

# DIView

Alarm

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# Outline

- Alarm overview
- Use of alarm window
- Alarm management tool
- Alarm configuration settings
- Right-click function of alarm group

# Purpose

In this chapter, you will learn...

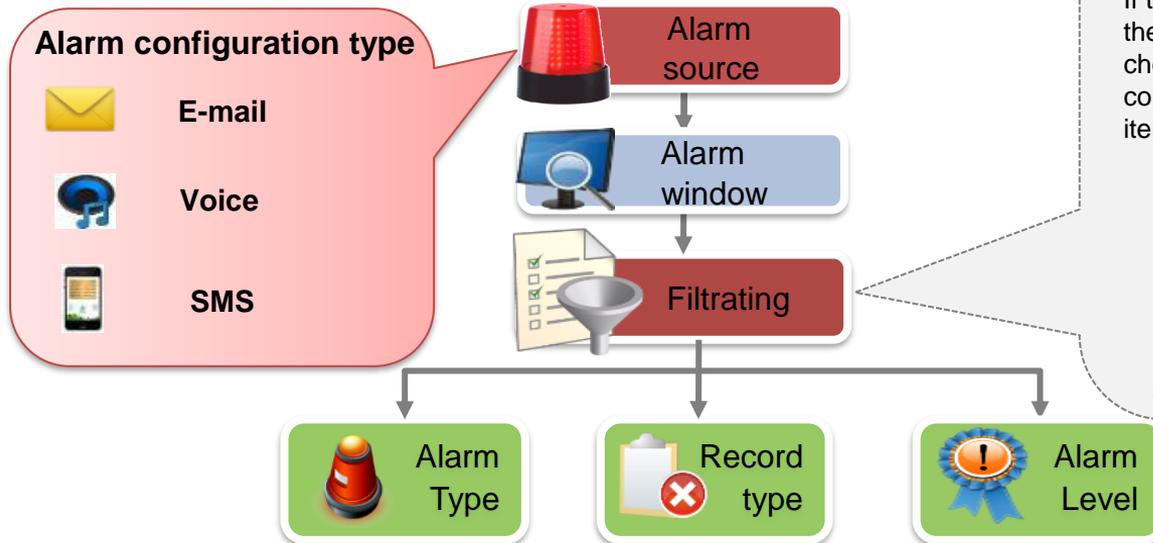
- ... The basic operation and management of the alarm
- ... The function of the alarm group

# Outline

- **Alarm overview**
- Use of alarm window
- Alarm management tool
- Alarm configuration settings
- Right-click function of alarm group

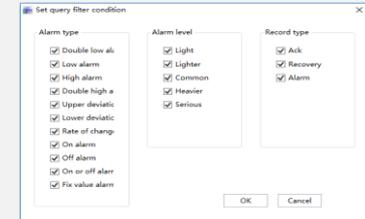
## ➤ DIAView Alarm function

- The alarm is a reminder when the system-related variable data exceeds the warning value, in order to achieve the early warning of danger in the production process and the prevention of equipment failure.
- The alarm plays an irreplaceable role in the safety of the system in the industrial automation control system.



### Alarm window filtering function:

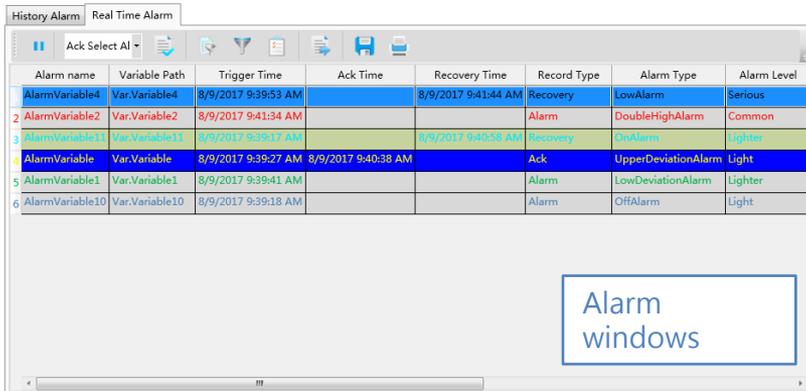
If the user wants to view the alarm record with the highest alarm level, you only need to check the serious option on the filter configuration page, and uncheck the other items.



Alarm window filtering configuration page

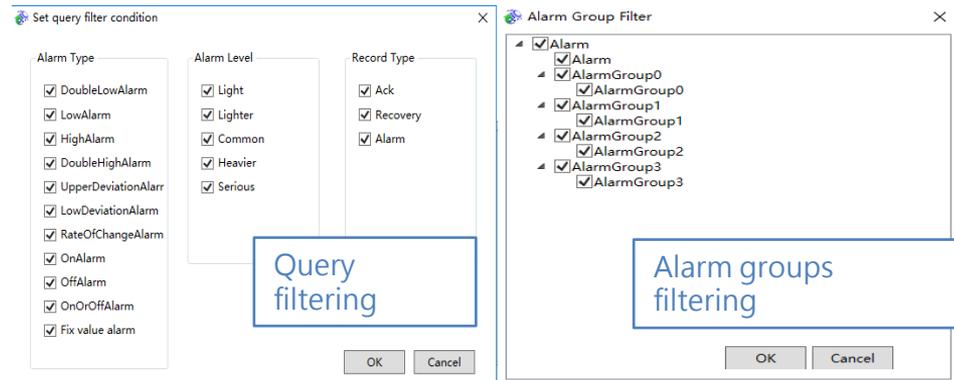
## ➤ Reliable Alarm Management Tool :

- The alarm window records **alarm name, variable path, triggering time, response time, recovery time, record type, type of alarm and alarm level alarm data**, and can undertake filtering, filtering, grouping of the data query, display Settings, save, print and export data to report or Excel, etc.



The screenshot shows the 'History Alarm' tab of the software. It features a table with columns for Alarm name, Variable Path, Trigger Time, Ack Time, Recovery Time, Record Type, Alarm Type, and Alarm Level. A blue box labeled 'Alarm windows' is overlaid on the bottom right of the table area.

Alarm name	Variable Path	Trigger Time	Ack Time	Recovery Time	Record Type	Alarm Type	Alarm Level
AlarmVariable4	Var.Variable4	8/9/2017 9:39:53 AM		8/9/2017 9:41:44 AM	Recovery	LowAlarm	Serious
2 AlarmVariable2	Var.Variable2	8/9/2017 9:41:34 AM			Alarm	DoubleHighAlarm	Common
3 AlarmVariable11	Var.Variable11	8/9/2017 9:39:17 AM		8/9/2017 9:40:58 AM	Recovery	DoubleAlarm	Lighter
AlarmVariable	Var.Variable	8/9/2017 9:39:27 AM	8/9/2017 9:40:38 AM		Ack	UpperDeviationAlarm	Light
5 AlarmVariable1	Var.Variable1	8/9/2017 9:39:41 AM			Alarm	LowDeviationAlarm	Lighter
6 AlarmVariable10	Var.Variable10	8/9/2017 9:39:18 AM			Alarm	OffAlarm	Light

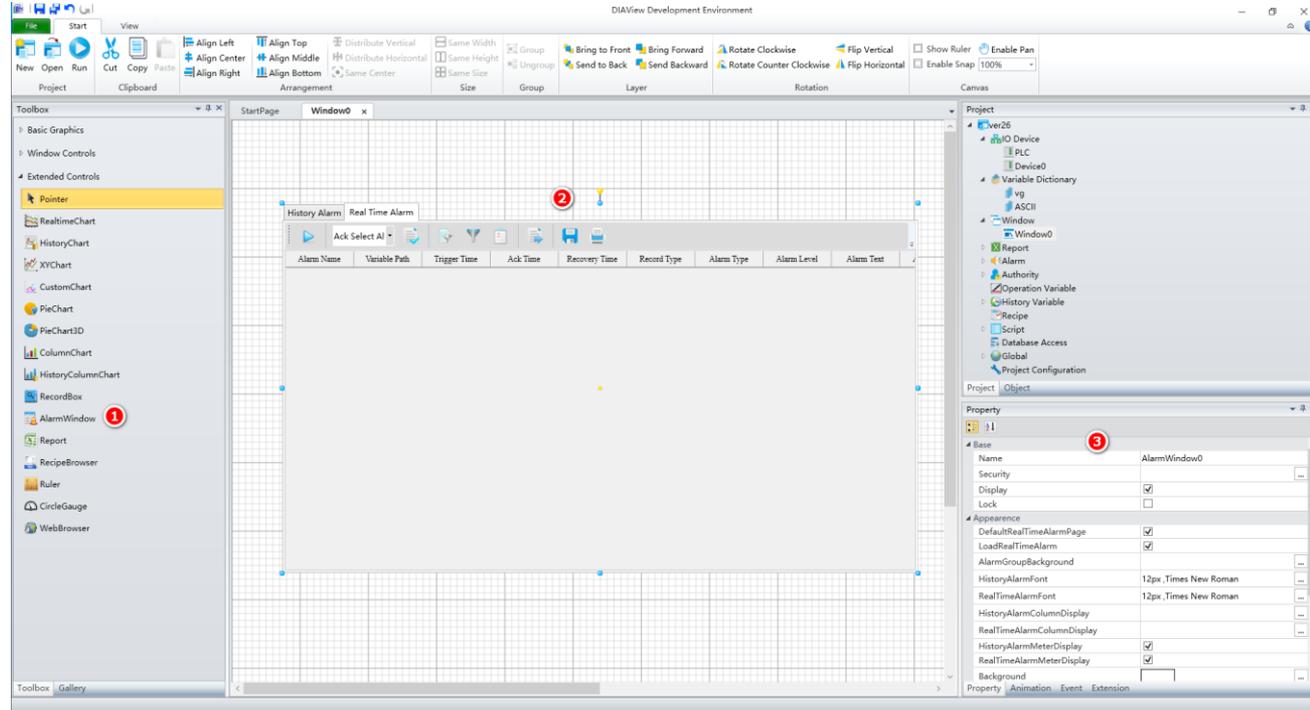


The image shows two overlapping dialog boxes. The 'Set query filter condition' dialog has three sections: 'Alarm Type' with a list of alarm types (DoubleLowAlarm, LowAlarm, HighAlarm, DoubleHighAlarm, UpperDeviationAlarm, LowDeviationAlarm, RateOfChangeAlarm, OnAlarm, OffAlarm, OnOrOffAlarm, Fix value alarm) and checkboxes; 'Alarm Level' with checkboxes for Light, Lighter, Common, Heavier, and Serious; and 'Record Type' with checkboxes for Ack, Recovery, and Alarm. A blue box labeled 'Query filtering' is overlaid on the bottom right of this dialog. The 'Alarm Group Filter' dialog shows a tree view of alarm groups: Alarm, AlarmGroup0, AlarmGroup1, AlarmGroup2, and AlarmGroup3, all with checkboxes. A blue box labeled 'Alarm groups filtering' is overlaid on the bottom right of this dialog.

- Alarm overview
- **Use of alarm window**
- Alarm management tool
- Alarm configuration settings
- Right-click function of alarm group

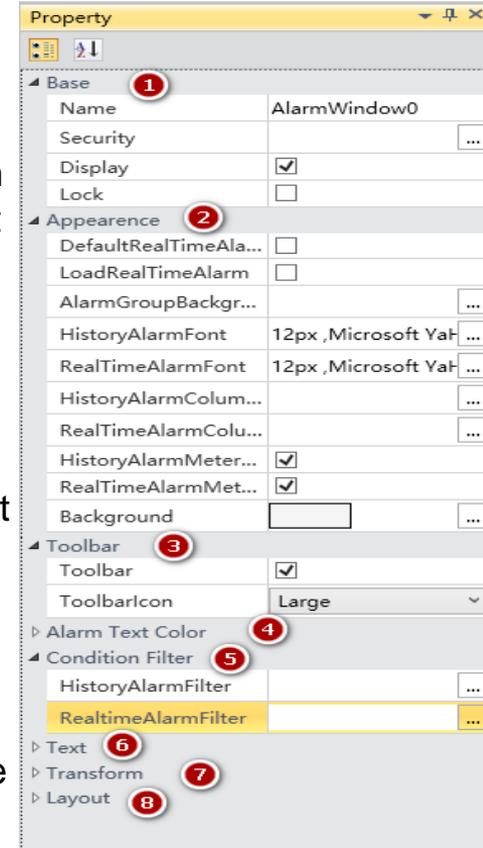
## ➤ Create a alarm window

- ① Click the tool to set the alarm window
- ② Drag to the desired position on the canvas
- ③ Configure alarm window properties



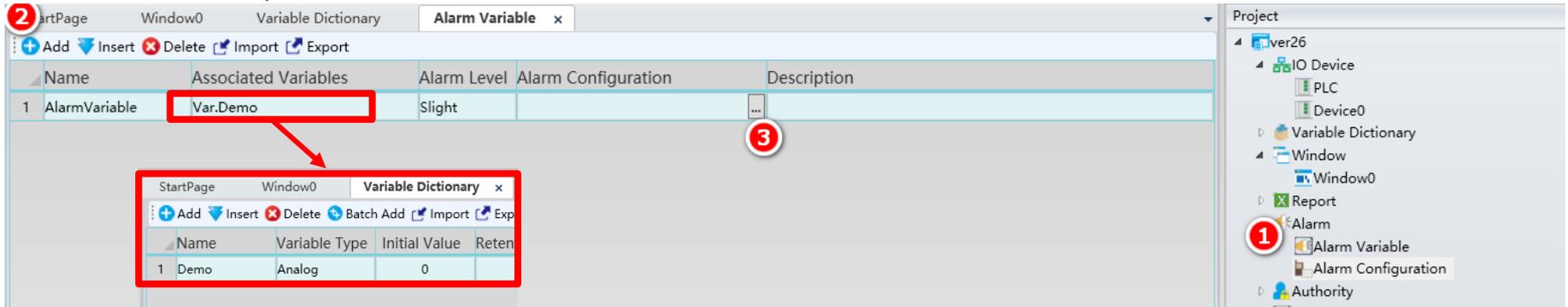
## ➤ Alarm Properties

- ① **Name:** Basic properties, same as other control graphics
- ② **Appearance:** The appearance of the alarm window includes setting the default display real-time alarm page, loading real-time alarm data, alarm group background color settings, real-time and historical alarm data font format, filtering and filtering real-time and historical alarm groups, whether to display real-time and historical alarm columns and alarms Window background color
- ③ **Toolbar:** The toolbar contains whether to display the toolbar and the toolbar size display
- ④ **Alarm color setting:** the required color can be set according to different types of alarms
- ⑤ **Condition Filter:** real-time and historical alarm data according to type
- ⑥ **Text:** Alarm window prompts text information
- ⑦ **Transform:** Contains the center point of the alarm window control
- ⑧ **Layout:** The size and position of the alarm window in the canvas can be adjusted by numerical value



## ➤ Create the alarm variable

- ① Select “**Alarm Variable**” Button
- ② Creating alarm variables: click the “**Add**” button in the window to add alarm variables; the system will give a preset name
- ③ **Associate variable:** Click the button in the variable storage cell and select the system variable to associate (only analog value and digital value type variables can be used to set alarms)



The screenshot shows the software interface with the 'Alarm Variable' window open. The 'Add' button is highlighted with a red circle and the number 2. The 'Variable Dictionary' window is also open, showing a table with columns: Name, Variable Type, Initial Value, and Reten. The 'Demo' variable is highlighted with a red box and the number 1. A red arrow points from the 'Var.Demo' cell in the 'Alarm Variable' window to the 'Demo' variable in the 'Variable Dictionary' window. The 'Alarm Variable' window has a table with columns: Name, Associated Variables, Alarm Level, Alarm Configuration, and Description. The 'Alarm Variable' window has a table with columns: Name, Associated Variables, Alarm Level, Alarm Configuration, and Description. The 'Alarm Variable' window has a table with columns: Name, Associated Variables, Alarm Level, Alarm Configuration, and Description. The 'Alarm Variable' window has a table with columns: Name, Associated Variables, Alarm Level, Alarm Configuration, and Description.

Name	Associated Variables	Alarm Level	Alarm Configuration	Description
1 AlarmVariable	Var.Demo	Slight		

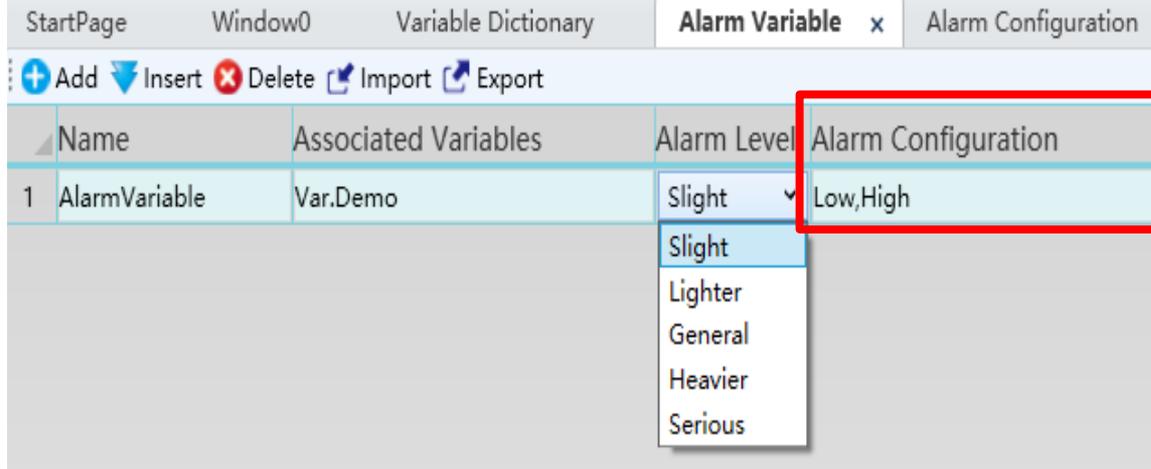
Name	Variable Type	Initial Value	Reten
1 Demo	Analog	0	

## ➤ Alarm level:

- Click the button and a menu will appear for you to select a level.

## ➤ Alarm configuration:

- Click the button in the alarm configuration storage cell and the alarm configuration window will appear; the system will perform related configurations according to the variable type



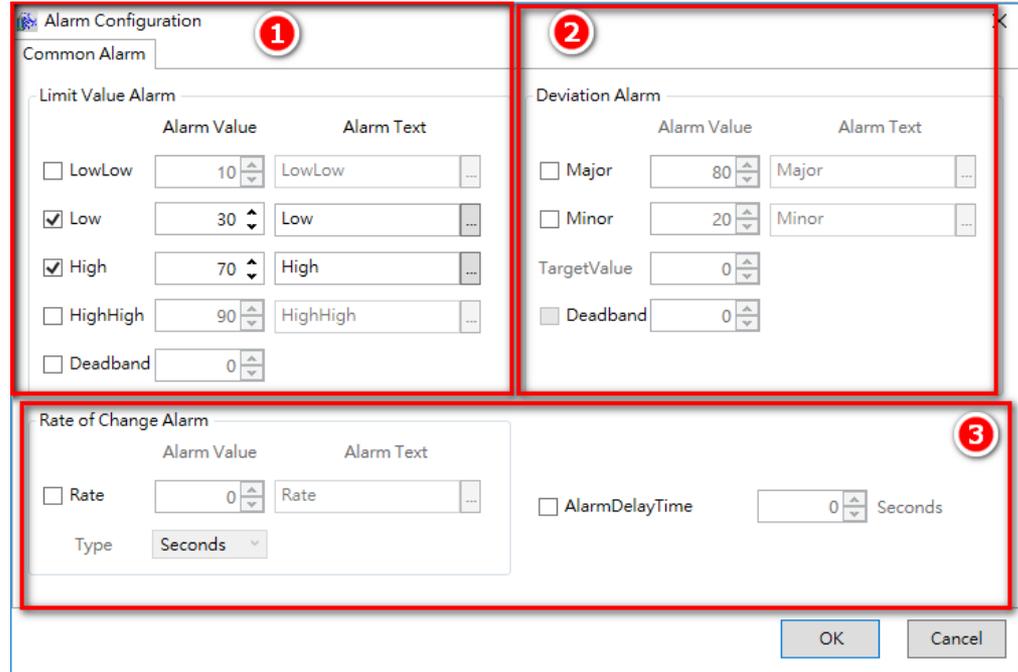
The screenshot shows a software interface for configuring alarm variables. At the top, there are tabs for 'StartPage', 'Window0', 'Variable Dictionary', 'Alarm Variable' (selected), and 'Alarm Configuration'. Below the tabs is a toolbar with icons for '+ Add', 'Insert', 'Delete', 'Import', and 'Export'. The main area contains a table with the following data:

	Name	Associated Variables	Alarm Level	Alarm Configuration
1	AlarmVariable	Var.Demo	Slight	Low,High

A red box highlights the 'Alarm Configuration' cell for the first row, which contains the text 'Low,High'. A dropdown menu is open for the 'Alarm Level' column, showing options: Slight, Lighter, General, Heavier, and Serious.

## ➤ Alarm Configuration:

- ① **Common Alarm:**  
The alarm generated when the value of the analog value exceeds the value of the alarm threshold set.
- ② **Deviation alarms:**  
This is the alarm that occurs when the ratio of the analog value to the deviation target value fluctuation exceeds the changing range set.
- ③ **Rate of change alarm:**  
This is the alarm that occurs when the change rate of the analog value exceeds the value set for a period, which means that the alarm that will occur when the variable value changes too quickly.



The screenshot shows the 'Alarm Configuration' window with three main sections highlighted by red boxes and numbered 1, 2, and 3:

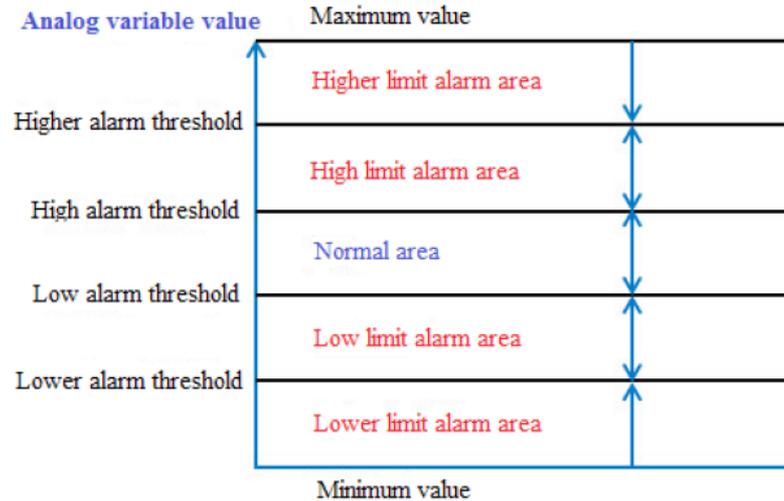
- Section 1 (Common Alarm):** Includes a 'Limit Value Alarm' table with columns for 'Alarm Value' and 'Alarm Text'. It has checkboxes for 'LowLow' (value 10), 'Low' (value 30, checked), 'High' (value 70, checked), 'HighHigh' (value 90), and 'Deadband' (value 0).
- Section 2 (Deviation Alarm):** Includes a 'Deviation Alarm' table with columns for 'Alarm Value' and 'Alarm Text'. It has checkboxes for 'Major' (value 80) and 'Minor' (value 20). It also has a 'TargetValue' field (value 0) and a 'Deadband' checkbox (value 0).
- Section 3 (Rate of Change Alarm):** Includes a 'Rate of Change Alarm' table with columns for 'Alarm Value' and 'Alarm Text'. It has a 'Rate' checkbox (value 0) and a 'Type' dropdown menu set to 'Seconds'. There is also an 'AlarmDelayTime' checkbox (value 0) with a 'Seconds' label.

At the bottom right of the window are 'OK' and 'Cancel' buttons.

For the calculation method of the rate of change, refer to the user manual 11.3

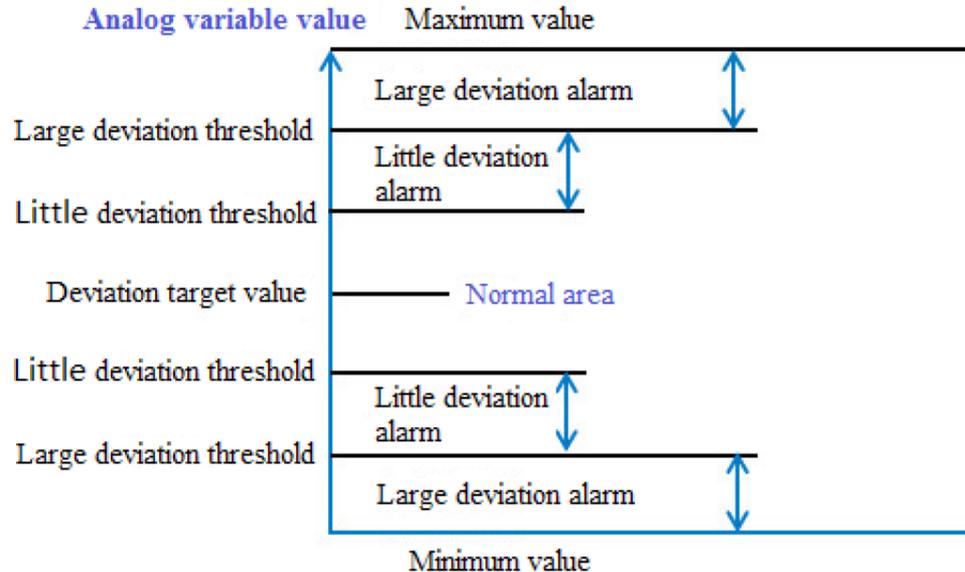
## ➤ Overage alarm:

- There are 4 alarm thresholds for over-limit alarms: **extremely low, low, high, extremely high**.
- The alarm threshold value should be set between the maximum value and minimum value of the variable.
- Its alarm threshold and principles are as shown in the figure below:



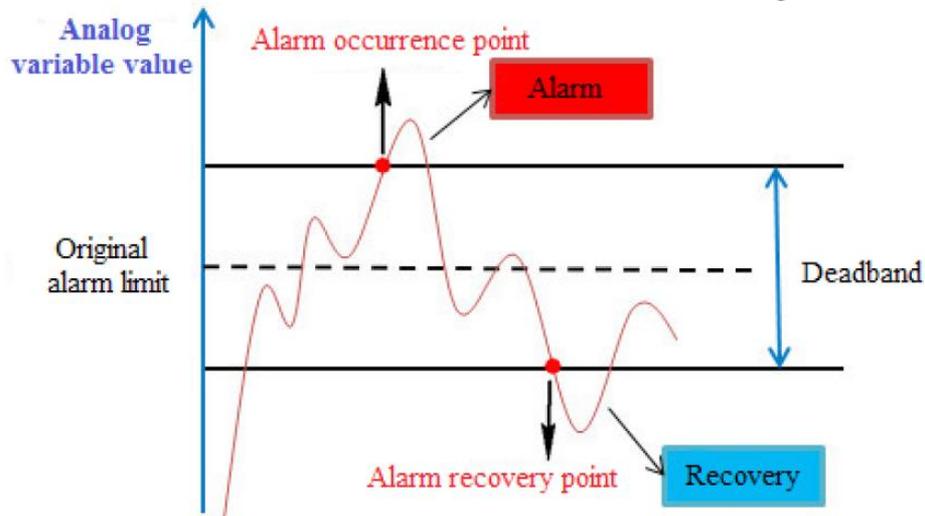
## ➤ Deviation alarms:

- Deviation alarms are divided into two types: **Large deviation** and **Little deviation**.
- When the fluctuating value exceeds the Large/Little deviation range, Large deviation alarms and Little deviation alarms will occur respectively. Also, only one deviation alarm will occur for each variable.



## ➤ Dead band:

- The effect of the dead band is to prevent unrealistic alarms from being generated when the variable value changes frequently between the original maximum and minimum alarm threshold by adding a threshold value for the maximum and minimum limit of the alarm, changing the original alarm threshold from a single line to an alarm threshold band.
- The principles of the alarm dead band are as shown in the figure below:



## ➤ Example of alarm configuration :

- ① We set the value controlled by alarm configuration between 30 and 70.
- ② So when the value is 25, it shows the low alarm, and when the value go up to 80, it recovers from the low alarm status. But it's over 70, so go into the high alarm status.
- ③ Finally, when the value go back to 50, it clears all the alarm.

History Alarm
Real Time Alarm

⏸ Ack Select Al...
🔍
📄
🔄
💾
🖨

Alarm Name	Variable Path	Trigger Time	Ack Time	Recovery Time	Record Type	Alarm Type	Alarm Level
Alarm AlarmVariable	Var Demo	4/23/2019 9:42:11 AM			Alarm	Low Alarm	Slight

---

History Alarm
Real Time Alarm

⏸ Ack Select Al...
🔍
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🖨

Alarm Name	Variable Path	Trigger Time	Ack Time	Recovery Time	Record Type	Alarm Type	Alarm Level
Alarm AlarmVariable	Var Demo	4/23/2019 9:46:18 AM			Alarm	High Alarm	Slight
Alarm AlarmVariable	Var Demo	4/23/2019 9:42:11 AM		4/23/2019 9:46:18 AM	Recovery	Low Alarm	Slight

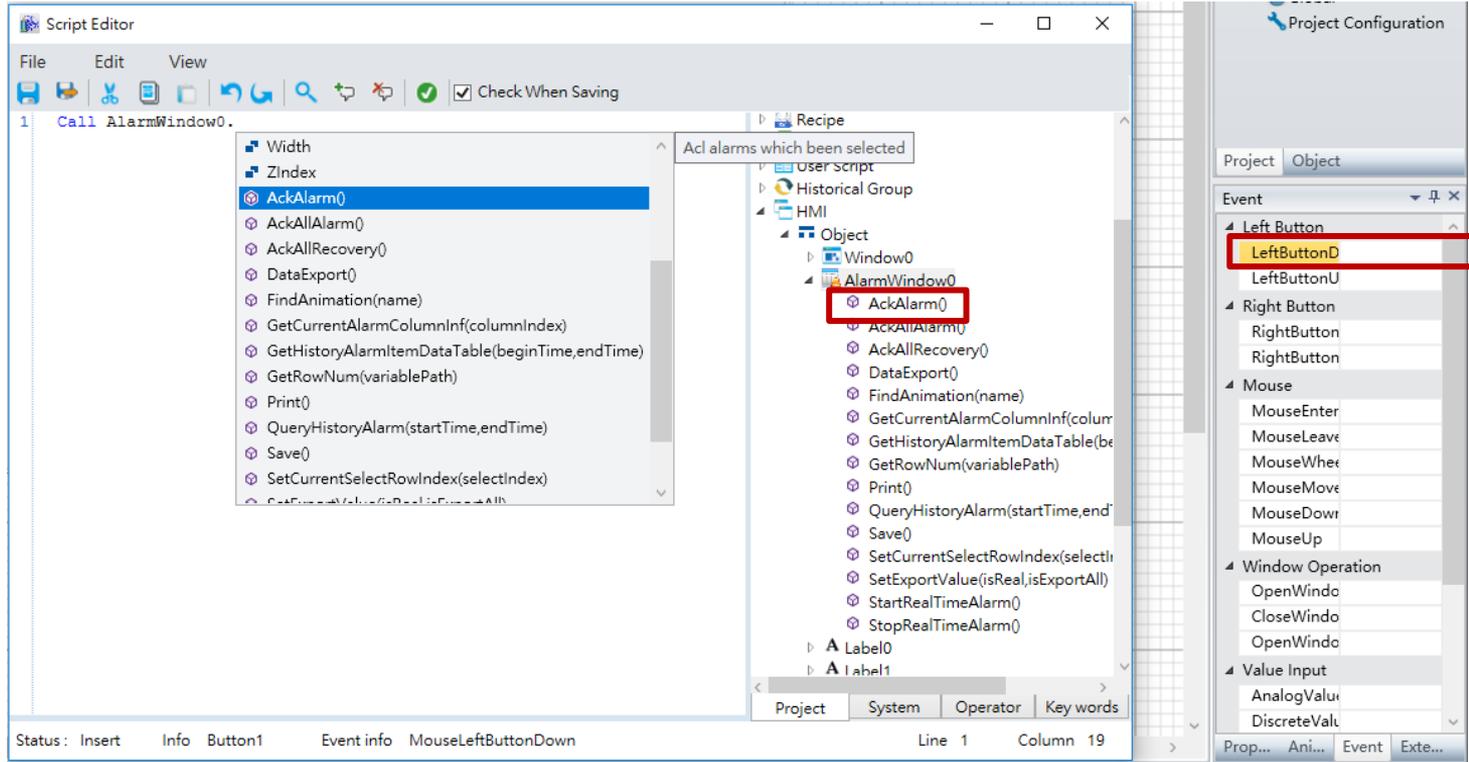
History Alarm
Real Time Alarm

⏸ Ack Select Al...
🔍
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🖨

Alarm Name	Variable Path	Trigger Time	Ack Time	Recovery Time	Record Type	Alarm Type	Alarm Level
Alarm AlarmVariable	Var Demo	4/23/2019 9:46:18 AM		4/23/2019 9:47:21 AM	Recovery	High Alarm	Slight
Alarm AlarmVariable	Var Demo	4/23/2019 9:42:11 AM		4/23/2019 9:46:18 AM	Recovery	Low Alarm	Slight

## ➤ Script example of Ack an alarm button :

- ① Configure the response alarm script by pressing the left button



The screenshot displays the Script Editor and Project Configuration windows. The Script Editor window shows a script with the following code:

```
1 Call AlarmWindow0.
```

The Project Configuration window shows the following structure:

- Project
- Object
  - Window0
    - AlarmWindow0
      - AckAlarm() (highlighted with a red box)
      - AckAllAlarm()
      - AckAllRecovery()
      - DataExport()
      - FindAnimation(name)
      - GetCurrentAlarmColumnInf(columnIndex)
      - GetHistoryAlarmItemDataTable(beginTime,endTime)
      - GetRowNum(variablePath)
      - Print()
      - QueryHistoryAlarm(startTime,endTime)
      - Save()
      - SetCurrentSelectRowIndex(selectIndex)
      - SetExportValue(isReal,isExportAll)
      - StartRealTimeAlarm()
      - StopRealTimeAlarm()

The Project Configuration window also shows the Event list with the following items:

- Left Button
  - LeftButtonD (highlighted with a red box)
  - LeftButtonU
- Right Button
  - RightButton
  - RightButtonU
- Mouse
  - MouseEnter
  - MouseLeave
  - MouseWheel
  - MouseMove
  - MouseDown
  - MouseUp
- Window Operation
  - OpenWindow
  - CloseWindow
  - OpenWindow
- Value Input
  - AnalogValue
  - DiscreteValue

The status bar at the bottom of the Script Editor window shows: Status: Insert Info Button1 Event info MouseLeftButtonDown Line 1 Column 19

➤ **Script example of Ack an alarm button :**

② **Trigger an alarm during operation**

Alarm Name	Variable Path	Trigger Time	Ack Time	Recovery Time	Record Type	Alarm Type	Alarm Level	Alarm Text	A
Alarm.low	Var.Variable	7/2/2020 11:17:5	1/1/0001 12:00:C	1/1/0001 12:00:C	Alarm	Low Alarm	Slight	Low	
Alarm.high	Var.Variable	7/2/2020 11:17:5	1/1/0001 12:00:C	7/2/2020 11:17:5	Recovery	High Alarm	Heavier	High	
Alarm.low	Var.Variable	7/2/2020 11:17:4	1/1/0001 12:00:C	7/2/2020 11:17:5	Recovery	Low Alarm	Slight	Low	
Alarm.high	Var.Variable	7/2/2020 11:17:4	1/1/0001 12:00:C	7/2/2020 11:17:4	Recovery	High Alarm	Heavier	High	
Alarm.high1	Var.Variable1	7/2/2020 11:17:4	1/1/0001 12:00:C	1/1/0001 12:00:C	Alarm	LowLowAlarm	Heavier	LowLow	
Alarm.low	Var.Variable	7/2/2020 11:17:4	1/1/0001 12:00:C	7/2/2020 11:17:4	Recovery	Low Alarm	Slight	Low	
Alarm.high	Var.Variable	7/2/2020 11:17:3	1/1/0001 12:00:C	7/2/2020 11:17:4	Recovery	High Alarm	Heavier	High	
Alarm.high	Var.Variable	7/2/2020 11:17:3	1/1/0001 12:00:C	7/2/2020 11:17:3	Recovery	High Alarm	Heavier	High	
Alarm.low	Var.Variable	7/2/2020 11:17:3	1/1/0001 12:00:C	7/2/2020 11:17:3	Recovery	Low Alarm	Slight	Low	
Alarm.low	Var.Variable	7/2/2020 11:17:2		7/2/2020 11:17:3	Recovery	Low Alarm	Slight	Low	

➤ **Script example of Ack an alarm button :**

③ Project in run time

① Select the alarm item

② Click the configured response button

Alarm Name	Variable Path	Trigger Time	Ack Time	Recovery Time	Record Type	Alarm Type	Alarm Level	Alarm Text
Alarm.low	Var.Variable	7/2/2020 11:18:C	1/1/0001 12:00:C	7/2/2020 11:18:C	Recovery	Low Alarm	Slight	Low
Alarm.low	Var.Variable	7/2/2020 11:18:C	1/1/0001 12:00:C	7/2/2020 11:18:C	Recovery	Low Alarm	Slight	Low
Alarm.high	Var.Variable	7/2/2020 11:17:5	1/1/0001 12:00:C	7/2/2020 11:17:5	Recovery	High Alarm	Heavier	High
Alarm.low	Var.Variable	7/2/2020 11:17:5	1/1/0001 12:00:C	7/2/2020 11:17:5	Recovery	Low Alarm	Slight	Low
Alarm.high	Var.Variable	7/2/2020 11:17:5	1/1/0001 12:00:C	7/2/2020 11:17:5	Recovery	High Alarm	Heavier	High
Alarm.low	Var.Variable	7/2/2020 11:17:5	1/1/0001 12:00:C	7/2/2020 11:17:5	Recovery	Low Alarm	Slight	Low
Alarm.low	Var.Variable	7/2/2020 11:17:5	1/1/0001 12:00:C	7/2/2020 11:17:5	Recovery	Low Alarm	Slight	Low
Alarm.high	Var.Variable	7/2/2020 11:17:5	1/1/0001 12:00:C	7/2/2020 11:17:5	Recovery	High Alarm	Heavier	High
Alarm.low	Var.Variable	7/2/2020 11:17:4	1/1/0001 12:00:C	7/2/2020 11:17:5	Recovery	Low Alarm	Slight	Low
Alarm.high	Var.Variable	7/2/2020 11:17:4	1/1/0001 12:00:C	7/2/2020 11:17:4	Recovery	High Alarm	Heavier	High
Alarm.high1	Var.Variable1	7/2/2020 11:17:4	1/1/0001 12:00:C	1/1/0001 12:00:C	Alarm	LowLowAlarm	Heavier	LowLow
Alarm.low	Var.Variable	7/2/2020 11:17:4	1/1/0001 12:00:C	7/2/2020 11:17:4	Recovery	Low Alarm	Slight	Low



➤ **Script example of Ack an alarm button :**

④ The color of the responded alarm ACK

Alarm Name	Variable Path	Trigger Time	Ack Time	Recovery Time	Record Type	Alarm Type	Alarm Level	Alarm Text
Alarm.low	Var.Variable	7/2/2020 11:18:0	1/1/0001 12:00:0	7/2/2020 11:18:0	Recovery	Low Alarm	Slight	Low
Alarm.high	Var.Variable	7/2/2020 11:17:5	1/1/0001 12:00:0	7/2/2020 11:17:5	Recovery	High Alarm	Heavier	High
Alarm.low	Var.Variable	7/2/2020 11:17:5	1/1/0001 12:00:0	7/2/2020 11:17:5	Recovery	Low Alarm	Slight	Low
Alarm.high	Var.Variable	7/2/2020 11:17:5	1/1/0001 12:00:0	7/2/2020 11:17:5	Recovery	High Alarm	Heavier	High
Alarm.low	Var.Variable	7/2/2020 11:17:5	1/1/0001 12:00:0	7/2/2020 11:17:5	Recovery	Low Alarm	Slight	Low
Alarm.low	Var.Variable	7/2/2020 11:17:5	1/1/0001 12:00:0	7/2/2020 11:17:5	Recovery	Low Alarm	Slight	Low
Alarm.high	Var.Variable	7/2/2020 11:17:5	1/1/0001 12:00:0	7/2/2020 11:17:5	Recovery	High Alarm	Heavier	High
Alarm.low	Var.Variable	7/2/2020 11:17:4	1/1/0001 12:00:0	7/2/2020 11:17:5	Recovery	Low Alarm	Slight	Low
Alarm.high	Var.Variable	7/2/2020 11:17:4	1/1/0001 12:00:0	7/2/2020 11:17:4	Recovery	High Alarm	Heavier	High
Alarm.high1	Var.Variable1	7/2/2020 11:17:4	7/2/2020 11:26:0	1/1/0001 12:00:0	Ack	LowLowAlarm	Heavier	LowLow
Alarm.low	Var.Variable	7/2/2020 11:17:4	1/1/0001 12:00:0	7/2/2020 11:17:4	Recovery	Low Alarm	Slight	Low
Alarm.high	Var.Variable	7/2/2020 11:17:3	1/1/0001 12:00:0	7/2/2020 11:17:4	Recovery	High Alarm	Heavier	High
Alarm.high	Var.Variable	7/2/2020 11:17:3	1/1/0001 12:00:0	7/2/2020 11:17:3	Recovery	High Alarm	Heavier	High
Alarm.low	Var.Variable	7/2/2020 11:17:3	1/1/0001 12:00:0	7/2/2020 11:17:3	Recovery	Low Alarm	Slight	Low
Alarm.low	Var.Variable	7/2/2020 11:17:2		7/2/2020 11:17:3	Recovery	Low Alarm	Slight	Low

- Alarm overview
- Use of alarm window
- **Alarm management tool**
- Alarm configuration settings
- Right-click function of alarm group

## ➤ Alarm management tool operation:

- Edit actions such as adding, inserting, deleting, importing and exporting alarms
- Filter variables by variable group, variable type, variable name
- Alarm setting according to variable type

StartPage Alarm Variable x

+ Add Insert Delete Import Export

### Alarm editing window

Name	Associated Variables	Alarm Level	Alarm Configuration	Description
1 AlarmVariable	Var.Variable	Slight	LowLow	
2 AlarmVariable1	Var.Variable1	Lighter	Rate	
3 AlarmVariable2	Var.Variable2	General	Major	
4 AlarmVariable3	Var.Variable3	Heavier	OFF	
5 AlarmVariable4	Var.Variable4	Serious	ON	
6 AlarmVariable5	Var.Variable5	Serious	FromOnToOff,FromOffToOn	

- + Add Alt+A
- Insert Alt+I
- Delete Del
- Save Ctrl+S
- Copy Ctrl+C
- Cut Ctrl+X
- Paste Ctrl+V
- Import Ctrl+I
- Export Ctrl+E

### Alarm Configuration

#### Common Alarm

### Analog setting window

**Limit Value Alarm**

	Alarm Value	Alarm Text
<input type="checkbox"/> LowLow	10	LowLow
<input type="checkbox"/> Low	30	Low
<input type="checkbox"/> High	70	High
<input type="checkbox"/> HighHigh	90	HighHigh
<input type="checkbox"/> Deadband	0	

**Deviation Alarm**

	Alarm Value	Alarm Text
<input checked="" type="checkbox"/> Major	80	Major
<input type="checkbox"/> Minor	20	Minor
TargetValue	0	
<input type="checkbox"/> Deadband	0	

**Rate of Change Alarm**

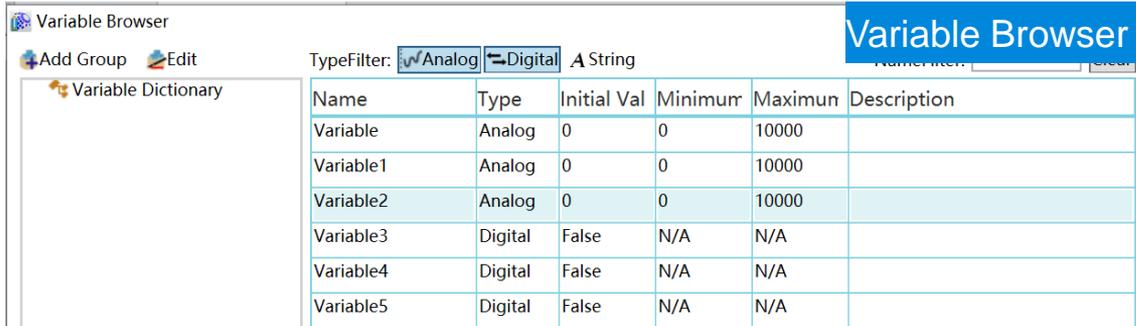
	Alarm Value	Alarm Text
<input type="checkbox"/> Rate	0	Rate
Type	Second	

AlarmDelayTime 0 Second

OK Cancel

## ➤ Alarm management tool operation:

- Edit actions such as adding, inserting, deleting, importing and exporting alarms
- Filter variables by variable group, variable type, variable name
- Alarm setting according to variable type

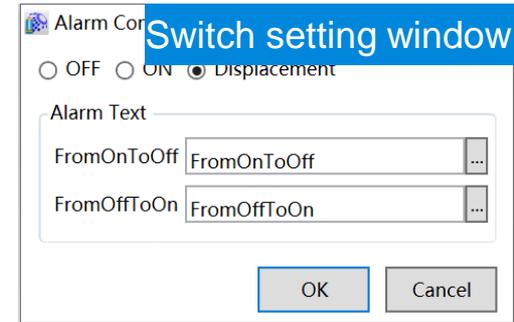


Variable Browser

TypeFilter:  Analog  Digital A String

Name	Type	Initial Val	Minimum	Maximum	Description
Variable	Analog	0	0	10000	
Variable1	Analog	0	0	10000	
Variable2	Analog	0	0	10000	
Variable3	Digital	False	N/A	N/A	
Variable4	Digital	False	N/A	N/A	
Variable5	Digital	False	N/A	N/A	

Variable Dictionary



Alarm Correlation

OFF  ON  Displacement

Alarm Text

FromOnToOff FromOnToOff ...

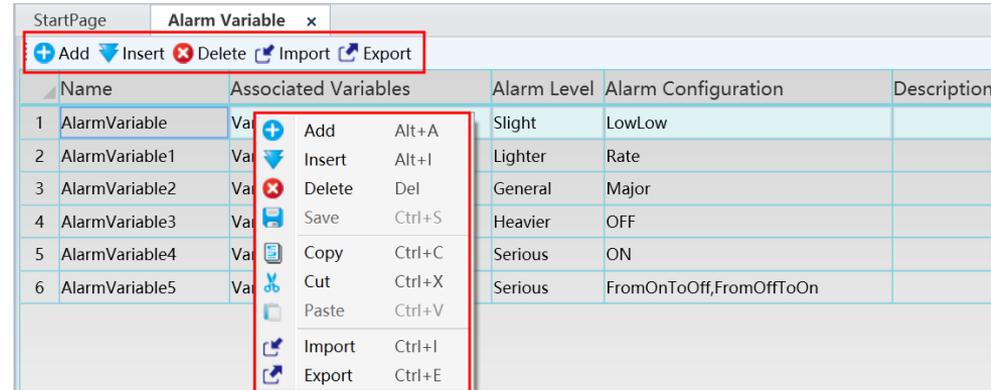
FromOffToOn FromOffToOn ...

OK Cancel

## ➤ Basic operation and attributes of alarm variables

- Basic operation of variables

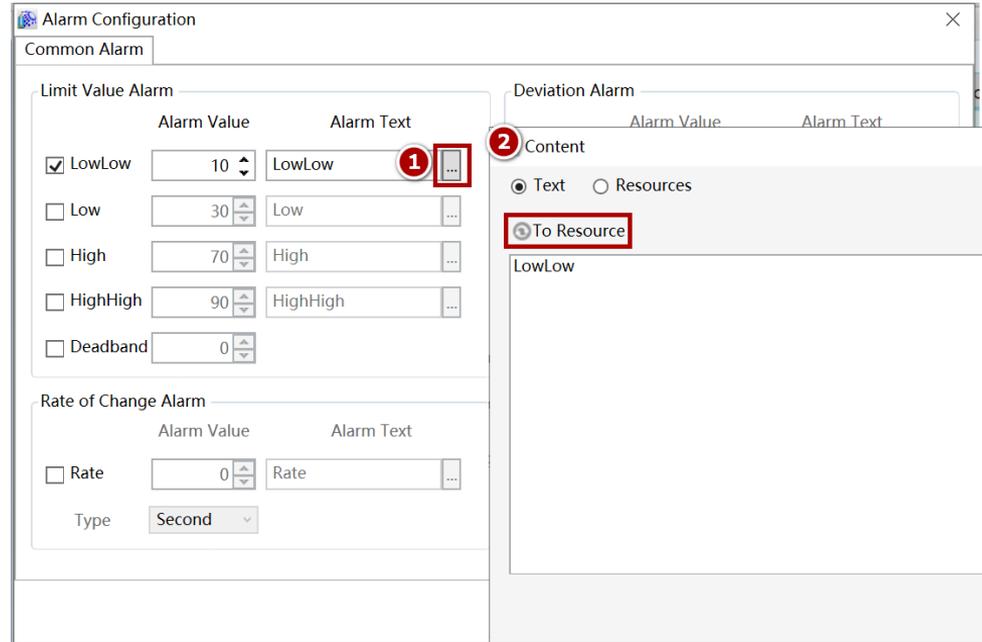
<b>Add</b>	Add an alarm variable, the newly added variable is displayed in the variable list in the variable editing area
<b>Insert</b>	Insert a variable, the newly inserted variable is displayed above the inserted variable
<b>Delete</b>	Delete a variable
<b>Import</b>	Import external variable configuration files to improve the efficiency of variable configuration
<b>Export</b>	Variable configuration information can be exported as an excel file, supporting xls and xlsx formats
<b>Copy</b>	Copy variables
<b>Cut</b>	Shear variable
<b>Paste</b>	Paste variables



✘Refer to the section "11.3 Alarm Variables" in user manual.

## ➤ Multilingual function of alarm setting

- ① Click the expansion button to the right of the selected alarm settings. (The switch alarm setting can refer to this process)
- ② In the "Content" window, click the "To Resource" button to select and set multilingual content in the window, and convert the alarm text into multilingual resources.



The screenshot displays the "Alarm Configuration" window, which is divided into several sections. The "Common Alarm" tab is active. The "Limit Value Alarm" section contains a table with columns for "Alarm Value" and "Alarm Text". The "LowLow" setting is selected, and its "Alarm Text" field is highlighted with a red box and a circled "1", indicating the expansion button. The "Content" window is open on the right, showing the "Text" and "Resources" radio buttons. The "To Resource" button is highlighted with a red box and a circled "2", indicating the next step in the process. Below the "Content" window, the "LowLow" alarm text is visible.

	Alarm Value	Alarm Text
<input checked="" type="checkbox"/> LowLow	10	LowLow
<input type="checkbox"/> Low	30	Low
<input type="checkbox"/> High	70	High
<input type="checkbox"/> HighHigh	90	HighHigh
<input type="checkbox"/> Deadband	0	

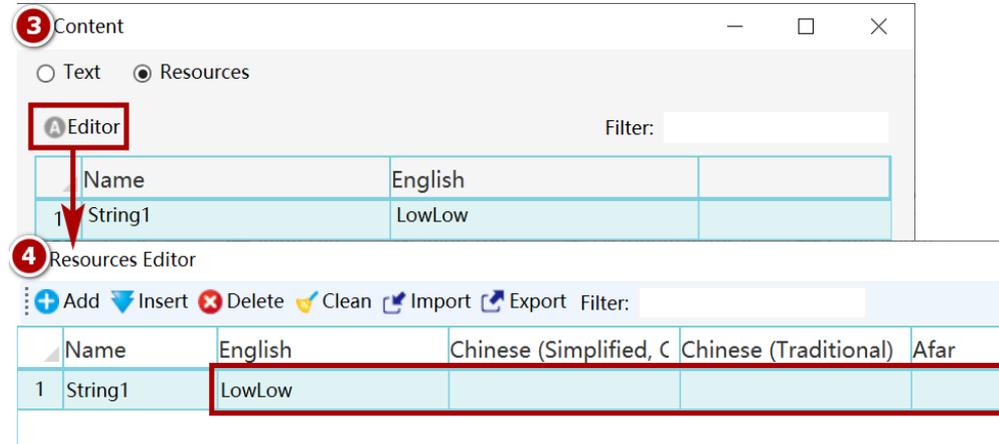
  

	Alarm Value	Alarm Text
<input type="checkbox"/> Rate	0	Rate

Type: Second

## ➤ Multilingual function of alarm setting

- ③ Click "Editor" to enter the "Resource Editor" window
- ④ In the "Resource Editor" window, you can edit the added multilingual content directly in the multilingual resource bar. After editing, select the set multilingual resources in the "Content" window and click "OK" to complete the multilingual setting



The screenshot displays two overlapping windows from the Alarm Management Tool. The top window, titled 'Content', has a tab labeled 'Resources' selected. It features a table with two columns: 'Name' and 'English'. The first row contains 'String1' and 'LowLow'. A red box labeled '3' highlights the 'Editor' button in the top-left corner of this window. The bottom window, titled 'Resources Editor', has a toolbar with buttons for '+ Add', 'Insert', 'Delete', 'Clean', 'Import', and 'Export'. Below the toolbar is a table with five columns: 'Name', 'English', 'Chinese (Simplified, C', 'Chinese (Traditional)', and 'Afar'. The first row contains 'String1' and 'LowLow'. A red box labeled '4' highlights the 'LowLow' value in the 'English' column of this table. A red arrow points from the 'Editor' button in the 'Content' window to the 'Resources Editor' window.

Name	English
String1	LowLow

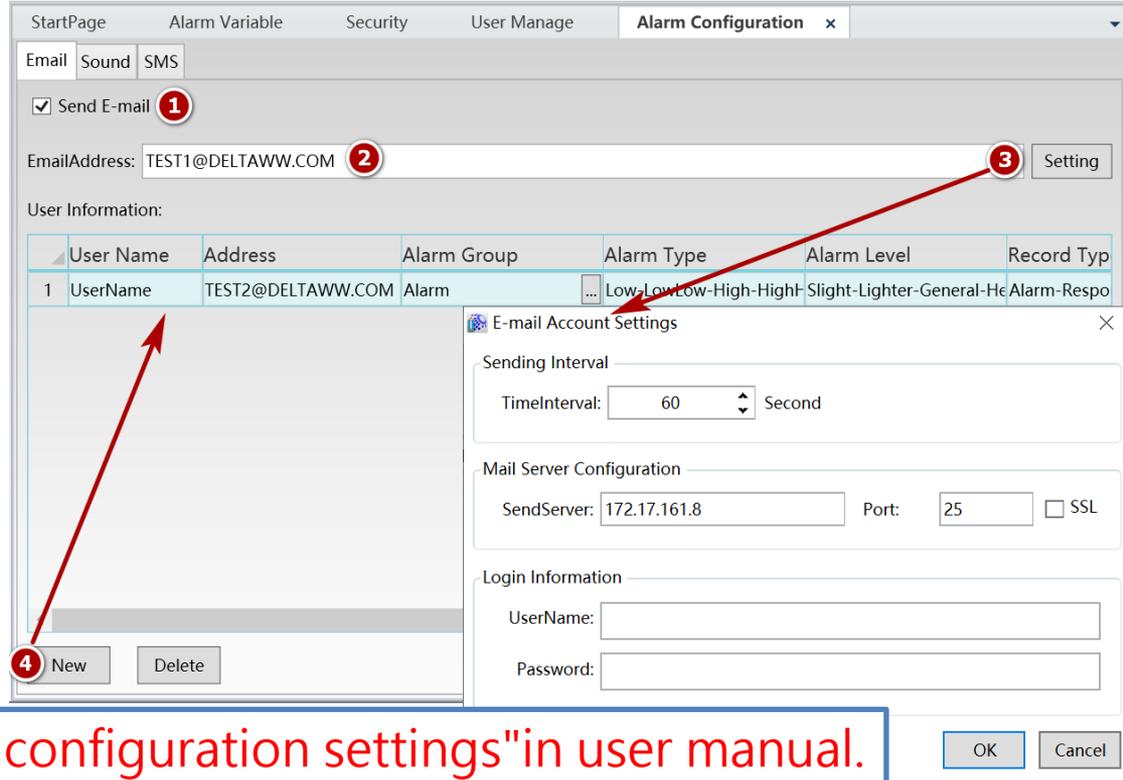
Name	English	Chinese (Simplified, C	Chinese (Traditional)	Afar
String1	LowLow			

- Alarm overview
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- **Alarm configuration settings**
- Right-click function of alarm group

# Alarm configuration settings

➤ Type of Alarm configuration: **1. Email** 2.Sound 3. SMS

- ① Check the "Send E-mail" button to start the function of sending emails.
- ② Fill in the email address of the recipient user.
- ③ Set the relevant information for sending emails.
- ④ Click the "New" button to add user information to receive alarm information.



StartPage Alarm Variable Security User Manage Alarm Configuration x

Email Sound SMS

Send E-mail 1

EmailAddress: TEST1@DELTAWWW.COM 2 Setting 3

User Information:

User Name	Address	Alarm Group	Alarm Type	Alarm Level	Record Typ
1 UserName	TEST2@DELTAWWW.COM	Alarm	...	Low-LowLow-High-High-Slight-Lighter-General-Hc	Alarm-Respo

4 New Delete

E-mail Account Settings

Sending Interval

TimeInterval: 60 Second

Mail Server Configuration

SendServer: 172.17.161.8 Port: 25  SSL

Login Information

UserName:

Password:

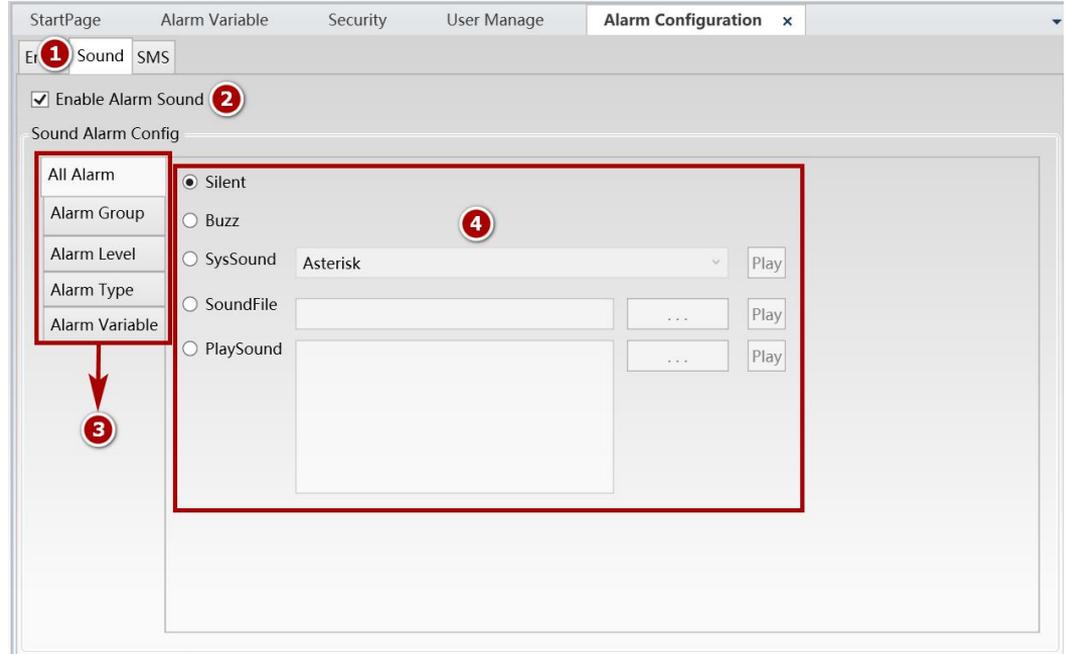
OK Cancel

✘ Refer to the section "11.5 Alarm configuration settings" in user manual.

# Alarm configuration settings

➤ Type of Alarm configuration: 1. Email 2. **Sound** 3. SMS

- ① Select the “Sound” tab to enter the sound configuration interface.
- ② Check the “Enable Alarm Sound” button to activate the sound alarm function.
- ③ Select the alarm content you need.
- ④ Set the various contents of the sound alarm configuration.

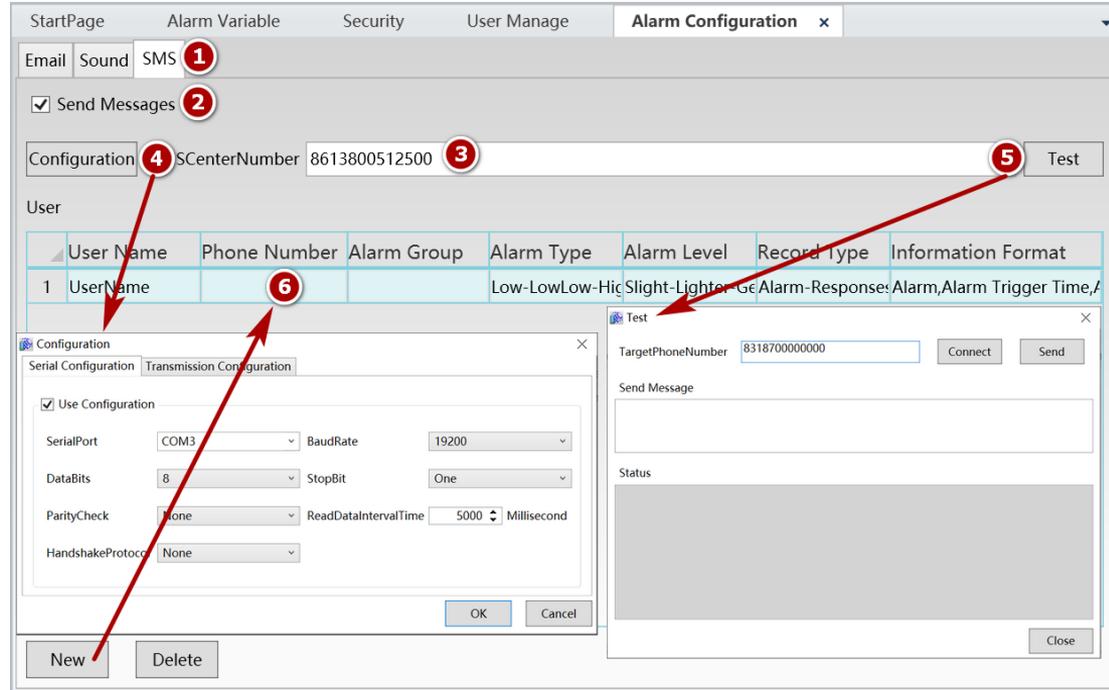


※Refer to the section "11.5 Alarm configuration settings" in user manual.

# Alarm configuration settings

➤ Type of Alarm configuration: 1. Email 2. Sound 3. **SMS**

- ① Select the "SMS" tab to enter the mobile phone SMS configuration interface.
- ② Check the "Send Messages" button to start sending SMS.
- ③ Fill in the SMS center number.
- ④ Click on the "Configuration" button to set the information about sending SMS.
- ⑤ Click the "Test" button to test the current connection status.
- ⑥ Click the "New" button to add user information to receive alarm information.



The screenshot shows the 'Alarm Configuration' window with the following elements:

- 1. 'SMS' tab selected in the top navigation bar.
- 2. 'Send Messages' checkbox checked.
- 3. 'SCenterNumber' field containing '8613800512500'.
- 4. 'Configuration' button.
- 5. 'Test' button.
- 6. 'New' button at the bottom left.

The 'User' table contains the following data:

User Name	Phone Number	Alarm Group	Alarm Type	Alarm Level	Record Type	Information Format
1	UserName		Low-LowLow-Hic	Slight-Lighten-Ge	Alarm-Response	Alarm,Alarm Trigger Time,/

The 'Configuration' dialog box shows the following settings:

- SerialPort: COM3
- BaudRate: 19200
- DataBits: 8
- StopBit: One
- ParityCheck: None
- ReadDataIntervalTime: 5000 Millisecond
- HandshakeProtocol: None

The 'Test' dialog box shows the following settings:

- TargetPhoneNumber: 831870000000
- Buttons: Connect, Send
- Status: (Empty text area)
- Buttons: Close

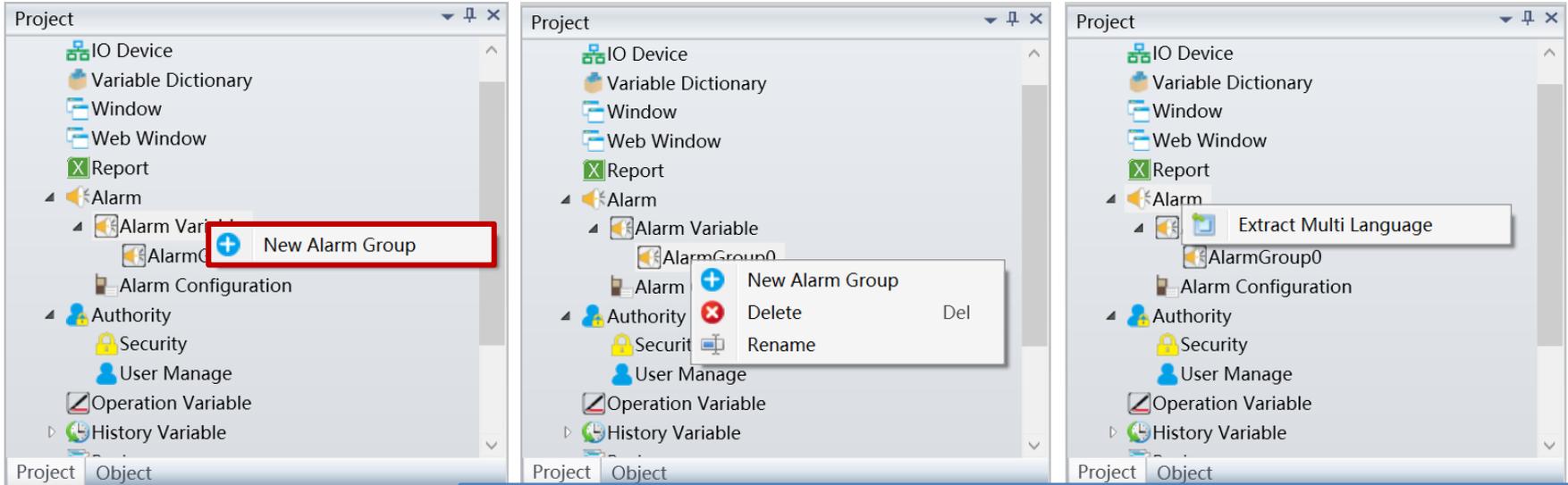
✘ Refer to the section "11.5 Alarm configuration settings" in user manual.

- Alarm overview
- Use of alarm window
- Alarm management tool
- Alarm configuration settings
- **Right-click function of alarm group**

# Right-click function of alarm group

## ➤ Right-click function of alarm group

- The alarm group can realize the classified management of the alarms and classify the related alarms in the same alarm group, which is convenient for the system to manage and operate the alarm groups in a unified manner.
- The alarm variables in the DIAView configuration software generally belong to an alarm group. The alarm group is first established, and then the alarm variables are created in the alarm group.



※Refer to the section "11.2 Alarm group" in user manual.

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