

OPC UA Client

Supported Series: Weinetk OPC UA Server, Unified Automation, Prosys, Kepware

HMI Setting:

Parameters	Recommended	Options	Notes		
PLC type	OPC UA Client				
PLC I/F	Ethernet				
Port no.	4840				
Coourity rolling	Nege	None / Basic128Rsa15 /			
Security policy	None	Basic256 /			
Message	None	None / Sign/			
security mode	None	SignAndEncrypt			
Re-Build Certifica	ate when HMI Star	ts			
Use sha-256 mode (default sha-1)					
Support Uncertain Initail Value					

On-line simulator	Yes	Multi-HMI connect	Yes
		•	

When you use opc us client for the first time, you need to set time related settings, please refer to the settings below.

System Parameter Setting -> Time Sync./DST

Device	Model	General	System	Remote	e S	ecurity	Extended Memor
Cellular	Data Network		Time Sync./I	DST	e	-Mail	FTP
	HMI	time zone : ((UTC+08:00)				¥
* (HMI tin	ne zone] setting	g will also be u	sed for timestam	ips of OPC U	A and MQ	п.	
E	nable time synd	chronization wi	ith the external	device when	HMI start	s	
v E	nable time synd	chronization vi	a NTP (Network	Time Protoco	ol) server		
			a NTP (Network when HMI starts		ol) server		
√ E	xecute time sy	nchronization	•	1			
√ E	xecute time syn	nchronization v e time has beer	when HMI starts	1			~
√ E	xecute time syn	nchronization e time has been ponse time : ((when HMI starts n adjusted in ac	1	h DST	v.nist.gov or	¥ 24.56.178.140)
√ E	erver response Server response	nchronization e time has beer ponse time : (e server 1 : 0	when HMI starts n adjusted in ac (UTC +08:00)	1	h DST	v.nist.gov or	v 24.56.178.140)
√ E	Server response Server response Network time	nchronization (e time has been poonse time : (e server 1 : (e server 2 : []	when HMI starts n adjusted in ac (UTC +08:00) D.pool.ntp.org	1	h DST	v.nist.gov or	✓ 24.56.178.140)
√ E	Execute time syn server response Server resp Network time Network time	nchronization (e time has been ponse time : (e server 1 : (e server 2 : 1 e server 3 : 2	when HMI starts n adjusted in ac (UTC +08:00) D.pool.ntp.org 1.pool.ntp.org	1	h DST	.nist.gov or	✓ 24.56.178.140)

Support Device Type:

Data type	EasyBuilder data format	Memo
Bool	bit	
Int	16-bit BCD, Hex, Binary, Signed	16-bit
UInt	16-bit BCD, Hex, Binary, Unsigned	16-bit
DInt	32-bit BCD, Hex, Binary, Signed	32-bit
Real	32-bit Float	32-bit
UDInt	32-bit BCD, Hex, Binary, Unsigned	32-bit
LInt	64-bit Signed	64-bit
ULInt	64-bit Unsigned	64-bit
Double	64-bit Float	64-bit

Note: EBPro V6.03.02 or later supports 64 bits data type **(cMT Series only)**, but please note that the address limit range is 48 bits in maximum..

Get Tags:

1. In EasyBuilder Pro, add OPC UA Client into the device list, set **[IP address]**, **[Port no.]**, and then open **[Security, Authentication]**.

2.Click the magnifier icon near the **[Endpoint url]** field to open Discover Server window. In the window the security parameters of OPC UA Server can be found. Click **[Apply]**, the parameters will be automatically filled into the fields in Security group box in OPC UA Settings window. Finish the rest of the settings and then click **[OK]** to leave.

OPC	CUA Advanced Settings	
Endpoint url : Server name :	opc.tcp://192.168.2.38:4840	
Security Security policy : Message security mode :	None	v
opc.tcp://192.168.2.38:4840	Discover Server	Search
 opc.tcp://192.168.2.38:484 UaServer@cMT-DADB None - None Basic128Rsa15 - Sig Basic2565-Sign & Er Basic256Sha256 - S Basic256Sha256 - S 	jn icrypt ign	
	Apply	Exit



3.Click Tag Manager. If "**Connection failed.**' message appears, please check the communication parameters.

Cellular	Data Net	work	Pri	inter/Backup	Server	Tir	ne Sync./DST	e-M	lail	Recipes
Device	Mode	d Ge	meral	System S	ietting	Securit	y Non-AS	CII Fonts	Exter	nded Memor
Device list								m	wfa are I	22
No.		Name		Location	Device	type	Interface	VF Prot	ocol	Station no
Local H	IMI	Local Hit		Local	MT8073	HE (800		-		0
A DESCRIPTION OF										
Local f	PLC 4	OPC UA	Client	Local	OPC U	Client	Ethernet (P-1	_ ТСРЛР		NIA.
 Local I 	1.04	DPC UA	Client	Local	OPC U	AClient	Ethemet (P=1	_ ТСРАР		NEUA.

4.In the Browsing list select the tags to be imported, click **[Add Items]** to add the selected ones into **[Import items]** list. Click **OK** to save and leave, and **"Get tag information successfully."** message will show.

Get Tag: Get tag information again.

Remove Unchecked: Remove tag information.

Add Items: Add the selected tag to the project

Add Node: Add tag manually.*Note

Remove: Remove tag

Browse all: Browse all tags, if not checked, only the top layer will be browsed **Browse node:** Browse for single-layer nodes

OPC U	A Server Tags
Browsing	Import items
Image: Server(223) Image: Server(223) Image: Server(223) <th>Dipley Name</th>	Dipley Name
Browse all Browse node	c >> Dopley Name Hools ID: Taniant Type: Sample Internal: Description
C >> Three stamp Ramove Unchacked Add Terms >>	< > Add Node Remove
* Right did: for additional actions	
Get Tag	OK Canod

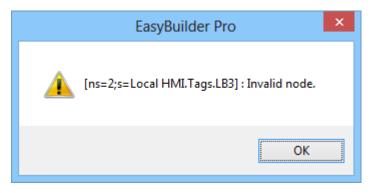


Note:

Manual AddNode needs to pay attention to the correctness of the parameters. The following figure shows the corresponding settings of UaExpert and EasyBuilderPro.

Attributes	₽ ×	
😏 🥪 💱	0	
Attribute	Value	Node Control ×
A Nodeld	NodeId	
NamespaceIndex	2	Display name : Tag_0
IdentifierType	String	
Identifier	Local HMI.Tags.LB0	Name space : 2
NodeClass	Variable	Type: String V
BrowseName	2, "LB0"	sung v
DisplayName	"", "LB0"	Id value : Local HMI.Tags.LB0
Description	nn nn r	
WriteMask	2147483647	Sample interval : 500 🖨 ms
UserWriteMask	0	
▲ Value		
SourceTimestamp	2022/12/12 PM 05:08:45.503	Multi. copy
SourcePicoseconds	0	Number of nodes :
ServerTimestamp	2022/12/12 PM 05:08:45.503	
ServerPicoseconds	0	
StatusCode	Good (0x0000000)	OK Cancel
Value	false	
4 DataTime	Roolean	

After pressing **[OK]**, it will check whether the node is valid, and the error will display a message.



Add Node successfully passed the inspection, you can see it on the list.

Display Name	Node ID	Variant Type	Sample Ir
LBO	ns=2;s=Local HMI.Tags.LB0	Boolean	500
<			>
Add Node]	R	emove



Wiring Diagram:

Ethernet cable:

