·							
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FAQ-CNV-05: L How to Conver EIP / MQTT Cor Service function	JA Web UI Fu rt (EtherNet/I	nction V (P) EIP / the con the MQ	Vizard – Moc MQTT ? (Use version of MC TT client to pu	Jule Cor EIP-20	mmunicatio 60) EtherNet/IP p e message to	n Conversi	on - th the MQTT ed broker or
to the controller.							dt connecteu
Convert Set	ting: (Etherivet/	TP) EIP an					
Í	Conver	t Setting:	EtherNet/IP ar	nd MQTT			
L					)		
LAN: E	UA Series Controller thernet Port	<u>еса, а</u> 84 азу, 84 а	Ethernet	E	EtherNet/ Module (EIP-2060 thernet Port	IP )) ]	
<u>Note:</u> Th	e hardware/net	work con	nection metho	ds please	see the UA M	Ianual <u>Chapt</u>	<u>er 2</u> .
When UA series 2000 I/O via M( Communication (	controller conn QTT Broker, us Conversion" in t	ects the E er can ch he Functi،	EIP-2000 (via E noose the item on Wizard.	thernet, ۱ [ <b>(Ether</b>	as the picture Net/IP) EIP /	) and read/v MQTT] of	vrite the EIP- the "Module
		Master) Mo Master) Mo Master) Mo EtherNet/IF Master) Mc	dbus RTU / MQT dbus TCP / MQT dbus ASCII / MQ ) EIP / MQTT dbus RTU / MQ				
[Step Box]:	_0	vlaster) ivio	dbus TCP / MQT	I JSON			
The Step Box of t auto enters the f user just needs t rightly.	the [ <b>(EtherNet/</b> irst step setting to follow the "S	IP) EIP / I page (Th Step Box"	<b>MQTT</b> ] has the e step with a b step-by-step a	steps as old unde and then	below. When rline means it can complete	enabling th is the curre the projec	e Step Box, it nt step.). The t quickly and
Module Setting Run the project	MQTT Certifica	ite 🗲 MC	גדד Broker Setting	> Ena	ble Converting M	odule ≽ Sa	ve Project ≽
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Step 1. Mod Module Setti Run the proj This page is f	Iule Setting	tificate <b>&gt;</b> ommunica	MQTT Broker Se ation values of	the conn	Enable Converting ected module	g Module 📏 S.	Save Project
and select th module, and System Setting	then click [Edit]	odule (This button to	s example: EIP o configure the	-2060). Cl e module	lick [ ) butt content and I, Advanced Setting	on could add /O. Logger Settir	d a new
Module Setting	ICPDAS Module			1. Ether	net port: LAN		
Modbus RTU Module (M TCP Module (M	aster) Ether	Net/IP Mod	dule List LAN LAN	Ţ	2. Select Ex: EIP	a model, - <b>2060</b>	
ASCII Module (I	Master)	II No.	ModuleNa	ame	NickNam	le	Edit
MQTT MQTT Module EtherNet/IP ICPDAS Module	e Remove	1 Cor all 3. (	Click to add	Save	<	0 / 0 >	
Add a modu Eth	le (No.: 1, Name erNet/IP Modu	EIP-206	0) as below.				
Selec	t All No.	EIP-20	oduleName		NickName	4	Edit
	1		FIP-2060		FIP-2060		Edit
	Сору	Remove			< 1	/1>	
Remo	ove all		Save				
lf set up a wi [Remove] bu Click [ <b>Edit</b> ] b	rong module, us itton to delete t utton to enter t	er can clic he module he "Modu	k the box in th e. le Content Set	e left sid ting" pag	e of the modu e.	le number a	nd click the
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Module Conten	t Setting] page:						
Module C	Content Settin	g					
	N	p. 1					
	Module Nam	EIP-20	060				
	NickNam	e EIP-20	060		User	enters the n	nodule
	I	P 192	. 168 . 13	. 5	coni	nected IP ad	dress.
	ChannelNumbe	er 12-ch	(6DI+6DO)	•			

Module Content Set	ting
No.	The module number in the module list (Not editable here)
Module Name	The selected model number. (Not editable here)
Nick Name	User can give a nick name, default: selected model number
IP	Enter the IP address of the connected EIP module.
	This example: IP address of the EIP-2060 is 192.168.13.5
Channel Number	Select the number of the I/O channels.

The system will auto-display the selected I/O table by the order of Digital Input / Digital Output / Analogy Input / Analogy Output. This example: EIP-2060 has 6 DI and 6 DO.

		Attributes	Data Type	Description
0	DI0	Read <b>v</b>	Bool	
1	DI1	Read	Bool	
2	DI2	Read	Bool	
3	DI3	Read	Bool	
4	DI4	Read	Bool	
5	DI5	Read	Bool	

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Diç	gital Output						
	Channel	Name	Attributes	Data	Туре	Description	1
	0	00	Read / Write	▼ Bo	ol		
	1 D	01	Read / Write	▼ Bo	ol		
	2 D	02	Read / Write	▼ Bo	ol		
	3 D	03	Read / Write	▼ Bo	ol		
	4 D	04	Read / Write	▼ Bo	ol		
	5 D	05	Read / Write	▼ Bo	ol		
An	alogy Input						
	Channel	Name	Attributes	Data Type		Description	
An	alogy Outpu	it					
	Channel	Name	Attributes	Data Type		Description	
			ОК	Cancel			

Channel number will auto-display according to the model. (Not editable)
Default: Number from 0.
User can define the name. Default: DI#, DO#, AI#, AO#
Available: number, English character, underline "_", dash line "-", cannot
be a space, slash "/", Chinese character, and other symbols.
Display data attribute of the variable. (Not editable)
Include Read, Read/Write
Display data type of the variable. Include: Bool, Short, Unsigned Short,
Long, Unsigned Long, Float, Double, String
For users set up the description for the channel.
Click [OK] to save and exit the page settings.
Click [Cancer] to exit without saving.

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• St	ep 2. MQT	T Certificate						
	Module Settir	ng 📏 MQTT Cer	tificate ≽	MQTT Broker Set	ting 📏	Enable Converting	g Module 📏	Save Project 🔰
	Run the proje	ect						

The [MQTT Certificate] is for setting up security communications to upload the MQTT Trusted Certificate, Certificate and Private Key. The users upload the file to the UA controller according to the type of obtained certificate. If you want to perform Broker authentication, you need to upload the Trusted Certificate. If you want to perform the Broker/Client two-way authentication, you need to upload the Credential and Private Key additionally. The user can skip this step if the user project does not use certificate transmission security.

	-				
Project	File	MQTTClient			
OPC U/	A Certificate	Remove the File			
MQTT (	Certificate	Trusted Certificate	Remove		
Log File	DownLoad	Certificate Remove			
		Private Key	ate Key Remove		
		Upload the file to the cor	ntroller		
		Trusted Certificate	Select File	Upload	
		Certificate	Select File	Upload	
e Setting > usted rtificate	MQTT Certific Select File: s Upload: uplo	Private Key cate > Upload the file to the elect the MQTT Trusted Cer oad the MQTT Trusted Cer	Select File ne controller ertificate file of the device. tificate file to the UA control	Oller.	
le Setting > ousted ertificate	MQTT Certific Select File: s Upload: uplo • File format • If select a v	Private Key cate > Upload the file to the elect the MQTT Trusted Cer and the MQTT Trusted Cer must be <b>PEM</b> . Extension in wrong file, the system will	Select File ertificate file of the device. tificate file to the UA controname must be "pem / cer / show an error message.	oller.	
le Setting > rusted ertificate	MQTT Certific Select File: s Upload: uplo • File format • If select a v Trusted	Private Key cate > Upload the file to the elect the MQTT Trusted Cer and the MQTT Trusted Cer must be PEM. Extension no wrong file, the system will Certificate Select File Certificate_1	Select File ertificate file of the device. tificate file to the UA contra- name must be " <b>pem / cer /</b> show an error message. 92.168.255.10 Certificate type is wrong	oller. / crt".	
le Setting > ousted ertificate	MQTT Certific Select File: s Upload: uplo • File format • If select a v Trusted Select File: s	Private Key cate > Upload the file to the elect the MQTT Trusted Cer and the MQTT Trusted Cer must be PEM. Extension of wrong file, the system will Certificate Select File Certificate_1 elect the MQTT Certificate	Select File ertificate file of the device. tificate file to the UA contro- name must be " <b>pem / cer /</b> show an error message. 92.168.255.10 Certificate type is wrong e file of the device.	Oller. / crt".	
le Setting > Tusted Partificate	MQTT Certific Select File: s Upload: uplo • File format • If select a v Trusted Select File: s Upload: uplo	Private Key cate > Upload the file to the elect the MQTT Trusted Cer and the MQTT Trusted Cer must be <b>PEM</b> . Extension of wrong file, the system will Certificate Select File Certificate_1 elect the MQTT Certificate for ad the MQTT Certificate for the MQTT Certificate for the MQTT Certif	Select File ertificate file of the device. tificate file to the UA contro- name must be " <b>pem / cer /</b> show an error message. 92.168.255.10 Certificate type is wrong e file of the device. ile to the UA controller.	Oller. v crt".	
ertificate	MQTT Certific Select File: s Upload: uplo • File format • If select a v Trusted Select File: s Upload: uplo • File format	Private Key cate > Upload the file to the elect the MQTT Trusted Cer and the MQTT Trusted Cer must be PEM. Extension in wrong file, the system will Certificate Select File Certificate_1 elect the MQTT Certificate for and the MQTT Certificate for must be PEM. Extension in the system will certificate file the system will certificate file the must be PEM. Extension in the system will certificate file the system will certificate file	Select File ertificate file of the device. tificate file to the UA contro- name must be " <b>pem / cer /</b> show an error message. 92.168.255.10 Certificate type is wrong e file of the device. ile to the UA controller. name must be " <b>pem / cer /</b>	Upload oller. / crt".	
ertificate	MQTT Certific Select File: s Upload: uplo • File format • If select a v Trusted Select File: s Upload: uplo • File format • If select a v	Private Key cate > Upload the file to the elect the MQTT Trusted Cer and the MQTT Trusted Cer must be PEM. Extension of wrong file, the system will certificate Select File Certificate_1 elect the MQTT Certificate for and the MQTT Certificate for wrong file, the system will elect the MQTT Private Ker	Select File Pertificate file of the device. tificate file to the UA contro- name must be " <b>pem / cer /</b> show an error message. 92.168.255.10 Certificate type is wrong the file of the device. ile to the UA controller. name must be " <b>pem / cer /</b> show an error message. w of the device.	Upload oller. / crt". Upload	
e Setting > usted ertificate ertificate	MQTT Certific Select File: s Upload: uplo • File format • If select a v Trusted Select File: s Upload: uplo • File format • If select a v Select File: s Upload: uplo	Private Key cate > Upload the file to the elect the MQTT Trusted Cer and the MQTT Trusted Cer must be PEM. Extension of wrong file, the system will Certificate Select File Certificate_1 elect the MQTT Certificate for and the MQTT Certificate for must be PEM. Extension of wrong file, the system will elect the MQTT Private Key and the MQTT Private Key	Select File <b>ne controller</b> ertificate file of the device. tificate file to the UA control name must be " <b>pem / cer /</b> show an error message. 92.168.255.10 Certificate type is wrong e file of the device. ile to the UA controller. name must be " <b>pem / cer /</b> show an error message. by of the device. file to the UA controller.	Oller. / crt". / upload	
Ie Setting > rusted ertificate ertificate	MQTT Certific Select File: s Upload: uplo • File format • If select a v Trusted Select File: s Upload: uplo • File format • If select a v Select File: s Upload: uplo • File format	Private Key cate > Upload the file to the elect the MQTT Trusted Cer and the MQTT Trusted Cer must be PEM. Extension of wrong file, the system will certificate Select File Certificate 1 elect the MQTT Certificate 1 and the MQTT Certificate 1 must be PEM. Extension of wrong file, the system will elect the MQTT Private Key and the MQTT Private Key must be PEM. Extension of wrong file, the system will elect the MQTT Private Key must be PEM. Extension of must be PEM.	Select File Pertificate file of the device. tificate file to the UA control name must be "pem / cer / show an error message. 92.168.255.10 Certificate type is wrong e file of the device. ile to the UA controller. name must be "pem / cer / show an error message. by of the device. file to the UA controller. name must be ".key".	Upload oller. / crt".	

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			1.010	Dutt	2022/01	. uge	0,10
Step 3. MQT	۲ Broker Se	tting					
Module Setting	MQTT C	Certificate 📏 🛛	MQTT Broker	Setting 🕨 E	Enable Converting	g Module	Save Projec
Run the project							
lick the next of	ton and on	tor the <b>Stop</b> 2		akar Sattin	<b>al</b> of the lill co	tting	
This page is for	setting the	IoT platform	and the M	OTT Broker	connection. e	.g. the lo	ocal or remote
proker, port, lo	gin informa	ition, etc.				.8	
Ne select the "	EIP / MQTT	" conversion	at the begin	nning, so th	is step will au	to enter	the [MQTT
Connection > L	ocal Broker	'] page of IoT	Platform Se	etting. The "	'Step Box" wil	l preven	t the user from
selecting the w	rong platfo	rm. User can	choose the	local or rem	note broker fo	or the MO	QII connectio
The example u	soc local Br	okor					
The example us	ses local Br	oker.					
The example us	ses local Br	oker.					
۲he example u ocal Broker.	ses local Br	oker.					
The example us Local Broker	ses local Br	oker.	loT Platfi	orm Setting	Convert S	etting	Advanced Se
The example us	ting Mo	oker.	loT Platf	orm Setting	Convert S	etting	Advanced Se
The example us cocal Broker System Set	ting Mo	oker. odule Setting	loT Platf	orm Setting	Convert S	etting	Advanced Se
The example us ocal Broker System Set IoT Platform Se MQTT Conne Local Broke	ting Mo etting Loca	oker. odule Setting I Broker Local	loT Platf	orm Setting	Convert S	etting	Advanced Se
The example us Local Broker System Set IoT Platform Set Local Broke	ting Mo etting Loca	oker. odule Setting I Broker Local	loT Platfe Broker S	orm Setting Setting Port	Convert S	etting	Advanced Se
The example us ocal Broker System Set IoT Platform Se MQTT Conne Local Broker Remote Bro	ting Mo etting Loca ction r ker	oker. odule Setting I Broker	loT Platfi Broker S	orm Setting Setting Port	Convert S	etting	Advanced Se
The example us Local Broker System Set IoT Platform Set MQTT Connec Local Broket Remote Bro MQTT Grou	ting Mo etting Loca ction r ker p Connection	oker. odule Setting I Broker Local	IoT Platfa Broker S Anony	Setting Port mous Login	Convert S 1883 ☑ Enabled	etting	Advanced Se
The example us cocal Broker System Set IoT Platform Set MQTT Connec Local Broker Remote Bro MQTT Grou Microsoft Az	ting Mo etting Loca ction r ker p Connection cure Platform	oker. odule Setting I Broker Local	IoT Platf Broker S Anony	Setting Port mous Login	Convert S	etting	Advanced Se
The example us cocal Broker System Set IoT Platform Se MQTT Conne Local Broke Remote Bro MQTT Grou Microsoft Az	ting Mo etting Loca ction r ker p Connection cure Platform	oker. odule Setting I Broker Local	IoT Platfa Broker S Anony	Setting Port mous Login	Convert S	etting	Advanced Se
The example us ocal Broker System Set IoT Platform Set MQTT Connec Remote Bro MQTT Grou Microsoft Az	ting Mo etting Loca ction r p Connection cure Platform	oker. odule Setting I Broker Local	IoT Platfa Broker S Anony	Setting Port mous Login	Convert S	etting	Advanced Se
The example us ocal Broker System Set IoT Platform Se MQTT Conne Local Broker Remote Bro MQTT Grou Microsoft Az	ting Mo etting Loca ction r ker p Connection cure Platform	oker. odule Setting I Broker Local Local Cal Broker Set The COM port	IoT Platfi Broker S Anony tting t of the Loca	orm Setting Setting Port mous Login	Convert S	etting Save	Advanced Se
The example us ocal Broker System Set IoT Platform Set MQTT Connec Local Broket Remote Bro MQTT Grou Microsoft Az	ting Mo etting Loca ction r p Connection cure Platform ection > Loca	oker.	IoT Platfa Broker S Anony tting t of the Loca v anonymou	Setting Port mous Login	Convert S	etting Save	Advanced Se
The example us ocal Broker System Set IoT Platform Se MQTT Conne Local Broke Remote Bro MQTT Grou Microsoft Az MQTT Conne Port Anonymous Save	ting Mo ting Mo ting Loca ting Connection r ction r ction - Loca ction - Loca	oker. odule Setting I Broker Local Local Cal Broker Set The COM port Check to allow Click to save t	IoT Platfi Broker S Anony tting t of the Loca v anonymou	orm Setting Setting Port mous Login al MQTT Brous login. Dep of this page.	Convert S	etting Save	Advanced Se
The example us ocal Broker System Set IoT Platform Set NQTT Connec Local Broker Remote Bro MQTT Grou Microsoft Az MQTT Connec Port Anonymous Save	ting Mo etting Loca ction r b Connection cure Platform ection > Loca ction r cure Platform	oker.	IoT Platf Broker S Anony tting t of the Loca v anonymouthe setting of	Setting Port mous Login al MQTT Brous us login. Dep of this page.	Convert S	etting Save	Advanced Se
The example us cocal Broker System Set IoT Platform Se MQTT Conne Local Broke Remote Bro MQTT Grou Microsoft Az MQTT Conne Port Anonymous Save	ting Mo etting Loca ction r p Connection cure Platform ection > Loca 1 Login (	oker.	IoT Platfi Broker S Anony tting t of the Loca v anonymou he setting o	orm Setting Setting Port mous Login al MQTT Bro us login. De of this page.	Convert S	etting Save	Advanced Se
The example us ocal Broker System Set IoT Platform Set NQTT Connec Local Broker Remote Bro MQTT Grou Microsoft Az MQTT Connec Port Anonymous Save	ting Mo etting Loca ction r p Connection cure Platform ection > Loca ction r cure Platform	oker.	IoT Platf Broker S Anony ting t of the Loca v anonymou he setting o	orm Setting Setting Port mous Login al MQTT Bro us login. De of this page.	Convert S	etting Save	Advanced Se

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## If user wants to use the remote Broker, please click the "Remote Broker" to set up.

## Remote Broker:

System Setting	Module Setting	IoT Platform Setting	Convert Setting	Advanced Setting	I/O Status	File Setti
IoT Platform Setting	emote Broker					
MQTT Connection Local Broker	Remo	ote Broker List				
Remote Broker		Broker Na	ame	IP / Domain	Port	Edit
MQTT Group Connec	ction 💮	Name				
Microsoft Azure Platfe	orm	broker	r	192.168.101.2	1883	Edit
OPC UA Connection Local Server		Remove		<	1 / 1 >	

<b>MQTT</b> Connecti	on > Remote Broker List
Broker Name	The name of the remote MQTT Broker.
	User can define the name, e.g. Broker1. Default: Name.
÷	Click to add a new remote Broker.
Save	Click to save the settings of this page.

## After creating a new Remote Broker (as below):

Remote E	Broker List				
	Broker Name	IP / Domain		Port	Edit
Ð	Name1				
	Broker1	127.0.0.1		1883	Edit
	Remove		< 1	/1>	
		Save			

<b>MQTT</b> Connecti	MQTT Connection > Remote Broker List					
Broker Name	The name of the remote MQTT Broker.					
	User can define the name, e.g. Broker1. Default: Name.					
IP / Domain	The IP address of the remote Broker. Default: 127.0.0.1					
Port	The COM port of the remote Broker. Default: 1883	-				
Edit / Remove	Click [Edit] can set the Broker.					
	Click the left box and [remove] can delete the Broker.					
Save	Click to save the settings of this item.					

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Broker Name	Broker1
IP / Domain	127.0.0.1
Port	1883
Keep Alive Time(second)	60
SSL/TLS	Enabled
Anonymous Login	✓ Enabled
	OK Cancel

MQTT Connection > R	emote Broker > Broker Content Settings
Broker Name	The name of the remote MQTT Broker. (Editable)
IP / Domain	The IP address of the remote Broker. Default: 127.0.0.1
Port	The COM port of the remote Broker. Default: 1883
Keep Alive Time	The keep alive time. Default: 60 (second)
SSL/TLS	Check to enable the supporting of SSL/TLS security communication.
	Default: uncheck.
Anonymous Login	Check to allow anonymous login. Default: Check.
ОК	Click to save the settings and exit.

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Step 4. Enab Module Settin Run the proje Click the next This step is fo	le Converting	g Module Certificate >	MQTT Broker <b>4 [Enable C</b> r the EtherN n at the begin	Setting	Enable Converti Module] UI se TT conversio	ng Module etting n. uuto enter th	Save Project
Please check V/O Statu Convert Se	page of Conv rm. the Enabled Setting Module is File Setting tting EtherNet/IP	box of the m	odule.	Convert Setting	Advanced Sett	ing Logger Se	etting
OPC UA	TII (Master)	EtherNet/IP	Module List				
Modbus 1	CP (Master)	No.	Module Name	Nickr	name	Edit	All Enabled
Modbus A	ASCII (Master)	1	EIP-2060	EIP-:	2060	Edit	
MQTT Modbus F Modbus J Modbus A EtherNet/	RTU (Master) FCP (Master) ASCII (Master) IP			Sav	re		5
Convert Set	ting > MOTT	> EthorNot/	IDFthorNo	t/IP Modu	la List		
No.	The m	odule numb	er in the mo	dule list (N	lot editable h	ere)	
Module Nan	ne The m	odule user s	elected (Not	editable h	nere)	,	
Nickname	The m	odule name	set in the m	odule list (	Not editable	here)	
All Enabled	Check Defau modu	[All Enabled It: Uncheck. le for conver	] box to ena Check the b sion	ble all moo ox of each	dules in list fo module can e	r conversior enable just tl	n. hat
Edit	Click t Publis	o enter the ' h, Subscribe	MQTT Clien	t Setting"	page to set up	o the Topic,	QoS,
< 1 / 1	The pa	age number o go to the n	of the modu revious or no	le list: Curi ext page.	rent page / To	otal pages. C	lick <
Save	Click t	o save the se	ettings of thi	s page.			

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<ul> <li>Step 5. Save</li> <li>The setting of an animation project is save</li> </ul>	e Project of this example is n as below pictu ved completely.	i finished re, that m	now. Click the leans the proje	next ste ect is sav	p <b>[Save Projec</b> ring. When the	et], the Step is animation	Box will show vanished, the
Module Sett Run the proj	ing ≽ MQTT Cert ject	ificate 🗲	MQTT Broker Set	ting ≽	Enable Convertin	g Module >	Save Project
		>	Save Pro	ject 🌔	$\mathbf{>}$		
• Step 6. Run	the Project						
The project, also via the l	after saving, nee	ds to be e > <b>Controll</b>	executed. Click er Service Sett	the next ing > Ru	step <b>[Run the</b> <b>n Proiect</b> ] to S	e Project]. Th top and Run	is step can the project.
Module Sett Run the pro	iing 📏 MQTT Ceri	tificate 🗲	MQTT Broker Set	ting ≽	Enable Convertin	g Module 🗲	Save Project
	Run the proje	ct Plea	ase wait.	Run th	ne projec	Success.	
When the w controller is and back to The new pro	vords " <b>Please wa</b> running new pro the first screen v oject now comp	ait" disapp oject succ iew of the letes the	pears, the new essfully. Then Web UI. setting, upload	v words the Step ding anc	" <b>Success</b> " app Box will disa I running in tl	pears, that m ppear autom ne UA contro	neans the UA natically now oller and car
process the more about	conversion comp the Web UI setti	nunicatior ngs, pleas	n. Users can se e refer to UA N	e the I/C ⁄Ianual C	) status from t CH4 and CH5.	he menu [ <b>I/</b> (	<b>O Status</b> ]. For
I/O Status I/O Status	File Setting	tod Oottin					

Master) No Name Serial Port	Number of variables Display Update Time (ms)		10		(Indated 10 points per second)			
No. Name Senari on			1000		(opdated to p	cu to points per secondy		
1 M-7055D ttyO5								
< 1 / 1 >	I/O Status					I/O	Scaling	
Modbus TCP Module	Variable Name Data Type Value			Description				
(Master) No. Name LAN	DIO Bo		ool					
1 DL-302 LAN	DI1	Bo	lool					