David Johnson EOSYS





1. Open UA Expert

(not a Foxboro Utility)

### 2. Add an OPC Server

3. Double-click it to start exploring

Unified Automation UaExpert - The OPC Unified Architecture Client - NewProject\*

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		-jjjjjj	

Select Server

Navigate to Namespace Array

**Find Attribute** 3. Array Value 2 and copy it

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🖅 💋 GALAXY_LAB002	$\sim$	General Groups I/O Point Aliases	
		Name:	OPCTST
		Туре:	FDC_Device
		Description:	Field Device Controller Device
		Driver:	FDC280 OPC UA Client Driver - ver 2.0 [ID=11]
ka k		Driver Type:	Ethernet
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After installing the driver, adding a device, and selecting the OPC UA Driver...

Double-click the Device in the Network tab to configure Groups and OPC Tags to interact with.

Ger			Alldses		Outlos Deservator (	
		Group Name	Scan Rate	Phase	Custom Parameter 1	Custom Parameter 2
	1	Group001	10	10	URI=http://opcfoundation.org/ReferenceApplications	
	2	Secgroup	0	0	SP=0+MSM=0	
	3					

1. Navigate to the "Groups" tab and add a new group for the tags you will be adding

2. Paste the Array 2 element into the Custom Parameter 1 field in the format of: *URI=http://blahblahblah/moreblah* 

neral	Groups 1/O Point Alla	ases			
Sho	Group All Group	os V			
	Name	Address	Group	Data Type	
1	BOB:S	Tag12	Group001	INT32	
2	OPCTAG15:S	Tag15	Group001	UINT32	
3	TAG01:S	Tag11	Group001	INT16	
4	TAG13:S	Tag13	Group001	Float	
5	TAG17:S	Tag17	Group001	Float	
6	TAG20:S	Tag20	Group001	Boolean	
7	TAG8:S	Tag18	Group001	STRING	
8					

Under the "I/O Point Aliases" tab, add the tags you need and assign them to the group created in the previous step.

Note: All Names will end with ":S" (string) for some reason.

<sup></sup> OPC_TAGS *	[HPS001.F	DCOPC.OPC	_TEST]		G ? 🖥
Blocks Strategy Ex	ecution Order	IO User A	ttributes	ppearance Object	
Name	Type	DerivedFrom		에 TAG01 [ TAG01 ] *	₽ >
₩ IIN_002	IIN	\$IIN		General Inputs Mode Alarms History Security User Attributes	
₩ IIN_003	IIN	\$IIN	<b>1</b>		
M TAG01	IIN	\$IIN	24		
M TAG12	IIN	\$IIN	108	FBM Specifications	
M TAG13	RIN	\$RIN	<b>S</b>		
M TAG17	RIN	\$RIN			
마에 TAG20	BIN	\$BIN		ECB Identifier	
				Point Number	
				Update Period	
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- 1. Open a strategy and add tags
- 2. Configure a tag to use one of the OPC UA tags by clicking the "..." next to the ECB Identifier field

FDCOPC[FDC280]	FDC Devices		
OPCUA7[FDC24	0 OPC UA Client Driver - ver 2.0] IC_Device]		
Internet OPCTET	Turner FDC	Davias	
DCOPC_ECB.OPCTST[ECB20	1] - Blocks: BIN PAKIN, RIN PAKOUT	, RIN, BINR, BOUT, IIN, IINR, R, ROUT, STRIN, STROUT, PA	, IOUT, KINR,
	PAROOT		
FDC IO Connections	PANOUT		
FDC IO Connections	IO Connections	Show All Connections	
FDC IO Connections	IO Connections	Show All Connections	
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FDC IO Connections	IO Connections T.OPC_TAGS.TAG12[TAG12].PNT_N T.OPC_TAGS.IIN_002[IIN_002].PNT T.OPC_TAGS.IIN_003[IIN_003].PNT	Show All Connections	
Point       Connections         *t* BOB:S       OPC_TES         *t* OPCTAG1       OPC_TES         *t* OPCTAG1       OPC_TES         *t* TAG13:S       OPC_TES	IO Connections T.OPC_TAGS.TAG12[TAG12].PNT_N T.OPC_TAGS.IIN_002[IIN_002].PNT T.OPC_TAGS.IIN_003[IIN_003].PNT T.OPC_TAGS.TAG13[TAG13].PNT_N	Show All Connections	
FDC IO Connections Point Connection "t" BOB:S OPC_TES "t" OPCTAG1 OPC_TES "t" TAG13:S OPC_TES "t" TAG17:S OPC_TES	IO Connections T.OPC_TAGS.TAG12[TAG12].PNT_N T.OPC_TAGS.IIN_002[IIN_002].PNT T.OPC_TAGS.IIN_003[IIN_003].PNT T.OPC_TAGS.TAG13[TAG13].PNT_N T.OPC_TAGS.TAG17[TAG17].PNT_N	Show All Connections	
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Navigate your FDC
 Devices and select your
 device

2. Find your FDC IO and double-click it from the list of tags that you configured

BOB:S       Tag12       Group001       INT32         OPCTAG15:S       Tag15       Group001       UINT32         AG01:S       Tag11       Group001       INT16         'AG8:S       Tag18       Group001       STRING         'AG13:S       Tag13       Group001       Float         'AG17:S       Tag17       Group001       Float         'AG20:S       Tag20       Group001       Boolean         Show	Onic	Address	Group	Data Type
OPCTAG15:S       Tag15       Group001       UINT32         TAG01:S       Tag11       Group001       INT16         TAG8:S       Tag18       Group001       STRING         TAG13:S       Tag13       Group001       Float         TAG17:S       Tag17       Group001       Float         TAG20:S       Tag20       Group001       Boolean	BOB:S	Tag12	Group001	INT32
TAG01:S       Tag11       Group001       INT16         TAG8:S       Tag18       Group001       STRING         TAG13:S       Tag13       Group001       Float         TAG17:S       Tag17       Group001       Float         TAG20:S       Tag20       Group001       Boolean         Show       Group       All Groups       Points with matching Data Type	OPCTAG15:S	Tag15	Group001	UINT32
TAG8:S       Image Name       Image Name       Group001       STRING         TAG13:S       Tag13       Group001       Float         TAG17:S       Tag17       Group001       Float         TAG20:S       Tag20       Group001       Boolean         Show       Group       All Groups       Points with matching Data Type	TAG01:S	Tag11	Group001	INT16
TAG13:S       Tag13       Group001       Float         TAG17:S       Tag17       Group001       Float         TAG20:S       Tag20       Group001       Boolean         Show       Group       All Groups       V	TAG8:S 났	Tag18	Group001	STRING
TAG17:S       Tag17       Group001       Float         TAG20:S       Tag20       Group001       Boolean         Show	TAG13:S	Tag13	Group001	Float
TAG20:S     Tag20     Group001     Boolean       Show     Group     All Groups     ✓     Points with matching Data Type	TAG17:S	Tag17	Group001	Float
Show Group All Groups V Points with matching Data Type	TAG20:S	Tag20	Group001	Boolean
	Group All	Groups	✓ Points with m	atching Data Type

## 1. From the 2<sup>nd</sup> window that appears, select the tag

# 2. Press OK to fill in the Fields for your block

Name	Type	DerivedFrom	i.	14 TAG01 [ TAG01 ] *				R
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04 IIN_003	IIN	\$11N						
ON TAGUI	IIIN	\$11N	る	FDM Constituents				
ONTAG12	DIN	\$11N		FBMSpecifications				
04 TAG15	DIN	\$RIN ¢DIN						
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AGE TAG20	DIN	20114	-	ECB Identifier	FDCOPC_ECB:OPCTST	_		
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#### **Ta-Da!** Your ECB and Point are finally filled in.

Could it be any simpler? Yes! Most definitely, yes, it could be.