

Time Tags of Event Log

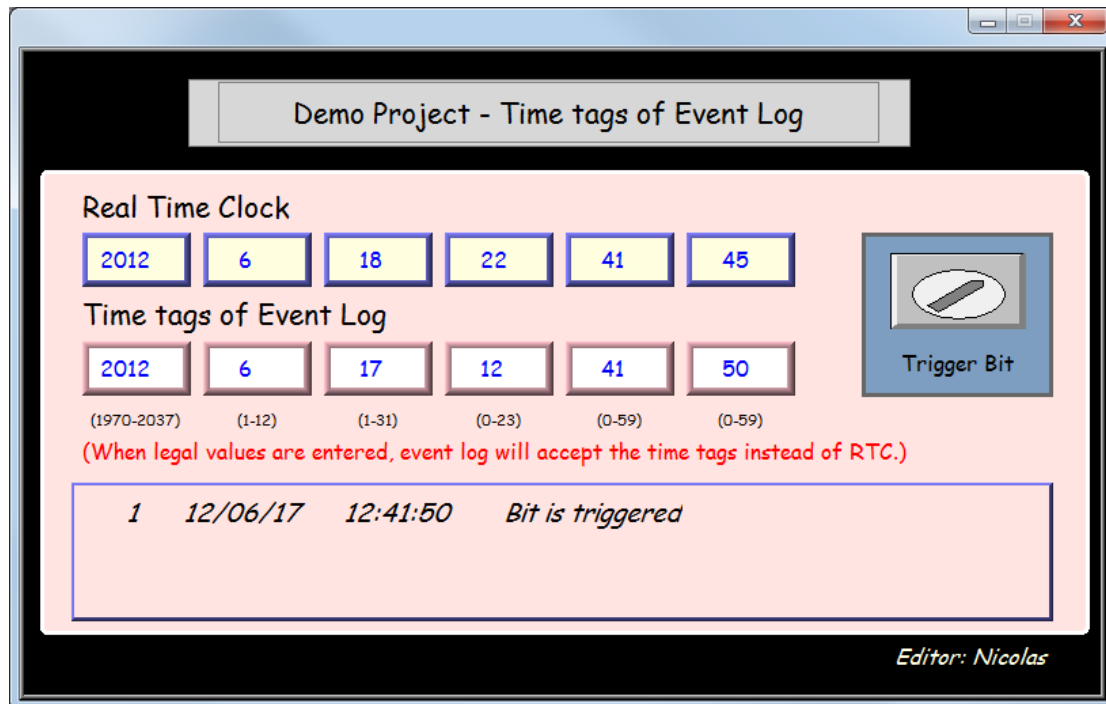
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1. Overview and Operation

Overview

This demo project introduces the usage of the system registers LW-9450 ~ LW-9455. Generally, Event Log time is gained from system RTC, but these registers can be used as time tags of Event Log.



Operation

When the values of LW-9450 ~ LW-9455 are illegal (or equal to 0), Event Log gain time from RTC.

The screenshot shows a software window titled "Demo Project - Time tags of Event Log". It contains a "Real Time Clock" section with six input boxes showing the values 2012, 6, 18, 22, 43, and 42. Below this is a "Time tags of Event Log" section with six input boxes, all of which contain the value 0. Each box has a range label below it: (1970-2037), (1-12), (1-31), (0-23), (0-59), and (0-59). To the right of these boxes is a "Trigger Bit" button with a pencil icon. Below the input boxes, a red text message reads: "(When legal values are entered, event log will accept the time tags instead of RTC.)". At the bottom of the window, there is a log table with two entries:

2	12/06/18	22:43:39	Bit is triggered
1	12/06/18	22:43:37	Bit is triggered

The editor's name "Editor: Nicolas" is displayed at the bottom right.



When using LW-9450 ~ LW-9455 as time tags, please enter legal values one by one.

This screenshot shows the same software window after the time tag input boxes have been updated with legal values. The "Real Time Clock" section remains unchanged with values 2012, 6, 18, 22, 43, and 42. The "Time tags of Event Log" section now shows the values 2012, 6, 17, 12, 2, and 4 in the input boxes, which are highlighted by a red rectangular border. The range labels below the boxes are the same as in the previous screenshot. The "Trigger Bit" button and the red text message are also present. The log table at the bottom remains the same, showing two entries. The editor's name "Editor: Nicolas" is at the bottom right.



As shown below, trigger the event after the legal values are entered, the system reads LW-9450 ~ LW-9455 as time tag of Event Log.

Demo Project - Time tags of Event Log

Real Time Clock

2012	6	18	22	48	47
------	---	----	----	----	----

Time tags of Event Log

2012	6	17	12	2	4
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(1970-2037) (1-12) (1-31) (0-23) (0-59) (0-59)

(When legal values are entered, event log will accept the time tags instead of RTC.)

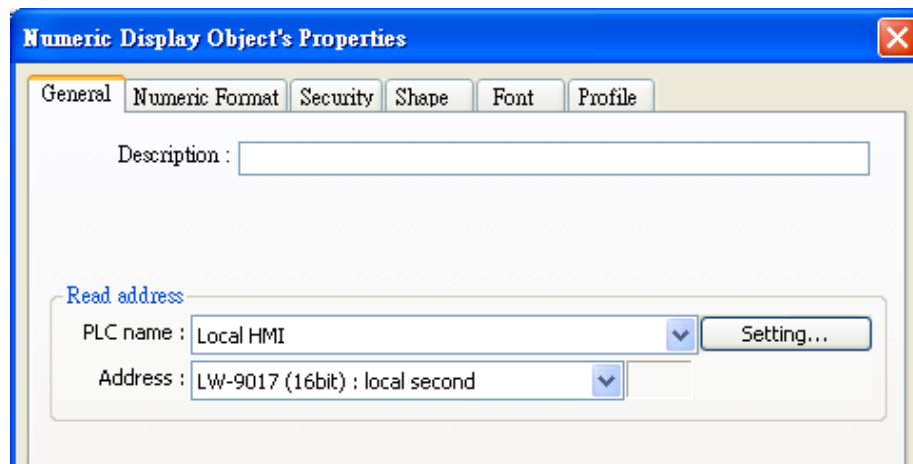
3	12/06/17	12:02:04	Bit is triggered
2	12/06/18	22:43:39	Bit is triggered
1	12/06/18	22:43:37	Bit is triggered

Trigger Bit

Editor: Nicolas

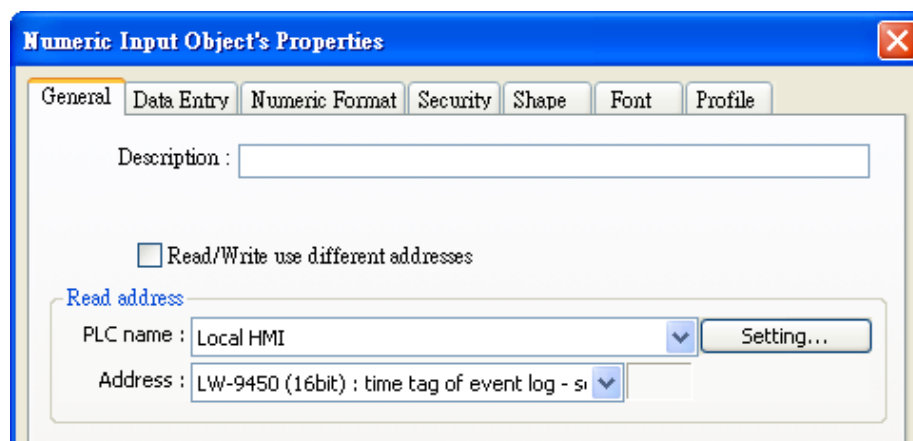
2. Setting up the Screen

1. Create 6 Numeric Display Objects, respectively set system registers from LW-9017 ~ LW-9022 to be read addresses. The following takes LW-9017 as an example.



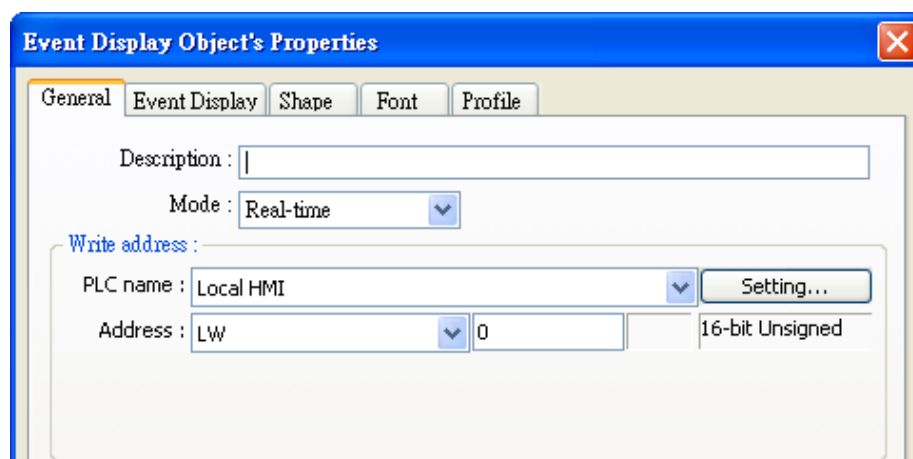
Please refer to the demonstration above to set the rest 5 Numeric Display Objects.

2. Create 6 Numeric Input Objects, respectively set system registers from LW-9450 ~ LW-9455 to be read addresses. The following takes LW-9450 as an example.



Please refer to the demonstration above to set the rest 5 Numeric Input Objects.

3. Create an Event Display Object; in General tab set Mode to Real-time, write address to LW-0 (adjust as required).



Event Display Object's Properties

General | Event Display | Shape | Font | Profile

Description :

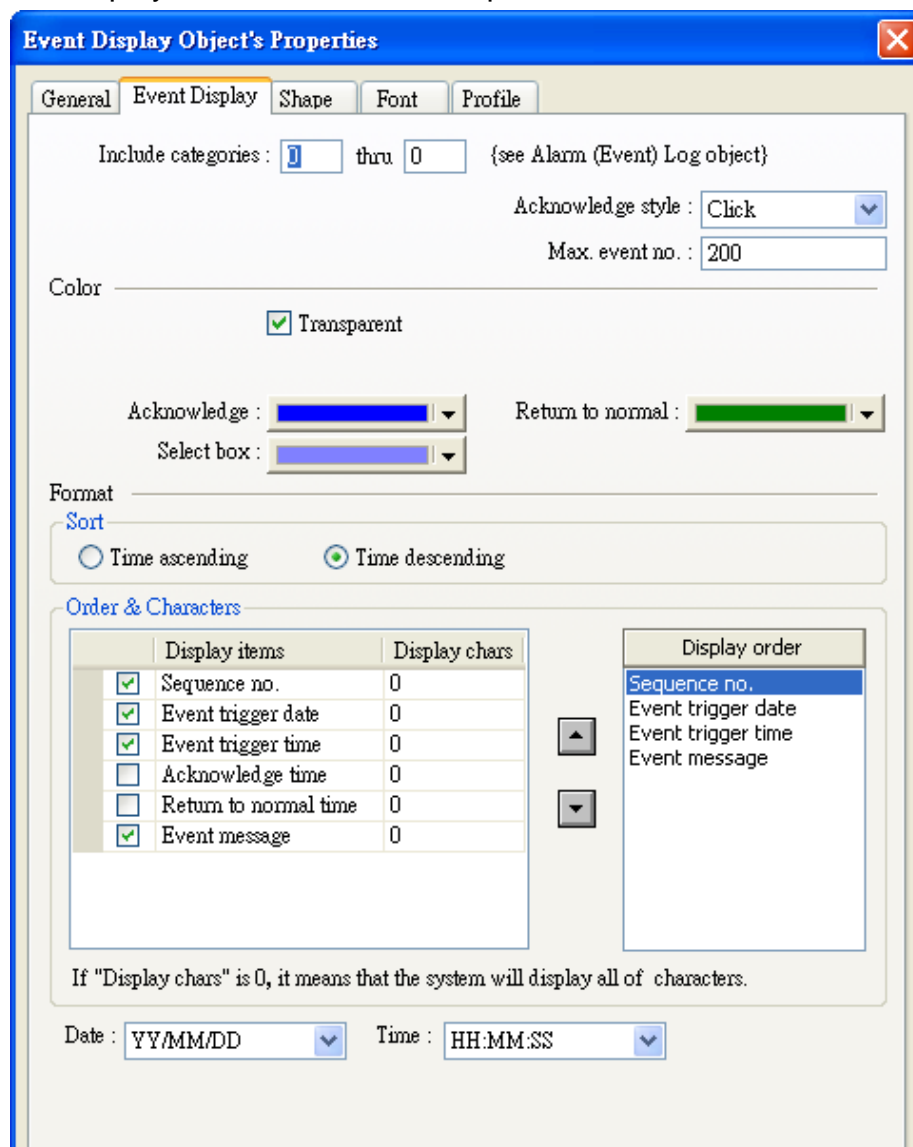
Mode : Real-time

Write address :

PLC name : Local HMI

Address : LW 0 16-bit Unsigned

Set Event Display tab base on actual requirements.



Event Display Object's Properties

General | Event Display | Shape | Font | Profile

Include categories : 1 thru 0 {see Alarm (Event) Log object}

Acknowledge style : Click

Max. event no. : 200

Color ☒ Transparent

Acknowledge : Return to normal :

Select box :

Format

Sort ☐ Time ascending ☒ Time descending

Order & Characters

Display items	Display chars
<input checked="" type="checkbox"/> Sequence no.	0
<input checked="" type="checkbox"/> Event trigger date	0
<input checked="" type="checkbox"/> Event trigger time	0
<input type="checkbox"/> Acknowledge time	0
<input type="checkbox"/> Return to normal time	0
<input checked="" type="checkbox"/> Event message	0

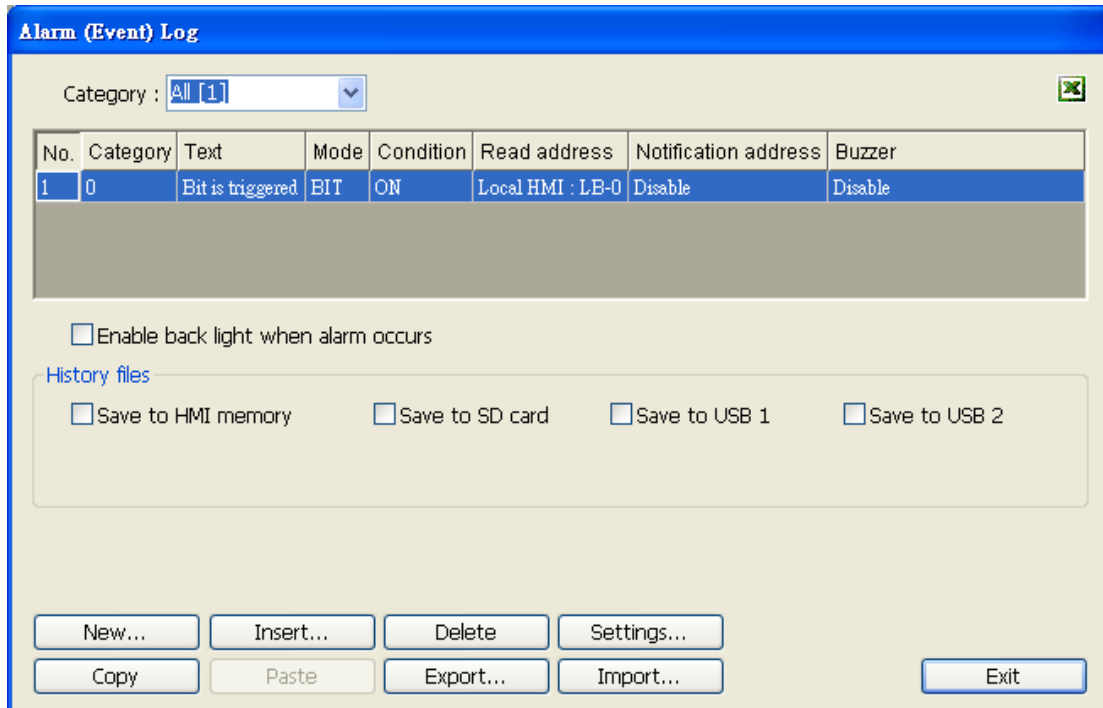
Display order

- Sequence no.
- Event trigger date
- Event trigger time
- Event message

If "Display chars" is 0, it means that the system will display all of characters.

Date : YY/MM/DD Time : HH:MM:SS

4. Predefine an event in Event Log; place the relevant trigger conditions on the setting dialog.



Category : All [1]

No.	Category	Text	Mode	Condition	Read address	Notification address	Buzzer
1	0	Bit is triggered	BIT	ON	Local HMI : LB-0	Disable	Disable

☐ Enable back light when alarm occurs

History files

☐ Save to HMI memory ☐ Save to SD card ☐ Save to USB 1 ☐ Save to USB 2

5. Last and the most important, in System Parameter Settings / General tab select "Use LW9450~9455 as time tags of event logs".

System Parameter Settings
✕

Font

Extended Memory

Printer/Backup Server

Device

Model

General

System Setting

Security

Fast selection button

Attribute : Disable

Screen saver

Back light saver : None minute(s)

Screen saver : None minute(s)

Options

Startup window no. : 10. WINDOW_010

Common window : Above base window Object layout : Nature

☒ RW_A enabled

Event

☒ Use LW9450~9455 as time tags of event logs

BIN

Extra. no. of events : 0

Keyboard

50. Keypad 1 - Integer
51. Keypad 2 - Integer
52. Keypad 3 - Integer
53. Keypad 4 - Integer
54. Keypad 5 - Integer

↑
↓

Caret color :

Selection color :

Project protection (i series only)

☐ Enable

3. Addresses

The addresses of objects used in this demonstration are listed below.

Object	Address	Object ID	Description
Window 4			
Numeric Display	LW-9022	ND_0	RTC-year
	LW-9021	ND_1	RTC-month
	LW-9020	ND_2	RTC-day
	LW-9019	ND_3	RTC-hour
	LW-9018	ND_4	RTC-minute
	LW-9017	ND_5	RTC-second
Numeric Input	LW-9455	NE_0	Time tag of event log-year
	LW-9454	NE_1	Time tag of event log-month
	LW-9453	NE_2	Time tag of event log-day
	LW-9452	NE_3	Time tag of event log-hour
	LW-9451	NE_4	Time tag of event log-minute
	LW-9450	NE_5	Time tag of event log-second
Set Bit	LB_0	TS_0	Event trigger condition
Event Display	LW-0	ED_0	Display real-time events