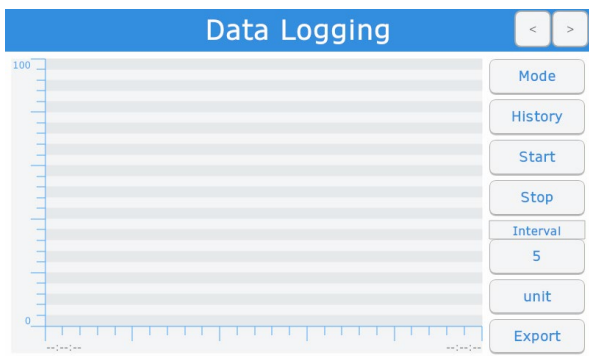


# Sample Templates Document: DataLogging.blu



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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.

 <b>DANGER</b>
<b>DANGER</b> indicates a hazardous situation which, if not avoided, <b>will result in</b> death or serious injury.
 <b>WARNING</b>
<b>WARNING</b> indicates a hazardous situation which, if not avoided, <b>could result in</b> death or serious injury.
 <b>CAUTION</b>
<b>CAUTION</b> indicates a hazardous situation which, if not avoided, <b>could result in</b> minor or moderate injury.
<b>NOTICE</b>
<b>NOTICE</b> 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.

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## About the Book

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### 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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Target: ST-6400WAD

Driver: None

BLUE version 3.1 or later

## **Template Overview**

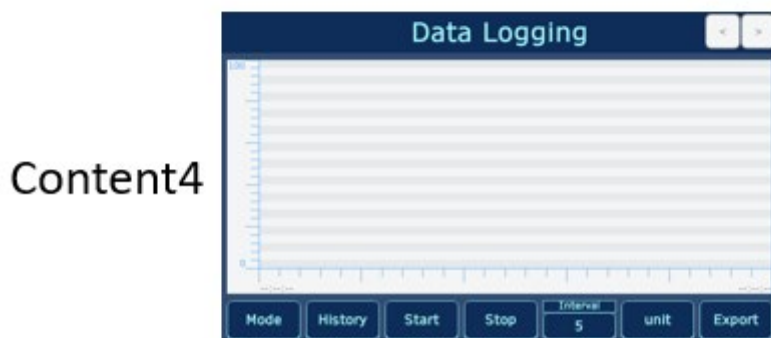
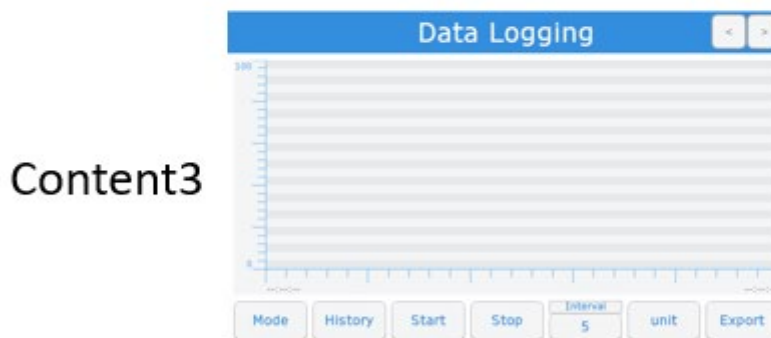
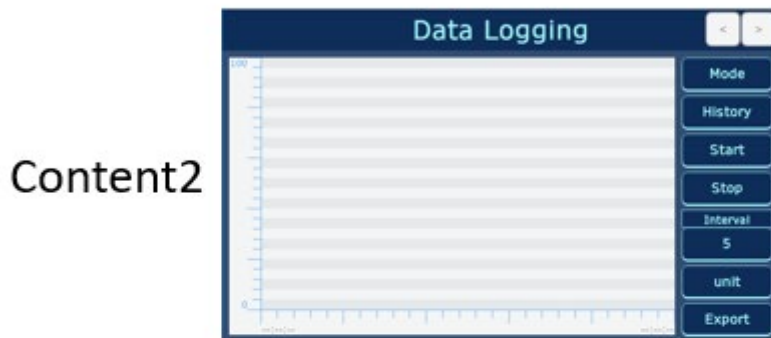
This template has a trend graph to plot the data of 5 variables (1 Bool and 4 Int).

Following are the configuration used in this template:

- Periodic logging with interlock to start and stop.
- Logging frequency is 10 sec.
- Exports data to USB storage in txt format.
- Trend functions added in screen are Mode, history, x axis interval, and export.
- Display of cursor label is enabled.

## Project structure

- On Screen1, 1 Content display (Layout Object) is placed with navigation switches at top to navigate between four contents.



\*1- Click Switch1 to move from current screen to next screen.

\*2- Click Switch2 to move from current screen to previous screen.

## Run Time Behavior

Runtime/Simulation of this template displays trend graph of the configured variable with data logging.

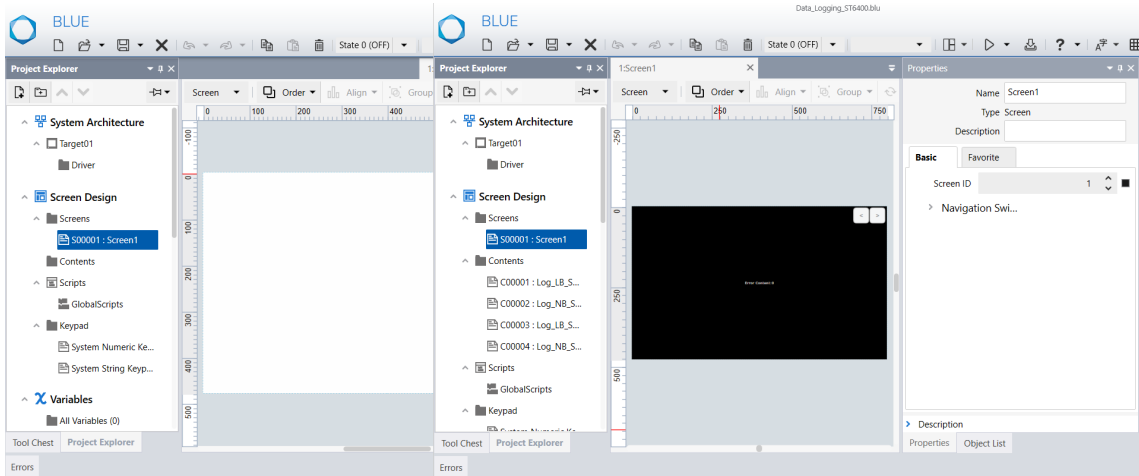
The switches on right/bottom of the screen is used to perform trend functions.

- Display Mode - Toggles the trend display mode between Full and Divide display mode.
- History - Toggles the mode between Historical and Real-time.
- Start - Starts the data logging.
- Stop - Stops the data logging.
- Interval - Enables editing x-axis interval value of the trend display.
- Unit - Toggles between time units for x-axis display.
- Export – Exports the logged data to USB storage in txt format.


Note: To load the simulation, added scripts to change the value for every 10 sec in Global scripts. When linked to actual value, this script can be removed. Similarly, variable range can also be configured.

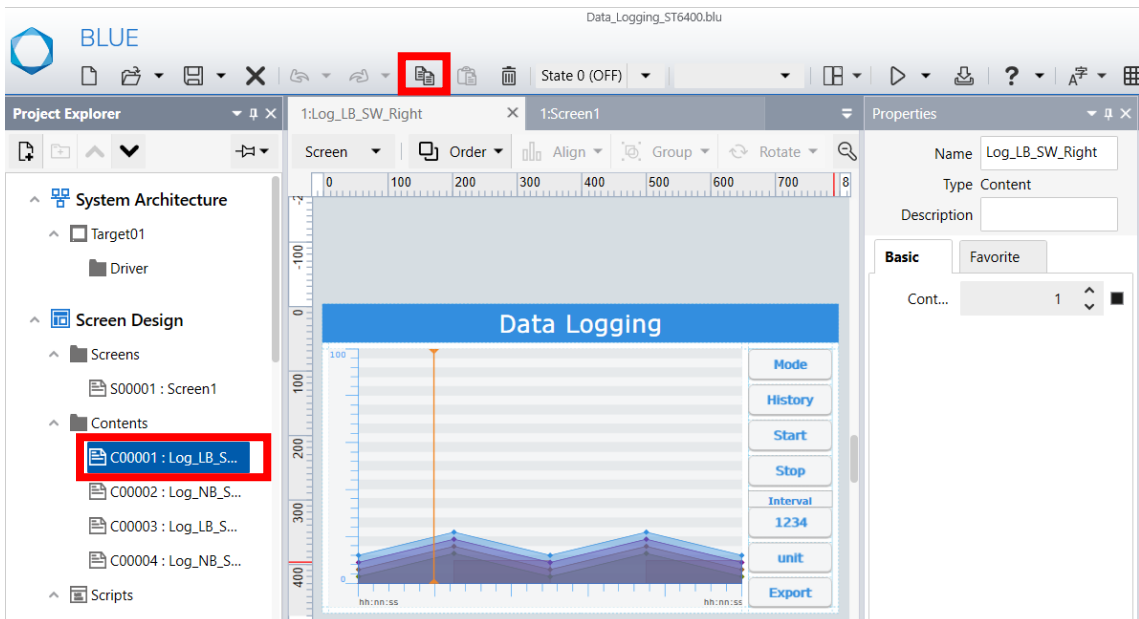
## How to copy the objects to your project file

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



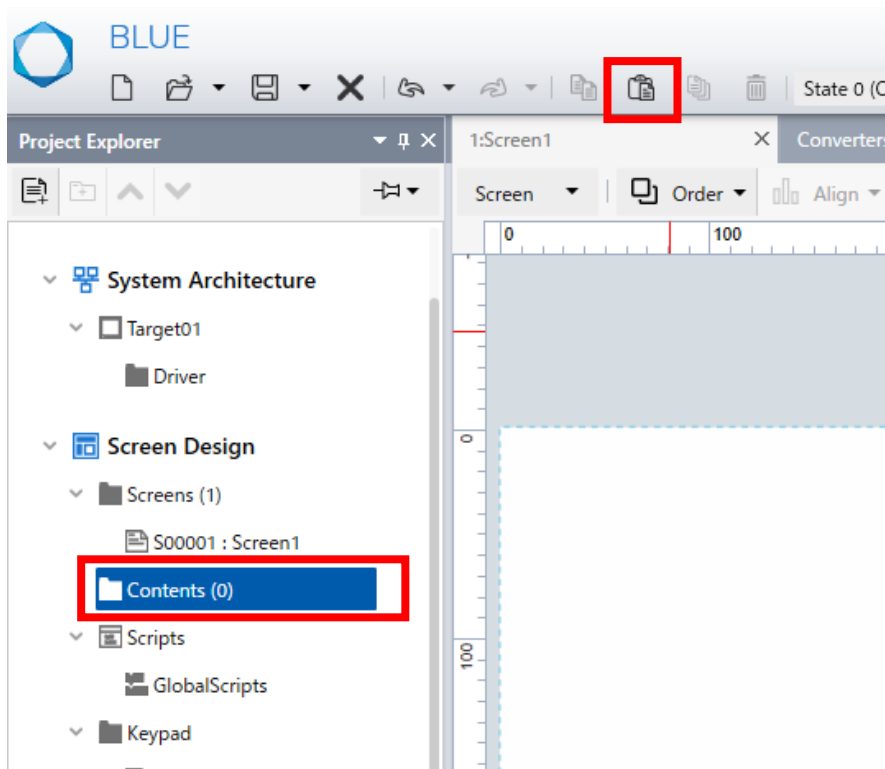
2. Open the downloaded project file.

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

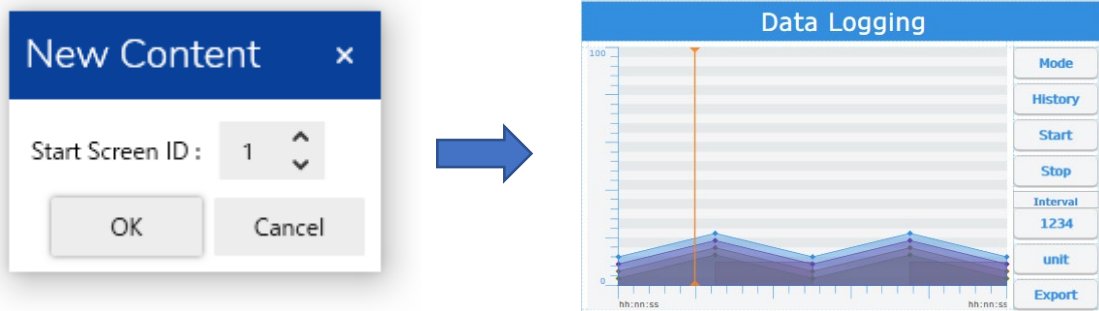


3. Open your project file.

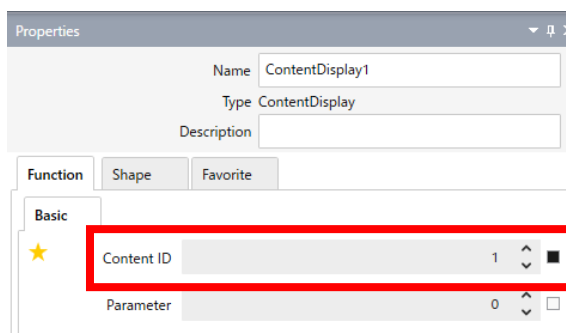
Click “Contents” and paste  icon in global Toolbar.



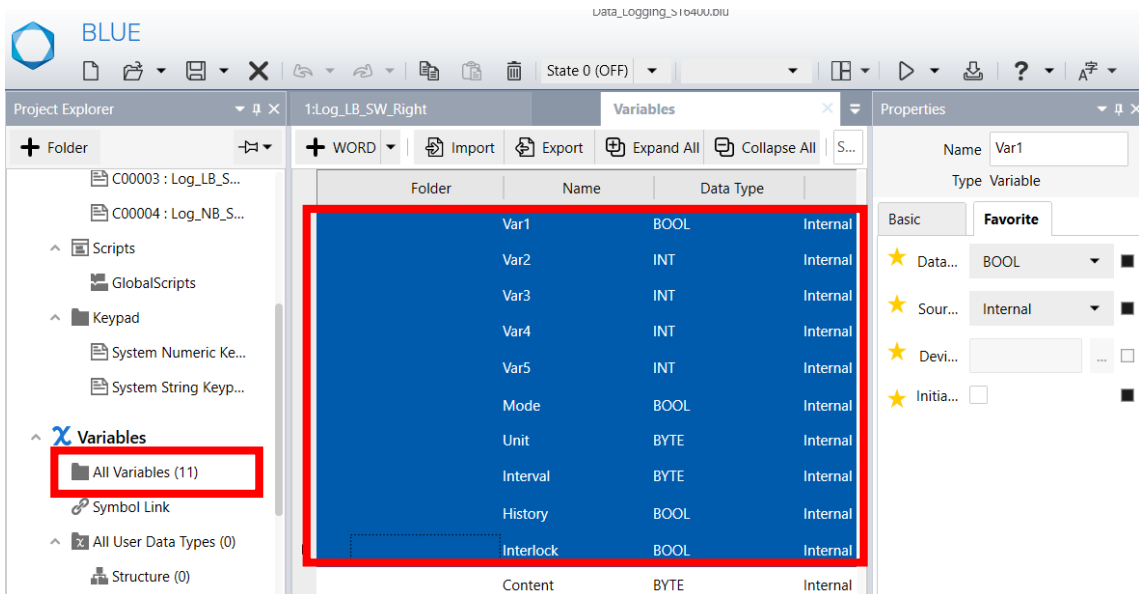
4. Select "Start Screen ID" and "OK". Copied content is successfully pasted in your project.



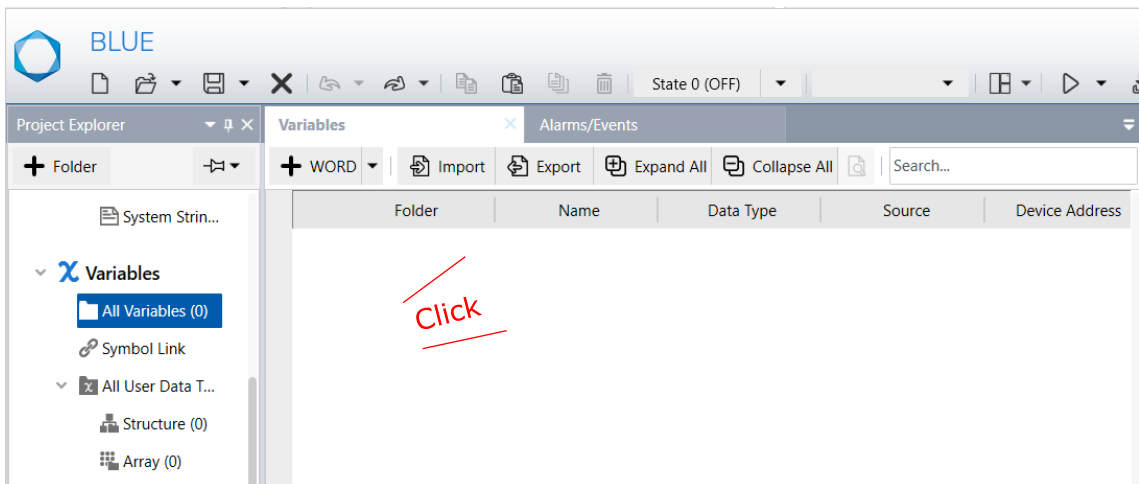
5. Select "Screen" and place "Content Display" Layout object from "Tool Chest". In "Properties" window, select "Content ID".



- Open the downloaded project file.  
Click “All Variables” and select the row of Variables as highlighted below.



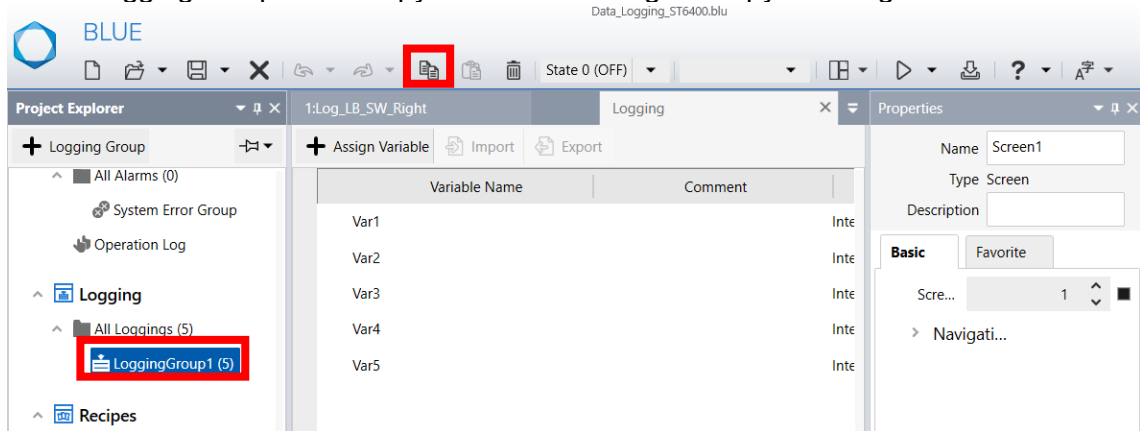
- Click copy icon in global toolbar.
- Open your project file and select “All Variables”.  
Click an existing variable or a blank Variable and click paste icon in global toolbar.



The copied variable is pasted in your project.  
Note: You can also create your own variables.

9. Open the downloaded project file.

Click “LoggingGroup1” and copy the content using  copy icon in global Toolbar.



10. Open your project file and select “All Loggings”.

Click paste icon in global toolbar.

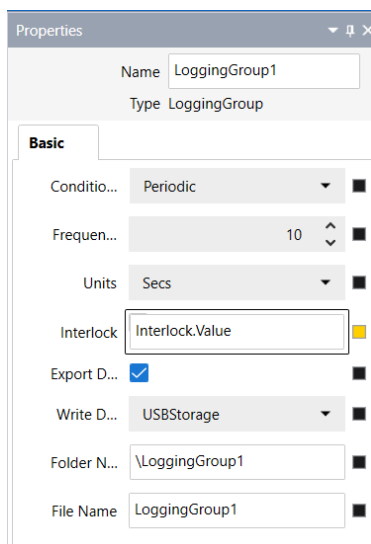
The copied Logging Group is pasted in your project.

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

11. Configure Logging Group.

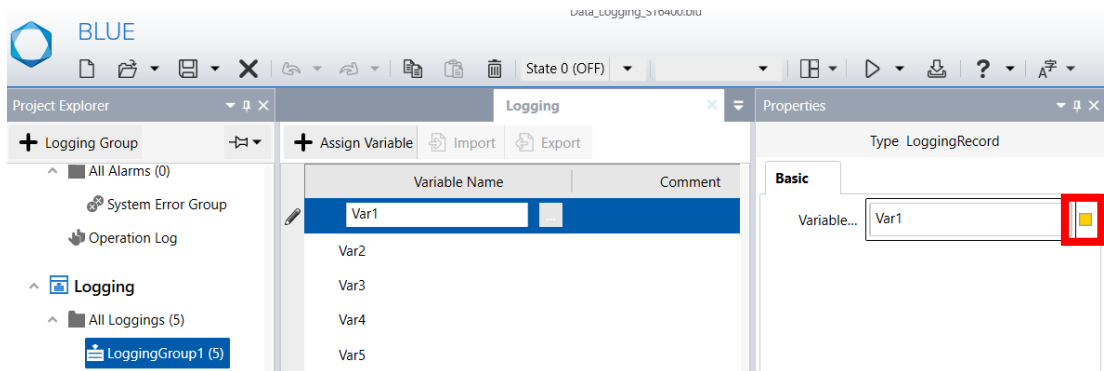
Select “LoggingGroup1”.

In “Properties” window, you can configure the log properties.

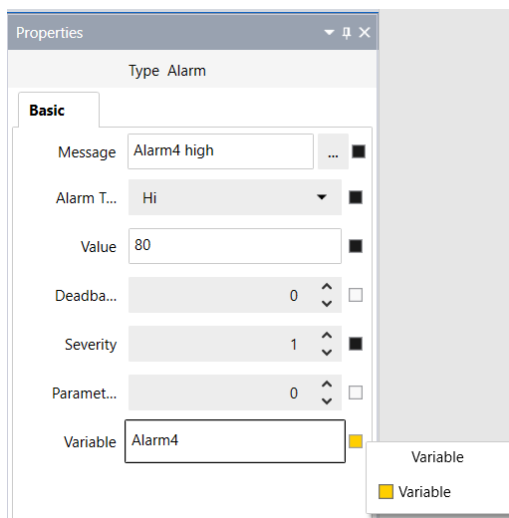


### How to change Logging variable

- I. Select “LoggingGroup1” in Project Explorer.
- II. Select the log 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.

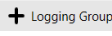
### How to Add/Delete a log variable

To add a log variable,

- I. Select “LoggingGroup1” in Project Explorer.
- II. Click  icon displayed in the top of editor.
- III. Configure the added variable.

To delete a log variable,

- I. Select “LoggingGroup1” in Project Explorer.
- II. Select the variable in displayed row.
- III. Click  icon in global toolbar.


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

## How to Remove Switch functions

Basic trend functions are added in the screen.

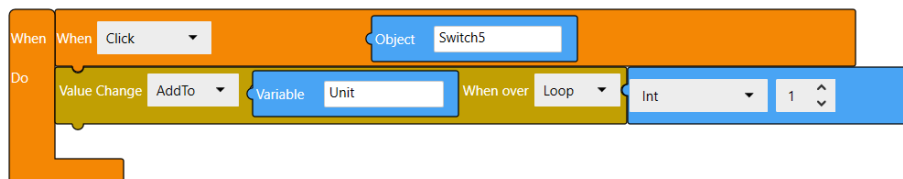
To remove the switch and its function,

- I. Select and delete the desired switch in right/bottom of the screen.
- II. Following are the changes to be made for each functionality:
  - a. For Mode, select the trend graph object and in properties window, Function>Basic>DisplayMode reset the binding (Click square icon in

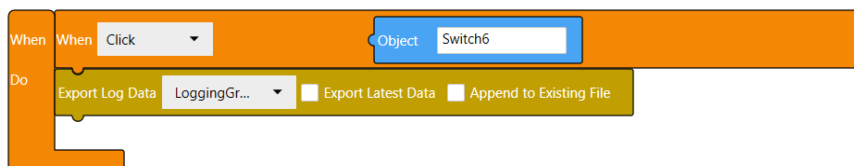
Display mode      Display...      Mode.Value       and select Reset) and select the required mode.

- b. For Start/Stop, select LoggingGroup1 and in properties window reset the binding of Interlock.
- c. For Interval, select the trend graph object and in properties window, Function>Basic>Interval reset the binding and select the required value.
- d. For Unit, select the trend graph object and in properties window, Function>Basic>Unit reset the binding and select the required unit.

And in scripts remove the below logic.



- e. For Export, remove the below logic in scripts.



And in “LoggingGroup1” properties window, uncheck the “Export Data”

Export...  field.

Note: You can also add new functionality by placing the switch in right/bottom of the screen and make respective changes in trend graph/scripts/logging group.