Aliyun IIoT

Aliyun IIoT is currently divided into two categories:End-User and Manufacturer,and the two only differ in the registration process.

HMI Setting

$(\underline{1}) \texttt{Set IP}$ address and DNS server address

IMI Attribute					×
Security Levels Setting	User Permission	ns Setting	Historical Events	Storage	Print Setting
Internet Time Synchr		0 Setting	COM2 Setting	Ext	ended Memory
HMI Task Bar	HMI License Setting		ended Attributes		n Information Text
~Network Setting	1				
Open FTP Password:	888888	Netwo	rk Device Setting		
Network 1 Setting					
IP 192 . 168 . 205 . 156	Subnet 255 . 255 . 255 Mask	. 0 Default Gateway	192 . 168 . 205 . 1		
Enable DNS	DNS1 192 . 168 . 100		192 . 168 . 100 . 253	3	
Enable DHCP(Slave is not	recommended to enable)		,		
Network 2 Setting				_	
IP	Subnet Mask	· Default Gateway			
Enable DNS	DNS1	DNS2			
Enable DHCP(Slave is not	recommended to enable)		1		
-WIFI Setting					
IP 127.0.0.2	Subnet 255 . 255 . 255 .	. 0 Default Gateway	192 . 168 . 0 . 1	-	
Enable DNS	DNS1 0 . 0 . 0		0.0.0.0	-	
Enable DHCP(Slave is not					
	,			_	
Display Setting Display mode	lorizontal C Vertical	Fie	ld Bus Setting		
Save Screenshot to The I	Extended Memory				
00	SB1	C HMI			
Description					
			ОК	Cance	el Help

 $(\ensuremath{\mathbbm l})$ Setting up the connection property with Aliyun IIoT

Choice "IoT">>"aliyun IIoT">>"Basic Setting">>"Control Setting", setting up whether connect with Aliyun or not.

HMIO	×
✓ EnableUser Ali Cloud IIoTFunction Basic Setting Basic Setting	
Data Setting	
Property Event Server	

Ali Cloud IIoT	×
Control Setting Property Setting Userl	nfo Manager
Server Setting	
Server heartbeat: 10 sec	Auto Connect Idle: 5 sec
Enable State Address	Enable Control Address
HMI HMIO - PLC Numbe	HMI HMI0 - PLC Number
Port None	Port None
Change Station Num 0 -	Change Station Num 0
AddrType RW	AddrType RW 👻
Display connection s Addr 100 between HMI and serve	ar Addr 200 between server and HMI. After
CodeType BIN -	checking , the value needs to be set manually. When not checking CodeType BIN , it defaults to online state
	, it defaults to online state
Length 2 -	Length 1 -
Use Address Tag	Use Address Tag
Format(Range):DDDDDD (0261000)	Format(Range):DDDDDD (0261000)
RW100:	RW200:
0-Stopped,1-Disconnected,2-OnLine. RW101:	1-start,2-stop.
0-Normal,Less than 0 is error code.	
	OK Cancel Help

②Set the way the data is sent to the server

Choice"IoT">>"aliyun IIoT">>"Basic Setting">"property Setting",set the way data is sent to

the server, which is a global setting (all entries added to the properties interact with the server in this setting)

Ali Cloud IIoT	×
Control Setting Property Setting UserInfo Ma	anager
	QOS Setting
	OK Cancel Help

③Userinfo Manager will be told in the third step (Registration) to explain how to use.

④Three functional types of data interaction with servers

Choice"IoT">>"aliyun IIoT",data setting are divided into Property, Event, Service, used for data interaction with the server.

1.Property

New Item X							
Name: 図机物完装版 ? Tagname: FRS Server and HMD i though Tagname	nte	rnc	t w	ith	each	oth	ler
Unit: %			•	•		•	
Register/Data Type		•	•	•		•	•
C Bit © Word Data Type: 16-bit signed • dat decimal: 0 •	e ty t p:	ype age	is set	con ttin	sist gs.	ent	with
ReadWrite Attribute • ReadWrite O Read	•	•	•	•	· ·	•	•
Register	•	•	•	•		•	•
HMI HMIO - PLC Number	•	•	•	•		•	•
ChangeStationNum 0	•	•	•	•	· ·	•	•
AddrType RW -	•				· ·		
Addr 0	•		•	•	· ·		•
CodeType BIN - Length 1 -	•		•	•	· ·	•	•
Format(Range):DDDDDD (0-261000)	•	•	•	•	· ·	•	•
OK Cancle	•	•	•	•		•	•

Note: use of text components does not support Extended ASCII

2.Event

Events are usually sent as important data, such as a temperature alarm, HMI configuration set the trigger conditions of the alarm, to trigger an alarm content to the Aliyun server. Aliyun server can edit and explain each alarm content, and finally push it to the user's remote device (APP,Mobile phone short message). The sending mode generally chooses "address trigger to send".

Taking three return air temperatures as an example, add the output parameters of the event alarm (when the event alarm triggers, the output of three temperature values will be pushed to the server).

Name: 回风高温告警事件 ? TagName: RAirHTempaLARM QOS: 1 ~ ? Send Mode Setting C Periodic Sending 100 *100ms ① Address trigger sending C DataChang Sending ⑦ ①nly send changed data Trigger Mode OFF->ON Fach event can independently set different HMI HMIO ~ PLC Number sending modes.	
Send Mode Setting C Periodic Sending 100 *100ms • Address trigger sending C DataChang Sending	
C Periodic Sending 100 *100ms € Address trigger sending C DataChang Sending	
C DataChang Sending Trigger Mode OFF→ON Each event can independently set different sending modes. HMI HMIO - PLC Sending modes.	
Trigger Mode OFF->ON Each event can independently set different HMI HMIO - Number sending modes.	
HMI HMIO - Number sending modes.	
Port None ChangeStationNum O	-
AddrType LB - Use Address Tag	
Addr 300 Format(Range):DDDD (0-9999)	
CodeType BIN - Length 1 -	
	Data T
	>
Add Delete DeleteAll Modify	
OK Canc	el



Event Add					×
Name:	回风高温告	警事件	0	TagName: RAirHTempaLARM	0
QOS:	1	•	0		
C DataCl Trigger J HMI }	dic Sending hang Sendin Mode OFF-> MIIO • PI MIIO • Nu one LB 300	g	*100ms	 Address trigger sending ✓ Only send changed data ChangeStationNum 0 □ Use Address Tag Format(Range):DDDD (0-9999) 	*
Parameters					
	ume	TagName	Unit	Address Info(HMI:PLC:Statio	Data T
2 🗖	风温度 风温度 风温度	RAT RAT2 RAT3	ç Ç Ç	HMIO(RW:28) HMIO(RW:30) HMIO(RW:32)	float float double
Add	Dele	te Delet	eAll	Modify OK C	>

3.Server

Mainly used for the server's call to the service.

HMI0				X
EnableUser Al Basic Setting	Li Cloud IIoTFunction			
Data Setting				
Property Event	1	1		
No.	Name	TagName	Input Paramet	Output Param
	P.1.4. P.1.4.4	1	Para cust	
Add	Delete DeleteA	Ll Modify	Export In	nport
				OK

9	Server Add						×
	Name:	ServerToj		0	TagName:	ServerTopics 1	0
	QOS:	1		• 🕜			
	-Send Mode S	Setting—					
	Parameters	List					
	No. Nam	e	TagName	Parame.	Unit	Address Info	(HMI:PLC:Statio
	<						>
	bbA	Del	.ete Dele	teAll	Modi fy		
						OK	Cancel

Name: 3	ItemValue 1	0	Tagname:	ItemValue 1	0	ics	9	
hit:	. /n . m		Proper	rty List		105		
_	ster/Data Type– ∩Bit ⊙Wo	ord Data I decir		-bit signed	•			
-Para	neters Type • Input	Paramete		C Output Para	m èl			
	Input	Paramete		C Output Para	un et			×
ropert	Input	Paramete TogNomo	11r.i+	C Output Pars		tio) Doto Typo	×
-Para ropert ม _{ิจ}	 Input 		<u>11-5;+</u> %			tio (-	

Server Add	ł					×
Name: QOS:	服务 1		• ?	TagName:	ServerTopics	0
-Send Mode						
-Parameter	ame	TazName	Parame	1/nit	Address Info()	MT:PLC:Statio
	1.机额定	FRS	Input .		HMIO(RW:O)	>
Add	Del	lete De	eleteAll	Modify		
					OK	Cancel

Aliyun platform setting

①Register an Aliyun platform account, get APP and AppSecret (for registration)

CD 阿里云工业互联网平台						
🔚 设备管理	•	服务调用验证信息管理				
四 项目管理	•					
□ 服务调用	-	Appkey 和 AppSecret是您访问API的密钥,具有该账户完全的权限,请您妥善保管。				
验证管理						
Dist Box		Appkey 🥐	AppSecret 🥐			
API接口列表						
SDK使用说明			显示			
SUKETIE						

2 product development

Choice"device management">>"product development">>"New product">>"look up",many attributes and events have been added (the Tagname must correspond to HMI setting), and Product Key (for registration purposes) has been generated.

设备管理	产品开发						
设备列表							
产品开发	网络入产品名称进行搜索	投索 全部	~品表型 ~				新期
边岸计算网关	产品名称	Product Key	产品类型	产品行业	(018897)4T	SHE	
项目管理	4 步称	a1/522E0GTI	直连设备	电力仪表	2018-10-26 17:51:49		
阿里云工业互联系	評合					■ 帮助文档 k	cin**
设备管理	产品开发 > 产品详情						
设备列率							
产品开发	步科						16HI
边舉计算网关	Product Key a1i5Z2E	20GTI 201	产品类型 直连设备		产品行业 电力仪表		
项目管理	< 硬件平台、Cortex M0/		操作系统 AliOS Things		联网方式: Wi-Fi		
服务利用	◆ 数据描述 Alink JSON 产品描述 搬试	4					
	功能定义 设备开发						
	功能模板						
	功能與型	功能名称	154747	98	*	操作	
	履性	回风温度显示	RAT	2		编辑 影除 复制	
	制性	回风温度显示2	RAT2	2		5848 BDP 3244	
	属性	回风温度显示3	RAT3	~		4040 Hile 3040	
	居住	风机晒运转速	FRS			AN THE MAN	

③device list

Choice"device management">>"device list">>"look up",The registered screen is already in the device list, and you can choose automatic refresh, and view the data changes in real time.

	264元数 🕜			• 7	115.2备数 🕗		• 77	逃网笑数 ⊘		• 设备已用存储空间 🕗	
25 MB	71			2			0		0.69G/10G		
产品开发 边缘计算网关	10710	• 申请记录	t							帮助文档	pratice
项目管理 • [服务编用 •	1045514										
		设备名称	MARIN	产品名称	设备位置	新闻项目	设备标签	海接状态(全 部)	最后上城时间	操作	
		ZK1810789 45		##L				• 在线	2018-11-01 20:05:50	22	

And Andrewson (设备列表 > 设备详情						
设备列票	-						
产品开发	ZK181078945	三二 云端连接 ・ 在选			数据归档) 产品详慎 Suites	
边學计算网关	产品名称:步科		最后上线时间 2018-	11-01 20:05:50	ProductKey a1i5Z2E0GTI 201		
项目管理	目管理 4 所屋開关 -			0 10:26:42	DeviceSecret: ****** 1078.		
服务调用 4	本月存储用量:已用0	MB	产品类型 直连设备		DeviceName: ZK181078945 88		
	设备屋性管理					自动刷新	
	属性实际	标识符	8ma	最后上报时间	通明	18/12	
	风机额应转速	FRS	12.0	2018-11-01 20:05:50		重要政策	
	回风温度显示	RAT	-20	2018-11-01 20 12 27		查看数据	
	回风温度显示2	RAT2	39	2018-11-01 20:12:27	300	查看数据	
			-20.000	2018-11-01 20 12:27		重要数据	

(4) project management

Choice"Project Management Center">>"New project">>"device">>"add associated device", You can see your own registered HMI, and then select the "associated device" to put the device in the specified project

and the second sec	委日普盟中心											
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	3	6					ω					
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MALLONDIN OMAR			2K181078345 2K182542399 NZ188929002		stangta ⊉%i stangtai	25 28 26	17 42 17	* #15 • #25 • #25	58 28 58	I		
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MALLONDIN OMAR			2K181078345 2K182682399 HZ188929002 2K181078345 2K152154162		shangtus 歩85 shangtus 歩84時筆書万項目 shangtus	05 08 08 08 08 08		 要托 未取否 更迭 更近 更近 更近 	68 28 68 28	l		
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⑤Aliyun configuration

Connecting with Aliyun, the configuration can be displayed in the screen of Kinco ,perhaps to display through the configuration of Aliyun Platform itself. Aliyun platform how to configure, you can refer to Ali cloud help document

registration

In HMI settings, we refer to Userinfo Manager, which is used to register account information, including AppKey, AppSecret and Product Key, which can be obtained from the Aliyun platform. The process of registration between End-User and Manufacturer is different. ①End-User

End-user registration is achieved by dynamic registration tool(DRT). The specific registration process can refer to DRT document.

Ali Cloud IIoT	×
Control Setting Property Setting UserInfo Manager	
Account Information	
End users should use the Dynamic Registration Tool (DRT) for private registration on the Alibaba Cloud IIoT platform.	

	Ē		?	\times
用户信息管理				
AppKey:	*****	~		
AppSecre	et:)0000000	••••••	🗌 显示密码	
			☑ 记住密码	
PK信息管理				
PK别名	步科	v	☑ 锁定	
默认PK	a1i5Z2E0GTI		☑ 显示别名	
	PK Name	Proc	ductKey	
1	步科	a1i5	Z2E0GTI	
添加	開除 開除全	È 部		

②Manufacturer

Manufacturer registration is set up in Userinfo Manager and updated by downloading project.

Ali Cloud IIoT	×
Control Setting Property Setting UserInfo Ma	nager
Account Information	
АррКеу:	
AppSecret:	✓ Hide Password
ProductKey: a 1i5Z2E0GTI	
Device vendor account information and ProductKey ca updated by downloading the project.	an only be modified here and
	OK Cancel Help