

SIEMENS



Application Example • 11/2016

Automatic Visualization of the Sample Blocks in WinCC Professional

SiVArc, WinCC Professional



<https://support.industry.siemens.com/cs/ww/de/view/66839614>

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1 Description

TIA Portal V14 or higher provides the SIMATIC Visualization Architect (SiVArc) option package. Using the control program, SiVArc automatically generates your visualization.

For more information about SiVArc, please refer to this application example:

\3\ “SiVArc – Getting Started”

<https://support.industry.siemens.com/cs/ww/en/view/109740350>

The sample blocks in this application example are prepared for generation by SiVArc. In order to use the sample blocks in your project, the only thing you have to do is apply the control blocks. Then SiVArc will automatically visualize the project.

If, in addition to the faceplate used in the screen rule, the same drop folder contains other faceplates, SiVArc will apply them to your project. This is due to the “Generate additional screens” SiVArc property of a faceplate. The screens the SiVArc property generates are not displayed on the operator panel in Runtime. They are only stored in your project.

For more information, please refer to the TIA information system.

Enter “generate additional screens” as a search term.

Note

This application example contains a guide that shows you how to integrate the sample blocks into your project using SiVArc.

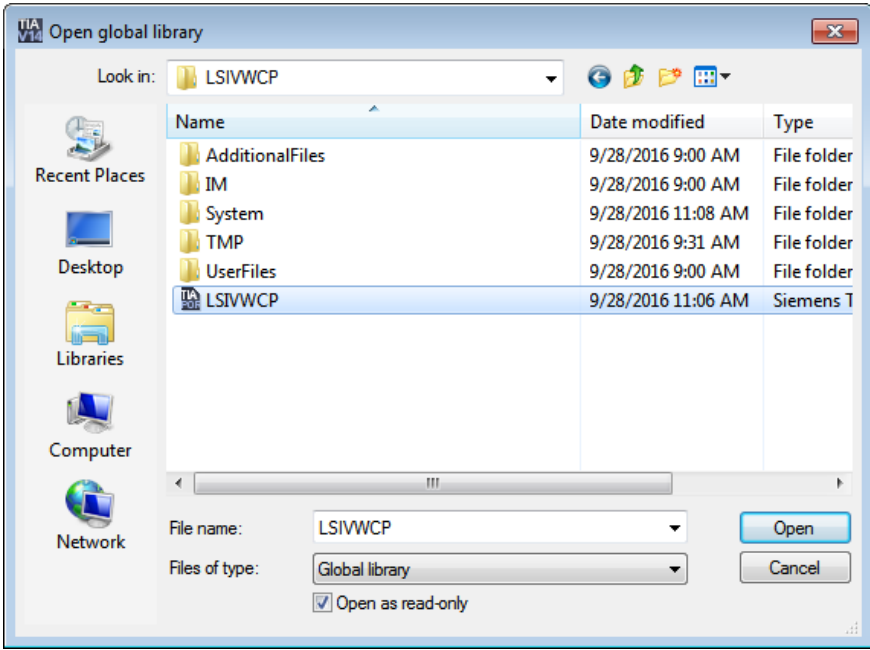
For a detailed guide on the principle of operation and use of the sample blocks, please refer to the entry page, \2\, of this application example:

<https://support.industry.siemens.com/cs/ww/en/view/66839614>

2 Configuration

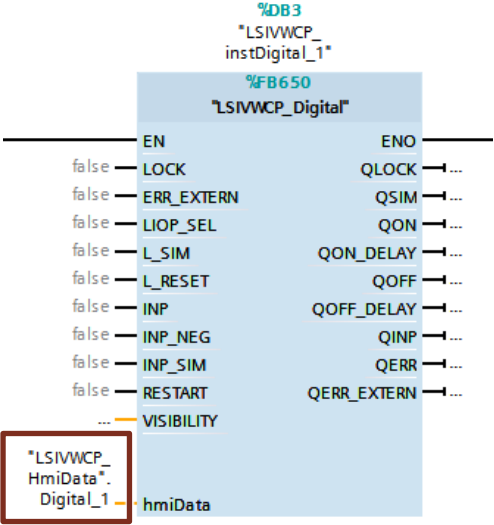
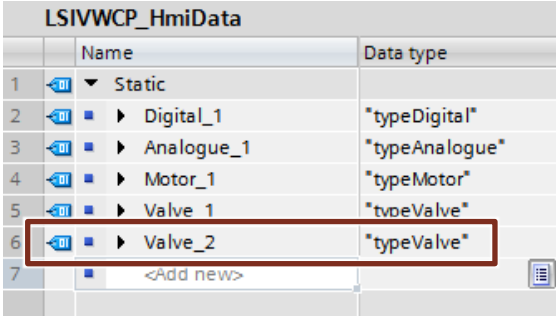
2.1 Creating the control project

Table 2-1

No.	Action
1.	Download the "LSIWWCP.zip" library from the entry page, https://support.industry.siemens.com/cs/ww/en/view/66839614 , of the application example:
2.	In "Options > Settings > General", change the TIA Portal V14 "user interface language" to English.
3.	Use TIA Portal V14 to open the library as read only. 
4.	Open the "Master copies > 01_PLCBlocks" folder.
5.	Copy the "LSIWWCP_HmiData" data block to your controller.
6.	Copy the function blocks (FBs) and instance data blocks (DBs) that you want to use in your project to your controller.
7.	Open the "Types" folder of the library. Use drag and drop to move the data types to the "PLC data types" folder of your controller.

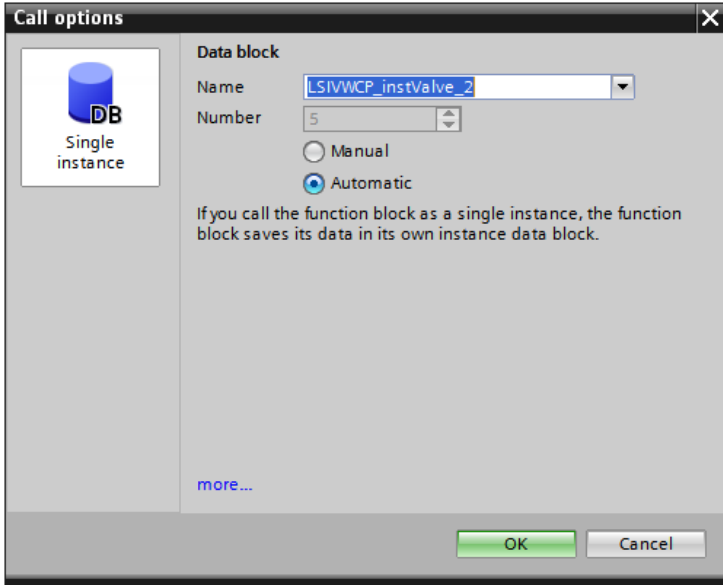
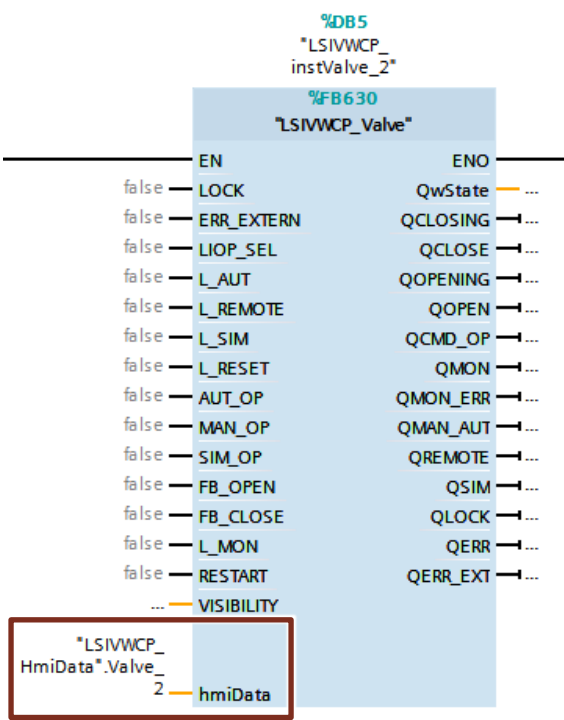
2 Configuration

2.1 Creating the control project

No.	Action
8.	<p>Call the FBs, for example, in a Main OB and connect the “hmiData” parameter to the appropriate instance of the type in the “LSIWCP_HmiData” DB.</p> 
9.	<p>If you are using only one instance, you can compile the control project now. You can skip No. 10 - 13. If you want to use multiple instances of a block, continue with No. 10.</p>
10.	<p>Open the “LSIWCP_HmiData” DB. Add a new tag, “valve02”, of the “typeValve” data type. Do the same for the other data types.</p> 

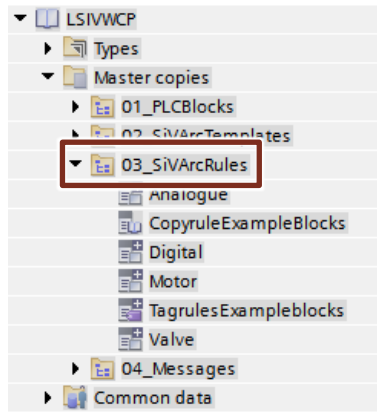
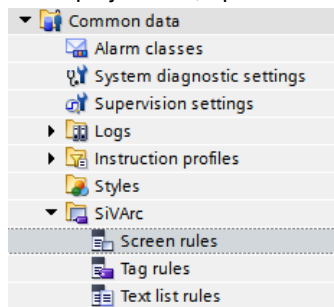
2 Configuration

2.1 Creating the control project

No.	Action
11.	<p>Open the Main OB. Use drag and drop to move the "LSIVWCP_Valve" block to a new network.</p> <p>In "Name", enter "LSIVWCP_instValve02" as the instance.</p> 
12.	<p>Connect the "HmiData" input to the "Valve_2" tag in the "LSIVWCA_HmiData" DB.</p> 
13.	Compile the control project.


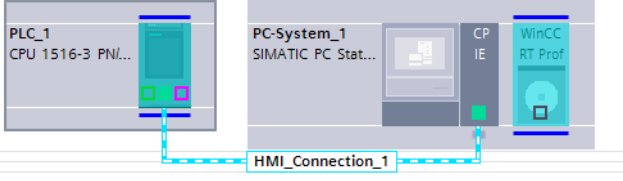
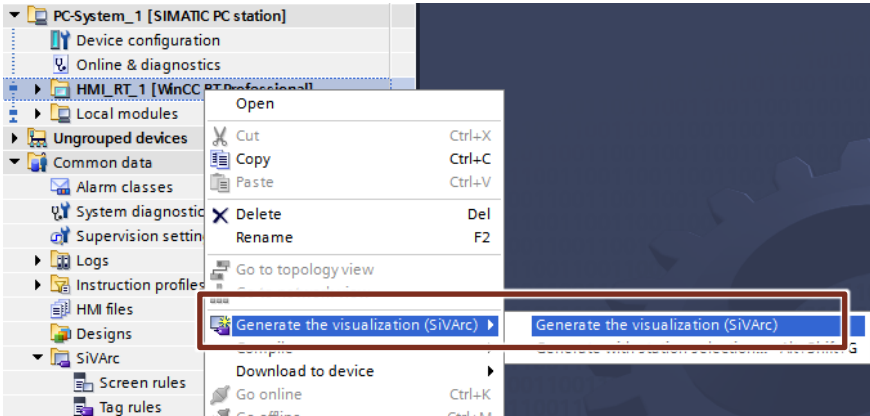
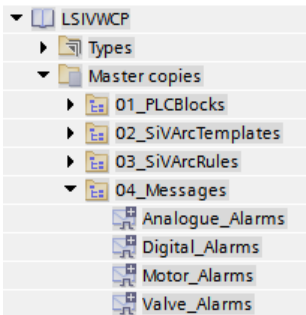
2.2 Generating the visualization

Table 2-2

No.	Action																																																																																																																														
1.	<p>Open the “Master copies > 03_SiVArc_Rules” folder of the “LSIVWCP” global library.</p> 																																																																																																																														
2.	<p>In the project tree, open “Common data > SiVArc > Screen rules”.</p> 																																																																																																																														
3.	<p>Use drag and drop to move the screen rules (Analogue, Digital, Motor or Valve) of the blocks you are using from the library to the editor.</p> <table border="1" data-bbox="491 1294 1369 1751"> <thead> <tr> <th></th> <th>Name</th> <th>Program block</th> <th>Screen object</th> <th>Master copy of a screen</th> <th>Layout field</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Analogue</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>AnalogueScreenWindows</td> <td>LSIVWCP_Analogue</td> <td>Frame</td> <td>ScreenAnalogue</td> <td>SWAnalogue</td> </tr> <tr> <td>3</td> <td>AnalogueButton</td> <td>LSIVWCP_Analogue</td> <td>btnAnalogue</td> <td>ScreenAnalogue</td> <td>AnalogueBtn</td> </tr> <tr> <td>4</td> <td>AnalogueIcon</td> <td>LSIVWCP_Analogue</td> <td>Analogue_Icon</td> <td>ScreenAnalogue</td> <td>AnalogueIcon</td> </tr> <tr> <td>5</td> <td><create new rules></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td>Digital</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7</td> <td>DigitalScreenWindows</td> <td>LSIVWCP_Digital</td> <td>Frame</td> <td>ScreenDigital</td> <td>SWDigital</td> </tr> <tr> <td>8</td> <td>DigitalButton</td> <td>LSIVWCP_Digital</td> <td>btnDigital</td> <td>ScreenDigital</td> <td>DigitalBtn</td> </tr> <tr> <td>9</td> <td>DigitalIcon</td> <td>LSIVWCP_Digital</td> <td>Digital_Icon</td> <td>ScreenDigital</td> <td>DigitalIcon</td> </tr> <tr> <td>10</td> <td><create new rules></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>11</td> <td>Motor</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>12</td> <td>MotorScreenWindows</td> <td>LSIVWCP_Motor</td> <td>Frame</td> <td>ScreenMotor</td> <td>SWMotor</td> </tr> <tr> <td>13</td> <td>MotorButton</td> <td>LSIVWCP_Motor</td> <td>btnMotor</td> <td>ScreenMotor</td> <td>MotorBtn</td> </tr> <tr> <td>14</td> <td>MotorIcon</td> <td>LSIVWCP_Motor</td> <td>Motor_Icon</td> <td>ScreenMotor</td> <td>MotorIcon</td> </tr> <tr> <td>15</td> <td><create new rules></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>16</td> <td>Valve</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>17</td> <td>ValveScreenWindows</td> <td>LSIVWCP_Valve</td> <td>Frame</td> <td>ScreenValve</td> <td>SWValve</td> </tr> <tr> <td>18</td> <td>ValveButton</td> <td>LSIVWCP_Valve</td> <td>btnValve</td> <td>ScreenValve</td> <td>ValveBtn</td> </tr> <tr> <td>19</td> <td>ValveIcon</td> <td>LSIVWCP_Valve</td> <td>Valve_Icon_H</td> <td>ScreenValve</td> <td>ValveIcon</td> </tr> <tr> <td>20</td> <td><create new rules></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Name	Program block	Screen object	Master copy of a screen	Layout field	1	Analogue					2	AnalogueScreenWindows	LSIVWCP_Analogue	Frame	ScreenAnalogue	SWAnalogue	3	AnalogueButton	LSIVWCP_Analogue	btnAnalogue	ScreenAnalogue	AnalogueBtn	4	AnalogueIcon	LSIVWCP_Analogue	Analogue_Icon	ScreenAnalogue	AnalogueIcon	5	<create new rules>					6	Digital					7	DigitalScreenWindows	LSIVWCP_Digital	Frame	ScreenDigital	SWDigital	8	DigitalButton	LSIVWCP_Digital	btnDigital	ScreenDigital	DigitalBtn	9	DigitalIcon	LSIVWCP_Digital	Digital_Icon	ScreenDigital	DigitalIcon	10	<create new rules>					11	Motor					12	MotorScreenWindows	LSIVWCP_Motor	Frame	ScreenMotor	SWMotor	13	MotorButton	LSIVWCP_Motor	btnMotor	ScreenMotor	MotorBtn	14	MotorIcon	LSIVWCP_Motor	Motor_Icon	ScreenMotor	MotorIcon	15	<create new rules>					16	Valve					17	ValveScreenWindows	LSIVWCP_Valve	Frame	ScreenValve	SWValve	18	ValveButton	LSIVWCP_Valve	btnValve	ScreenValve	ValveBtn	19	ValveIcon	LSIVWCP_Valve	Valve_Icon_H	ScreenValve	ValveIcon	20	<create new rules>				
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4.	<p>Use drag and drop to move the “TagrulesExampleblocks” tag rules to the “Tag rules” SiVArc editor.</p> <table border="1" data-bbox="491 1818 1369 1989"> <thead> <tr> <th></th> <th>Name</th> <th>Index</th> <th>Tag table</th> <th>Condition</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Exampleblocks</td> <td>0</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>Analogue</td> <td>0</td> <td>"Tags_Analogue"</td> <td>AND Contains(HmiTag.SymbolicName, "Analogue")</td> </tr> <tr> <td>3</td> <td>Digital</td> <td>1</td> <td>"Tags_Digital"</td> <td>AND Contains(HmiTag.SymbolicName, "Digital")</td> </tr> <tr> <td>4</td> <td>Motor</td> <td>2</td> <td>"Tags_Motor"</td> <td>AND Contains(HmiTag.SymbolicName, "Motor")</td> </tr> <tr> <td>5</td> <td>Valve</td> <td>3</td> <td>"Tags_Valve"</td> <td>AND Contains(HmiTag.SymbolicName, "Valve")</td> </tr> <tr> <td>6</td> <td><create new r...</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Name	Index	Tag table	Condition	1	Exampleblocks	0			2	Analogue	0	"Tags_Analogue"	AND Contains(HmiTag.SymbolicName, "Analogue")	3	Digital	1	"Tags_Digital"	AND Contains(HmiTag.SymbolicName, "Digital")	4	Motor	2	"Tags_Motor"	AND Contains(HmiTag.SymbolicName, "Motor")	5	Valve	3	"Tags_Valve"	AND Contains(HmiTag.SymbolicName, "Valve")	6	<create new r...																																																																																														
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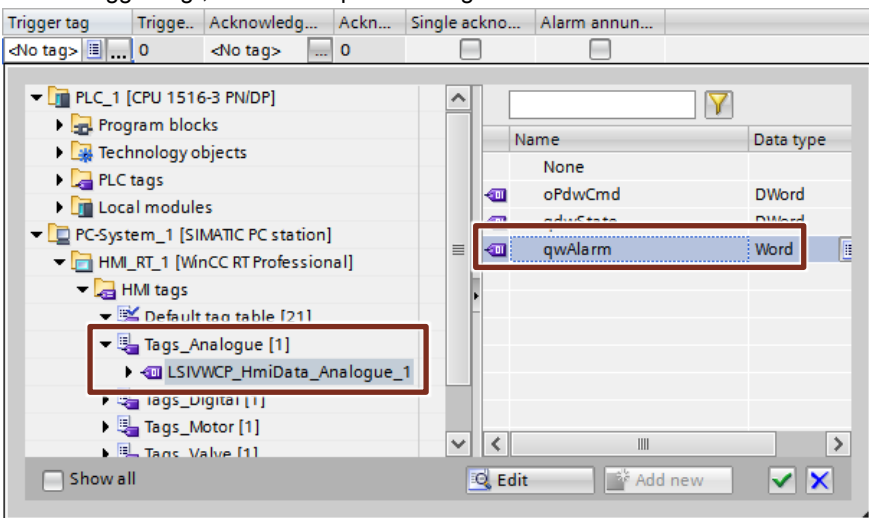
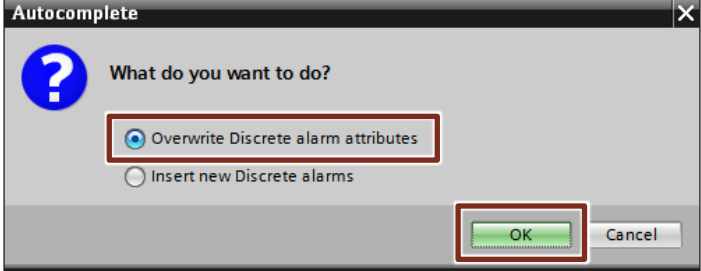
2 Configuration

2.2 Generating the visualization

No.	Action
5.	<p>Use drag and drop to move the “CopyrulesExampleblocks” copy rule to the “Copy rules” SiVArc editor.</p>  <p>In this example, the copy rule is used to create the visualization template (start screen, navigation). If you are integrating the faceplates into your own project, do not use the copy rule. Please note: This requires more steps (e.g., create navigation) to be performed manually.</p>
6.	<p>Insert a PC station with WinCC Runtime Professional into the project and create an HMI connection between the controller and WinCC Runtime Professional.</p> 
7.	<p>Right-click the operator panel and select “Generate the visualization (SiVArc)”.</p> 
8.	<p>Open the “Master copies > 04_Messages” folder of the library.</p> 
9.	<p>Open the “HMI alarms” editor of the operator panel. Use drag and drop to move the alarms of the blocks you are using to the editor.</p>

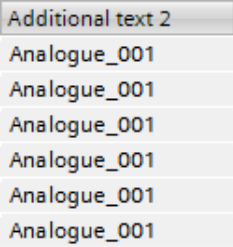
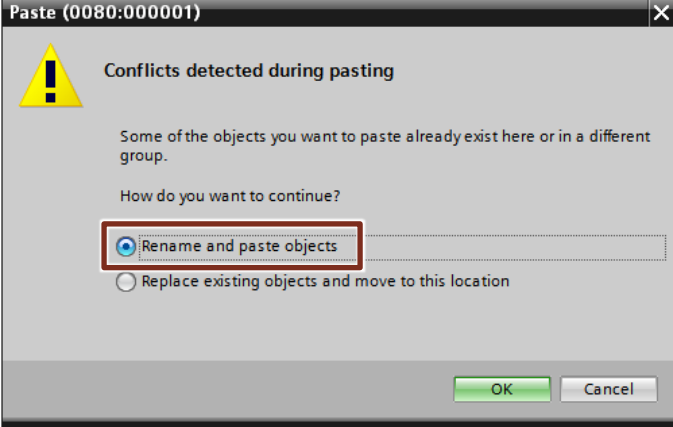
2 Configuration

2.2 Generating the visualization

No.	Action																																																			
10.	<p>As the “trigger tag”, select the “qwAlarm” tag of the associated UDT.</p> 																																																			
11.	<p>Apply the trigger tag to all alarms.</p> <table border="1" data-bbox="497 898 1200 1507"> <thead> <tr> <th>Alarm class</th> <th>Trigger tag</th> <th>Trigge..</th> </tr> </thead> <tbody> <tr> <td>Errors</td> <td>LSIVWCP_HmiData_Analogue_1.qwAlarm</td> <td>0</td> </tr> <tr> <td>Errors</td> <td><No tag></td> <td>0</td> </tr> <tr> <td>Errors</td> <td><No tag></td> <td>0</td> </tr> <tr> <td>Errors</td> <td><No tag></td> <td>0</td> </tr> <tr> <td>Errors</td> <td><No tag></td> <td>0</td> </tr> <tr> <td>Errors</td> <td><No tag></td> <td>0</td> </tr> <tr> <td>Errors</td> <td><No tag></td> <td>0</td> </tr> <tr> <td>Errors</td> <td><No tag></td> <td>0</td> </tr> <tr> <td>Warnings</td> <td><No tag></td> <td>0</td> </tr> <tr> <td>Warnings</td> <td><No tag></td> <td>0</td> </tr> <tr> <td>Warnings</td> <td><No tag></td> <td>0</td> </tr> <tr> <td>Warnings</td> <td><No tag></td> <td>0</td> </tr> <tr> <td>Warnings</td> <td><No tag></td> <td>0</td> </tr> <tr> <td>Warnings</td> <td><No tag></td> <td>0</td> </tr> <tr> <td>Warnings</td> <td><No tag></td> <td>0</td> </tr> <tr> <td>Warnings</td> <td><No tag></td> <td>0</td> </tr> </tbody> </table>	Alarm class	Trigger tag	Trigge..	Errors	LSIVWCP_HmiData_Analogue_1.qwAlarm	0	Errors	<No tag>	0	Errors	<No tag>	0	Errors	<No tag>	0	Errors	<No tag>	0	Errors	<No tag>	0	Errors	<No tag>	0	Errors	<No tag>	0	Warnings	<No tag>	0	Warnings	<No tag>	0	Warnings	<No tag>	0	Warnings	<No tag>	0	Warnings	<No tag>	0	Warnings	<No tag>	0	Warnings	<No tag>	0	Warnings	<No tag>	0
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12.	<p>Select the “Overwrite Discrete alarm attributes” option and select “OK” to confirm.</p> 																																																			

2 Configuration

2.2 Generating the visualization

No.	Action
13.	In "Additional text 2", enter a custom text, if necessary. 
14.	If you are using only one instance for each of the sample blocks, you can now compile your controller and then start "Generate the visualization (SiVArc)". If you are using multiple instances, continue with No. 15.
15.	Repeat steps 9 through 13 for each other instance and select the "Rename and paste objects" option when pasting the alarms for the respective instances. 

2 Configuration

2.2 Generating the visualization

No.	Action																																		
16.	<p>If you are using multiple instances of the “Analog” block, additionally customize “Parameter 1” and “Parameter 2” of the discrete alarms. To do this, show the two columns, “Parameter 1” and “Parameter 2”, and connect the appropriate tags of the instance, e.g. “LSIVWCP_HmiData_Analogue_2.opLimLla”</p> <table border="1" data-bbox="491 450 1367 1093"> <thead> <tr> <th data-bbox="491 450 967 488">Parameter 1</th> <th data-bbox="967 450 1367 488">Parameter 2</th> </tr> </thead> <tbody> <tr> <td data-bbox="491 488 967 526">LSIVWCP_HmiData_Analogue_1.opLimLla</td> <td data-bbox="967 488 1367 526">LSIVWCP_HmiData_Analogue_1.unit</td> </tr> <tr> <td data-bbox="491 526 967 564">LSIVWCP_HmiData_Analogue_1.opLimUla</td> <td data-bbox="967 526 1367 564">LSIVWCP_HmiData_Analogue_1.unit</td> </tr> <tr> <td data-bbox="491 564 967 602"><No value></td> <td data-bbox="967 564 1367 602"><No value></td> </tr> <tr> <td data-bbox="491 602 967 640"><No value></td> <td data-bbox="967 602 1367 640"><No value></td> </tr> <tr> <td data-bbox="491 640 967 678"><No value></td> <td data-bbox="967 640 1367 678"><No value></td> </tr> <tr> <td data-bbox="491 678 967 716"><No value></td> <td data-bbox="967 678 1367 716"><No value></td> </tr> <tr> <td data-bbox="491 716 967 754"><No value></td> <td data-bbox="967 716 1367 754"><No value></td> </tr> <tr> <td data-bbox="491 754 967 792"><No value></td> <td data-bbox="967 754 1367 792"><No value></td> </tr> <tr> <td data-bbox="491 792 967 831">LSIVWCP_HmiData_Analogue_1.opLimLlw</td> <td data-bbox="967 792 1367 831">LSIVWCP_HmiData_Analogue_1.unit</td> </tr> <tr> <td data-bbox="491 831 967 869">LSIVWCP_HmiData_Analogue_1.opLimUlw</td> <td data-bbox="967 831 1367 869">LSIVWCP_HmiData_Analogue_1.unit</td> </tr> <tr> <td data-bbox="491 869 967 907"><No value></td> <td data-bbox="967 869 1367 907"><No value></td> </tr> <tr> <td data-bbox="491 907 967 945"><No value></td> <td data-bbox="967 907 1367 945"><No value></td> </tr> <tr> <td data-bbox="491 945 967 983"><No value></td> <td data-bbox="967 945 1367 983"><No value></td> </tr> <tr> <td data-bbox="491 983 967 1021"><No value></td> <td data-bbox="967 983 1367 1021"><No value></td> </tr> <tr> <td data-bbox="491 1021 967 1059"><No value></td> <td data-bbox="967 1021 1367 1059"><No value></td> </tr> <tr> <td data-bbox="491 1059 967 1097"><No value></td> <td data-bbox="967 1059 1367 1097"><No value></td> </tr> </tbody> </table>	Parameter 1	Parameter 2	LSIVWCP_HmiData_Analogue_1.opLimLla	LSIVWCP_HmiData_Analogue_1.unit	LSIVWCP_HmiData_Analogue_1.opLimUla	LSIVWCP_HmiData_Analogue_1.unit	<No value>	<No value>	<No value>	<No value>	<No value>	<No value>	<No value>	<No value>	<No value>	<No value>	<No value>	<No value>	LSIVWCP_HmiData_Analogue_1.opLimLlw	LSIVWCP_HmiData_Analogue_1.unit	LSIVWCP_HmiData_Analogue_1.opLimUlw	LSIVWCP_HmiData_Analogue_1.unit	<No value>	<No value>	<No value>	<No value>	<No value>	<No value>	<No value>	<No value>	<No value>	<No value>	<No value>	<No value>
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17.	Compile the controller and generate the visualization.																																		

3 Links & Literature

Table 3-1

	Topic
\1\	Siemens Industry Online Support https://support.industry.siemens.com
\2\	Download page of the entry https://support.industry.siemens.com/cs/ww/en/view/66839614
\3\	SiVArc – Getting Started https://support.industry.siemens.com/cs/ww/en/view/109740350

4 History

Table 4-1

Version	Date	Modifications
V1.0	11/2016	First version