OPC RW presentation.

Intro to RSLinx Classic and FactoryTalk Gateway OPC.pptx Intro to RSLinx Classic and FactoryTalk Gateway OPC webinar.mp4

Demo 1:

Open RELinx, using an IP interface to a processor.

Two ways to create an OPC topic.

1) Drill down to the processor, right click, select Configure New DDE/OPC Topic.



Brings up the topic configuration window.



It will automatically put in a topic name but you can change.

NRSLinx Classic Gateway - RSWho - 1 File Edit View Communications Station DDE/OPC Security Window Help
Autobrowse Pohoth Mot Browsing Mot Brows
For Help, press F1 New Clone Delete Apply: Done Help

The second way to do this is to use the DDE/OPC menu item "Topic Configuration". Data source shows you where you will be pointing to.

Advanced Communications tab, fill in automatically, do not need to change. Comes into play when using older equipment.

Changing information on this tab ma to the correct object on the Data So	ty cause the information to no longer be connecte unce tab
Communications Driver.	A8_ETH-1 A-8 Ethemet RUNNING
Processor Configuration	
Station (decimal): 0	
- Local or Remote Addressing	
C Local	
Remote Configure	A8_ETH-1\0(192.168.2.80).1.0

Click DONE. At this point we have created our topic. Now ready to test the client topic.

Run the OPC test client off the tools menu.



We use the test client to connect to the RSLinx classic gateway. Select menu item Server Connect.



The list is all the servers installed on the computer. In this case we select RSLinx OPC Server. Click OK, it will connect. Now select menu item Group and Add New Group. Any name is fine, click OK to have it filled in automatically. May adjust update rate, the client will request at this speed. OK.

ItemID	Sub Value	Sub Quality	Sub Updates	Update R
Add New Gr	oup			
G	roup Name: Web	biner Group 1	Can	xel
Update R	ate (mSec): 200 Time Bias: 0		✓ Active ✓ Update Rate	

Now select menu item ITEM and then Add Item. Expand the RSLinx OPC menu items. In this example we will use ONLINE. Expand the ONLINE item.

nems in ne Auneu	Allebrates	
	AND MED	OK
	Access Path:	Count
	ham Nama	Cancel
	heritikane.	
	Active: V	Additem
	Datatype: VT_EMPTY	Validato
	Array:	7010008
	Access Bights	liem Propertie
		[http://www.com
Datatype: Native	Acces	K All nems 💽
E RSLinx OPC Server (Node: <local< td=""><td>I>) RSLinx OPC Server (Node)</td><td>: <local>/\Webinar RS</local></td></local<>	I>) RSLinx OPC Server (Node)	: <local>/\Webinar RS</local>
T. Webinar		
TEL ANGLOWING	Bool Tag	
Webinar RSLC	Bool_Tag DINT Tag	
Webinar_RSLC	DINT_Tag	
Webinar_RSLC Offline Offline	Bool_Tag DINT_Tag INT_Tag REAL Tag	
Webinar_RSLC Offline Colline R. DINI Array	Bool_Tag DINT_Tag INT_Tag E REAL_Tag SINT Tap	
Webinar_RSLC Offline Offline DINT_Array HINT_Array	Bool_Tag CINT_Tag INT_Tag REAL_Tag SINT_Tag	
Webinar_RSLC Offline DINT_Array INT_Array Local:2C	Bool_Tag CINT_Tag INT_Tag REAL_Tag SINT_Tag	
Webinar_RSLC Offline DINT_Array INT_Array Local:2C	Bool_Tag CINT_Tag INT_Tag REAL_Tag SINT_Tag	
Webinar_RSLC Offline DINT_Array INT_Array Local:20	Bool_Tag CINT_Tag INT_Tag REAL_Tag SINT_Tag	
Webinar_RSLC Offline DINT_Array INT_Array Local:2:C Local:2:O Local:2:C	Bool_Tag CINT_Tag INT_Tag REALTag SINT_Tag	
Webinar_RSLC Offline OlNT_Array INT_Array Local:2:C Local:2:	Bool_Tag CINT_Tag INT_Tag REAL_Tag SINT_Tag	

Click Add Item several times. Add some items for test purposes and click OK.

한 RSI - OPC Test Olient - (~RSLinx OPC Server) 한 File Server Group Item Log View W D 과 묘 표 표	indow Help						X
Webinar Group 1 (Actual Rate: 2000)	ItemID	Sub Value	Sub Quality	Sub Updates	Update Rate	Run, Avg	
2 m	[Webinar_RSLC]Bool_Tag	(Invalid Da.,	Uncertain	0	0	0.0000000	- 44
	[Webinar_RSLC]DINT_Tag	(Invalid Da	Uncertain	0	0	0.0000000	
	[Webinar_RSLC]INT_Tag	(Invalid Da.,	Uncertain	0	0	0.000000	
	(Webinar_RSLC)Timer.ACC	(Invalid Da	Uncertain	0	0	0.0000000	

We are looking for data being transferred and the quality being GOOD.

RSI - OPC Test Client - [~RSLinx OPC Server]								×
🛒 File Server Group Item Log View V	Mindow Help						2	ax
Webinar Group 1 (Actual Rate: 2000)	ItemID	Sub Value	Sub Quality	Sub Updates	Update Rate	Run, Avg		
	[Webinar_RSLC]Bool_Tag	0	Good	1	0	0.080431		
	(Webinar_RSLC]DINT_Tag	0	Good	1	0	0.080431		
	[Webinar_RSLC]INT_Tag	0	Good	1	0	0.080431		
	[Webinar_RSLC]Timer ACC	713	Good	6	0	0.482587		

This verifies the topic and server are running.

We can also write data.





Now open the controller program, you can confirm the value you wrote is displayed.

日本日 日 二 日日 日 日	- #4.9	EL RE	1 0, 0,				
Rem Run 📑 🖷 Pun Mode	Lau Peth	168 2.80 Backpla	sa\()* ▼ 🛔	Select land			
No Forces	Y		- Contraction of the second se				
No Edits	< H htt	Hel +1 +1 -3	() () ()				
Redundancy 5-2	I + + \Favo	rites A Add On J	Alama A Dr	A Taman/Cas			
S Controller Organizer - # ×	Scope SWebiner	· Show	All Tags				• 7.
🗑 🗎 🖾 Controller Webinar	Name III	Value •	Force Mosk .	Style	Data Type	Description	Constant
Controller Tags	Bool_Tag	0	10	Decimal	BOOL		E
Controller Fault Handler	+ DINT_Array	[]	()	Decimal	DINTILI		10
Fower-Up Handler	+ DINT_Teg	0		Decimal	DINT	-	B
E S 1896	+ NT_Amay	ليعيرا	()	Decimal	INTING		13
	+ NT_Teg	50		Decimal	RIT	-	11
Parameters and Local Taxs	+ Local2/C	1000	()		A81756_OF8.		E
-D MainBoutine	+ Local 21	[]	()	-	AB1756_OF8.		B
Discheduled Programs / Phases	+ Local2.0	11	Level		AB 1756_OF8.		13
🕀 🖼 Motion Groups	+ Local 3 C	[]	()	-	AB 1756_AK_		•
Uncrouped Axes	+ Local 31	Level	()	-	AB 1795_A6_		13
- Add-On Instructions	REAL_Top	0.0		Floot	REAL		B
🛱 🖴 Data Types	+ SINT_Anny	[]	()	Decimal	SINT[10]	-	11
■ Cat User-Defined	+ SINT_Teg	0		Decimal	SINT		
Cit Strings	+ String_Tag		()	1	STRING		E
Add-On-Defined	+ Timer	{}	()		TMER	-	E
B Redefined	+ UDT	Loo)	(***)		UDT_Tag	User Defined	
Trends Trends Logical Model 1756 Backplane, 1756-A4 [0] 1756-L75 Webinar [0] 1756-EN3TR Ethernet, Bridg	• • \Monitor Tags (Edit Tags /			14		

You can change the value on the controller side and confirm in the test app as well. You can add multiple groups in the test client and they can have different update rates. When you add a new group you must also add a new item.