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## How to graphically present the data collected by UA-I/O series products via OPC UA in AVEVA Edge?

ICP DAS's UA-I/O series products provide OPC UA Server service, allowing AVEVA Edge to easily graph data.

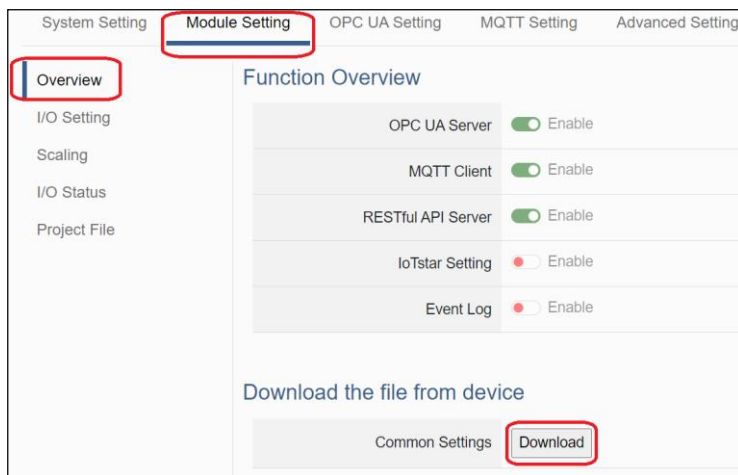
This article will explain:

How AVEVA Edge Quickly Reads OPC UA Server Data from UA-I/O Series Products.

### 1. How to get the OPC UA Server connection information of UA-I/O series products quickly?

First, go to the UA-I/O series system webpage to download the CSV file (as shown below)

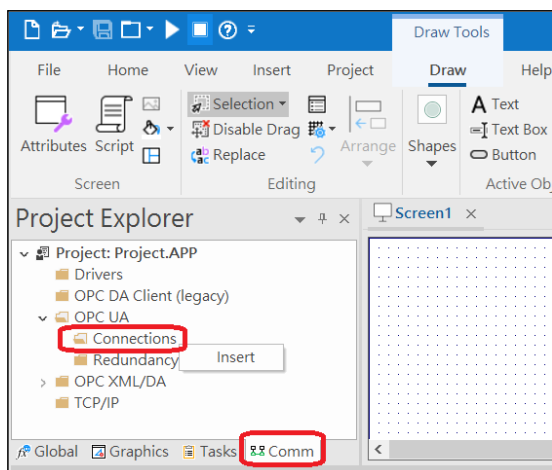
[Module Setting] → [Overview] → [Download the file from device] → [Common Settings] → [Download]



You can view the connection parameters of UA-I/O series products in the CSV file.

### 2. How to set up OPC UA Server in AVEVA Edge?

Go to the AVEVA Edge interface and select [Comm] → [Connections] below OPC UA and right-click → [Insert] (as shown below)



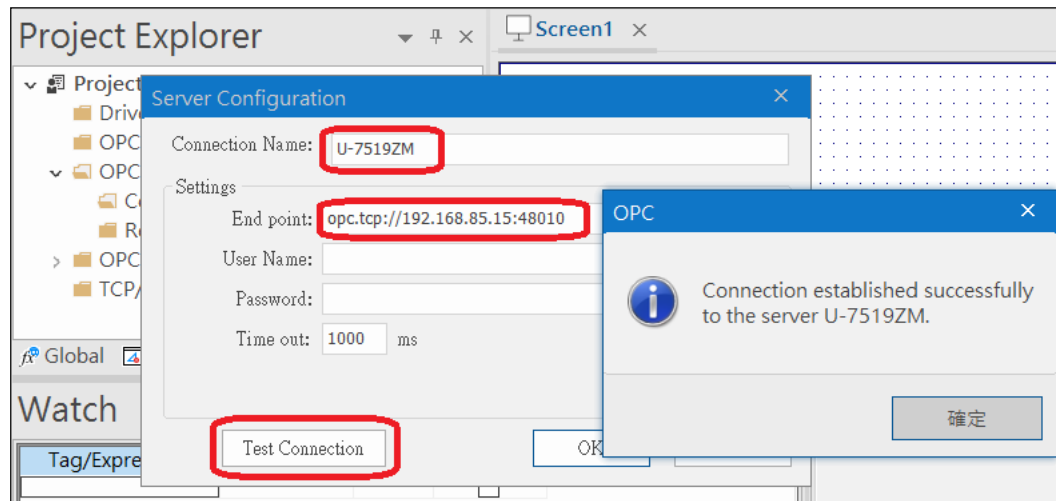
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### Setting the Server Configuration

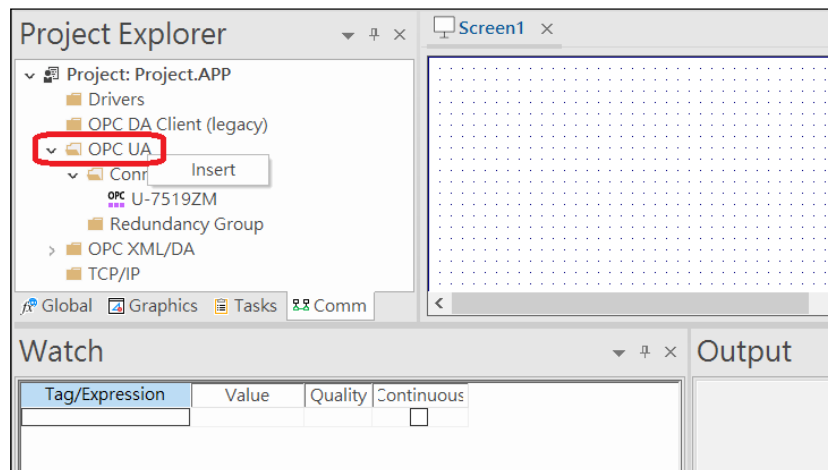
The following example is provided for reference. (as shown below)

#### Input information

1. Connection Name
2. End point (The format is `opc.tcp://[OPC UA Server IP]:[OPC UA Server port]`)
3. Press [Test Connection] to confirm the success of the connection.
4. Press [OK]



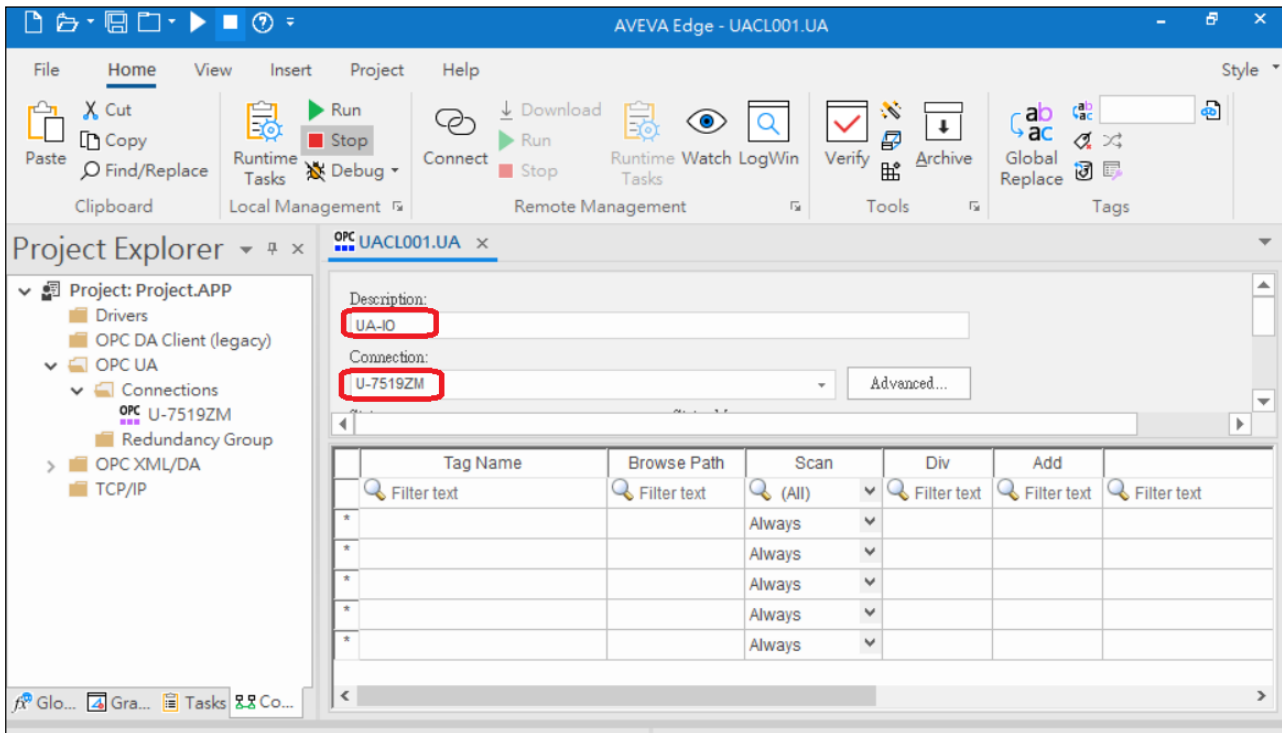
#### Right-click [Insert] on OPC UA



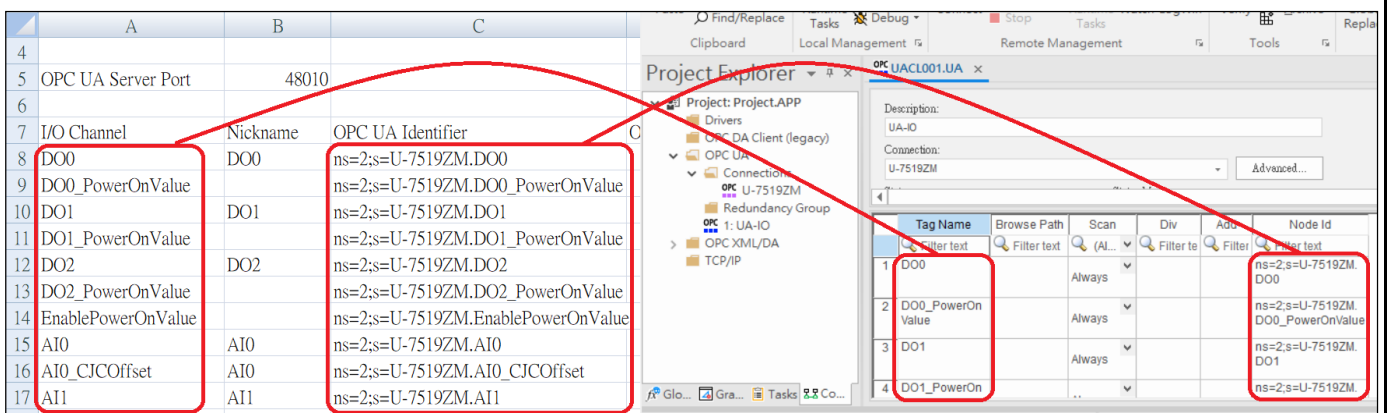
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## Input information

1. Description
2. Connection (Select the connection you need)



3. Open the CSV file you just downloaded from the UA-I/O series website. Paste the I/O Channel and OPC UA Identifier fields to the Tag Name and Node Id of the AVEVA Edge field respectively (as shown below), select the type of each new Tag, and then click Save.



After running the AVEVA Edge project, the values can be displayed.

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The screenshot displays the OPC UA Client interface. The top window is the Project Explorer, showing a tree view of the project structure. The right pane shows the configuration for the selected tag 'DO0', including its description, connection, and scan settings. Below this is a table of tag configurations. The bottom window is the Watch window, which displays a table of tag values, quality, and continuous status.

**Project Explorer Configuration Table:**

Tag Name	Browse Path	Scan	Div	Add	Node Id
1 DO0	Filter text	(Al...)	Filter te	Filter	Filter text
		Always			ns=2;s=U-7519ZM.D00

**Watch Window Table:**

Tag/Expression	Value	Quality	Continuous
DO0	0	GOOD	<input checked="" type="checkbox"/>
DO0_PowerOnValue	0	GOOD	<input checked="" type="checkbox"/>
DO1	0	GOOD	<input checked="" type="checkbox"/>
DO1_PowerOnValue	0	GOOD	<input checked="" type="checkbox"/>
DO2	0	GOOD	<input checked="" type="checkbox"/>
DO2_PowerOnValue	0	GOOD	<input checked="" type="checkbox"/>
EnablePowerOnValue	1	GOOD	<input checked="" type="checkbox"/>
AI0	3276.6999999...	GOOD	<input checked="" type="checkbox"/>
AI0_CJOffset	0	GOOD	<input checked="" type="checkbox"/>
AI1	3276.6999999...	GOOD	<input checked="" type="checkbox"/>
AI1_CJOffset	4000	GOOD	<input checked="" type="checkbox"/>