	-	00000	Location	0.0.0	0		2020-07-06 05
	-	00000	Location	0.0,0.0	~		2020-06-30 11
		00000			Save Cancel		2020-07-13 16

Click the location selection icon  $^{(0)}$ , enter the map, manually locate the GPRS geographic

location, and then left click the location on the map. The obtained annotation 💙 is the location to be located. Click "confirm", as shown in the following figure:



Click "save" and prompt "add successfully", indicating that it has been added successfully.

#### 5.2 Edit devices

Check the box in front of the line of GPRS to be edited and click the "Edit" button to pop up the edit box. As shown in the figure below:

Select the application parameter template, subordinate customer and application industry,

fill in the GPRS name, SIM number, machine serial number. After editing, click "save" and prompt "Edit successfully", then the editing is effective.

	IOT Cloud				
n N	- laps Overview Templates Device	es Users			
			-		
	Add Edit Edit Delete	search	Edit		×
	Gr s Name	OF ALS IN	GPRS ID	0000000000002	
	test 1, shenzhen	0000000000002			
	4G 2.2kW Photovoltaic water pump	0000000000000	Template	CT112	Ŧ
	-	000000000003	Customer	demo	~
	test 2, shandong	0000000000004	SIM Card	1440032585243	
	-	0000000000005			
	-	0000000000006	Apply Industry	General-Purpose Inverter	~
	2	0000000000007	Machine No.		
		000000000008	Machine Date		
		0000000000009	Maintenance Time		
	-	0000000000010	Wantenance Time		
	-	0000000000012	Video KEY		
	-	000000000013	Modbus Slave	1	
		0000000000014	Address		
	-	0000000000015	GPRS Name	test 1, shenzhen	
	-	0000000000016	Location	22.584732, 113.870422	0
		00000000047			
<	1 > Current page 1 Go To	otal pages 21 100 ▼		Save	Cancel

### 5.3 Delete device

Ð	Add 🖌 Edit 👕 Delete	0	earch	O.
	Gprs Name		GPRS ID \$	SIM Card 😄
	test 1, shenzhen		00000000000002	1440032585243
	4G 2.2kW Photovoltaic water pur	np	000000000000000000000000000000000000000	
	-		0000000000003	
	test 2, shandong		00000000000004	
	0		00000000000005	
	-			×
	-			
	-	000000	00005" ?	ele GPKS ID 0000
	2			
			3 D	elete Cancel

Delete the device as shown in the figure below:

### 5.4 Search device

Enter the GPRS ID (limited to 14 digits) in the search box, and then press enter or click the

search icon, as shown in the following figure:

Ð	Add	🖊 Edit	🗊 Delete	0000000000005	
	Gprs N	lame		GPRS ID 💠	SIM Card 🜲
	-			0000000000005	

### 6、user management

User management includes the operation functions of adding, editing, deleting and parameter template assignment. As shown in the figure below:

IOT Cloud					Welcome, mydemo! Logout Passw	
Maps Overview Templates Devices	Users			To	tal: 21 Online: 1(478%) Offline: 20(8524%) Faults: 0(0.009	•
⊕ Add						
Search 🔍	Details					
mydemo	User name	mydemo		Password	•••••	
X demo	Contact number	020-88888888		Email	99999999@qq.com	
	Contact address	Shenzhen City, Guangdong Province Super administrator		Enabled state		Ŧ
	Role			Createdate	2018-11-19 14:05:42	
	Time offset(h)	08:00		Belong unit	2018 test account	
	Templates					
	No.   No.  Name	Createdate				

#### 6.1 New add users

Click the user name which need add sub user in the user list, Then click the "add" button, enter the user name, password, contact number and e-mail in the detailed information list, and select the management role. Then assign the specified parameter template to the sub user, so that the sub user does not have to re create the parameter template from scratch. As shown in the figure below:

demo 🏮	8		User name	2020test		Password	•••••	
demo		Cor	ntact number			Email	0	
		Co	ntact address			Enabled state	true	
			Role	users	v	Createdate	2020-07-28 11:59:54	
		Π	me offset(h)	08:00		Belong unit		
	— Te	mplates —						
		No. \$	Name \$	Createdate #	Remark			
		1	GT82	2020-02-15 23:07:58				
		2		2018-12-18 16:26:58				
		3		2018-12-18 16:44:23				
		4		2018-12-18 16:48:31				
		5		2018-12-18 16:48:38				
	<	1 2 3	15 > Current page	1 Go Total pages 73	5 ~			
		1 2 3	15 7 Current page	I Go Total pages / 3	3 0			

If "email notification (5)" is checked, you must fill "email address (6)". The platform will send an email to remind the sub users that they have created an account on this platform. Click "save" and prompt "save successfully", then a new sub user has been created successfully. The left tree user list will automatically refresh the new sub users. Click to select the new sub user name to view the details. As shown in the figure below:

Add      Belete      C Refresh								
Search 🔍	De	rtails						
i mydemo		ι	Jser name	2020test		Password	•••••	
R demo		Cor	itact number			Email		
		Cor	ntact address			Enabled state	true	~
			Role	users	*	Createdate	2020-07-28 11:59:54	
		Tir	me offset(h)	08:00		Belong unit		
	Te	mplates						
		No. 🗢	Name ¢	Createdate \$	Remark			
	$\sim$	1	CT112	2020-02-15 23:07:58				
		2		2018-12-18 16:26:58				
		3		2018-12-18 16:44:23				
		4		2018-12-18 16:48:31				
		5		2018-12-18 16:48:38				
	<	1 2 3	15 > Current page	1 Go Total pages 73	5 🗸			
			Email notification				Save	

\*Note: when choosing to assign the management role, it is recommended not to assign the super administrator role to the sub-user easily, because the super administrator can directly operate the relevant parameters of the parameter template, and it is easy to cause unnecessary trouble and loss. As shown in the figure below:

User name	2020test
Contact number	
Contact address	
Role	users 👻
Time offset(h)	08:00

#### 6.2 Edit user

The operation is similar to that of creating a new user in 6.1. First, click to select the user name to be edited in the tree type list on the left. The background is blue, indicating that it has been selected. Then modify the detailed information and allocation parameter template on the right. After editing, click the "save" button in the lower right corner, and the prompt "save successfully" will indicate that the editing has been successful. \*Note: the user name and creation date cannot be edited.

#### 6.3 Delete user

Click to select the user name to be deleted from the user tree list on the left, and then click the "delete" button to operate follow the prompt, as shown in the figure below:

<b>S</b>	OT Cloue	d			
📽 Maps	Overview	Templates	Devices	Users	
Add	The Del		Refresh		
🖃 mydemo	,		User	name	2020test
A den		$ \rightarrow $	Contact	number	
CR 202	Otest		Contact	address	
		(	Prompt Are you su 020test' ?	re you want '	to delete the account '2
				Email no	tification

Click delete, prompt "delete successfully" and refresh, then the deletion is successful. \*Note: the current login user cannot be deleted.

## 7、Real time monitoring

1) Click the industry picture of the tag card to enter the real-time monitoring interface. As shown in the figure below:



2) In different application industries, the layout of real-time monitoring interface is different, and the function block is also different. The following is an introduction to the general inverter industry as an example. The interface include three parts:

Left: GPRS basic information, coordinate geographic location map, operation record; Middle: real time instrument panel diagram, real-time information of monitoring parameters and real-time curve;

Right: control panel (including timing setting), common parameters (including virtual serial port), application industry rotation chart (including real-time monitoring video);

Right: control panel (including timing setting), common parameters (including virtual serial port), application industry rotation chart (including real-time monitoring video);

As shown in the figure below:

тоі 🎧	Cloud							Welco	ome, mydemo! Logout Overvie
# General-Pu	rpose Inverter GPRS R&W Fault Statistics H								
Basic info		Understand - 2020 07 27 17/00	0					Control panel	Timing Setting>>
GPRS ID	000000000002	Updatetime : 2020-07-27 17:55:2	0						
Template name	'CT112	0.12		(2000)				RUN	REV
Customer name	demo	a summer to		a proving to		all and a second second			
SIM Card	1440032585243	200 200		200 200		200 300		STOP	RESET
SIM State	Normal	- 100 400 -		100 400 -		100 40			
SIM Type	No card			500 -		500		0	Matural Danta a
Used flow	500M	V OHz V		💙 0A 🌂		V OV		Common parameters	Viitual Port33
Surplus flow	OM	Output frequency		Output current		Output voltage	•	Frequency	(Hz)
Creation date	2016-09-20 14:40:51								
	@Bagulou @	Pump speed(C0.03)	0 RPM	DC working voltage(C0	307.7 V	Frequency reference(C	0 Hz	Read	Set
	G:	i X terminais state(C0.08)	0-	Output power(co.os)	UKW	current poweron time(	12/50 110	Darameter name	
	Point: [113.875324, 22.581759]	Current running time(C	1.1 min	Remain running time(C	0 min	working status(C0.33)	0 -	Plasse select	~
port Terminal	Xixiang No 1, Bridge	AND THE CONTRACT OF	0.17	T 1 0	0.1110	7.1.0	0	Fiedde beleet	
tock		MIPP1 reference voitag	0 V	Today now	0 MINS	Total now 2	U mes	Parameter value	
use Building	Dragon Ball/Garden (*) + Stienzhen Baoan Xxx People's Hospital	Total flow 1	0 m^3	Today energy	0 kwh	Total energy 1	0 kwh		
	M Hantang Yinxing Hotel	Total energy 2	0 kwh	DC bus current(C0.57)	0 A	Flow rate(C0.58)	<b>0</b> m^3/h	Read	Set
aHore	ren Mansion	4							
Operation rec	ord							A AND	
Time	Operation		-0-0	utput frequency -O- Output curre	nt -O- Output	voltage			1-7-1
2020-07-27	mulana and thinks and							and the second second	
17:54:11	mydemo send Kow command.	1							
2020-07-27		0.8-						A Contract of the second of th	
17:49:31	mydemo send "STOP" command.	06							
2020-07-27						17:55:20			
16:57:16	demo send "正转运行" command.	0.4-				Output frequency: 0H;			
2020-07-27		0.2-				<ul> <li>Output culterit: 0X</li> <li>Output voltage: 0V</li> </ul>		F CON A KINA	
2020-07-27	mydemo moany ouod00000002 gprs						-	PAR S	
16:12:46	device.	17:55:13 17:55:14	17:5	5:15 17:55:16 17:	55:17 13	7:55:18 17:55:19	17:55:20	1 Partice	
2020 07 27									
				2020 @ IOT Cloue	d				

### 7.1 Control panel

Click these buttons to remotely operate the field equipment through GPRS.

						We	lcome, <b>mydemo!</b>	Logout	Overview
Data	Curve Analysis							-	
: 2020-0	07-29 10:10:44	200 300		100 TO	400	Control panel RUN STOF	Tim REV RESET	ning Setting	
0Hz utput fre	quency	Output current		Output volta	ge	Common parameters Frequency		Virtual Por	t>> Hz)
(C0.03)	0 RPM	DC working voltage	305.5 V	Frequency referenc	0 Hz	Read			Set

The timing setting indicates that the specified operation is performed at a specified time in the future. For instruction setting, refer to the timing setting in button definition of 4.1.4. Here, only start and end time editing are involved. As shown in the figure below:

No.	Start Time	End Time
1	00:00:00	00:00:00
2	00:00:00	00:00:00
3	00:00:00	00:00:00
4	00:00:00	00:00:00
5	00:00:00	00:00:00
6	00:00:00	00:00:00
7	00:00:00	00:00:00
8	00:00:00	00:00:00

#### 7.2 Common parameters

Remote read and write the common parameters of the working equipment through GPRS. As shown in the figure below:

Virtual Port>>
(Hz)
Set
~
Set

The virtual serial port remote controls the working equipment through GPRS in the form of sending instructions. As shown in the figure below:

Virtua	al Port	3
		01 06 20 00 00 01 43CA 15:11:14
	01 06 20 00 00 01 43 CA 15:11:15	
		01 06 20 00 00 05 42 09 0000 15:11:53
	01 06 20 00 00 05 42 09 15:11:55	
HE	X SHOW 🗹 AUTO CRC 🗹 HEX SENE	)
		Send(S)

"0000" The blue background command "01 06 20 00 00 01 43 CA" in the above figure indicates that the "start" command has been issued. In fact, only "01 06 20 00 00 01" was issued, and "43 CA" was checked automatically by "auto CRC". Of course, you can also directly issue a complete command verified by yourself, such as "01 06 20 00 00 05 42 09" stop command. If "auto CRC" is checked, it will automatically add "0000".

The gray background instruction "01 06 20 00 00 01 43 CA" is the system return instruction, and the return instruction is consistent with the sending instruction, indicating that the issued instruction is executed successfully.

#### 7.3 Real time video monitoring

When adding new equipment in 5.1 or editing equipment in 5.2, fill in the correct monitoring video address in the "video key" box (as shown in the following figure:),

\dd		×
GPRS ID	0000000000005	
Template	Test2020.	v
Customer	mydemo	-
SIM Card		
Apply Industry	General-Purpose Inverter	-
Machine No.		
Machine Date		
Maintenance Time		
Video KEY		
Modbus Slave Address		
GPRS Name		
Location	0.0,0.0	0
	Sava	Cancol

What is shown here is no longer the application industry rotation chart, but real-time monitoring video. As shown in the figure below:



### 8、GPRS R &W

For GPRS, read-set operation is provided. Please operate the set function carefully. Once the set error occurs, GPRS and the platform cannot be connected. As shown in the figure below:

	IOT	Cloud			
<b>#</b> G	eneral-Pur	pose Inverter GPRS R&W Fault S	tatistics Historical Data C	urve Analysis	
	No.	Parameter Name	Parameter Value	Operation	State
	1	GPRS ID		🕼 Read 🛛 😵 Set	
	2	Heatbeat(s)		Al Read	
	3	Baud rate(bps)		🛱 Read 🛛 😵 Set	
	4			🛱 Read 🛛 😵 Set	
	5	*Server info		🛱 Read 🛛 😵 Set	
	6	APN		🛱 Read 🛛 🚷 Set	
	7	APN user		📾 Read 🛛 😵 Set	
	8	APN key		Al Read Set	
	9	*Protocol		🛱 Read 🛛 😵 Set	
	10	*TCP enable		🛱 Read 🛛 🚱 See	
	11	*Output log		🛱 Read 🛛 😵 Set	
	12	Error Code		🛱 Read 🛛 😵 Set	
	13	*GSM rssi		🛱 Read 🛛 😵 Set	
	14	*GPRS's time		🛱 Read 🛛 🚷 Set	
	15	*Version		🖓 Read 🛛 😵 Set	
	16	Modbus Addr		Al Read	
	17	Lock enable		🖓 Read 🛛 🚱 Set	
	18	GPS enable		A Read	
<	1 > 0	urrent page 1 Go Total pages 2	2 100 🖌		
					2020 @ IOT CIA

#### 8.1 GPRS Read

15 *Version GT89S360LTH10N32 GT89S360LTH10N32 Read successfully!
--

Click "read" to read and prompt "read successfully!", the read operation is successful.

#### 8.2 GPRS Set

IOT Cloud											
📽 G	eneral-Purp	pose Inverter	GPRS R&W	Fault Sta	tistics	Historical Data	Curve Analysis				
	No.	Parameter	Name		Parar	neter Value	Ope	eration	State		
	8	APN key					🚇 Read	र्द्धि Set			
	9	*Protocol					🚇 Read	र्द्धि Set			
	10	*TCP enabl	e				🚇 Read	र्द्धि Set			
	11	*Output log	g				🚇 Read	र्द्धि Set			
	12	Error Code					Read	🎇 Set			

After entering the function code, click "set" to prompt "set successfully!", the setting operation is successful.

### 9、Fault Statistics

Fault statistics is to statistic all the faults (pie chart and report) occurred on the same day of the equipment which install GPRS, and provides search and export excel functions. As shown in the figure below:

IOT Cloud				Welcome, mydemo!	Logout Overview
General-Purpose Inverter GPRS R&W	Fault Statistics Historical Da	a Curve Analysis			
Start time 2020-07-28 00:00:00 End time	e 2020-07-28 23:59:59	arch			🖨 Export
		Numb	Fault Statistics er of occurrences (percentage)		
			L-No Fada	<ul> <li>No Faults</li> </ul>	
No. GPRS ID A	Jarm Time Fault Des	ription	Alarm Frequency		
			2020 @ 107 Claud		

#### 9.1 Search faults

Select a time period (the end time must be greater than the start time), and click "search" button to query the faults (pie chart and report) occurred in the selected time period.

#### 9.2 Export fault

Click the "export" button to export the failure statistics Excel table. As shown in the figure below:

Fault Statistics Historical Data Curve Analysis	
2020-07-29 23:59:59 Q Search	🚔 Export
Fault Statistics Number of occurrences (percentage)	ompt
E003 over current at constant speed	Are you sure you want to export Excel ?
E001 Over current during acceleration	Export Cancel

## 10、Historical Data

The historical data is presented in the form of a list. Users can enter time periods to search and export data, as shown in the figure below:

		100100101		241											
时间	2020-06-04 00:	00:00 括束时间	2020-06-04 23:5	i9:59 Q 18:8											<b>a</b> 5
3	输出频率	输出电流	输出电压	水泵转速	直流母线电压	设定频率	X 独子运行	输出功率	当前上电时间	当前运行时间	剩余运行时间	水泵运行状态	MPPT參考	日流量	总流量高位
	0Hz	0A	0V	ORPM	298.6V	0Hz	0-	0KW	35249min	0min	0min	0-	0V	0M^3	0m^3
	0Hz	0A	0V	ORPM	305.1V	0Hz	0-	0KW	35254min	0min	Omin	0-	0V	0M^3	0m^3
	0Hz	0A	0V	ORPM	298.7V	0Hz	0-	0KW	35259min	0min	0min	0-	0V	0M^3	0m^3
	0Hz	0A	0V	ORPM	302.4V	0Hz	0-	0KW	35264min	0min	Omin	0-	OV	0M^3	0m^3
	0Hz	0A	0V	ORPM	292.1V	0Hz	0-	0KW	35269min	0min	Omin	0-	0V	0M^3	0m^3
	0Hz	0A	0V	ORPM	296.4V	0Hz	0-	0KW	35274min	0min	Omin	0-	0V	0M^3	0m^3
	0Hz	0A	0V	ORPM	295V	0Hz	0-	0KW	35279mln	0min	0min	0-	0V	0M^3	0m^3
	0Hz	0A	0V	ORPM	297.4V	0Hz	0-	0KW	35284min	0min	Omin	0-	0V	0M^3	0m^3
	0Hz	0A	0V	ORPM	293.6V	0Hz	0-	0KW	35289min	0min	Omin	0-	0V	0M^3	0m^3
	0Hz	0A	0V	ORPM	300.1V	0Hz	0-	0KW	35294min	0min	Omin	0-	0V	0M^3	0m^3
	0Hz	0A	0V	ORPM	293.1V	0Hz	0-	0KW	35299min	0min	0min	0-	0V	0M^3	0m^3
	0Hz	0A	0V	ORPM	299.9V	0Hz	0-	0KW	35304min	0min	Omin	0-	0V	0M^3	0m^3
	0Hz	0A	0V	ORPM	299.8V	0Hz	0-	0KW	35310min	0min	Omin	0-	OV	0M^3	0m^3
	0Hz	0A	0V	ORPM	305.8V	0Hz	0-	0KW	35315mln	0min	0min	0-	0V	0M^3	0m^3
	0Hz	0A	0V	ORPM	298.9V	0Hz	0-	0KW	35320min	0min	Omin	0-	0V	0M^3	0m^3
	0Hz	0A	0V	ORPM	303.4V	0Hz	0-	0KW	35325min	0min	Omin	0-	0V	0M^3	0m^3

## 11、Data statistics

Data statistics are presented in the form of a list. Users can enter time period to search and export data, as shown in the figure below:

											Wel	come, mydemo!	
48 P)	hotovoltai	Pump GPRS R&W	Fault Statistics	Historical Data Da	ta Statistics Curve	Analysis							
Start t	Start time 2020-07-26 0000000 End time 2020-07-28 235959 Q. Search											🖨 Export	
	No.	GPRS ID	Record Date	Start Time	End Time	Runnin Time	Stop Time	Daily flow(M^3)	Daily Generation	CO2 Mitigation(T)	Remark		
	1	0000000000000002	2020-07-26	00:03:55	23:56:39	00:00:00	23:52:44	0.00	0.00	0.00			
	2	00000000000002	2020-07-27	00:01:43	23:58:28	00:00:00	23:56:45	0.00	0.00	0.00			
	3	0000000000002	2020-07-28	00:03:32	15:36:57	00:00:00	15:33:25	0.00	0.00	0.00			
_	_												
<	1 > 0	urrent page 1 G	io Total pages 3 10	00 ~									
							2020 © IOT Cloud	i i					

## 12、Curve analysis

Display the historical data curve of various parameters of the running equipment collected on that day. You can search according to the time period, and then select the parameters corresponding to the drop-down box to display the relevant curves.



## 13、Notes

➤ The setting of terminal equipment number (GPRS ID) and platform equipment number (GPRS ID) must be consistent, and the fixed length of GPRS ID is 14 digits.

➤ When editing device management and user management, GPRS ID, creation time and user name cannot be changed.

> It is not possible to set the parameters for the terminal device in working state.

➤ Another parameter cannot be read or set while the remote read-set operation for a parameter has not been completed.