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Date	2020 / 01 / 19	Related Product		
Category	■ FAQ □ SOP □ Driver Tech Note			
Abstract	How to display WebAccess/SCADA tag value in WISE-PaaS SaaS Composer 3D page			
Keyword	WebAccess/SCADA, WISE-PaaS SaaS Composer			
Related OS	Win7, Windows Server 2008 / 2012 / 2016, Win10			
Revision History				
Date	Version	Author	Reviewer	Description
2020/01/19	V1.0	Alger Tan		WebAccess/SCADA V8.4.3 SaaS Composer: V2.6.1
2020/03/10	V1.0	Nick Liu		

■ Problem Description & Architecture:

To teach user how to create customized symbol in order to display block tag values.

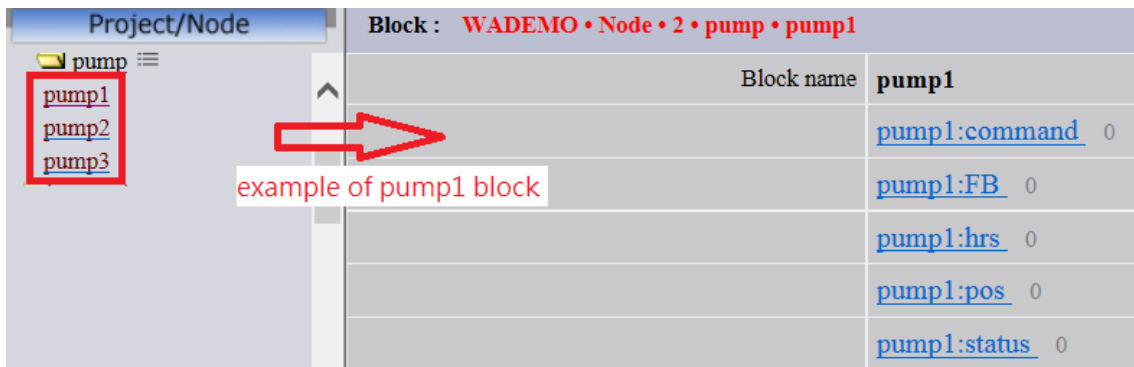


Figure 1: Block

Symbol in 2D display page

Pump
Status: 0
Freq FB: 2.00
Freq Cmd: 1.00
FOA Pos: 4.00
ETM HRS: 3.00

Figure 2: symbol

■ Brief Solution - Step by Step:

1. Click "+ New Sketchboard"

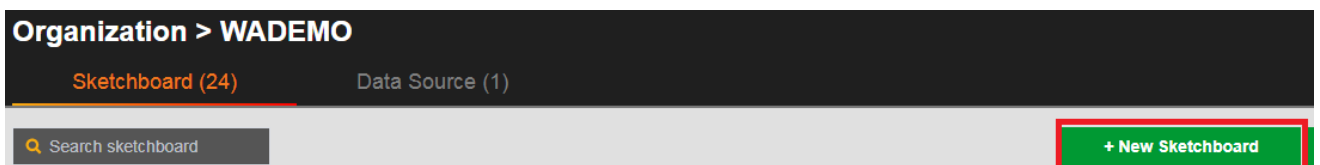


Figure 3: New Sketchboard

2. Add a new folder in Symbols

Symbols -> Root of Symbols -> click right button of mouse -> click "New Folder"

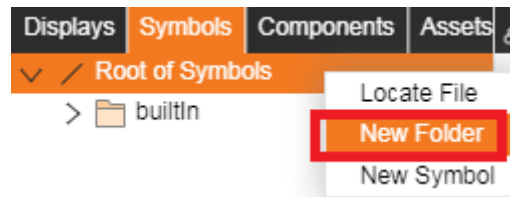


Figure 4: Symbols

3. Enter a name, e.g. WADEMO



Figure 5: New Symbol Folder Name

4. The folder "WADEMO" is created

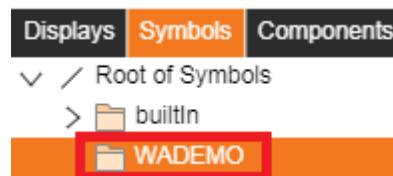


Figure 6: Symbol folder is created

5. Add a new symbol

Move mouse cursor over WADEMO folder -> click right button of mouse -> New Symbol

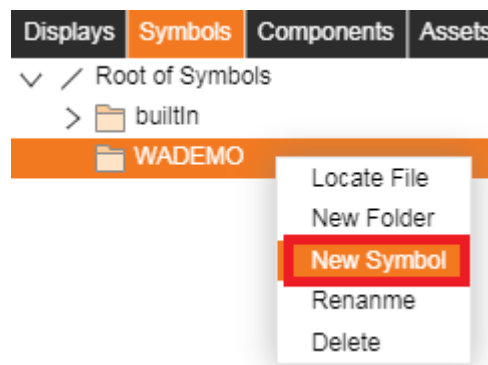


Figure 7: Create a new Symbol

- Enter the name for this new symbol, e.g. GetTagValue



Figure 8: New Symbol Name

- The “GetTagValue” symbol is created.

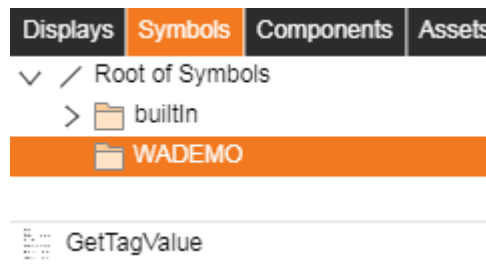


Figure 9: GetTagValue Symbol

- We will use text to create a static text and a dynamic text

Static text: simply display text

- Pump
- Status:
- Freq FB:
- Freq Cmd:
- HoA Pos:
- ETM HRS:

Dynamic text: create 5 xxxxxxxx text objects for display TMSEC tag values

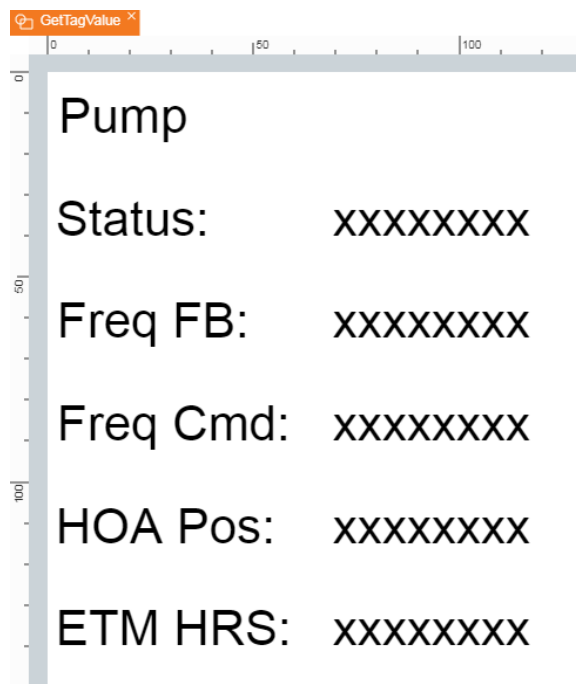
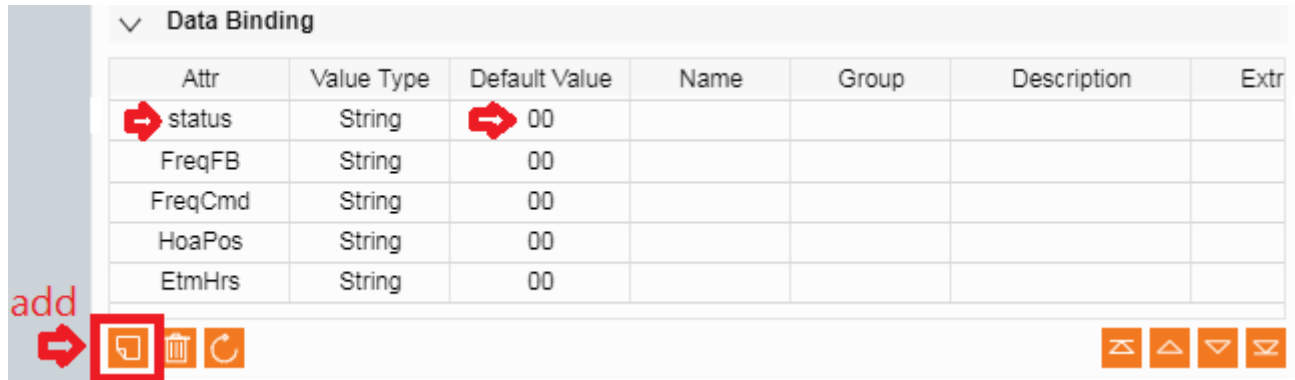


Figure 10: Add Text Objects

9. Add Data Binding for the symbol property

Symbol property -> click "Add" button 5 times for adding new rows:

- click "Attr" and enter "status" -> click "Default Value" and enters 00 (or any text user prefers)
- click "Attr" and enter "FreqFB" -> click "Default Value" and enters 00 (or any text user prefers)
- click "Attr" and enter "FreqCmd" -> click "Default Value" and enters 00 (or any text user prefers)
- click "Attr" and enter "HoaPos" -> click "Default Value" and enters 00 (or any text user prefers)
- click "Attr" and enter "EtmHrs" -> click "Default Value" and enters 00 (or any text user prefers)



Attr	Value Type	Default Value	Name	Group	Description	Extr
status	String	00				
FreqFB	String	00				
FreqCmd	String	00				
HoaPos	String	00				
EtmHrs	String	00				

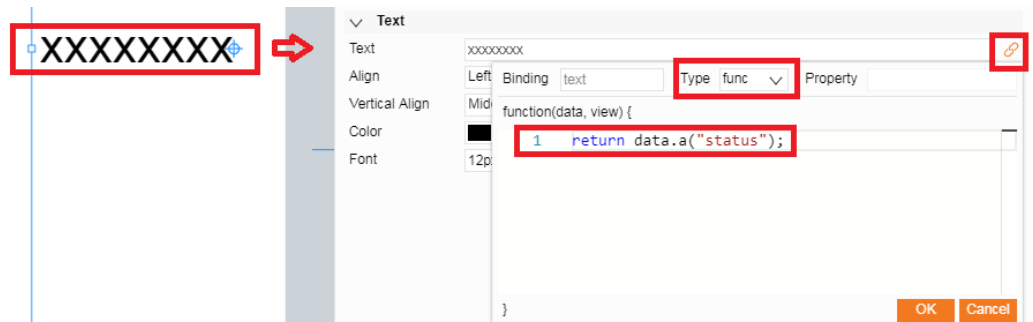
Figure 11: Data Binding

10. For first xxxxxxxx object for Status:

Edit "xxxxxxx" text object property:

Click "xxxxxxx" -> Text -> Text -> click "text: {func:...}" -> Type is **func** -> enter "**return data.a("status");**" -> click "OK"

Status:


Figure 12: Modify Text Property

11. For second xxxxxxxx object for Status:

Edit "xxxxxxx" text object property:

Click "xxxxxxx" -> Text -> Text -> click "text: {func:...}" -> Type is **func** -> enter "**return data.a("FreqFB");**" -> click "OK"

Freq FB:

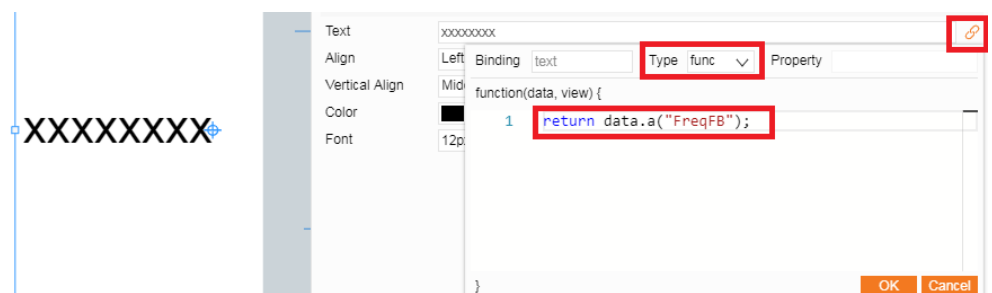
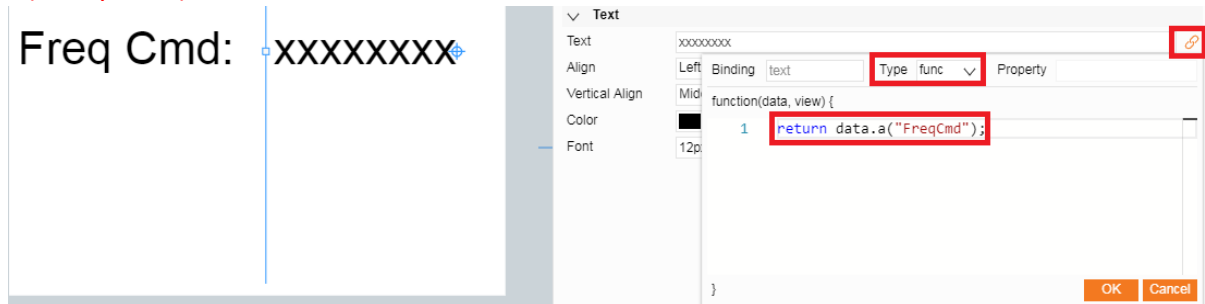


Figure 13: Modify Text Property

12. For third xxxxxxxx object for Status:

Edit "xxxxxxx" text object property:

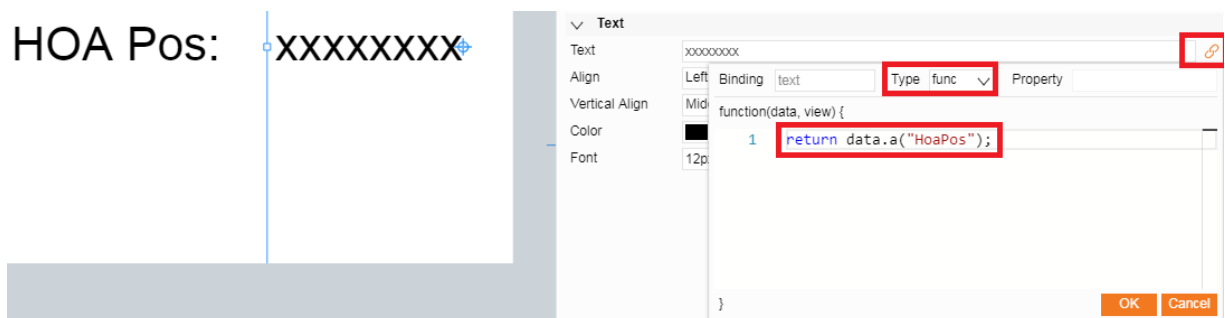
Click "xxxxxxx" -> Text -> Text -> click "text: {func:...}" -> Type is **func** -> enter "**return data.a("FreqCmd");**" -> click "OK"


Figure 14: Modify Text Property

13. For fourth xxxxxxxx object for Status:

Edit "xxxxxxx" text object property:

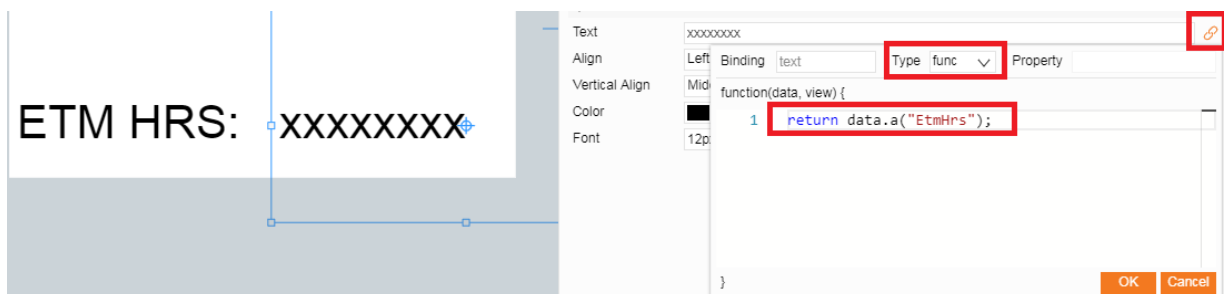
Click "xxxxxxx" -> Text -> Text -> click "text: {func:...}" -> Type is **func** -> enter "**return data.a("HoaPos");**" -> click "OK"


Figure 15: Modify Text Property

14. For fifth xxxxxxxx object for Status:

Edit "xxxxxxx" text object property:

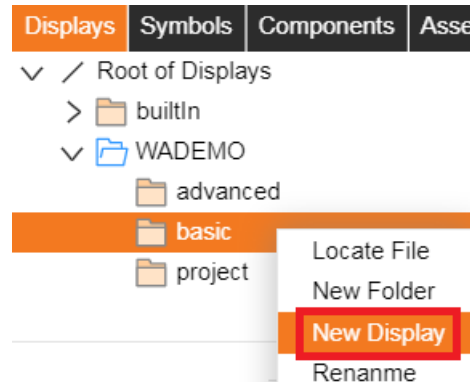
Click "xxxxxxx" -> Text -> Text -> click "text: {func:...}" -> Type is **func** -> enter "**return data.a("EtmHrs");**" -> click "OK"


Figure 16: Modify Text Property

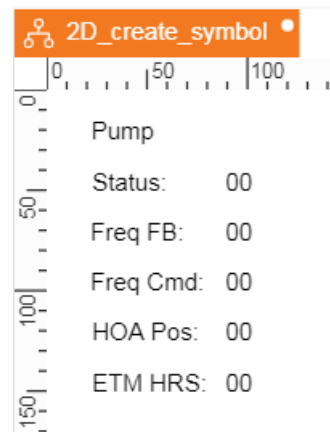
15. Save the symbol.


Figure 17: Save the symbol

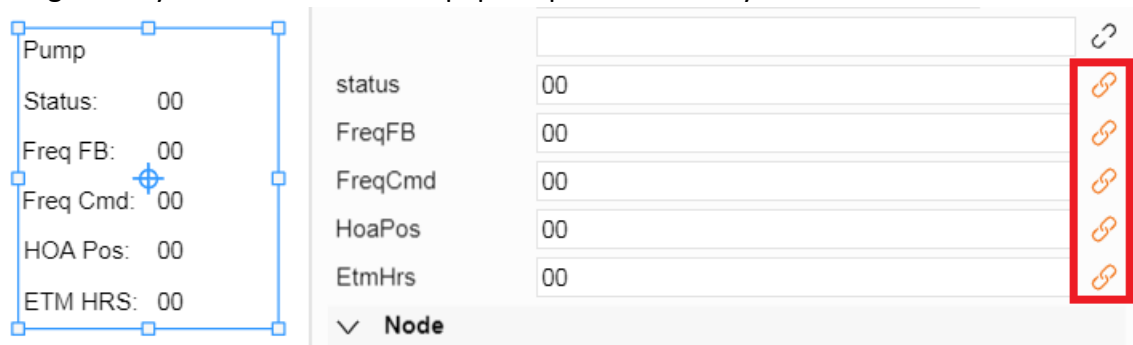
Displays -> WADEMO (optional) -> basic (optional) -> click right button of mouse -> New Display



Symbols -> WADEMO -> GetTagValue



Click GetTagValue symbol -> Basic -> click paperclip button one by one



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19. Setup data binding for “status”

- Source: webaccess
- Format: timeseries
- Target: pump1:status
- Project: WADEMO



The screenshot shows the 'Data Binding' dialog box for the 'status' tag. The 'Data source' tab is selected. The fields are configured as follows:

Field	Value
Source	webaccess
Format	timeseries
Target	pump1:status
project	WADEMO
Tag	

Figure 21: Data Binding for Status

Click “Ok” button after setup

20. Setup data binding for “FreqFB”

- Source: webaccess
- Format: timeseries
- Target: pump1:FB
- Project: WADEMO



The screenshot shows the 'Data Binding' dialog box for the 'FreqFB' tag. The 'Data source' tab is selected. The fields are configured as follows:

Field	Value
Source	webaccess
Format	timeseries
Target	pump1:FB
project	WADEMO
Tag	

Figure 22: Data Binding for FreqFB

Click “Ok” button after setup

21. Setup data binding for “FreqCmd”

- Source: webaccess
- Format: timeseries
- Target: pump1:command
- Project: WADEMO



Data Binding		
Data source	Animation	Information
Source	webaccess	▼
Format	timeseries	▼
Target	pump1:command	
project	WADEMO	▼
Tag		▼

Figure 23: Data Binding for FreqCmd

Click “Ok” button after setup

22. Setup data binding for “HoaPos”

- Source: webaccess
- Format: timeseries
- Target: pump1:pos
- Project: WADEMO



Data Binding		
Data source	Animation	Information
Source	webaccess	▼
Format	timeseries	▼
Target	pump1:pos	
project	WADEMO	▼
Tag		▼

Figure 24: Data Binding for HoaPos

Click “Ok” button after setup

23. Setup data binding for “EtmHrs”

- Source: webaccess
- Format: timeseries
- Target: pump1:hrs
- Project: WADEMO

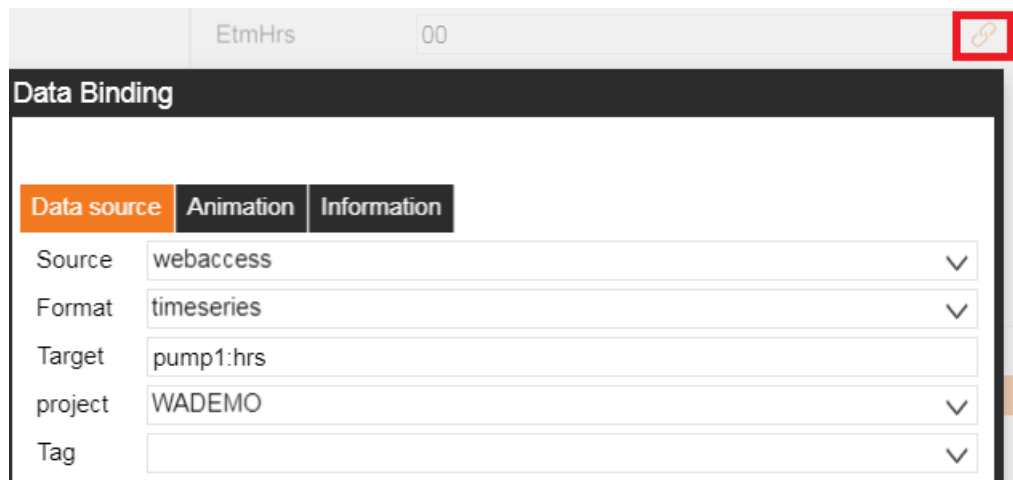


Figure 25: Data Binding for EtmHrs

Click “Ok” button after setup

24. Click Save and then click Sketch View



25. Result of showing pump1 block tag values in GetTagValue symbol.

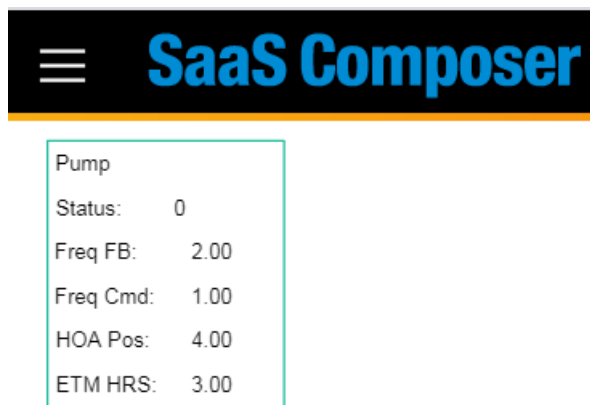


Figure 26: result

■ Pin Definition (in case of serial connection):

■ Reference: