

Sample Templates Document: Alarm.blu

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All pertinent state, regional, and local safety regulations must be observed when installing and using this product. For reasons of safety and to help ensure compliance with documented system data, only the manufacturer should perform repairs to components.

When devices are used for applications with technical safety requirements, the relevant instructions must be followed.

Failure to use Schneider Electric software or approved software with our hardware products may result in injury, harm, or improper operating results.

Failure to observe this information can result in injury or equipment damage.

Safety Information



Important Information

NOTICE

Read these instructions carefully, and look at the equipment to become familiar with the device before trying to install, operate, service, or maintain it. The following special messages may appear throughout this documentation or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of this symbol to a “Danger” or “Warning” safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER

DANGER indicates a hazardous situation which, if not avoided, **will result in** death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, **could result in** death or serious injury.

CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **could result in** minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to physical injury.

PLEASE NOTE

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction and operation of electrical equipment and its installation, and has received safety training to recognize and avoid the hazards involved.

About the Book



At a Glance

Document Scope

This manual describes how to use this product.

Validity Note

This documentation is valid for this product.

The technical characteristics of the device(s) described in this manual also appear online at <http://www.pro-face.com>.

The characteristics presented in the present document should be the same as those that appear online. In line with our policy of constant improvement we may revise content over time to improve clarity and accuracy. In the event that you see a difference between the document and online information, use the online information as your reference.

Registered Trademarks

Microsoft and Windows are registered trademarks of Microsoft Corporation in the United States and/or other countries.

Product names used in this manual may be the registered trademarks owned by the respective proprietors.

Related Documents

You can download the manuals related to this product, such as the software manual, from our support site at <http://www.pro-face.com/trans/en/manual/1001.html>.

Product Related Information

If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

In the event this product does not run properly due to whatever reason, it may be difficult or impossible to identify a function. Functions that may present a hazard if not immediately executed, such as a fuel shut-off, must be provided independently of this product. The machine's control system design must take into account the operator being unable to control the machine or making mistakes in the control of the machine.

WARNING

UNINTENDED EQUIPMENT OPERATION

The application of this product requires expertise in the design and programming of control systems. Only persons with such expertise should be allowed to program, install, alter, and apply this product.

- Follow all local and national safety standards.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

For additional information, refer to NEMA ICS 1.1 (latest edition), "Safety Guidelines for the Application, Installation, and Maintenance of Solid State Control" and to NEMA ICS 7.1 (latest edition), "Safety Standards for Construction and Guide for Selection, Installation and Operation of Adjustable-Speed Drive Systems" or their equivalent governing your particular location.

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Template Overview

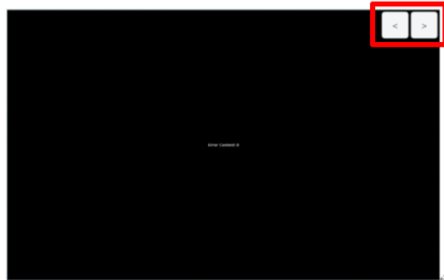
Target: ST6000 Series

Driver: None

BLUE version 3.1 Service Pack1 or later

Project structure

Screen1: Content display (Layout Object) is placed with navigation switches ([<] or[>]) at top to navigate between four contents.



Content1

Alarm										
Date	Time	ACKDate	ACKTime	RTNDate	RTNTime	AlarmMessage	Status	Type	Card	Value
2010/12/17	14:30:21			2010/12/17	14:30:21	Alarm1 OK	Alarm	OK	1	1
2010/12/17	14:30:21			2010/12/17	14:30:21	Alarm2 OK	Alarm	OK	2	1
2010/12/17	14:30:21			2010/12/17	14:30:21	Alarm3 OK	Alarm	OK	3	1
2010/12/17	14:30:21			2010/12/17	14:30:21	Alarm4 OK	Alarm	OK	4	1

Content2

Alarm										
Date	Time	ACKDate	ACKTime	RTNDate	RTNTime	AlarmMessage	Status	Type	Card	Value
2010/12/17	14:30:21			2010/12/17	14:30:21	Alarm1 OK	Alarm	OK	1	1
2010/12/17	14:30:21			2010/12/17	14:30:21	Alarm2 OK	Alarm	OK	2	1
2010/12/17	14:30:21			2010/12/17	14:30:21	Alarm3 OK	Alarm	OK	3	1
2010/12/17	14:30:21			2010/12/17	14:30:21	Alarm4 OK	Alarm	OK	4	1

Content3

Alarm										
Date	Time	ACKDate	ACKTime	RTNDate	RTNTime	AlarmMessage	Status	Type	Card	Value
2010/12/17	14:30:21			2010/12/17	14:30:21	Alarm1 OK	Alarm	OK	1	1
2010/12/17	14:30:21			2010/12/17	14:30:21	Alarm2 OK	Alarm	OK	2	1
2010/12/17	14:30:21			2010/12/17	14:30:21	Alarm3 OK	Alarm	OK	3	1
2010/12/17	14:30:21			2010/12/17	14:30:21	Alarm4 OK	Alarm	OK	4	1

Content4

Alarm										
Date	Time	ACKDate	ACKTime	RTNDate	RTNTime	AlarmMessage	Status	Type	Card	Value
2010/12/17	14:30:21			2010/12/17	14:30:21	Alarm1 OK	Alarm	OK	1	1
2010/12/17	14:30:21			2010/12/17	14:30:21	Alarm2 OK	Alarm	OK	2	1
2010/12/17	14:30:21			2010/12/17	14:30:21	Alarm3 OK	Alarm	OK	3	1
2010/12/17	14:30:21			2010/12/17	14:30:21	Alarm4 OK	Alarm	OK	4	1

- *1- Click Switch1 to move from current screen to next screen.
- *2- Click Switch2 to move from current screen to previous screen.

Alarm Group

This template has an alarm group with following alarms:

Alarm1	BOOL	HiHi*	ON
Alarm2	BOOL	HiHi*	ON
Alarm3	BOOL	HiHi*	ON
Alarm4	INT	HiHi*	90
Alarm4	INT	Hi*	80
Alarm5	INT	Lo*	20
Alarm5	INT	LoLo*	10

Alarm Mode is Historical.

*HiHi – The HiHi alarm is triggered when the variable value goes above the HiHi value. The HiHi alarm is used to indicate a critical state.

*Hi – The Hi alarm is triggered when the variable value goes above the Hi value. The Hi alarm is used to indicate the maximum variable value.

*Lo – The Lo alarm is triggered when the variable value goes below the Lo value. The Lo alarm is used to the minimum variable value.

*LoLo – The LoLo alarm is triggered when the variable value goes below the LoLo value. The LoLo alarm is used to indicate a critical state.

Run Time Behavior

Runtime/Simulation of this template displays Alarm summary of Alarm Group1.

Alarm summary displays following details of an alarm: Alarm occurrence date and time, acknowledged date and time, alarm return date and time, Message, Type, Status, Condition, and Value

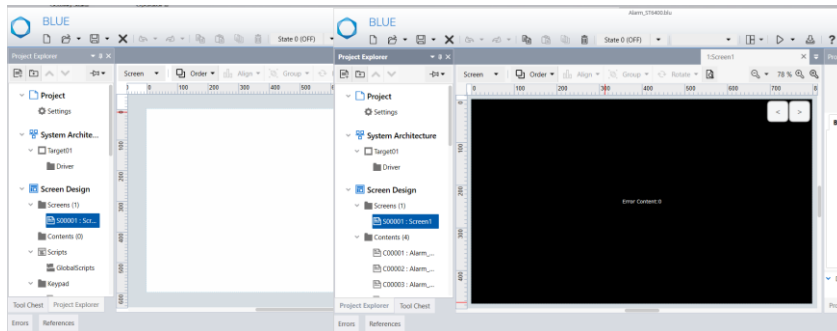
The switches on right/bottom of the screen is used to perform alarm functions.

- ACK - Acknowledges the selected alarm in the alarm summary.
- DEL - Deletes the selected alarms in the alarm summary from the alarm database.
- ACK ALL - Acknowledges the alarms in the selected alarm group.
- DEL ALL - Deletes the alarms in the selected alarm group from the alarm database.


Note: To display default alarm values, Script is written to change value for every 10sec. To display real time data, you can remove this script.

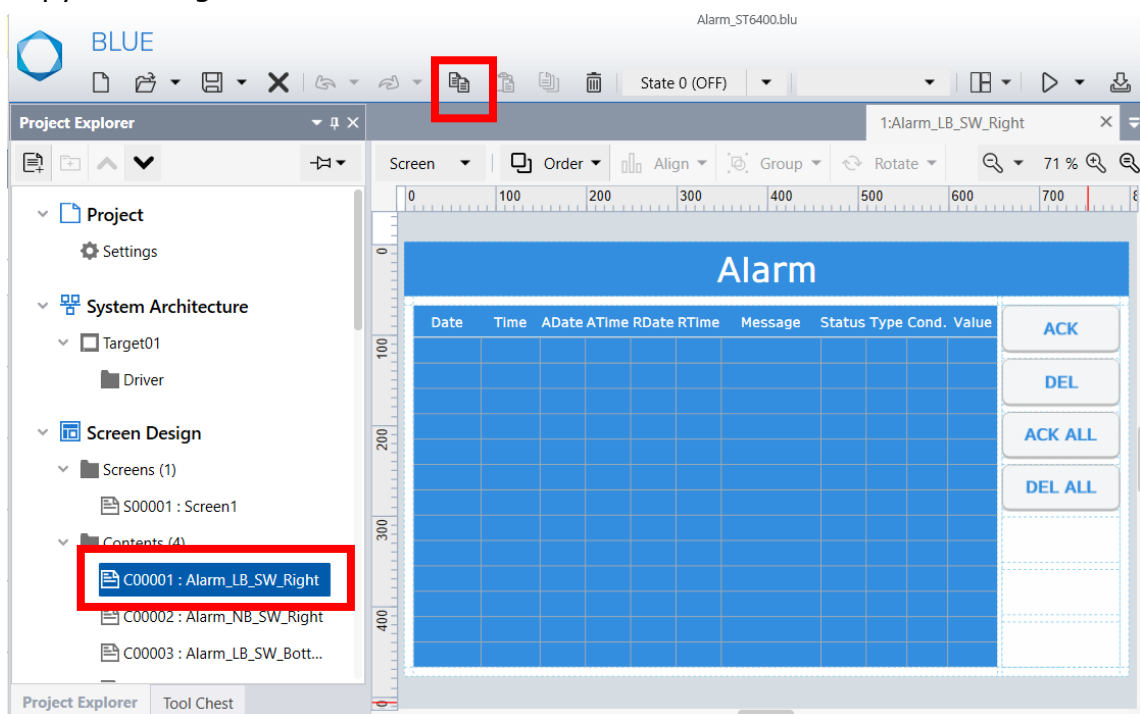
How to copy the objects to your project file

1. Open your project file and downloaded project file simultaneously.



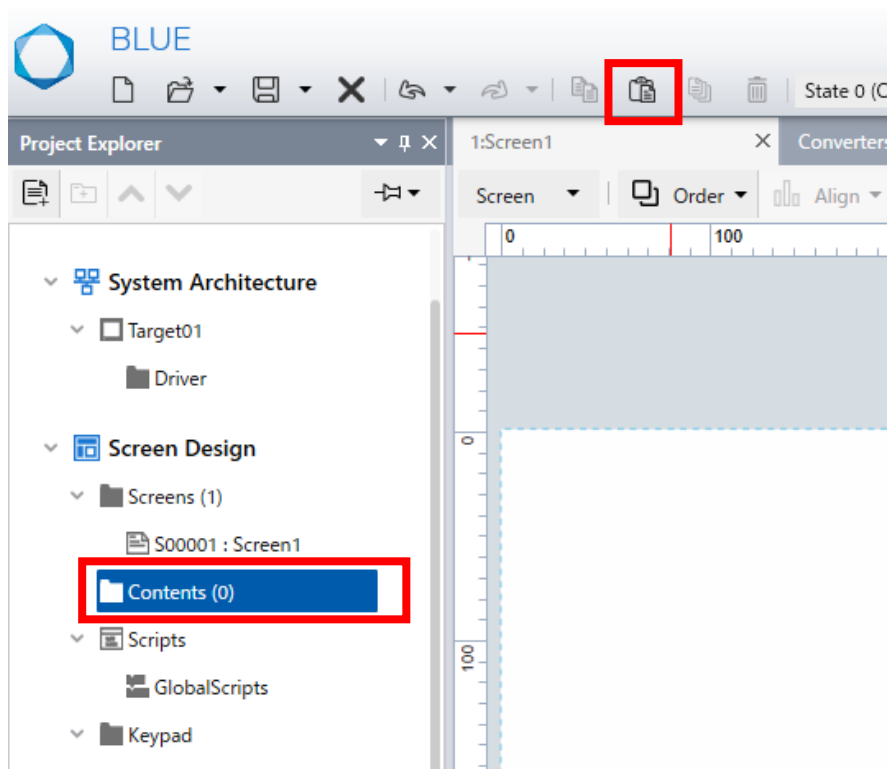
2. Open the downloaded project file.

Click the desired Content from "Contents" and copy the content using  copy icon in global Toolbar.



3. Open your project file.

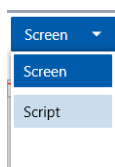
Click "Contents" and paste  icon in global Toolbar.




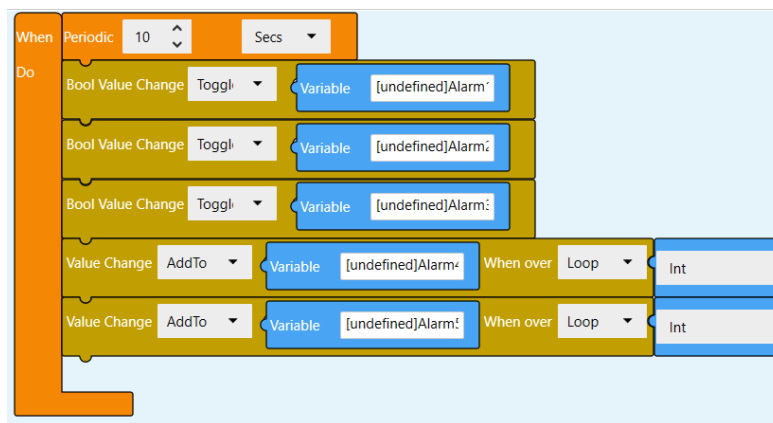
4. Select "Start Screen ID" and "OK". Copied content is successfully pasted in your project.



5. Select Scripts from drop-down in the top of the screen.

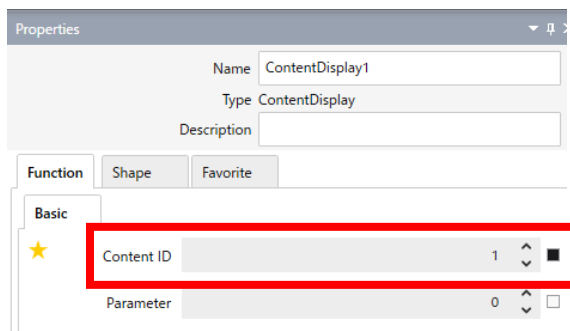


6. In Script editor, select the below logic. Click  icon in global toolbar.

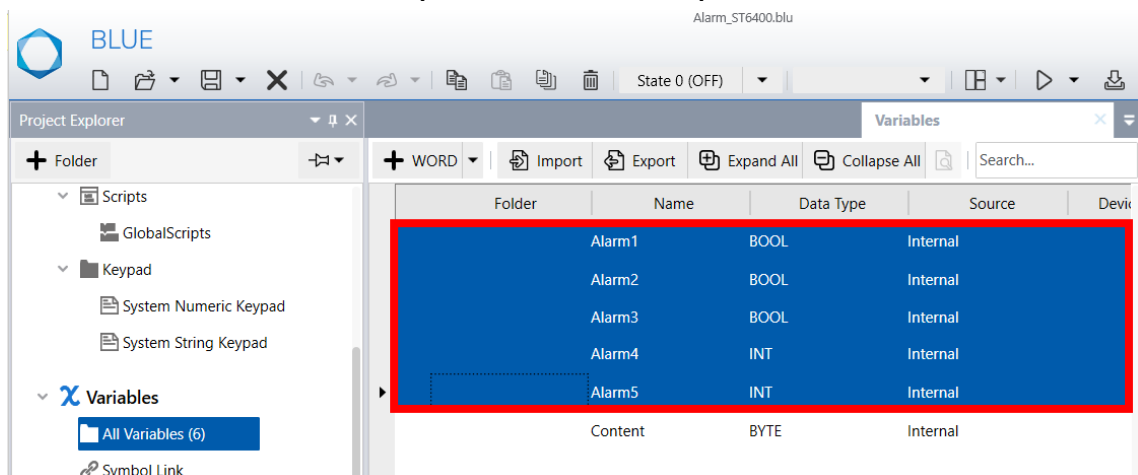


Note: This step is required if the real time data of alarm variable must be displayed.

7. Select "Screen" and place "Content Display" Layout object from "Tool Chest". In "Properties" window, select "Content ID".

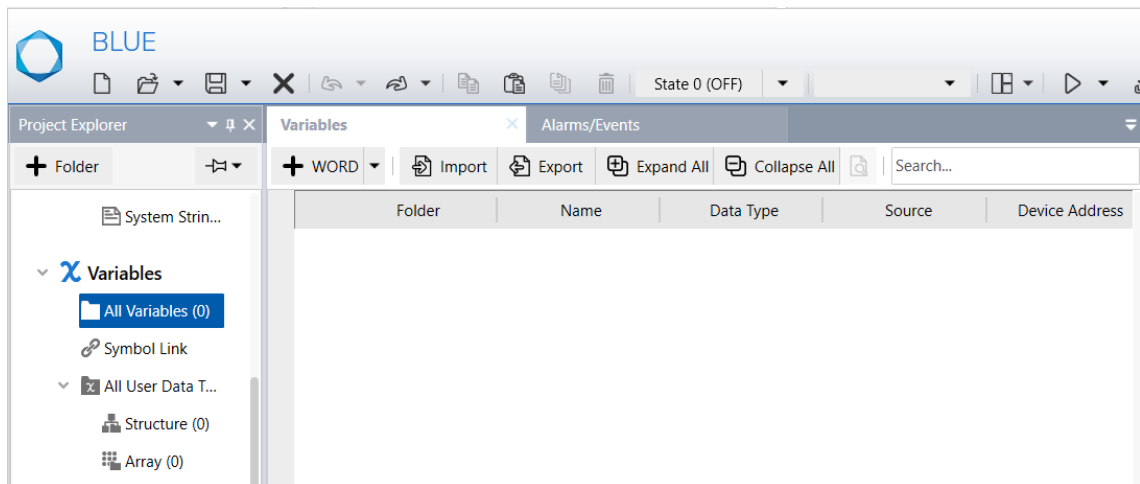


8. Open downloaded file and select "All Variables".
9. Select the row of Variables (Alarm 1 to Alarm5).



10. Click copy icon in global toolbar.
11. Open your project file and select "All Variables".
Click an existing variable or a blank Variable and click paste icon in

global toolbar.

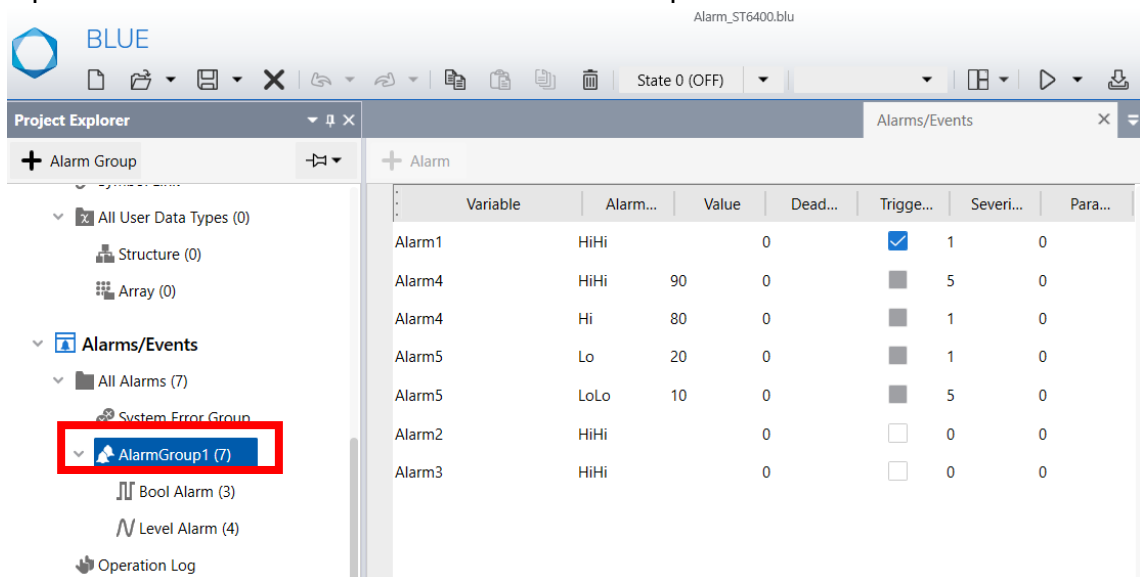


The copied variable is pasted in your project.

Note: You can also create your own variables to display in alarm.

12. Copy Alarm group.

Open downloaded file and select "AlarmGroup1".



13. Click copy icon in global toolbar.

14. Open your project file and select "All Alarms".

Click paste icon in global toolbar.

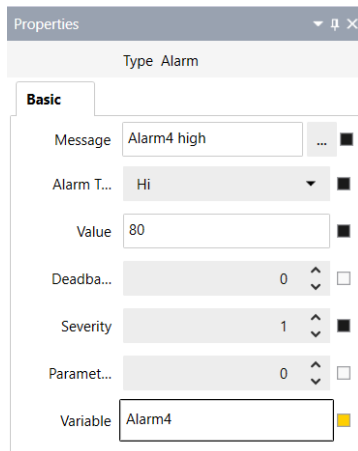
The copied Alarm Group is pasted in your project.

Note: If you have created new variables, then you must configure it in alarm group.

15. Configure Alarm Group.

Select the required row of alarm.

In "Properties" window, you can configure the alarm properties.

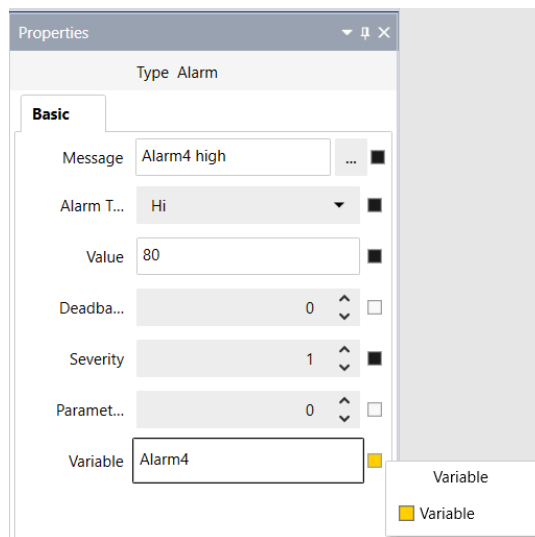


How to change Alarm variable

- I. Select "AlarmGroup1" in Project Explorer.
- II. Select the alarm in displayed row.
- III. In "Properties" window, click right side small square in Variable.



- IV. Select "Variable"



- V. Add new Integer/Bool variable or select existing Integer/Bool variable.

How to Add/Delete Alarms

To add an alarm,

- I. Select "AlarmGroup1" and select "Bool Alarm" or "Level Alarm" depending on variable type.

- II. Click  icon displayed in the top of alarm editor.

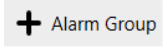
- III. Configure the added alarm.

To delete an alarm,

- I. Select "AlarmGroup1" and select "Bool Alarm" or "Level Alarm" depending on variable type.

- II. Select the alarm in displayed row.

- III. Click  icon in global toolbar.

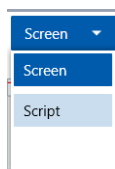
Note: You can also add new alarm group, by selecting  icon in project explorer.

How to Configure Switches

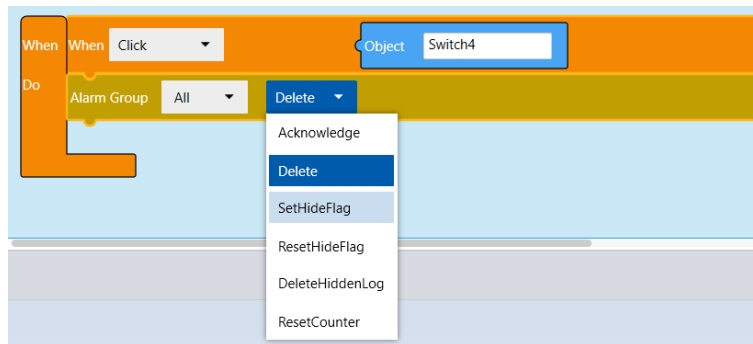
Basic alarm functions like ack, delete, ack all alarms and delete all alarms are added in the screen.

To add any new alarm function,

- I. Select "Content1" and place "Switch" from Parts in "ToolChest". Switch can be placed in right or bottom of the screen depending on the selected template.
- II. Select Scripts from drop-down in the top of the screen.



- III. In Script editor, add logic as shown below.




In Object block, edit the name of the newly added switch.

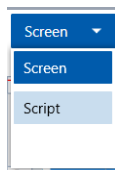
In drop-down, you can select the required alarm function.

To delete an alarm function,


- I. Select "Content1" and select the desired "Switch" in screen.

Click  icon in global toolbar.

- II. Select Scripts from drop-down in the top of the screen.



- III. In Script editor, select the logic related to deleted switch object.

Click  icon in global toolbar.