

# **APPLICATION NOTE**

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Product Family: Point of View

Number: AN-POV-015

Date Issued: 5-6-15

Subject: Setting up a scaled numeric value

Revision:

## **POV Scaling an integer**

In this application not we will be going showing the process of scaling an integer in Point of view software. *This process will not work directly on Tag integrated tags*. This will have to be done in the Main or Standard driver sheets with manually adding tags.

Given a current running project we are going to start with adding a Koyo driver. Under the communication tab of the Project browser right click on the Driver and the following will display. Just select the Add/ Remove Drivers option when it displays.

	) 🗁 -	🦷 🖬 🗸	0	2) :	7	Grap	hics Tools		
POV	Home	View	Insert	Pro	ject	G	raphics	He	lp
Attribute	s Script	Backg Bachg Bachg Bachg Backg Bachg Bachg Bachg Bachg Bachg Bachg Bachg	pround Ima pround Col	ge or •	A Se Di ab cac Re	lection sable D place	rag ∰ Pro ∰ Gri ♥ Un Editin	operties d Settin do Ig	ngs •
Project Exp	olorer				ф.	×	Scree	n1 ×	
▲	OPC U/ OPC U/ OPC N OPC XN OPC XN TCP/IP DDE	A A ML/DA	P move driver	r5	1				



Here you will see the following popup and just select Koyo or which driver you are planning to use. Here we are selecting the Koyo driver.

mmunicati	ion Drivers		×
Vailable dri	vers:		
DLL	Description	^	Help
ABTCP DOMOR	Allen Bradley Ethernet, DF1 Protocol (PLC2, PLC5 and SLC500) Families (CE) [v10.7] AutomationDirect Do-MORE PLC- v[1.2] CF_EANUE CAN Conjugate PLC- v[1.2]	=	
KOYO	DirectLogic Koup, CCM/ECOM protocol (DL 2/0/DL 250+H2-ENET)(CE) [v1.18]	_	
MELSE MITSU	MELSE, Mitsubishi - MELSEC Protocol (CE) [v10.4] MITSUBISHI Protocol, FX Series (CE) [v10.7.0]	-	
٠ -	III	•	Select >>
DLL	vers: Description		>> Remove
		эк 🗌	Cancel

Once the driver has been selected and the OK button clicked, you will see the Main Driver Sheet option as seen below. Within the Main driver sheet start by giving your integer tag a name, as seen below.

		Point of	f View - KOYO - MAIN DRIVER	SHEET			
Home View Insert Project Help	p						
Context Help Communication Sensitive Documentation	Release System Support About Notes Information						
Project Explorer 🛛 🔍 🗙	🐨 KOYO - MAIN DRIVER SHEET 🗡						
Project: Implied decimal Project.APP     A -          Evires         KOYO         Lew MAIN DRIVER SHEET         OPC DA 205         P-         OPC DA 205         P-         OPC DA 205         P-         OPC CMU/DA         CP/IP         DDE	Description: MAIN DRIVER SHEET Disable: Read Completed: Read Status: Write Completed: Write Status:	Mir:					
	Tag Name	Station	I/O Address	Action	Scan	Div	Add
	G Filter text	Sector Filter text	Q Filter text	(AID)	- Q (AID	- Q Filter text	Silter text
	1 V2000_SCaled_Value			Read+Write	- Always	*	
	*			Read+Write	- Always	-	
	*			Read+Write	+ Always	-	
				Read+Write	- Always	-	Ī
	*			Read+Write	- Always	-	
	*			Read+Write	- Always	*	



Once you entered the name you will see the following popup.

Question	
?	Tag 'V2000_SCaled_Value' does not exist. Would you like to create this tag ?
	Yes No

Here select yes. Then you will see the following option selection. *In this option you will be selecting Real type*. This must be a real type so that the tag inside of the POV project has decimal points.

New Tag	<b>X</b>
Name:	V2000_SCaled_Value
Array:	0
Туре:	Real
Description:	
Scope:	Server -
	OK Cancel



Now you need to finish filling out the required information in this driver sheet. In station you are placing your IP address, if over Ethernet, or the node number, if over Serial. In the IO address the formatting here is determined upon the driver you are using. *Please see the relevant Driver help file for the driver type you are using for the correct formatting.* In this example we are setting up V2000 as a 16 bit BCD Integer.

The way we are able to set up the scaled value is by using the Divider and Add value based upon the scaled you range you will need. In this example we are scaling the possible input range of 0-4095 to an engineering unit range of 20-1000.

	1-1-2-2-0011	Point of View - KC	DYO - MAIN DRIVER SHEET	aB _	2		
Home View Insert Project Help							
A Cut Copy Paste 57 Find Clipboard Clipboard	ownload un Tasks Database LogWin top Spy emote Management	Import Wizard Convert Resolution Register Controls	Global Replace Belace Global Replace	gs 💑 Cross e 😁 Prope	Reference rties		
Project Explorer 🛛 🕮 🗙	👻 KOYO - MAIN DRIVER SHEET 🗙 🛽	Screen3					-
A      Project: Implied decimal Project.APP     A      Screens	Description: MAIN DRIVER SHEET						
Screen Group	Disable:						
>	Read Completed: Read Status:	Min:					
Layout	Write Completed: Write Status:	Max					
	Tag Name	Station	I/O Address	Action	Scan	Div	Add ^
	🔍 Filter text	🔍 Filter text 🔍	🖌 Filter text 🔍 🔍 🗸	AII) 👻	🔍 (All) 📑	- 🔍 Filter text	🔍 Filter text
	1 V2000_SCaled_Value	10.101.2.30 V:	2000:B Read	+Write 🔻	Always -	51.282051	20.000000
	÷		Read	+Write 🔻	Always *		=
	*		Read	+vvrite *	Always		
	*		Read	+Write -	Always	-	
	2		Read	+Write 🔻	Always T		



If you don't already have a screen created please create one by right click on the Screen folder, under the Graphics tab of the Project Explorer.





### Here you will need to format your screen options.

Background Picture Enable Background Shared image:	ВМР	Size Width:		Location
		▼ Height:	1280 1024	Top: 0 Left: 0
Runtime Properties Titlebar: System Menu Maximize Box Minimize Box Don't redraw: Disable Commands:	Style: Border:	Replace(Partial	I) <b>v</b>	Security Level: 0 Screen Logic On Open While Open On Close
Focus Receive focus on oper Share tab order with ot Background screen	n her screens	Tab Order: 0	Performand Hide so Keep s	Multi Touch Settings ce Optimization creen instead of closing it creen file in memory

Now that this screen has been created you will need to add a Text box to your screen. The Text box can be found under the Main tab of Graphics as seen below.

-		Point of Vie	w - Screen3	
ngle	A Text     Pushbutton     Image: Combo Box       Image: List Box     Image: Check Box     Image: List Box       Image: Button     Image: Radio Button     Image: Smart Message	Alarm/Event	Symbols	Command ab Text Data Link
	Active Objects	Data Objects	Libraries	Animations



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#### Then add the text box to your screen, as seen below.



Now double click on you Text Box object and the following object property box will appear. In this Dialog box we determine the display format of the scaled value by the Mask/count. Here we are limiting the display to 1 decimal place, by using ###.#. Now that the formatting has been selected you *MUST* select that maximum and minimum range of the tag value. Since our engineering unit range is 20 to 100 we use this in our maximum and minimum value.

Object Properties	_					
Replace		Hint		Text Box		•
Tag/Expre	ession:	V2000_SCaled_Valu	ie			
F	ormat:	Auto 👻	📝 Input Enat	oled	Fonts	
Mask/	Count:	###.#				
Minimum	Value:	20				
Maximum Value:		100				
D	isable:					
🔲 Multi-line	So	roll Bar	Word Wrap	)		
Password	🗸 Er	able Translation	🔳 RTL		Security: 0	
E-Sign	🔳 Re	quire confirmation	Virtual	keyboard:	<use default=""></use>	-



Now that this is done, save your progress by selecting the POV button at the top left hand corner of the development environment and select "SAVE ALL".

	û 📮 🗋 🌍 🗢 🛛 Grap	hics Tools Object Too	ols	
			H	felp
New	Recent Projects			/ Line Rectangle
- 2	<u>1</u> Implied decimal Project		range	1) Open Polygon Rounded Rec
Open <u>P</u> roject +	2 C:\Users\\TIM TEST OFFICE		-	Shapes
Save	3 C:\Users\\Email_Gmail			
	4 Directlogic_Tagint			
Save As	5 Z:\Email_Gmail\\Email_Gmail		1 10100	N REAL PROPERTY AND A REAL PROPERTY A REAL PROPERTY AND A REAL PROPERTY A REAL PROPERTY A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY A REAL PROPERTY AND A REAL PROPERTY A REAL PROPERT
Save All	6 C:\Users\\ABCIP			
Save	All			
Pub Path Save	all documents		::::	
Print >				
	_		::::	
Close •				
			::::	
	Project Settings	X Exit Point of View	1111	
			:::::	

Now run your project and you will have made a sample of 0-4095 scaled to the range of 20-100.

#### Technical

**Assistance:** If you have questions regarding this Application Note, please contact us at 770-844-4200 for further assistance.