

## PSO9.0 如何配置 OPC DA Client

### 问题描述:

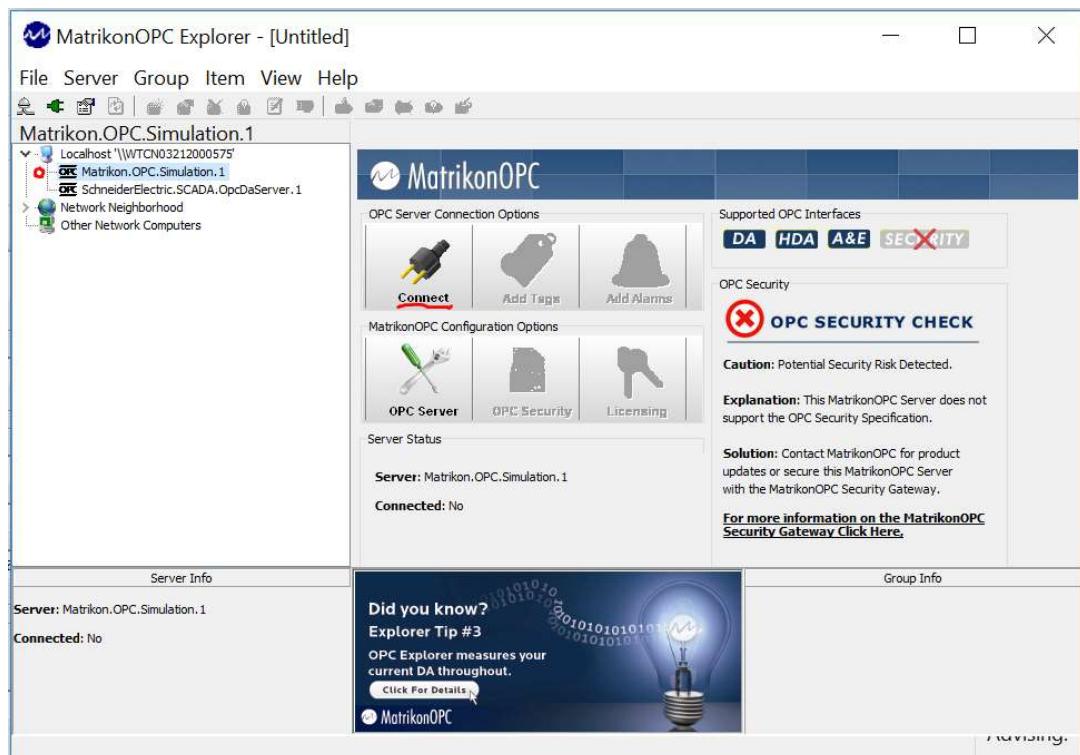
如何配置 OPC DA Client

### 解决方案:

步骤如下:

本示例用 MatrikonOPC Explorer 模拟 OPC DA Server

#### 1. 配置 OPC DA Server



MatrikonOPC Explorer - [Untitled\*]

File Server Group Item View Help

Group0

Contents of 'Group0'

Item ID	Access Path	Value	Quality	Timestamp	Status
Tag:Random.ArrayOfReal8		9743.52029688,3154...	Good, non-specific	04/04/2020 10:24:05.859 AM	Active
Tag:Random.ArrayOfString		never, 'before,'	Good, non-specific	04/04/2020 10:24:05.859 AM	Active
Tag:Random.Boolean		False	Good, non-specific	04/04/2020 10:24:05.859 AM	Active
Tag:Random.Boolean		False	Good, non-specific	04/04/2020 10:24:05.859 AM	Active
Tag:Random.Int1		54	Good, non-specific	04/04/2020 10:24:05.859 AM	Active
Tag:Random.Int2		9866	Good, non-specific	04/04/2020 10:24:05.859 AM	Active
Tag:Random.Int2		9866	Good, non-specific	04/04/2020 10:24:05.859 AM	Active
Tag:Random.Int4		23995	Good, non-specific	04/04/2020 10:24:05.859 AM	Active
Tag:Random.Money		1669	Good, non-specific	04/04/2020 10:24:05.859 AM	Active
Tag:Random.Qualities		8693	Good, unknown, ...	04/04/2020 10:24:05.859 AM	Active
Tag:Random.Real4		11771.765625	Good, non-specific	04/04/2020 10:24:05.859 AM	Active
Tag:Random.Real4		11771.765625	Good, non-specific	04/04/2020 10:24:05.859 AM	Active
Tag:Random.Real8		3276.87505593	Good, non-specific	04/04/2020 10:24:05.859 AM	Active
Tag:Random.String		your	Good, non-specific	04/04/2020 10:24:05.859 AM	Active
Tag:Random.Time		2020/4/4 2:24:05	Good, non-specific	04/04/2020 10:24:05.329 AM	Active
Tag:Random.UInt1		201	Good, non-specific	04/04/2020 10:24:05.859 AM	Active
Tag:Random.UInt2		1139	Good, non-specific	04/04/2020 10:24:05.859 AM	Active
Tag:Random.UInt4		29537	Good, non-specific	04/04/2020 10:24:05.859 AM	Active

## 2. 进入 PSO Studio - 拓扑 - I/O 设备 - 快速向导, 选择 IOServer

PowerSCADA Studio - TEST 1 [Active Project]

Topology Computers Edit Computer Profiles **I/O Devices** Components & Mapping

Save Discard Copy Paste Delete Row(s) Export All Import All Export Tags Import Tags Refresh Tags Express Wizard

Row	Server Name	Name	Number	Address	Protocol	Port Name	Startup Mode
1	IOServer1	zOL	1		IEC61850N		Primary
2	IOServer1	NetworkTags	2		IEC61850N		Primary
3	IOServer1	PU1	126	17	PWRMODBUS	P10_177_121_225	Primary

Device Communications Wizard

Select the I/O Server you wish to work with. You may create a new I/O Server by entering the desired name, or select from your existing I/O Servers.

Create a new I/O Server  
Name:

Use an existing I/O Server  
IOServer1

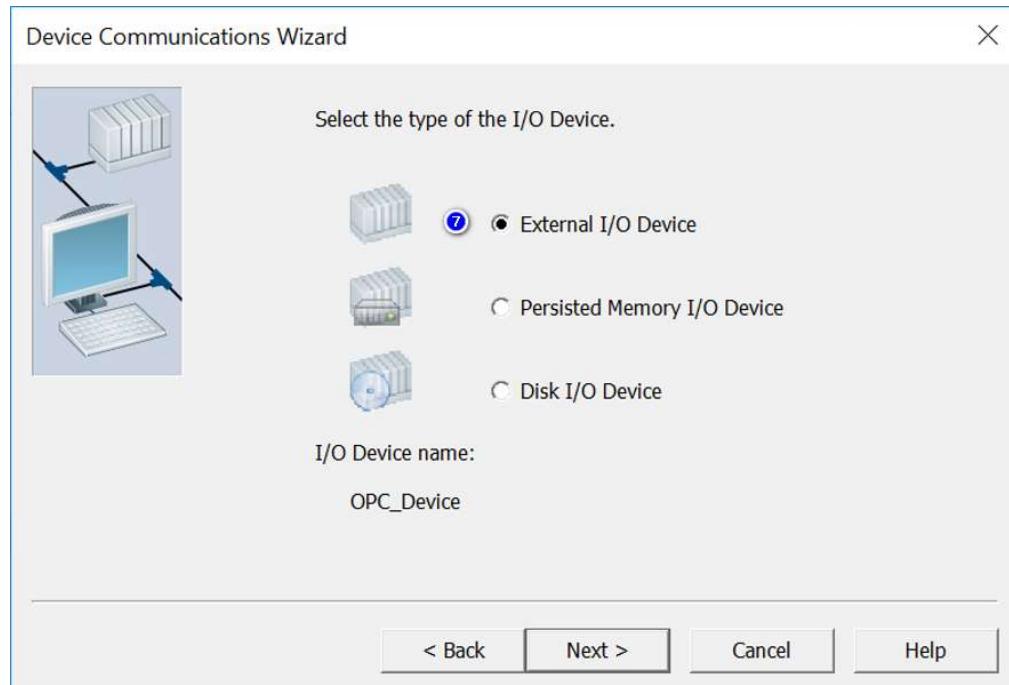
Next > **5** Cancel Help

No objects selected.

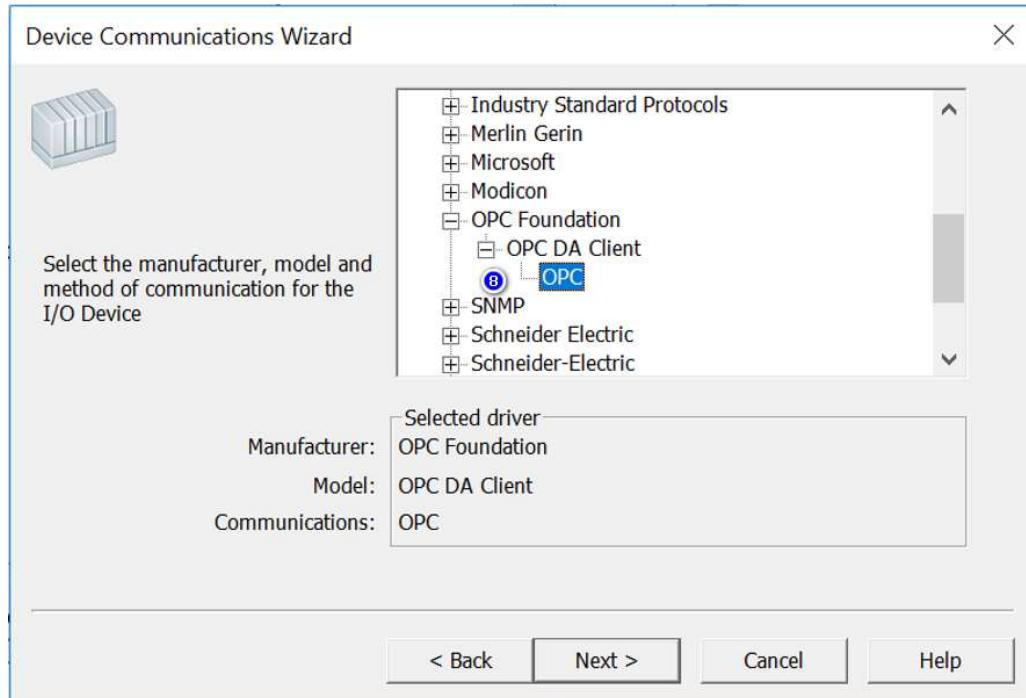
### 3. 创建 I/O Device



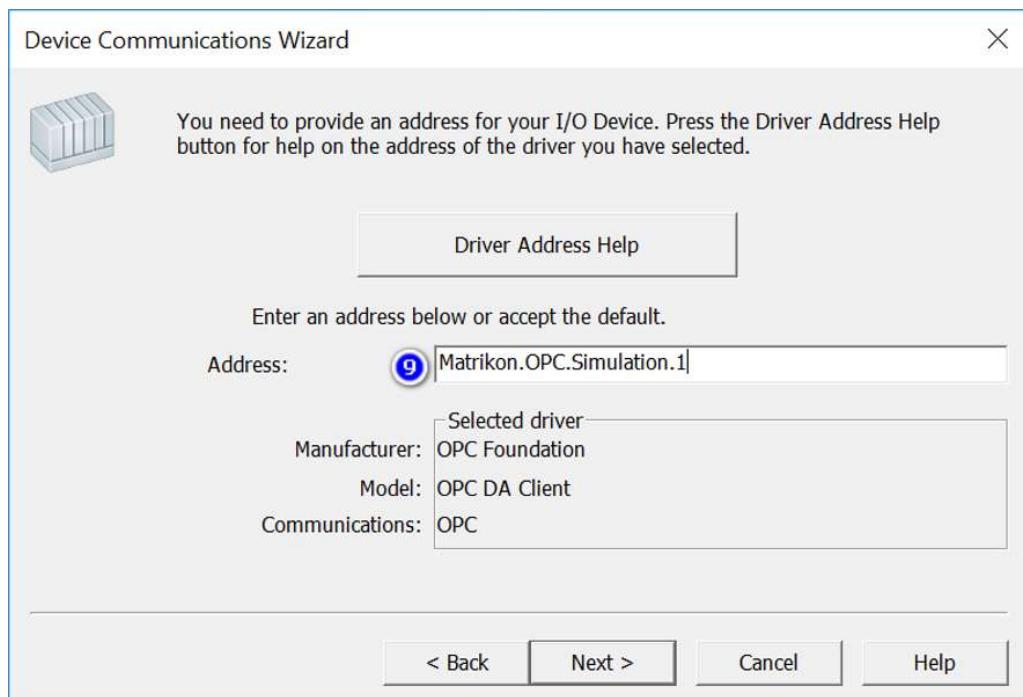
### 4. 选择 External I/O Device



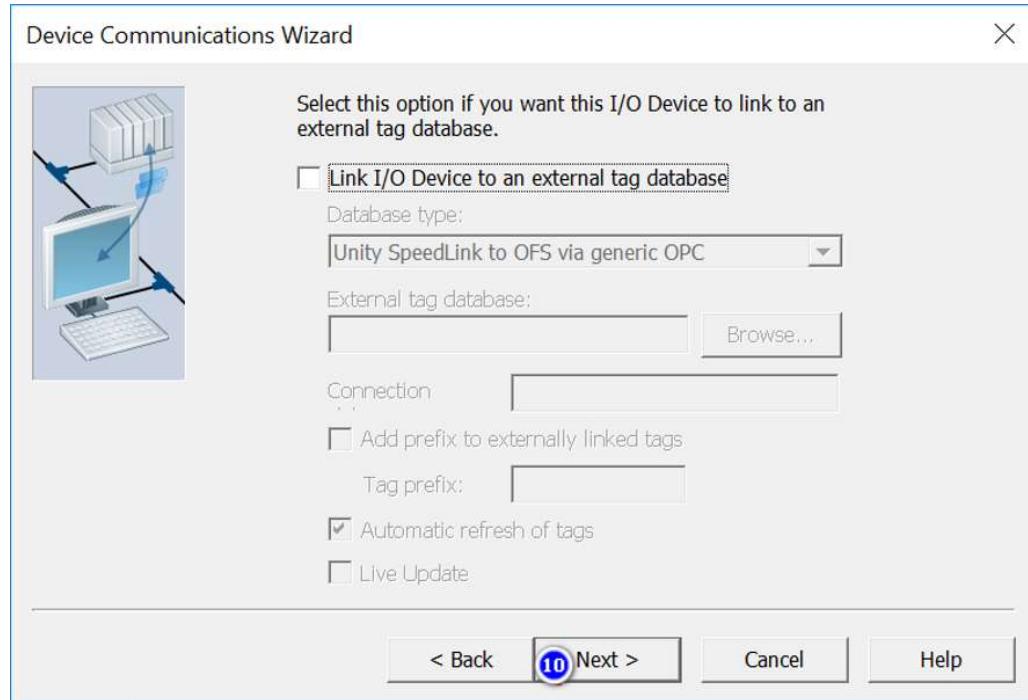
5. 通讯方式选择 OPC DA Client 下的 OPC



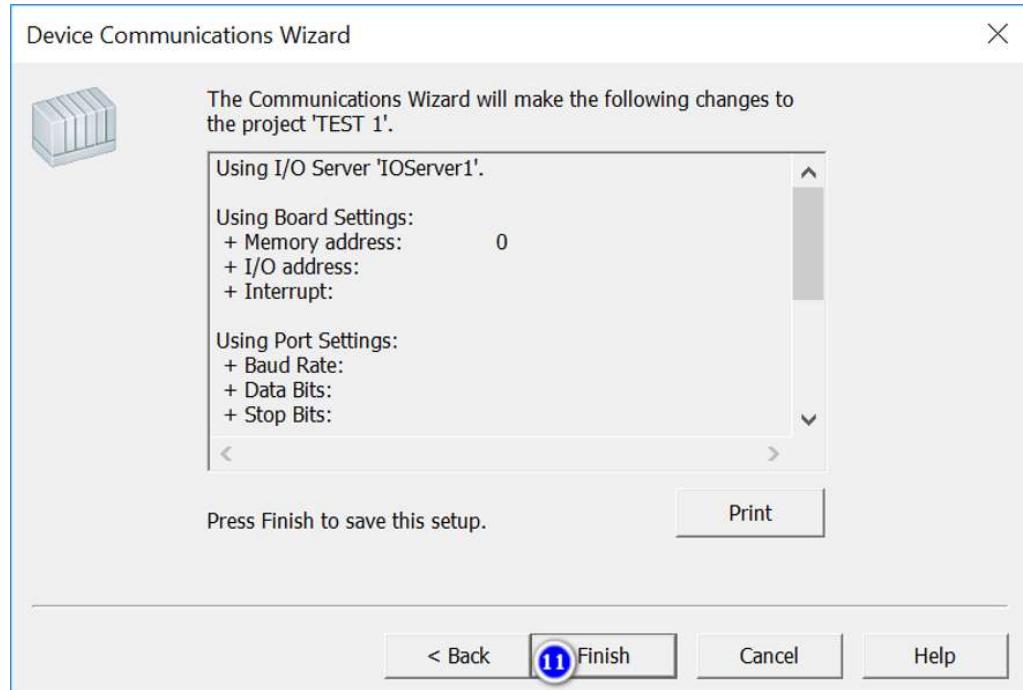
6. 输入 OPC DA Client 的地址 (查看第 1 步中的地址填入此处)



7. 下一步



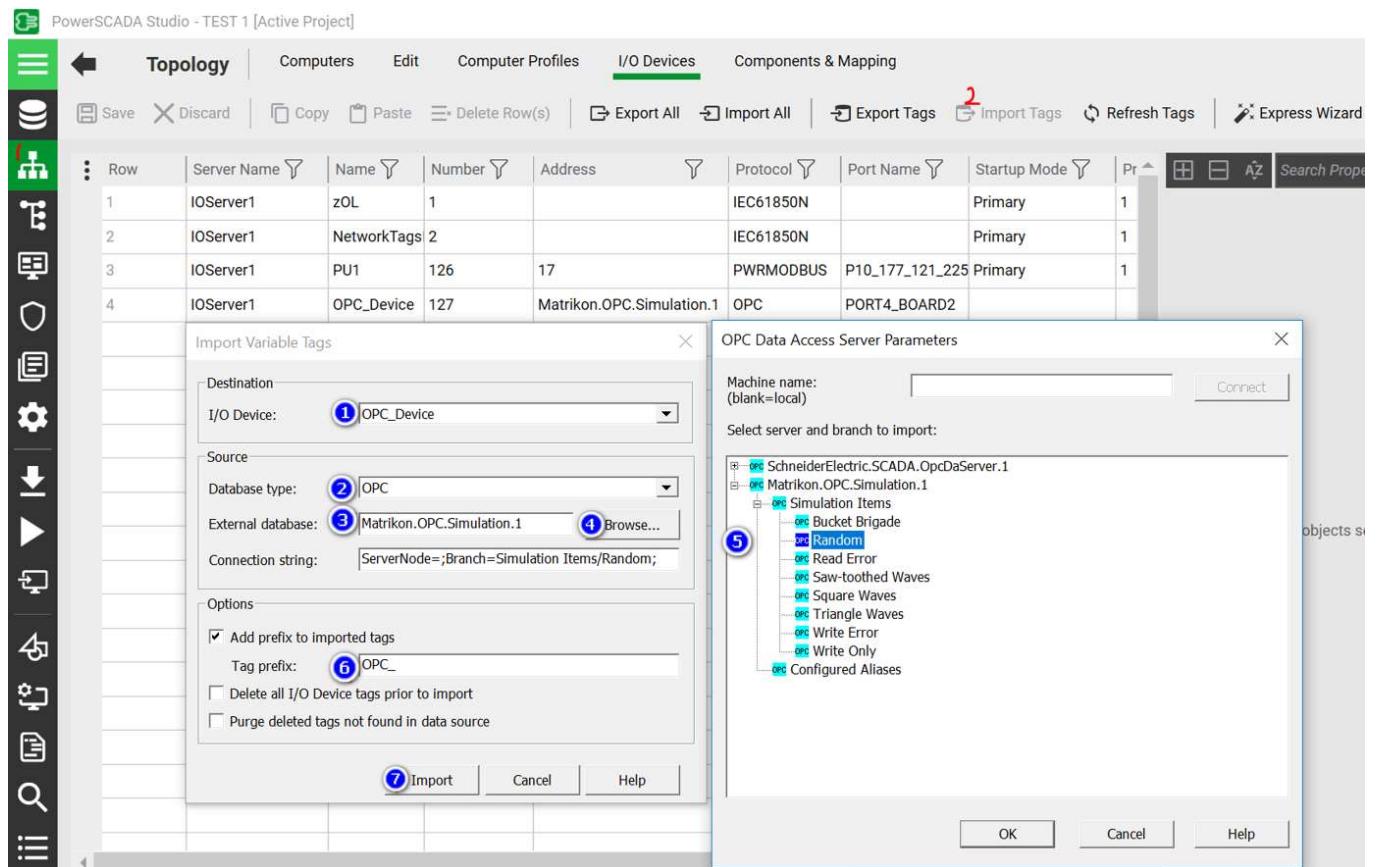
8. 完成



可查看到已经添加的 I/O Device

Row	Server Name	Name	Number	Address	Protocol	Port Name	Startup Mode
1	IOServer1	zOL	1		IEC61850N		Primary
2	IOServer1	NetworkTags	2		IEC61850N		Primary
3	IOServer1	PU1	126	17	PWRMODBUS	P10_177_121_225	Primary
4	IOServer1	OPC_Device	127	Matrikon.OPC.Simulation.1	OPC	PORT3_BOARD2	

9. 进入 PSO Studio - 拓扑 - I/O 设备 - 导入标签, 选择 I/O 设备, 数据库类型, 浏览外部数据库

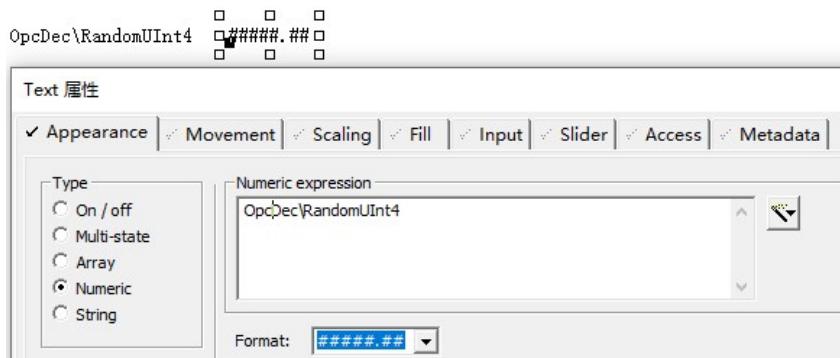


The screenshot shows the PowerSCADA Studio interface with the 'Topology' tab selected. A context menu is open over the table, with the 'Import Tags' option highlighted. The 'Import Variable Tags' dialog is open, showing the 'Destination' section with 'I/O Device' set to 'OPC\_Device'. The 'Source' section shows 'Database type' as 'OPC' and 'External database' as 'Matrikon.OPC.Simulation.1'. The 'Options' section includes checkboxes for 'Add prefix to imported tags' (checked) and 'Delete all I/O Device tags prior to import' (unchecked). The 'Import' button is highlighted with a blue circle. A second dialog, 'OPC Data Access Server Parameters', is also open, showing a tree view of 'Simulation Items' under 'Matrikon.OPC.Simulation.1'. The 'OK' button is highlighted with a blue circle.

成功导入标签后可在变量表中确认

Variables	Row	Equipment	Item Name	Tag Name	Cluster Name	I/O Device	Data Type	Address
	3205	OpcDec		OpcDec\RandomInt1	c1	OpcDev	STRING	Random.Int1
	3206	OpcDec		OpcDec\RandomInt2	c1	OpcDev	INT	Random.Int2
	3207	OpcDec		OpcDec\RandomInt4	c1	OpcDev	LONG	Random.Int4
	3208	OpcDec		OpcDec\RandomMoney	c1	OpcDev	STRING	Random.Money
	3209	OpcDec		OpcDec\RandomQualities	c1	OpcDev	UINT	Random.Qualities
	3210	OpcDec		OpcDec\RandomReal4	c1	OpcDev	REAL	Random.Real4
	3211	OpcDec		OpcDec\RandomReal8	c1	OpcDev	STRING	Random.Real8
	3212	OpcDec		OpcDec\RandomString	c1	OpcDev	STRING	Random.String
	3213	OpcDec		OpcDec\RandomTime	c1	OpcDev	STRING	Random.Time
	3214	OpcDec		OpcDec\RandomUInt1	c1	OpcDev	BYTE	Random.UInt1
	3215	OpcDec		OpcDec\RandomUInt2	c1	OpcDev	UINT	Random.UInt2
	3216	OpcDec		OpcDec\RandomUInt4	c1	OpcDev	ULONG	Random.UInt4

## 10. 在图形编辑器页面中添加显示标签并保存



## 11. 编辑、运行测试



OpcDec\RandomUInt4 27324