Classification	UA-Series Eng	lish Functi	on Wizard FA	Q-CNV-0	8		
Author	Eva Li	Version	1.0.0	Date	2022, 12	Page	1 / 15
FAQ-CNV-08 How do UA s	: UA Web UI series uploa	Function	Wizard – M	lodule (	Communica	tion Conve	rsion -
This FAQ introd	uces the UA s	eries to us	se MQTT to u	upload N	lodbus data	to AWS.	
Set up the A	WS environ	ment					
1. Log in to AW	S and AWS IO	T					
Use a browser t	o log in to the	AWS web	osite.				
	Colutions Drising D		Conta	act Us Suppor	rt ← English ← My A	count - Sign I	n to the Console
AWS Managem	ient Console Ov	erview Featur	res FAQs	VOIK AWS M		ner Enabtement	
	AW Everything you	S Mai	nageme ss and manage the		<b>Console</b> I — in one web int	erface	
aws							
Root user sig	n in o						
Email:			Sagel	Make	er Frida	ays	
Email: Password	Forgot passw	ord?	Sagel Join Sage coding, d	Maker emos, a	er Frida Fridays for and more	a <b>ys</b> live	
Email: Password  S Sign in to a different ac Create a new AWS acc	Forgot passw ign in :count :ount	ord?	Sage Join Sage coding, d	Maker emos, a	er Fridays for and more	ays live	



## 2. Create Device Things

On AWS IoT Service, select "Manage -> **Things**" on the left, and click "**Create things**" to create the IoT device.

Monitor	Things (0) + c	
Homeon	An IoT thing is a representation and record of your physical device in the cloud	. A physical device
Connect	needs a thing record in order to work with AWS IoT.       C       Advanced search       Run aggregations	lit Delete Create
Connect one device <ul> <li>Connect many devices</li> </ul>	<b>Q</b> Filter things by: name, type, group, billing, or searchable attributed	te.
Test	Name	Thing type
Device Advisor		No things
MQTT test client	No	things to display in this Region
Device Location New		Create things
Manage		
<ul> <li>All devices</li> </ul>		
Things Thing groups	0 things selected	
eedback Looking for language selectior	Pind it in the new Unified Settings 🔀	© 2022, Amazon '



	UA-Series En	glish Funct	ion Wizard FAG	Q-CNV-0	8			
uthor	Eva Li	Version	1.0.0	Date	2022,	12	Page	4 / 15
hen go to the b	ottom of the	page and	select <b>Next</b> .		1			I
Device Shado Device Shadows allow thing's shadow using	W Info v connected device either HTTPs or M(	s to sync states QTT topics.	with AWS. You can a	also get, upo	date, or de	lete the s	state information	n of this
<ul> <li>No shadow</li> <li>Named shadov Create multiple s group your device</li> <li>Unnamed shac A thing can have</li> </ul>	v hadows with differ es properties. dow (classic) only one unnamed	ent names to m shadow.	nanage access to pro	perties, and	logically			
							Cancel	Next
		© 2022, Am	azon Web Services, I	Inc. or its af	filiates.	Privacy	y Terms (	Cookie preferer
اسمم مطلم المماسين		1 ( ( ) )	-					
AWS IoT > Manage > Step 1 Specify thing properties	Ificate and Iir Things > Create thir At	nk to the de	evice. <sup>gle thing</sup> cies to certifi	cate - o	optiona	l Info		
AWS IoT > Manage > Step 1 Specify thing properties Step 2 - optional Configure device certificat	Things > Create thir Att AWS the c	ik to the de igs > Create sing tach polic IoT policies grant device.	evice. gle thing cies to certifi or deny access to AWS Io	<b>Cate – O</b> T resources. Af	<b>Optiona</b> Ittaching police	<b>l</b> Info	device certificate ap	plies this access to
AWS IOT > Manage > Step 1 Specify thing properties Step 2 - optional Configure device certificat Step 3 - optional Attach policies to certific	Things > Create thin At AWS the of te sate	The to the definition of the d	evice. gle thing cies to certifi or deny access to AWS Io to attach to this certificate.	<b>cate - o</b> T resources. Af	Optiona	<b>l Info</b> cies to the	device certificate ap	plies this access to te policy [2]
AWS IoT > Manage > Step 1 Specify thing properties Step 2 - optional Configure device certificat Step 3 - optional Attach policies to certificat	If ICate and IIr Things > Create thir Att AWS the c te sate	AK TO THE defined and the second seco	evice. gle thing cies to certifi or deny access to AWS Io to attach to this certificate.	<b>cate - 0</b> T resources. Af	pptiona ttaching polic	<b>l Info</b> cies to the	device certificate ap	plies this access to re policy [2]
AWS IoT > Manage > Step 1 Specify thing properties Step 2 - optional Configure device certificat Step 3 - optional Attach policies to certificat	If icate and lin Things > Create thin Att AWS the c te sate	IK TO THE de Igs > Create sing tach polic IoT policies grant device. Policies (0) elect up to 10 policies Q Filter policies Name	evice. gle thing cies to certifi or deny access to AWS lo	<b>Cate - O</b> T resources. At	Deptiona ttaching polic	l Info cies to the	device certificate ap	plies this access to re policy [2] 1 > ③
AWS IOT > Manage > Step 1 Specify thing properties Step 2 - optional Configure device certifical Step 3 - optional Attach policies to certific	If icate and lin Things > Create thin At AWS the of te sate	IK TO THE de Igs > Create sing tach polic IoT policies grant device. Policies (0) elect up to 10 policies Q Filter policies Name	evice. gle thing cies to certifi or deny access to AWS Io to attach to this certificate. No po	Cate – O T resources. Af T resources. Af No po	pptiona ttaching polid	cies to the	device certificate ap	plies this access to re policy [2]
AWS IOT > Manage > Step 1 Specify thing properties Step 2 - optional Configure device certificat Step 3 - optional Attach policies to certific	If icate and lin Things > Create thin Att AWS the c te sate	IK TO THE definition of the format oo the format oo the format oo the fo	evice. gle thing cies to certifi or deny access to AWS lo to attach to this certificate. No pc	Cate – O T resources. Al T resources. Al No po	Dicies e found in us-	cies to the east-1. Cancel	device certificate ap C C Creat	plies this access to repolicy [2] 1 > ③
AWS IOT > Manage >         Step 1         Specify thing properties         Step 2 - optional         Configure device certifical         Step 3 - optional         Attach policies to certifical	If icate and lin Things > Create thin At AWS the of te sate	IK TO THE de	evice. gle thing cies to certifi or deny access to AWS lo to attach to this certificate. No po	Cate - O T resources. At No po olicies could be	optiona ttaching polic plicies e found in us-	cies to the east-1. Cancel	device certificate ap C Creat C Previous	plies this access to re policy [2] 1 > ③
AWS IOT > Manage > Step 1 Specify thing properties Step 2 - optional Configure device certificat Step 3 - optional Attach policies to certific	If icate and lin Things > Create thin At AWS the of te te tate	IK TO THE de ags > Create sing tach polic IoT policies grant device. Policies (0) elect up to 10 policies Q Filter policies Name	evice. gle thing cies to certifi or deny access to AWS lo to attach to this certificate. No pc	Cate - O T resources. At No po olicies could be	Dilicies e found in us-	east-1.	device certificate ap          C       Creat             Previous	plies this access to re policy [2] 1 > ③
AWS IoT > Manage > Step 1 Specify thing properties Step 2 - optional Configure device certificat Step 3 - optional Attach policies to certific	If icate and lin	IK TO THE de	evice. gle thing cies to certifi or deny access to AWS lo to attach to this certificate. No pc	Cate – O T resources. At No po olicies could be	Delicies e found in us-	east-1.	device certificate ap          C       Creat	plies this access to repolicy [2] 1 > ③
AWS IOT > Manage > Step 1 Specify thing properties Step 2 - optional Configure device certifical Step 3 - optional Attach policies to certific	If icate and lin Things > Create thin At AWS the of te sate	IK TO THE de	evice. gle thing cies to certifi or deny access to AWS Io to attach to this certificate. No pc	Cate - O T resources. At No po olicies could be	optiona ttaching polic blicies e found in us-	east-1.	device certificate ap          C       Creat         Previous	plies this access to re policy [2] 1 > ③ Create thing

	tion	UA-Series Engl	ish Functi	on Wizard FA	Q-CNV-0	8		
uthor		Eva Li	Version	1.0.0	Date	2022, 12	Page	5/15
ownloa mplete	d all Ce	ertificates and	Key files t	o the local F	°C for sto	prage, and the	en click <b>Do</b> i	ne to
	Dov	vnload certifi	cates and	keys			×	
	Dow AWS	nload certificate a	nd key files	to install on you	ır device sc	that it can conn	ect to	
	Dev You c AWS I	<b>ice certificate</b> an activate the certifi IoT.	cate now, or la	ater. The certificat	e must be ac	tive for a device to	connect to	
	Devi 63f0	ce certificate cdd1883te.pem.	crt	Deactivat	e certifica	te 🕑 Do	wnload	
	<b>Key</b> The k Down	files ey files are unique to lload them now and s	this certificate ave them in a	e and can't be dow secure place.	nloaded afte	er you leave this pa	ge.	
	4	This is the only	time you cai	n download the	key files fo	or this certificate	•	
	Publi 63f0	ic key file cdd188303490f98	362162e9d	17fd-public.pen	n.key	E Do	wnload	
	Priva 63f0	te key file cdd188303490f98	36216e9d7	7fd-private.pem	.key	U Do	wnload	
	Roc Dowr you'r	ot CA certificat	<b>ES</b> tificate file tha	at corresponds to t root CA certificat	he type of d	ata endpoint and ci	pher suite	
	Ama RSA	zon trust services 2048 bit key: Ama	endpoint Izon Root CA	A 1		E Do	ownload	
	Ama ECC	zon trust services 256 bit key: Amaz	endpoint on Root CA	3		E Do	ownload	
	lf yo root guid	u don't see the roo CA certificates. Th es. Learn more 【	ot CA certific nese root CA	cate that you ne certificates and	ed here, A l others are	WS IoT supports available in our	additional developer	
						[	Done	

Classification	UA-Series Eng	lish Funct	ion Wizard FA	Q-CNV-0	8		
Author	Eva Li	Version	1.0.0	Date	2022, 12	Page	6 / 15
3. Create an AV Click " <b>Security</b>	VS IoT Policy a -> <b>Policies"</b> to	and link to o <b>create</b> a	o the certifica a Policy.	te			
<ul> <li>Message Rout Retained mes</li> <li>Security Intro Certificate</li> <li>Policies</li> <li>Certificate</li> <li>Role Aliase</li> <li>Authorizer</li> </ul>	sages	AWS IoT	Security > Person Security Policies allow you to the plane operations. Delete Find policies Policy name	olicies ) Info control access t Create poli	to the AWS loT Core da	ta plane operations	:. AWS IoT policies
Audit <ul> <li>Detect</li> <li>Fleet Hub</li> </ul>					Yo	ou don't have an	No policies y AWS IoT polici Create
Set up access p no restriction. Message Routing Retained messag Security Intro Certificates	permissions an	AWS IOT Creat AWS IOT C	Sources. You Security Security Pol Ce policy Inf	licies > Cre	er to the figur	re below a	nd set it as
Policies Certificate au Role Aliases Authorizers Audit Detect	thorities	Policy AWS IoT Policy I Lest A policy	y properties Core supports named	policies so that	t many identities can r can also contain perio	eference the same	policy document.
<ul> <li>Fleet Hub</li> <li>Device Software</li> <li>Billing groups</li> </ul>		► Tag Policy	js - optional statements P	olicy examp	les		
Settings Feature spotlight Documentation 🖸		Polic An AWS	y document Inf	o e or more polic	y statements. Each po	licy statement con	tains actions, resource
	IC	CP DAS Co.,	, Ltd. Technica	l Docume	ent		

		<u> </u>		<u> </u>			
uthor	Eva Li	Version	1.0.0	Date	2022, 12	Page	7 / 15
Tags - optional Policy statement Policy docum An AWS IoT policy ce Builder Policy effect	Policy examp nent Info JSON	oles cy statements. Each policy Policy action	statement contains acti	ons, resources, and an Policy resource	effect that grants or deni	es the actions by the reso	urces.
Allow Add new state	ement	*	•	*		Remove	
						Cancel	Create
ter settings, y	ou can viev	v the Policy	in the list.				
ccessfully created policy	y test.						View poli
NS IoT > Security >	Policies						
VS IoT > Security > AWS IoT policies AWS IoT policies allow you IoT data plane operations. C Delete D Find policies	Policies (1) Info u to control access to th Create policy	ne AWS IoT Core data pla	ane operations. AWS Ic	oT policies are separa	te and different from IA	M policies. AWS loT pol	licies apply only to AW
VS IoT > Security > AWS IoT policies AWS IoT policies allow you IoT data plane operations. C Delete Q Find policies Policy name	Policies (1) Info u to control access to th Create policy	ne AWS IoT Core data pla	ine operations. AWS Ic	oT policies are separa	te and different from IA	.M policies. AWS loT pol	licies apply only to AW
WS IoT > Security > AWS IoT policies AWS IoT policies allow you IoT data plane operations. C Delete Q Find policies Policy name test	Policies (1) Info u to control access to the Create policy	ne AWS IoT Core data pla	ane operations. AWS Ic	oT policies are separa	te and different from IA	M policies. AWS IoT pol	licies apply only to AW
WS IoT > Security > AWS IoT policies AWS IoT policies allow you IoT data plane operations. C Delete Q Find policies Policy name test ick "Security - Security Intro Certificates Policies Certificate authorities Policies Certificate authorities	Policies (1) Info u to control access to the Create policy -> Certificat Subject CN=AW Issuer OU=An ST=Wa	t VS IoT Core data pla	ane operations. AWS Ic e an "Attacl nazon.com Inc. L=Seatt	bT policies are separa	becember 01, 2022, 10 Expires January 01, 2050, 07:5	.M policies. AWS IoT pol 5:27:47 (01C+0800) 59:59 (UTC+0800)	licies apply only to AW
WS IoT > Security > AWS IoT policies AWS IoT policies allow you IoT data plane operations. C Delete Q Find policies Policy name test Certificates Policies Certificate authorities Role Aliases Authorizers Audit Detect Fleet Hub	Policies (1) Info to control access to the Create policy -> Certificat Subject CN=AW Issuer OU=An ST=Wa Policie Policie	t VS IoT Core data pla	e an "Attacl	DT policies are separa h policies".	te and different from IA	M policies. AWS IoT pol 5:27:47 (UTC+0800) 59:59 (UTC+0800)	licies apply only to AV

Classification	UA-Series Engl	ish Funct	ion Wizard FAC	Q-CNV-08	8		
Author	Eva Li	Version	1.0.0	Date	2022, 12	Page	8 / 15
Select the Polic	y.	os to the c	ortificato			×	
	Attach policie 63f0cdd1883 83848e2e9d7 Policies Choose policies to at	ofd.	6216c9c69b935	505c9bd2	b54bb74e971	a to it.	
	Choose AWS IoT	policy		• C			
				Cancel	Attach poli	cies	
Completing the	setting is show	n in the t	figure below.				
<b>D</b> arn:aws:ic 16c9c69b935	ot:us-east-1:8345733 505c9bd2b54bb74e9	12232:cert/ 71a83848e	/63f0cdd18830349 2e9d7fd	0f9862	Valid December 01,	2022, 16:27:47	(UTC+0800)
Subject CN=AWS IoT Issuer OU=Amazon	Certificate Web Services O=Ama	azon.com In	c. L=Seattle		Expires January 01, 20	50, 07:59:59 (U	TC+0800)
ST=Washingt	on C=US						
Policies	Things Nonc	ompliance					
<b>Policies</b> (1 AWS IoT policie	) Info is allow you to control ac	ccess to the AV	VS IoT Core data plane	operations.		C	etach policie
Nam	ie						
test							
	ICF	P DAS Co.	, Ltd. Technical	Docume	nt		

Classification	UA-Series Engl	ish Functi	on Wizard FAQ	2-CNV-08	3		
Author	Eva Li	Version	1.0.0	Date	2022, 12	Page	9/15

## Set up the UA series MQTT

Please check if your UA product is connected to the router/Internet and powered on.

## • Create MQTT Connection

Select an MQTT Function Wizard to create a Modbus (or other) / MQTT project (please choose according to your project needs).

AS ICE DAS COLUTE	ion Server		Function Wizard (Click here)	
vstem Setting Module	e Setting IoT Platform Setting	Conv	Module Communication Conversion (Master) Modbus RTU / OPC UA (Master) Modbus TCP / OPC UA (Master) Modbus ASCII / OPC UA MQTT / OPC UA (EtherNet/IP) EIP / OPC UA	
em Setting			(Master) Modbus RTU / MQTT (Master) Modbus TCP / MOTT	
ntroller Service Setting	Version Information		(Master) Modbus ASCII / MQTT	
ne Setting	Firmware Version	Version	(Enerner/P) EIP / MQTT (Master) Modbus RTU / MQTT JSON (Master) Modbus TCP / MQTT JSON (Master) Modbus ASCII / MQTT JSON	
twork Setting	Main Program	Version	Internal / OPC UA	N
<b>UA-2200/5</b>	200			
(ICP IIoT Commun	ication Server	(M	aster) Modbus TCP / MQTT	~
			Usage : CPU 25% Memory 28.85% SI	Card 1% Log Out
Module Setting > N	IQTT Certificate 🔰 MQTT Broker S	setting 🔰	Enable Converting Module > Save	Project >
1				
Run the project				
Run the project				
Run the project System Setting Mo	dule Setting IoT Platform Setting	Conv	ert Setting Advanced Setting Log	gger Setting
Run the project System Setting Mo	dule Setting IoT Platform Setting	Conv	ert Setting Advanced Setting Log	gger Setting
Run the project System Setting Mc I/O Status File Set	dule Setting IoT Platform Setting	Conv	ert Setting Advanced Setting Log	gger Setting
Run the project System Setting Mc I/O Status File Sett Module Setting TCP Mode	dule Setting IoT Platform Setting	Conv	ert Setting Advanced Setting Log	ger Setting
Run the project System Setting Mo I/O Status File Sett Module Setting TCP Mode Modbus	dule Setting IoT Platform Setting ing ule (Master)	Conv	ert Setting Advanced Setting Log	ger Setting
Run the project         System Setting       Mod         I/O Status       File Setting         Module Setting       TCP Mode         Modbus       RTU Module (Master)	Indule Setting IoT Platform Setting Ing Ile (Master) Modbus TCP Module L	Conv	ert Setting Advanced Setting Log	gger Setting
Run the project System Setting Mc I/O Status File Sett Module Setting TCP Mode Modbus RTU Module (Master) TCP Module (Master)	dule Setting IoT Platform Setting ing Jle (Master) Modbus TCP Module L LAN	Conv ist	ert Setting Advanced Setting Log	gger Setting
Run the project System Setting Mo I/O Status File Sett Module Setting TCP Modu RTU Module (Master) TCP Module (Master)	dule Setting IoT Platform Setting ing Jle (Master) ) Modbus TCP Module L LAN	Conv ist	ert Setting Advanced Setting Log	gger Setting
Run the project         System Setting       Mod         I/O Status       File Setting         Module Setting       TCP Mode         Modbus       RTU Module (Master)         TCP Module (Master)       ASCII Module (Master)	dule Setting IoT Platform Setting ing ile (Master) Modbus TCP Module L LAN Load ICPDAS Module	Conv ist LAN Select T	ert Setting Advanced Setting Log	gger Setting
Run the project System Setting Mc I/O Status File Sett Module Setting TCP Mode Modbus RTU Module (Master) TCP Module (Master) ASCII Module (Master) MQTT	dule Setting IoT Platform Setting ing ule (Master) Modbus TCP Module L LAN Load ICPDAS Module Select All	Conv ist LAN Select T	ert Setting Advanced Setting Log	ager Setting AS Module List Edit
Run the project System Setting Mc I/O Status File Sett Module Setting TCP Mode Modbus RTU Module (Master) TCP Module (Master) ASCII Module (Master) MQTT MQTT Module	dule Setting IoT Platform Setting ing ule (Master) ) Modbus TCP Module L LAN Load ICPDAS Module Select All No.	Conv ist LAN Select T	ert Setting Advanced Setting Log	ager Setting AS Module List Edit
Run the project System Setting Ma I/O Status File Sett Module Setting TCP Modul Modbus RTU Module (Master) TCP Module (Master) ASCII Module (Master) MQTT MQTT Module	dule Setting ing Jle (Master) Modbus TCP Module L LAN Load ICPDAS Module Select All No.	Conv ist LAN Select T *Mo	ert Setting Advanced Setting Log	gger Setting AS Module List Edit
Run the project System Setting Mo I/O Status File Sett Module Setting TCP Modu Modbus RTU Module (Master) TCP Module (Master) ASCII Module (Master) MQTT MQTT Module EtherNet/IP	dule Setting IoT Platform Setting ing Ile (Master) Modbus TCP Module L LAN Load ICPDAS Module Select All No.	Conv ist LAN Select T *Mo	ert Setting Advanced Setting Log	gger Setting AS Module List Edit
Run the project System Setting Ma I/O Status File Sett Module Setting TCP Mode Modbus RTU Module (Master) TCP Module (Master) ASCII Module (Master) MQTT MQTT Module EtherNet/IP ICPDAS Module	dule Setting IoT Platform Setting ing die (Master) Modbus TCP Module L Lan Load ICPDAS Module Select All No. 1 ~ Copy Remo	Conv ist LAN Select T *Mo Nam	ert Setting Advanced Setting Log	ager Setting AS Module List Edit
Run the project System Setting Mo I/O Status File Sett Module Setting TCP Modu Modbus RTU Module (Master) TCP Module (Master) ASCII Module (Master) MQTT MQTT Module EtherNet/IP ICPDAS Module Internal	dule Setting ing Jle (Master) Modbus TCP Module L LAN Load ICPDAS Module Select All No. 1 Copy Remove all	Conv ist LAN Select T *Mo Nam	ert Setting Advanced Setting Log	ager Setting
Run the project System Setting Ma I/O Status File Sett Module Setting TCP Modu Modbus RTU Module (Master) TCP Module (Master) ASCII Module (Master) MQTT MQTT Module EtherNet/IP ICPDAS Module Internal Internal Module	dule Setting ing ile (Master) Modbus TCP Module L LAN Load ICPDAS Module Select All No. Copy Remo Remove all	ist LAN Select T *Mo Nam	ert Setting Advanced Setting Log	gger Setting AS Module List Edit
Run the project System Setting Mo I/O Status File Sett Module Setting TCP Mode Modbus RTU Module (Master) TCP Module (Master) ASCII Module (Master) MQTT MQTT MQTT Module EtherNet/IP ICPDAS Module Internal Internal Module	dule Setting ing ile (Master) Modbus TCP Module L LAN Load ICPDAS Module Select All No. Copy Remo Remove all	Conv ist LAN Select T *Mo Nam	ert Setting Advanced Setting Log	ager Setting AS Module List Edit
Run the project System Setting Ma I/O Status File Sett Module Setting TCP Mode Modbus RTU Module (Master) TCP Module (Master) ASCII Module (Master) MQTT MQTT Module EtherNet/IP ICPDAS Module Internal Internal Module	dule Setting IoT Platform Setting ing ile (Master)  Modbus TCP Module L LAN Load ICPDAS Module Select All No.   Copy Remu Remove all	Conv ist LAN Select T *Mc Nam	ert Setting Advanced Setting Log	ger Setting AS Module List Edit
Run the project         System Setting       Mod         I/O Status       File Setting         Module Setting       TCP Module         Modbus       RTU Module (Master)         TCP Module (Master)       ASCII Module (Master)         ASCII Module (Master)       MQTT         MQTT Module       EtherNet/IP         ICPDAS Module       Internal         Internal       Module	dule Setting IoT Platform Setting	Conv ist LAN Select T *Mo Nam	ert Setting Advanced Setting Log	ager Setting AS Module List Edit

	Evali	Version 1	.0.0	Date	2022 12	Page	10 / 15
						ruge	
Modbus Mo	odule Setting						
. MQTT Cer	tificate Setting						
(a) Uploa	d the <b>AmazonRo</b>	otCA3.pe	<b>m</b> downloa	ded fror	m AWS loT t	to UA via the	Truste
Certifi	icate item.						
	<b>MQTT</b> Client	t					
	Remove the	File					
	Tru	sted Certificat	Remove				
		Certificat	Remove				
		Private Ke	Remove				
	Upload the fil	le to the c	ontroller				
	Tru	sted Certificat	te Select File	AmazonRo	potCA3.pem	Upload	
		Certificat	te Select File			Upload	
		Private Ke	Select File			Upload	
		Private Ke	Select File			Upload	
(b) Upload	d the xxxxxxxxx	Private Ke	ey Select File	downlo	aded from A	Upload	IA via th
(b) Upload <b>Certifi</b>	d the xxxxxxxxx icate item.	Private Ke <b>x-certifica</b>	ey Select File	downlo	aded from A	Upload	IA via th
(b) Upload <b>Certifi</b>	d the xxxxxxxxxx icate item. QTT Client	Private Ke	ey Select File	downlo	aded from A	Upload	IA via th
(b) Upload Certifi MC Re	d the xxxxxxxxxx icate item. QTT Client move the File	Private Ke	ey Select File	downlo	aded from A	Upload	IA via th
(b) Upload Certifi MC	d the xxxxxxxxxx icate item. QTT Client move the File Trusted Ce	Private Ke <b>x-certifica</b> ertificate	ey Select File	downlo	aded from A	Upload	JA via th
(b) Upload <b>Certif</b> i <b>MC</b> Re	d the xxxxxxxxx icate item. QTT Client move the File Trusted Ce Ce	Private Ke <b>x-certifica</b> ertificate [F ertificate [F	ey Select File ate.pem.crt	downlo	aded from A	Upload	JA via th
(b) Upload Certifi	d the xxxxxxxxx icate item. QTT Client move the File Trusted Ce Ce Priv	Private Ke <b>x-certifica</b> ertificate [F ertificate [F ate Key [F	ey Select File ate.pem.crt Remove Remove Remove	downlo	aded from A	Upload	IA via th
(b) Upload Certifi MC Re	d the xxxxxxxxx icate item. QTT Client move the File Trusted Ce Ce Priv load the file to t	Private Ke <b>x-Certifica</b> ertificate [F ertificate [F ertificate [F ertificate [F ertificate [F ertificate [F ertificate [F	ey Select File ate.pem.crt Remove Remove Coller	downlo	paded from A	Upload	JA via th
(b) Upload <b>Certifi</b> <b>MC</b> Re	d the xxxxxxxxxx icate item. QTT Client move the File Trusted Ce Priv load the file to t Trusted Ce	Private Ke <b>x-certifica</b> ertificate [F ate Key [F <b>the contro</b> ertificate [S	ey Select File ate.pem.crt Remove Remove Oller Select File	downlo	paded from A	Upload AWS IoT to U	JA via th
(b) Upload Certifi Re	d the xxxxxxxxx icate item. QTT Client move the File Trusted Ce Priv load the file to t Trusted Ce	Private Ke	ey Select File ate.pem.crt ate.pem.crt Remove Remove Oller Select File Select File 32e	downlo 9d7fd-certifi	paded from A	Upload AWS IoT to U	JA via th
(b) Upload Certifi Re Up	d the xxxxxxxxxx icate item. CTT Client move the File Trusted Ce Priv load the file to t Trusted Ce Ce Priv	Private Ke	ey Select File ate.pem.crt ate.pem.crt Remove Remove Oller Select File Select File Select File	downlo	paded from A	Upload AWS IoT to U Ipload Success Ipload	JA via th

ICP DAS Co., Ltd. Technical Document

(c) Uploa Priva	ad the xxxxx te Key item.	vyyyy-privat	1.0.0	Date	2022, 12	Page	111/15
(c) Uploa Priva	ad the <b>xxxxx</b> <b>te Key</b> item.	xxxxx-nrivat					
Ν		~~~~~	<b>e.pem.key</b> do	ownload	ed from AWS	S IoT to UA	via the
	<b>NQTT</b> Client	t					1
F	Remove the	File					
_	Tru	usted Certificate	Remove				
-		Certificate	Remove				
_		Private Key	Remove				
L	Jpload the fi	le to the con	troller				
	Tru	usted Certificate	Select File		Uplo	Success.	
		Certificate	Select File		Uplo	bad Success.	
MQTT Bro	oker Setting	Private Key	Select File 862e	9d7fd-priva	te.pem.key Upk	bad	
MQTT Bro (a) In MC <sub>Module S</sub>	oker Setting גדד Connecti etting א אמדז	Private Key ion, set up a	Select File 8e2e Remote Broke	9d7fd-priva	te.pem.key Upk	oad Iodule ≽ Sav	ve Project
MQTT Bro (a) In MC Module S Run the p	Dker Setting 2TT Connecti Setting > MQTT	Private Key ion, set up a	Select File 862e Remote Broke	9d7fd-priva Pr. g ≯ Er	te.pem.key Upk	lodule ≽ Sav	ve Project
MQTT Bro (a) In MC Module S Run the p	Diver Setting DTT Connecti Setting > MQTT Droject etting Module	Private Key ion, set up a T Certificate	Select File 862e	9d7fd-priva Pr. g > Er Convert So	te.pem.key Upk	lodule > Sav	ve Project
MQTT Bro (a) In MC Module S Run the p System S I/O Status	Dker Setting QTT Connecti Petting MQTT Droject etting Module File Setting	Private Key	Select File 8626 Remote Broke MQTT Broker Settin	9d7fd-priva ∂r. g ≯ Er Convert So	te.pem.key Upk	Iodule 🗲 Sav	ve Project
MQTT Bro (a) In MC Module S Run the p System S I/O Status	Dker Setting         QTT Connecting         Detting       MQTT         Detting       Module         Detting       File Setting         Setting       Remote Br	Private Key ion, set up a T Certificate	Select File 8626	9d7fd-priva	te.pem.key Upk	Iodule > Sav	ve Project
MQTT Bro (a) In MC Module S Run the p System S I/O Status IoT Platform 3 MQTT Conn Local Brok	Dker Setting         QTT Connecti         QTT Connecti         Getting       MQTT         Droject         etting       Module         Setting       File Setting         Setting       Remote Br         Setting       Remote Br         Setting       Remote Br	Private Key	Select File 862e	9d7fd-priva	te.pem.key Upk	Indule > Sav	ve Project
MQTT Bro (a) In MC (a) In MC Module S Run the p System S I/O Status IoT Platform Local Brok Remote Bro	oker Setting   QTT Connecti   Getting   Getting   MQTT   oroject   etting   Module   File Setting   Setting   Remote Br   Iection   ier   roker	Private Key	Select File 862e	e e 9d7fd-priva e Pr. Er Convert So	te.pem.key Upk nable Converting M etting Advanc	Domain	ve Project
MQTT Bro (a) In MC (a) In MC Module S Run the p System S I/O Status IoT Platform Local Brok Remote Bro MQTT Gro	oker Setting   OTT Connection   Setting   MQTT   oroject   etting   Module   File Setting   Setting   Remote Br   Setting   Remote Br   roker   oropection	Private Key	Select File 862e	e	te.pem.key Upk nable Converting M etting Advanc	Dodule > Sav	ve Project
MQTT Bro (a) In MC (a) In MC Module S Run the p System S I/O Status I/O Status I/O Status I/O Status I/O Status I/O Status I/O Status I/O Status I/O Status I/O Status	Dker Setting   QTT Connection   Setting   MQTT   Setting   MQTT   Droject   etting   Module   Setting   Remote Br   Setting   Remote Connection   Setting   Connection   Setting   Connection   Setting	Private Key	Select File 862e	e	te.pem.key Upk nable Converting M etting Advance IP / I	Doad   Iodule   Saved Setting   Domain   7.0.0.1	Ve Project
MQTT Bro (a) In MC (a) In MC Module S Run the p System S I/O Status IOT Platform Local Brok MQTT Conn Local Brok MQTT Gro Microsoft A	Dker Setting QTT Connection Setting Module Setting Module Setting Module Setting Remote Br Setting Rem	Private Key	Select File 862e	e e	te.pem.key Upk nable Converting M etting Advance IP / I 127	Dodule Sav   Nodule Sav   Nodule Sav   Nodule Nodule   Nodule Nodule	ve Project Logger Settir Port 1883 ] / 1 ≥

Classifi	cation	UA-Series Eng	lish Funct	ion Wizard FA	Q-CNV-	08		
Author		Eva Li	Version	1.0.0	Date	2022, 12	Page	12 / 15
	Syster	m Setting Mod atus File Settir	ule Setting	loT Platform	Setting	Convert Setting	) Advand	ced Settin
	IoT Platfo	orm Setting Remot	e Broker E	Broker Content Setti	ngs			
	MQTTC	onnection	Brok	er Content S	ettings			
	Remot	e Broker		Broke	r Name	AWS		
	MQTT	Group Connection		IP /	Domain	а	us-east-	
	Micros	oft Azure Platform			Port	8883		
		Connection		Keep Alive Time(s	second)	60		
	Local d	Server		S	SL/TLS	Enabled		
				Trusted Ce	rtificate	AmazonRootCA3.p	oem 🗸	
				Ce	rtificate	63f0cdd188303490	)f986216c¦ ✔	
				Priv	ate Key	63f0cdd188303490	)f986216c! 🗸	
				Anonymou	s Login	Enabled		
Reta	ined messag		AWS IOT	> Settings				
▼ Secu	ırity		Sett	ings Info				
lr C P	ntro Certificates Policies		Dev	ice data endpo	oint Info			
C R	Certificate au Role Aliases	thorities	Your o	devices can use your ac	count's devic	e data endpoint to con	nect to AWS.	lionts and AWS
A	uthorizers udit		endp	oint.				
► D ► Fleet	etect t Hub	- 1	D a			.amazonaws.com		
Device S Billing g	Software groups Is		Don You ca AWS I	nain configura an create domain conf oT Core and maintaini ctions <b>v</b>	tions igurations to ng brand iden reate doma	simplify tasks such as r ntity. <b>ain configuration</b>	nigrating devices	s to AWS loT Core, n
Feature	espotlight			Name	Domain r	name	Status	Service type
		IC	P DAS Co.	, Ltd. Technica	l Docum	ient		

Classification	UA-Series English Function Wizard FAQ-CNV-08									
Author	Eva Li	Version	1.0.0	Date	2022, 12	Page	13 / 3	15		
<ul> <li>(c) Broker Content Settings &gt; Port: 8883</li> <li>(d) Broker Content Settings &gt; SSL/TLS: check Enabled Trusted Certificate, Certificate and Private Key: select previously uploaded files in order.</li> </ul>								order.		
(e) Anonym	nous Login: ch	eck Enab	led							
<ol> <li>Enable Converting Module</li> <li>After completing Broker settings, select the Modbus device Tag to be converted. (<u>Message</u> <u>QoS set to 0 or 1</u>)</li> </ol>							ge			
MQTT Client Set	ting									
	No.	1								
	Module Name	simulate								
	Scan Rate(ms) 1000		00							
	Dead Band 0									
	Will Topic									
	Will									
MQTT Connection  AWS (Remote)										
Publish & Subsc	ribe									
	Details	Show Hide	е							
Name	Ie Subscribe Topic		Subscribe QoS		Publish Topic	Publish QoS	Retain	Enablec		
Tag0	/MTCP_No.1 ng_Registers e	_simulate/Holdi /Tag0/Subscrib		/MTCP_No ng_Registe	o.1_simulate/Holdi ers/Tag0/Publish	1 🗸				
Tag1	/MTCP_No.1_simulate/Holdi ng_Registers/Tag1/Subscrib e			/MTCP_No ng_Registe	o.1_simulate/Holdi ers/Tag1/Publish	1 🗸				
Tag2	/MTCP_No.1_simulate/Holdi ng_Registers/Tag2/Subscrib		1 🗸	/MTCP_No ng_Registe	o.1_simulate/Holdi ers/Tag2/Publish	1 ~				
5. Save the project and run the project After completing the preceding steps, save and run the project following the wizard steps. ICP DAS Co., Ltd. Technical Document										

Classification	UA-Series Engl	ish Funct	ion Wizard FA	Q-CNV-(	08		
Author	Eva Li	Version	1.0.0	Date	2022, 12	Page	14 / 15
<b>Fest</b>							
<ol> <li>Please click topic" to che</li> </ol>	the <b>MQTT tes</b> t eck whether the	t <b>client</b> o e data ha	n the <b>AWS Ic</b> s been uploa	oT servi ded suc	ce page, and ccessfully.	use " <mark>Subs</mark> o	cribe to a
AWS IoT	×	AW:	S IoT. AWS IoT also p MQTT test client.	ublishes MC	QTT messages to info	rm devices and ap	ops of chan
Monitor		-	Subscribe to a t	opic	Publish to a top	pic	
Connect Connect o ► Connect n	one device nany devices		Topic filter Info The topic filter describes #	the topic(s) t	o which you want to sub	scribe. The topic filte	er can include
Test			Additional config  Number of messages The MOTT test client kee	to keep	of the most recent mess	ages published to a t	onic that ma
Device Adv     MQTT tes     Device Log	visor <b>t client</b> cation New		10 Quality of service When subscribing to a to	ppic, quality of	f service 0 will be choser	1 by default.	
Manage <ul> <li>All devices</li> </ul>	5		<ul> <li>Quality of Service</li> <li>Quality of Service</li> <li>Quality additional displate</li> </ul>	e 0 - Messag e 1 - Messag v	e will be delivered at e will be delivered at	most once least once	
Things Thing g Thing 1	groups types		<ul> <li>Auto-format JSOI</li> <li>Display payloads</li> <li>Display raw paylo</li> </ul>	y N payloads ( as strings (n ads (display	(improves readability nore accurate) rs binary data as hexa	) adecimal values)	
Fleet n Greengras	netrics s devices	•	Subscribe				
Subscriptions	#				Р	ause Clear	Export Edit
# ♡×	▼ /MTCP_No.1_simulate/	'Holding_Registers,	/Tag1/Publish			December 01, 2022, 7	17:29:10 (UTC+0800)
	289 Properties						
	▼ /MTCP_No.1_simulate/Holding_Registers/Tag1/Publish December 01, 2022, 17:29:10 (UTC+C					17:29:10 (UTC+0800)	
	287						
	Properties						

Classification	UA-Series English Function Wizard FAQ-CNV-08						
Author	Eva Li	Version	1.0.0	Date	2022, 12	Page	15 / 15

## 2. Click **MQTT test client** on the AWS IoT service page, and use "**Publish to a topic**" to check whether the **UA** series has successfully received the data.

AWS IOT ×	Subscribe to a topic Publish to a topic					
Monitor	<b>Topic name</b> The topic name identifies the message. The message payload will be published to this topic with a Quality of Service (QoS) of 1.					
	Q /MTCP_No.1_simulate/Holding_Registers/Tag2/Subscribe					
Connect	Message payload					
Connect one device	296					
Connect many devices						
Test	Additional configuration					
Device Advisor	Retain message on this topic					
MQTT test client	Quality of Service					
Device Location New	When subscribing to a topic, Quality of Service (QoS) 0 will be chosen by default.					
	Quality of Service 0 - Message will be delivered at most once Quality of Service 1. Message will be delivered at least open					
Manage	Vuolity or bervice i - message witt be delivered at teast office					
All devices	MQTT 5 properties         Info           Add MQTT 5 properties by choosing a property type and adding a value.					
Things						
Thing groups	Add property					
Thing types	You can add up to 5 properties.					
Fleet metrics	User properties Info					
Greengrass devices	Add user properties in the MQTT header.					
Add user proper	rty					
Subscriptions	#					
#	♥ × ▼ /MTCP_No.1_simulate/Holding_Registers/Tag2/Publish					
	296					
	Properties					
	<ul> <li>/MTCP_No.1_simulate/Holding_Registers/Tag2/Subscribe</li> </ul>					
	296					
	Properties					
ICP DAS Co., Ltd. Technical Document						