- 1. Use Uaexpert to connet to OPCUA Server to check if the OPCUA server is running.
- 2. Edgelink OPCUA master configuration.

Jamo:	NewDovice	
Name.	NewDevice	
Device Type:	OPC UA	T
Device Model	Double Click to Select I	Device Template …
Unit Number:	1	
Tag Write Type:	Single Write	•
Description:		-
Add device name	as prefix to IO tags	🔁 Bulk Copy
TCP/IP		
ID Addroses	11.0.0.22	
IF Address.	11.0.0.32	
5 I II I	1010	

1) Add a OPCUA device

Device Type: OPCUA

Unit Number: Different from other devices in one interface is ok. IP Address and Port Number: OPCUA server's IP and Port.

ecurity Policy - Message Security	/ Mode:
None - None	•
Authentication Settings:	
Anonymous	•
Jsername:	
assword:	
elect Certificate:	
Default Certificate File	-
elect Private Key:	

Use URL as Connection Address: If OPCUA server must be connected by its URL, you can choose this.

Security Policy and Authentication Setting: Follow the OPCUA server.

Certificate and Private Key: We have self authentication files by default. If customer needs to use the special file, they can choose in here.

Cyclic rate of subscribing data changes: By default, the mode of our opcua master is Asking-Answer. If choosing this, the mode we use will be: We send a message to OPCUA server to tell



it to check itself by cycle if there is some data changed. When some data changing, server will tell us, we don't need to ask server any more. 2) Add tags.

Basic			Advanced	
Name:	NewTag		ScalingType:	No Scale
Data Type:	Analog	•	Formula:	
Address:				
Span High:	1000	Default Address Cor	figuration	
Span Low:	0	• • • • • • • • • • • • • • • • • • •		
Initial Value:	0.0	Address Template:	ns=x;I= <numeric></numeric>	Clamp to span low
Scan Rate:	1	Address:	ns=x;s= <string></string>	Clamp to zero
Read Write:	Read/Write		ns=x;g= <guid> ns=x;b=<byte string<="" td=""><td></td></byte></guid>	
Description:		ОК	Cancel	

The address grammer is : ns=<Namespace Index>;<type>=<value> Examples

Address Type	Namespace Index	Example
Numeric	2	ns=2;i=1234
String	2	ns=2;s=Device.System_Tag.#SYS_TIME_SECOND
GUID	0	ns=0;g={8ACE8827-ECC3-4c9a-8032- CA1E9957A8E8}
Opaque	2	ns=2;b=M/RbKBsRVkePCePcx24oRA==

The data type in OPCUA we have supported:

Data Type	Description
Boolean	Single bit
Byte	Unsigned 8 bit value
SByte	Signed 8 bit value
UInt16	Unsigned 16 bit value
Int16	Signed 16 bit value



UInt32	Unsigned 32 bit value
Int32	Signed 32 bit value
Float	
Double	
Enumeration	
StatusCode	StatusCode is a 32-bit unsigned integer

We can see the address by Uaexpert.

Unified Automation UaExpert - The	DPC Unified Architecture Client - NewProject*
File View Server Document Set	ngs Help
🗋 💋 🕞 🖾 🙆 🖕 📼	o 🗙 🛶 🤰 🗟 🕷 🥪
Project 6	× Data Access View
 Project Servers OpcUaServer - None - Nor Documents Data Access View 	# Server Node Id Display Name Value Datatype urce Timesta ver Timesta Statuscode 1 OpcUaSer NS2[String]abcd.asd123 #SYS UPTI 6102.2989 Double 17:30:41.902 17:30:42.619 Good
<	
Address Space 6	*
😏 No Highlight	-
C Root	
✓	
> 💑 Server	
V 🖸 abcd	-
> = #SYS_UPTIME	9
> 🗀 Views	

In this example, we can see "ns=2", type is string, value is "abcd.asd123". So the address in edgelink should be "ns=2;s=abcd.asd123"



Basic			Advanced	
Name:	NewTag		ScalingType:	No Scale
Data Type:	Analog	•	Formula:	
Address:	ns=2;s=abcd.asd123			
Span High:	1000		Scale:	0
Span Low:	0		Offset:	0
Initial Value:	0.0		Clamp:	Clamp to span low
Scan Rate:	1			Clamp to zero
Read Write:	Read	•		
Description:		*		

3) Download the project. We can see the result in online monitor.

S Tags	Iags			
Il System Information	System Tag IO Tag User Tag	Calculation Tag		
Configuration	IO Tag			
	Tag Name			Tag Value
	Tag	Value	Quality	Timestamp

