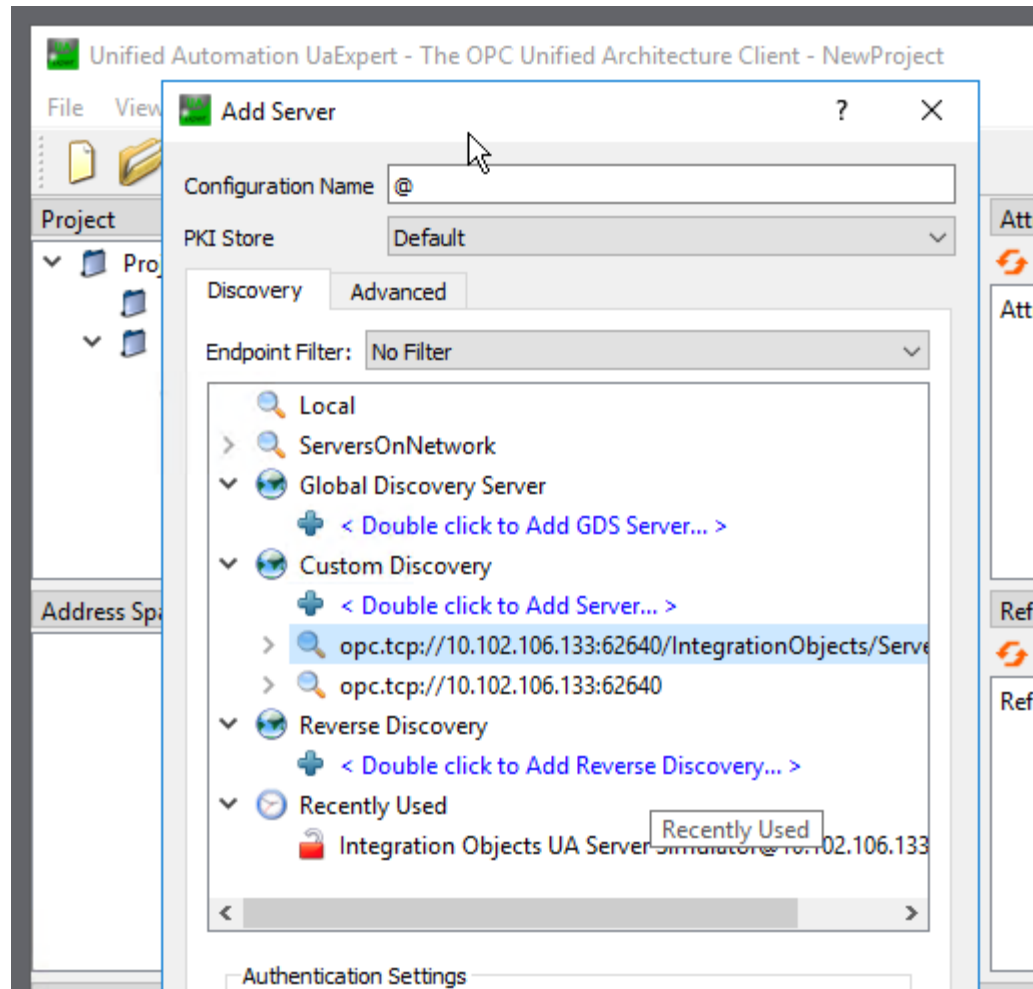


# OPC-UA Quick Reference

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*EOSYS*

# OPC-UA Quick Reference



1. Open UA Expert  
*(not a Foxboro Utility)*
2. Add an OPC Server
3. Double-click it to start exploring

# OPC-UA Quick Reference

The screenshot displays the Unified Automation UaExpert application window. The 'Project' tree on the left shows a server named 'Integration Objects UA Server Simulator@10...'. The 'Address Space' tree shows the 'NamespaceArray' property selected. The 'Data Access View' panel shows a table with columns for '#', 'Server', and 'Node Id'. The 'Attributes' panel shows the following data:

Attribute	Value
SourceTimestamp	2/19/2025 12:32:43.242 AM
SourcePicoSeconds	0
ServerTimestamp	2/19/2025 12:42:03.432 AM
ServerPicoSeconds	0
StatusCode	Good (0x00000000)
Value	String Array[4]
[0]	http://opcfoundation.org/UA/
[1]	urn:vmhostsvr:UA:OPCUAServerSimulator
[2]	http://opcfoundation.org/ReferenceApplications
[3]	http://opcfoundation.org/UA/Diagnostics
Data Type	String

The 'References' panel shows a table with columns for 'Reference' and 'Target DisplayName':

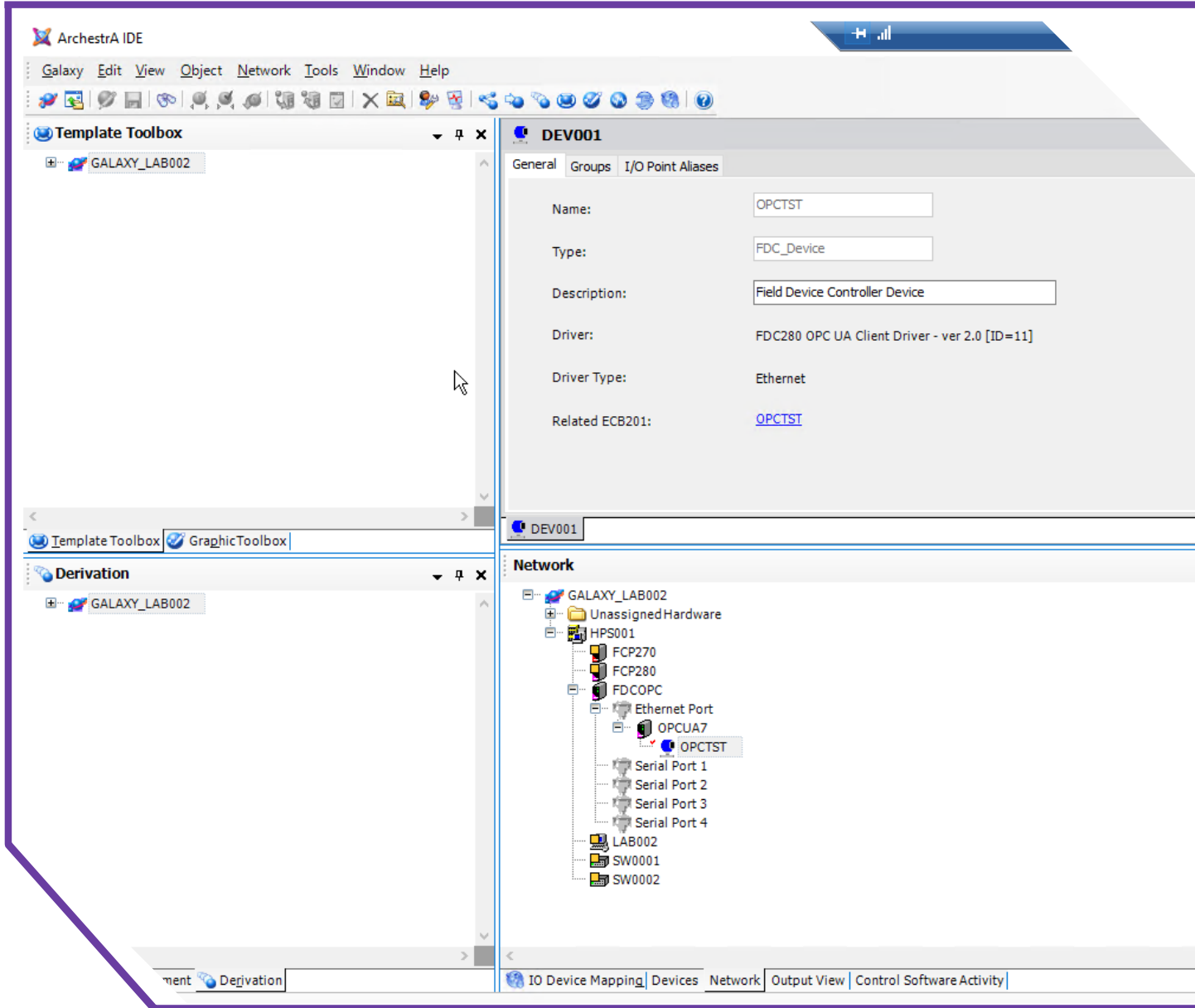
Reference	Target DisplayName
HasTypeDefiniti...	PropertyType

The 'Log' panel at the bottom shows the following messages:

Time	Source	Server	Message
12:37...	AddressSpaceM...	Integration Obj...	Unregister for ModelChangeEvents returned Good
12:37...	Server Node	Integration Obj...	Connection status of server 'Integration Objects UA Server Simulator@10.102.106.133' changed to 'Disconnected'.
12:37...	Server Node	Integration Obj...	Disconnect succeeded.

1. Select Server
2. Navigate to Namespace Array
3. Find Attribute Array Value 2 and copy it

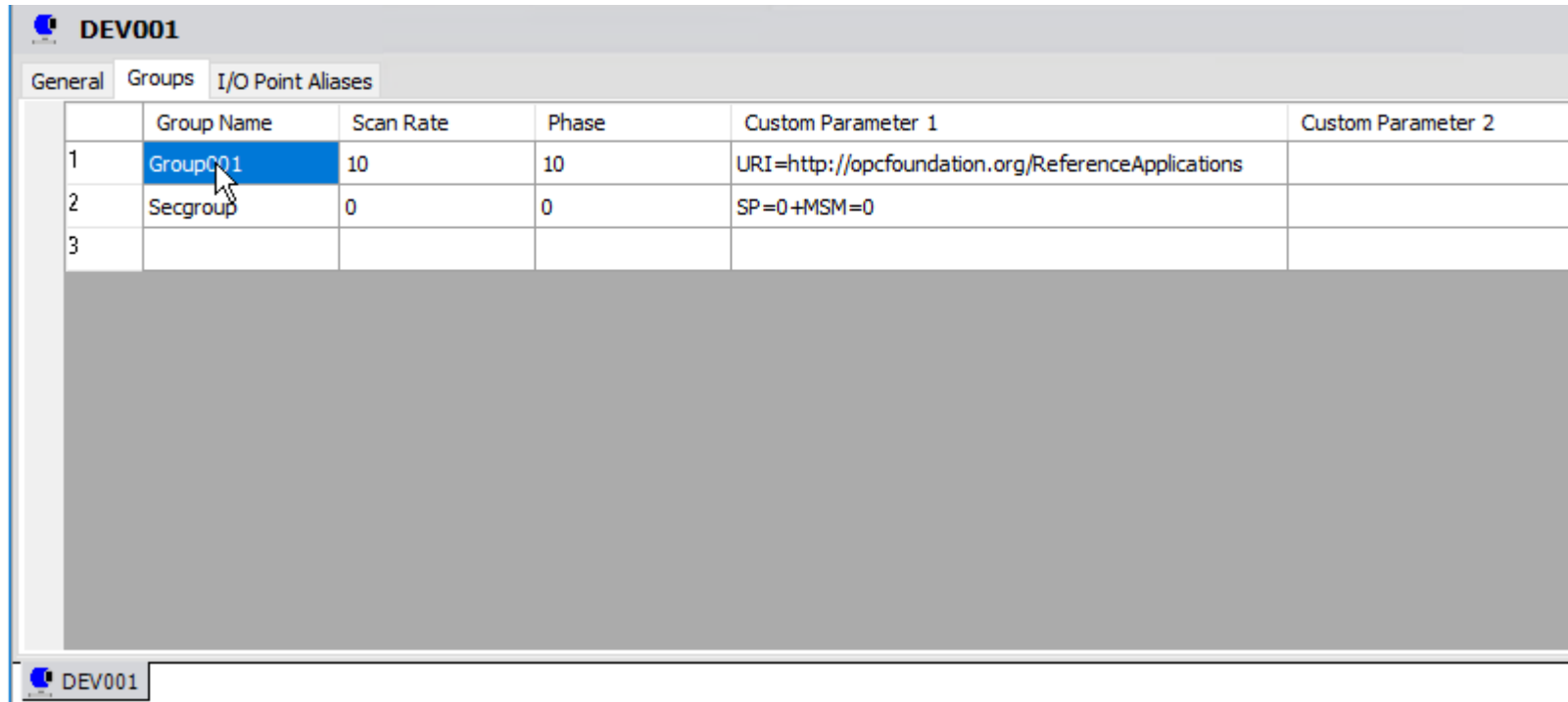
# OPC-UA Quick Reference



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.

# OPC-UA Quick Reference

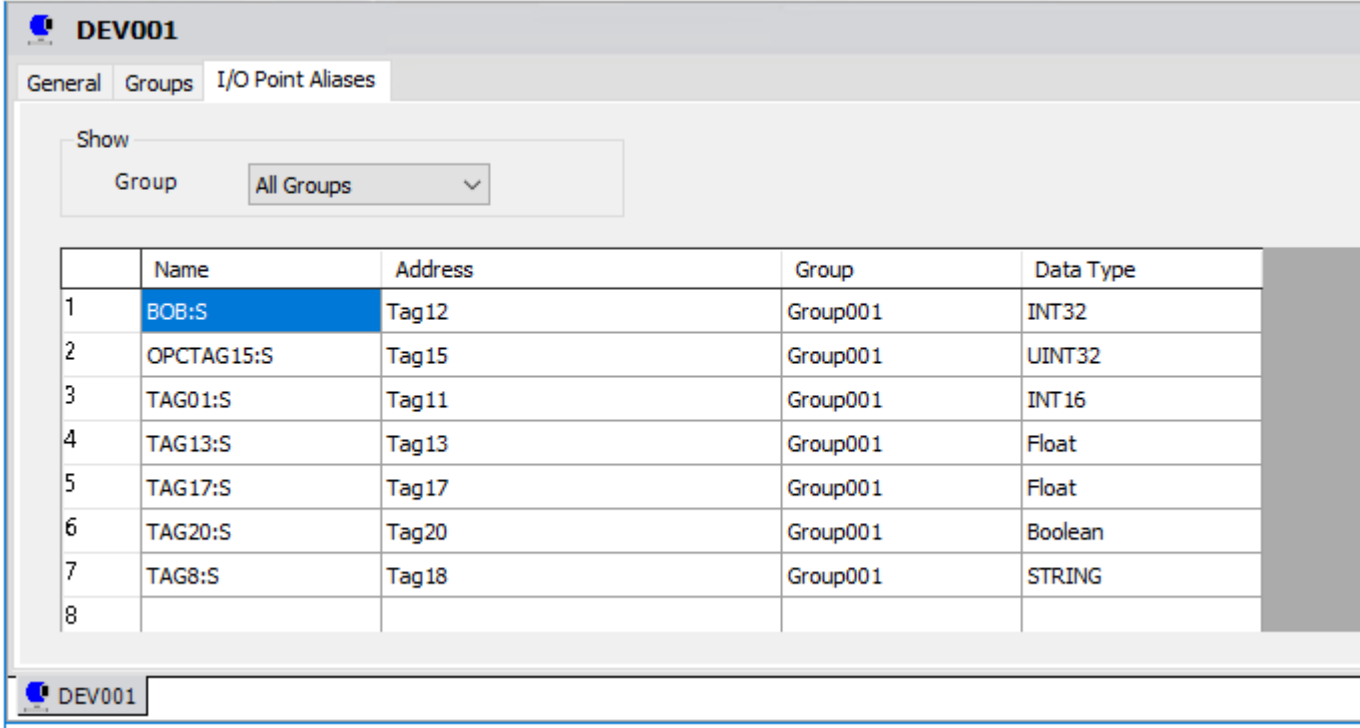


The screenshot shows the 'Groups' tab in the configuration interface for 'DEV001'. The table below represents the data shown in the interface:

	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*

# OPC-UA Quick Reference



DEV001

General Groups I/O Point Aliases

Show

Group All Groups

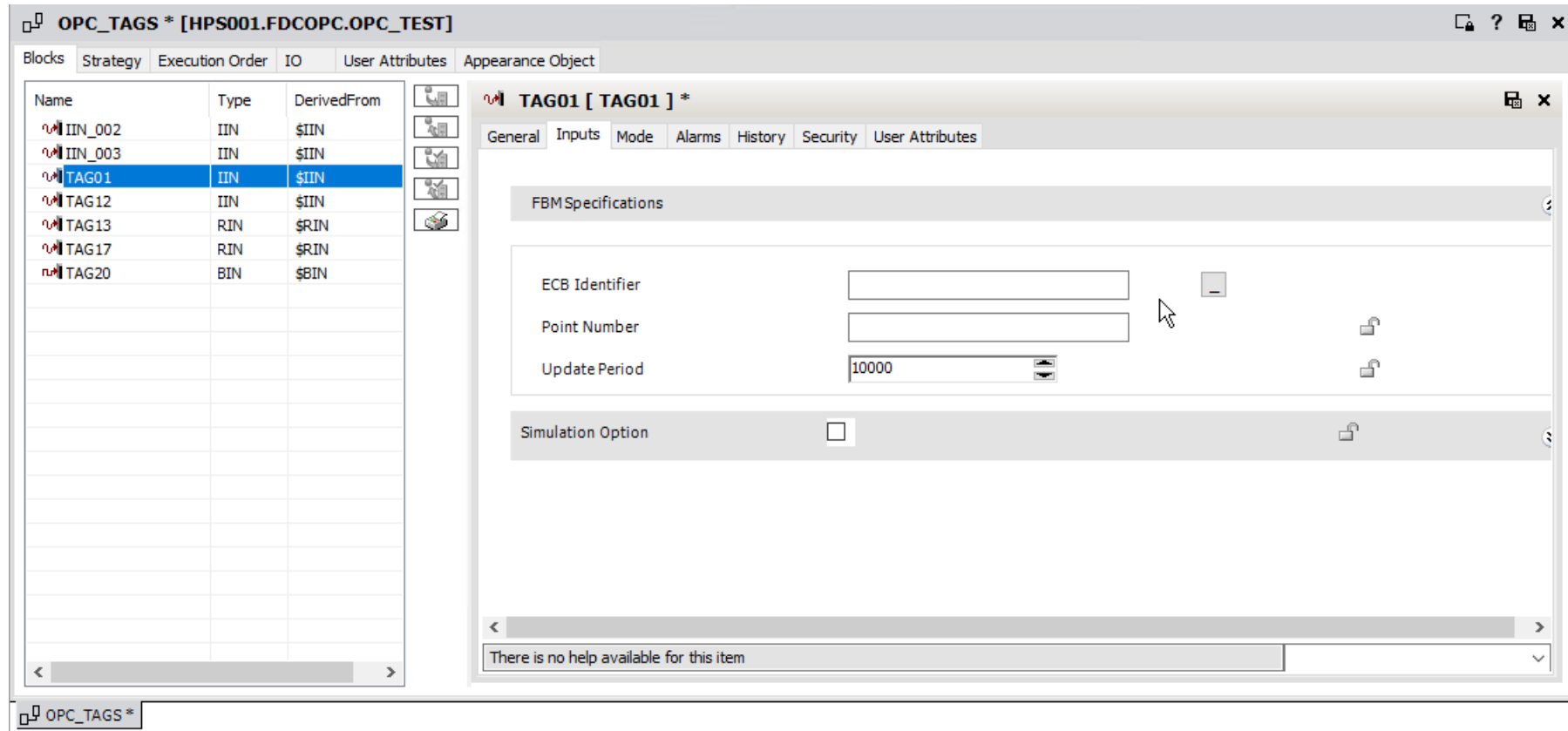
	Name	Address	Group	Data Type
1	BOB:S	Tag12	Group001	INT32
2	OPCTAG15:S	Tag15	Group001	UINT32
3	TAG01:S	Tag11	Group001	INT16
4	TAG13:S	Tag13	Group001	Float
5	TAG17:S	Tag17	Group001	Float
6	TAG20:S	Tag20	Group001	Boolean
7	TAG8:S	Tag18	Group001	STRING
8				

DEV001

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

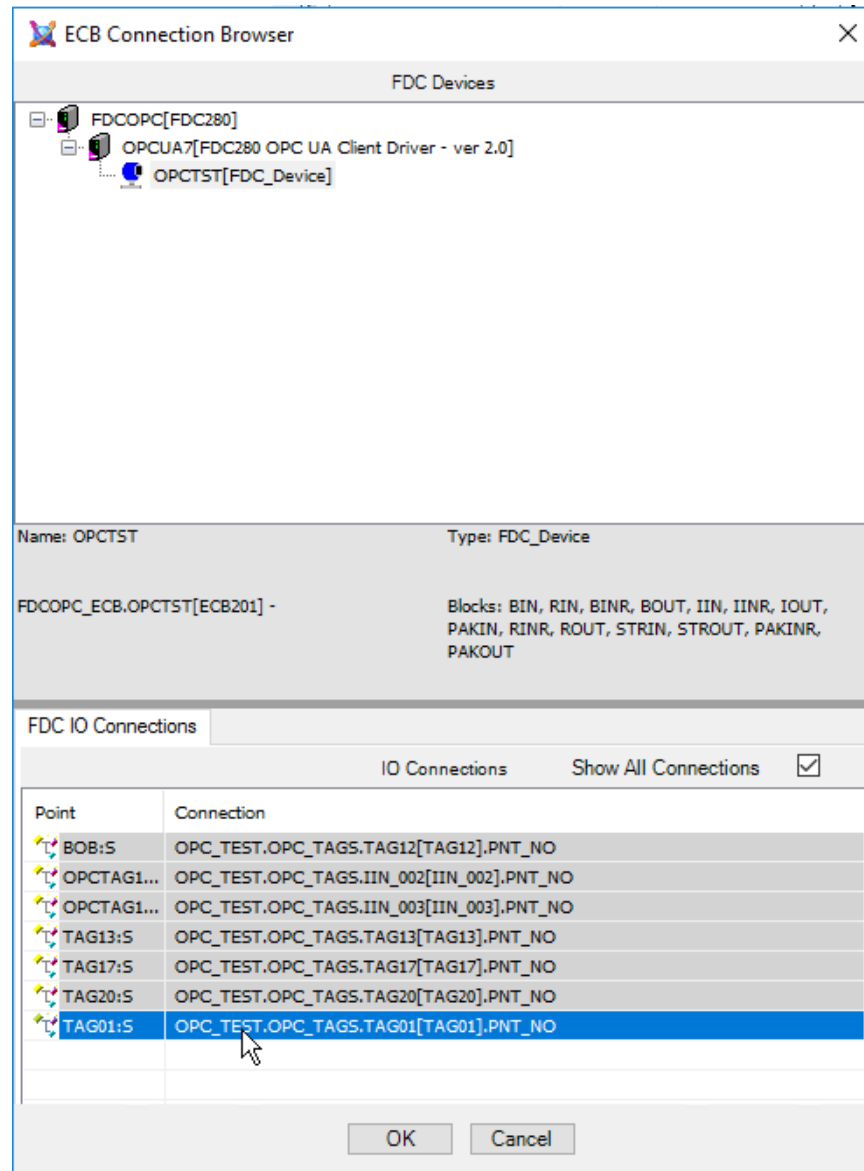
**Note: All Names will end with “:S” (string) for some reason.**

# OPC-UA Quick Reference



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

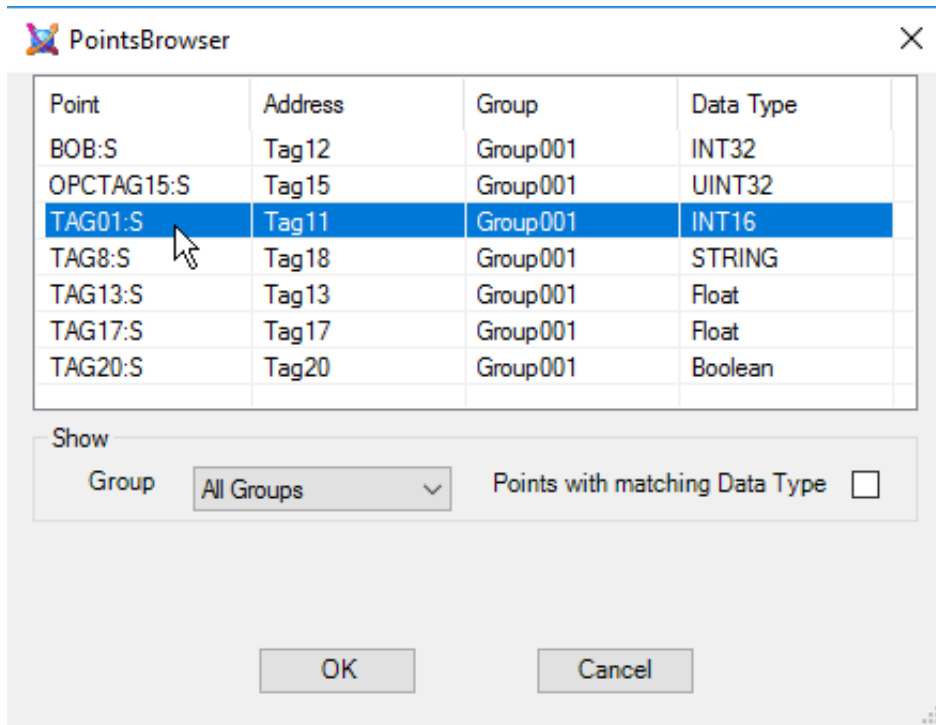
# OPC-UA Quick Reference



1. 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



# OPC-UA Quick Reference



1. From the 2<sup>nd</sup> window that appears, select the tag
2. Press OK to fill in the Fields for your block

# OPC-UA Quick Reference

The screenshot displays the OPC\_TAGS configuration window for HPS001.FDCOPC.OPC\_TEST. On the left, a table lists various tags with their names, types, and derived values. The main area shows the configuration for TAG01, with fields for ECB Identifier, Point Number, Update Period, and Simulation Option.

Name	Type	DerivedFrom
IIN_002	IIN	\$IIN
IIN_003	IIN	\$IIN
TAG01	IIN	\$IIN
TAG12	IIN	\$IIN
TAG13	RIN	\$RIN
TAG17	RIN	\$RIN
TAG20	BIN	\$BIN

**TAG01 [ TAG01 ] \***

General Inputs Mode Alarms History Security User Attributes

FBMSpecifications

ECB Identifier: FDCOPC\_ECB:OPCTST

Point Number: TAG01:S

Update Period: 10000

Simulation Option:

There is no help available for this item

**Ta-Da!** Your ECB and Point are finally filled in.

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