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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]

System Setting Mo	dule Setting	OPC UA Setting	MQTT Setting	Advanced Setting
Overview	Function	n Overview		
I/O Setting		OPC UA Se	erver 🜑 Enable	
Scaling		MQTT C	Client Client	
I/O Status Project File		RESTful API Se	erver 💽 Enable	
		loTstar Se	etting	
		Event	t Log 💿 Enable	
	Downloa	ad the file from	device	
		Common Set	tings 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							
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2. Connection (Ser	lect the conn	ection you ne	eed)				
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OPC U-7519ZM			N				
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3. Open the CSV fi	le vou just de	ownloaded fr	om the UA-I/	O series w	vebsite. Paste	the I/O Chan	nel and OPC
UA Identifier field	s to the Tag N	Name and No	de ld of the A	VEVA Edg	ge field respec	tively (as sho	wn below),
select the type of	each new Ta	g, and then c	lick Save.				
А	В	С	Ø Find/	Replace Tasks 🗴	🕻 Debug 👻 📕 Stop	Tasks	Repla
4 5 OPC IIA Server Port	48010		Clipboar Project Ex	d Local Mana	OPC UACL001.UA ×	Management 🕞	Tools 🕞
6	40010		Project: P	roject.APP	Description:		
7 I/O Channel	Nickname OPC UA NOO ns=2;s=U	Identifier -7519ZM.DO0		A Client (legacy) A	Connection:		- Ådvanced
9 DO0_PowerOnValue	ns=2;s=U	-7519ZM.DO0_Power(OnValue	u-7519ZM dundancy Group	4	91	
11 DO1_PowerOnValue	ns=2;s=U	-7519ZM.DO1_Power(OnValue > OPC 1: U	JA-IO ML/DA	Tag Name Browse P Sitter text Sitter text	ath Scan Div ext 🔍 (Al 🖌 🔍 Filter te 🤇	Adu Node Id Filter Chitter text
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14 EnablePowerOnValue	ns=2;s=U	-7519ZM.EnablePower	OnValue		2 DO0_PowerOn Value	Always	ns=2;s=U-7519ZM. DO0_PowerOnValue
16 AI0_CJCOffset A	AIO IIS=2,S=U AIO ns=2;S=U	-7519ZM.AI0_CJCOff	set		3 D01	Always	ns=2;s=0-75192M. DO1
17 AI1	AII ns=2;s=U	-7519ZM.AI1	∫t [®] Glo ∡ Gra.	. 🗎 Tasks 🖁 Co	1 4 DOI_POWEIOI		115-2,5-0-75 192M.
After running the	AVEVA Edge	project, the v	values can be	displayed	l.		

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