

Mainly to introduce the new functions of
this version

Delta SCADA Software

DIView SCADA Rev4.2.0

Delta Electronics, Inc.

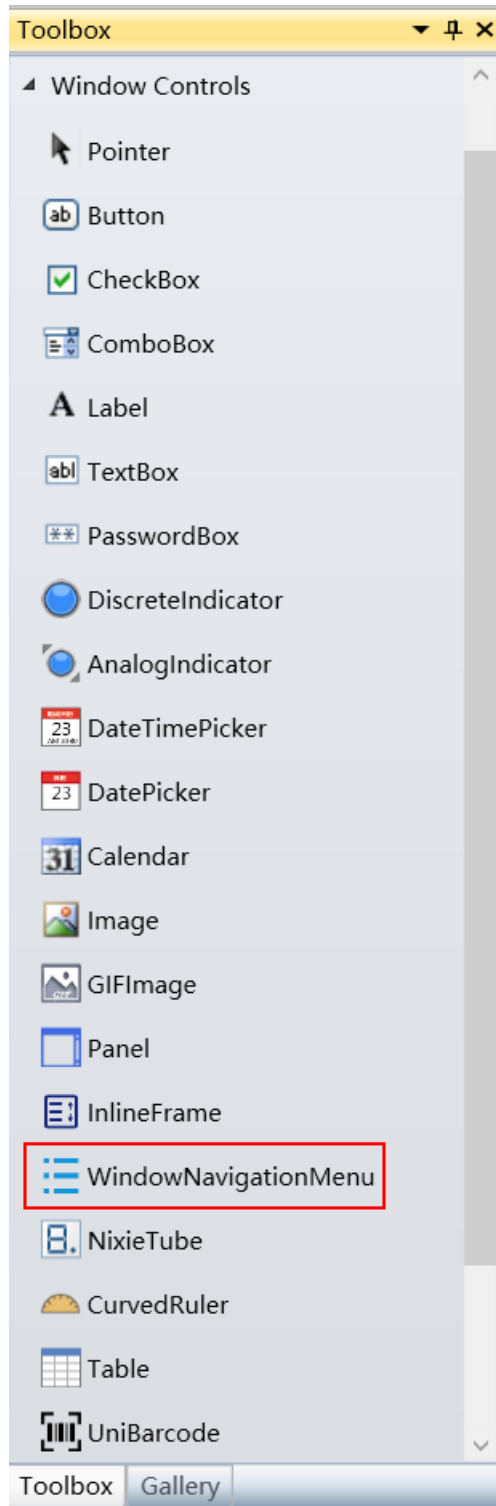
Content

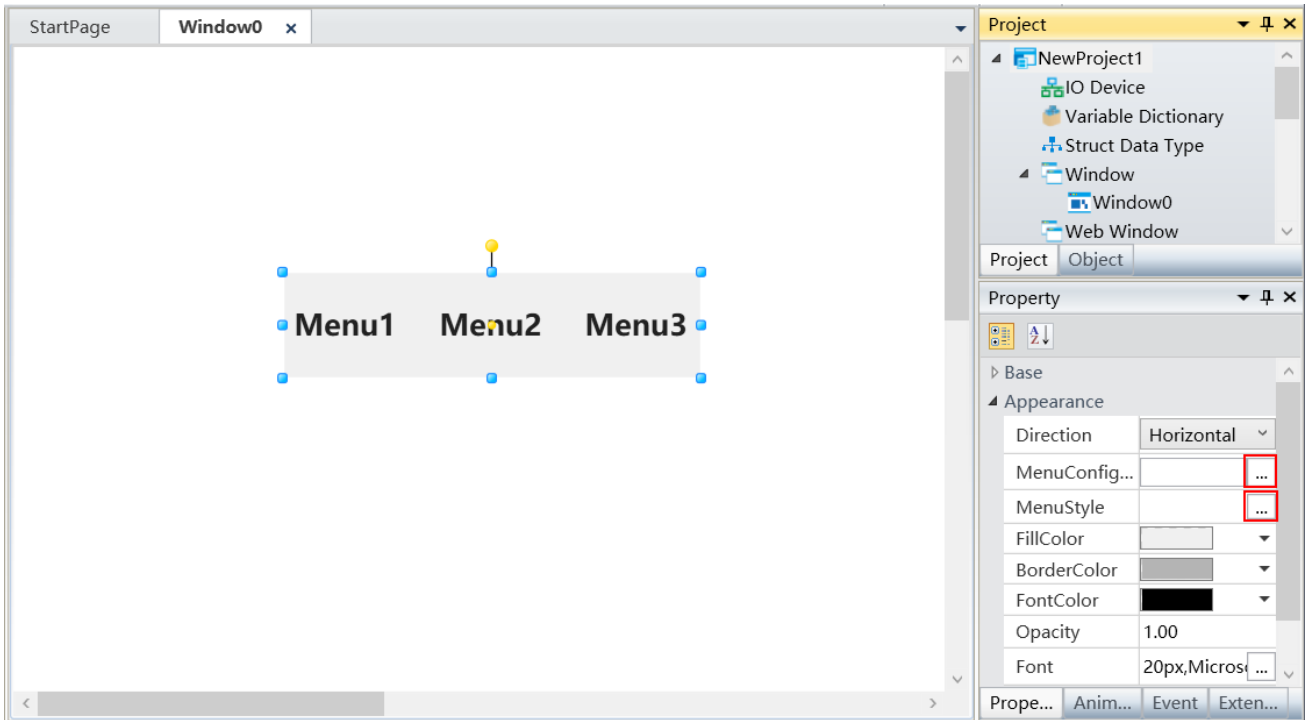
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Upgrading Function Introduction

1. New WindowNavigationMenu Control

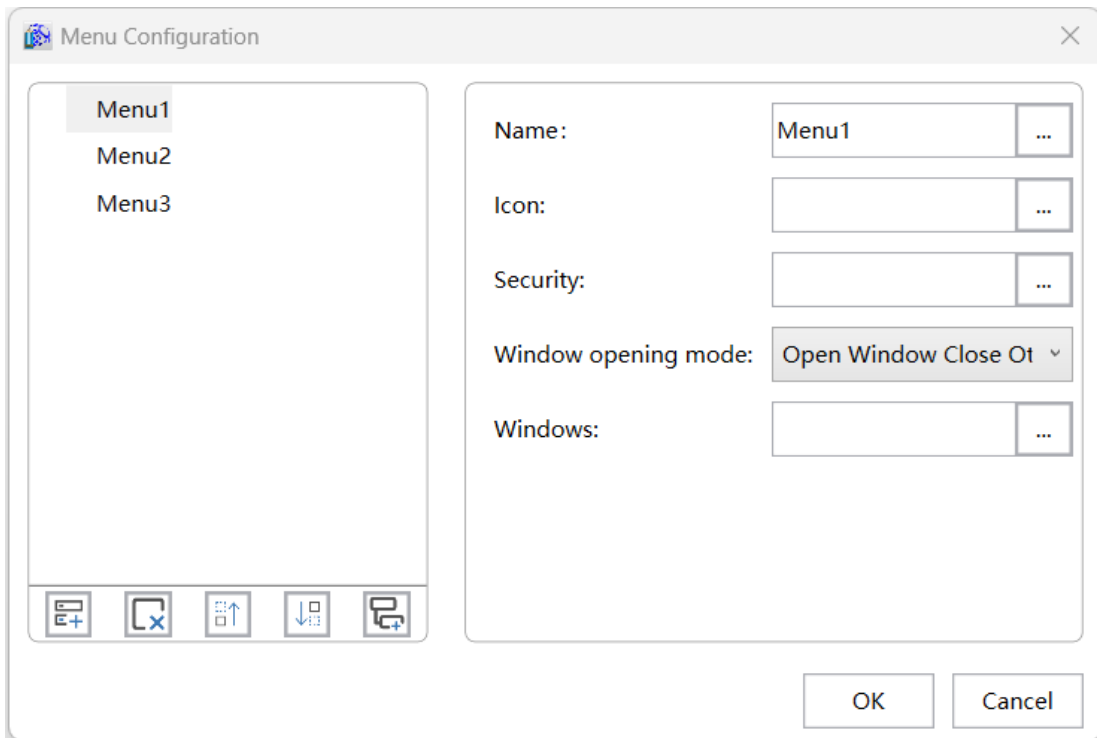
The WindowNavigationMenu control supports both horizontal and vertical arrangements. It manages the menu through a hierarchical structure and allows setting menu names, icons, Security, background colors, fonts, etc.





Direction: Navigation menus can be arranged horizontally and vertically, with horizontal menu items arranged from left to right and vertical menu items arranged from top to bottom.

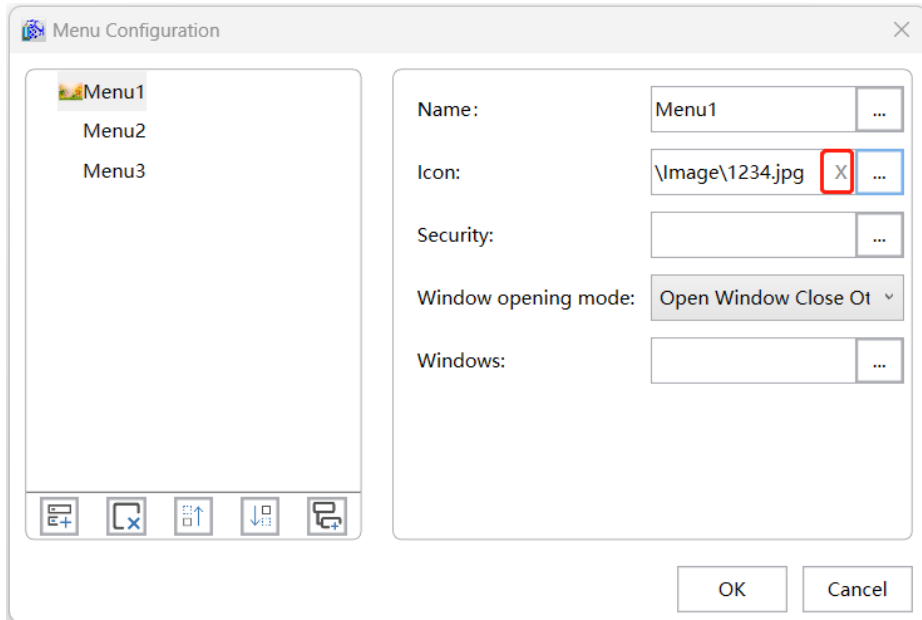
MenuConfiguration: Used to set the menu hierarchy, and set the name, icon, safe area, opening window and opening mode of the window for each menu. The configuration window is as follows:



The five buttons below the tree structure on the left are, from left to right, Add Menu, Delete Menu, Adjust Menu Position Up at the Same Level, Adjust Menu Position Down at the Same Level, and Add Sub-menu. Sub-menu can add up to 5 levels.


Name: Sets the display name of the menu in the control, supports the extraction of multilingual resources, and is convenient for multilingual switching.

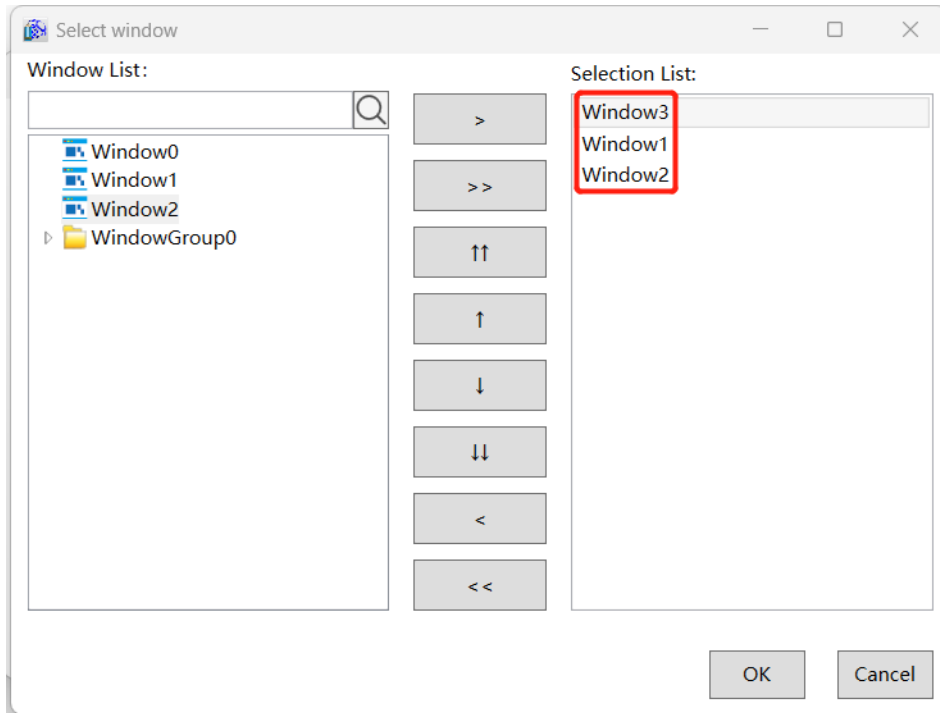
Icon: Set the icon of the menu. When the icon is configured, the name display will automatically move to the right, leaving the icon position. The effect is shown in the following figure: Menu 1. The configured icon is deleted by the right X.



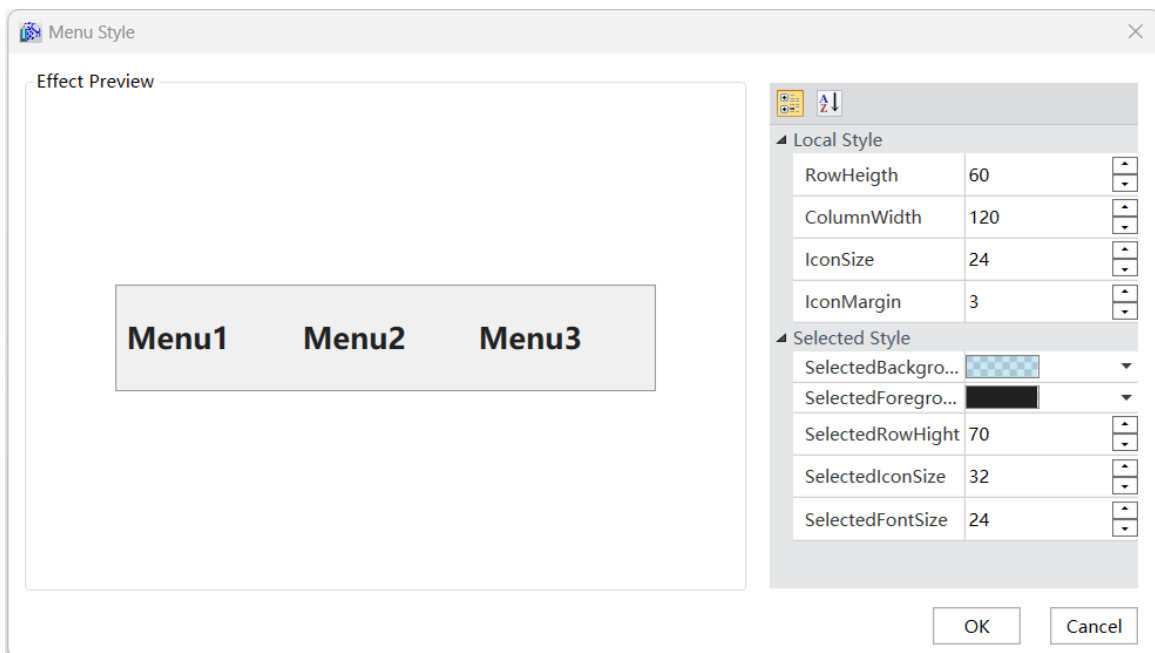
Security: Configure the safe zone for the current menu. If it is not configured here, it will be consistent with the safe zone at the property of the navigation menu control. When the hierarchy of the menu is at the parent node and configuration is not supported, it will be grayed out.

Window opening mode: There are two ways to open a window: opening a window and closing the window. The setting here is set by the opening mode of the lower window. When it is set to open the form, the window configured by the lower window will be opened when this menu is operated at runtime, and other windows will not be closed. When it is set to open the form and close others, this menu will be operated at runtime, and other windows will be closed except the window configured by the window.

Windows: Set a list of windows that will be opened at running. Click on the right  to configure a single window or multiple windows to be opened. The order of opening is from top to bottom in the list, as shown in the following figure. Open **Window 3** → **Window 1** → **Window 2** in turn. When the hierarchy of the menu is at the parent node and configuration is not supported, it will be grayed out.

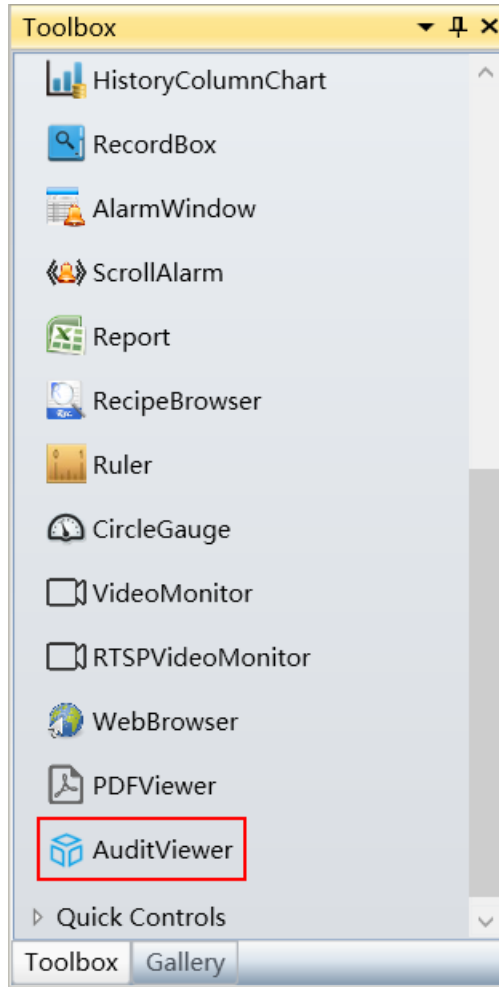


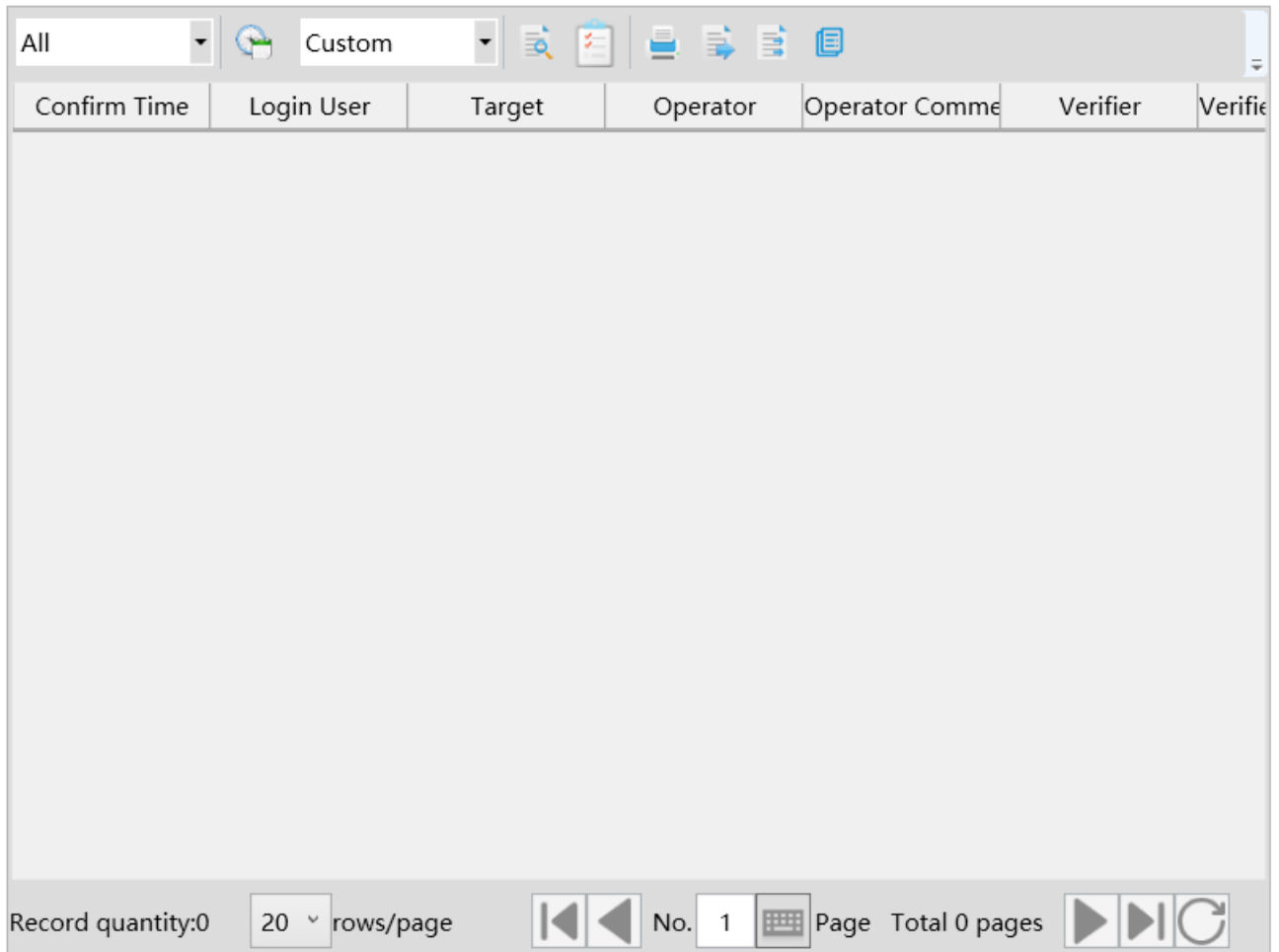
MeunStyle: Set the local style of the menu and the selected style at runtime, such as line height, column width, icon size, icon margin, selected background color, foreground color, selected line height, selected icon size, selected font size, etc., as shown in the following figure:



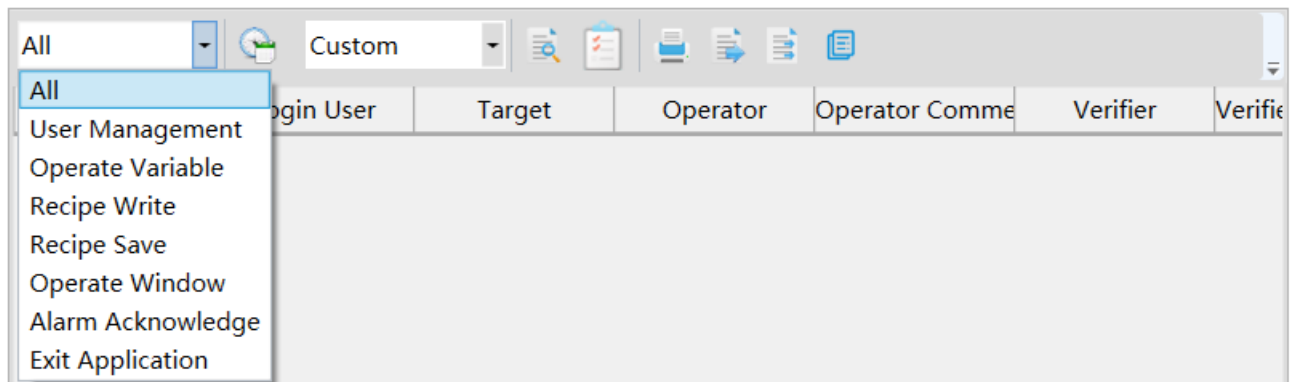
2. New AuditViewer Control


New AuditViewer control enables quick querying of electronic signature information on the client side. Users can focus their queries based on operation type and query time, and can export, print, back up electronic signature data.

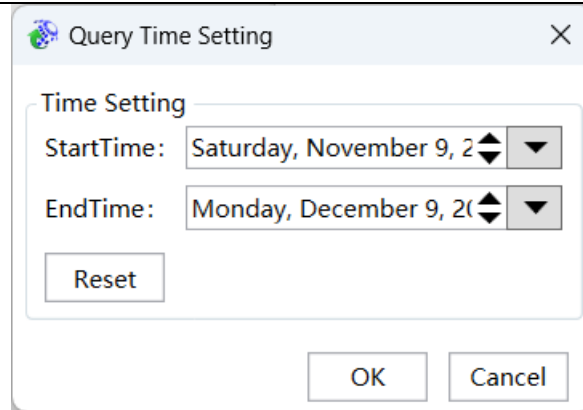




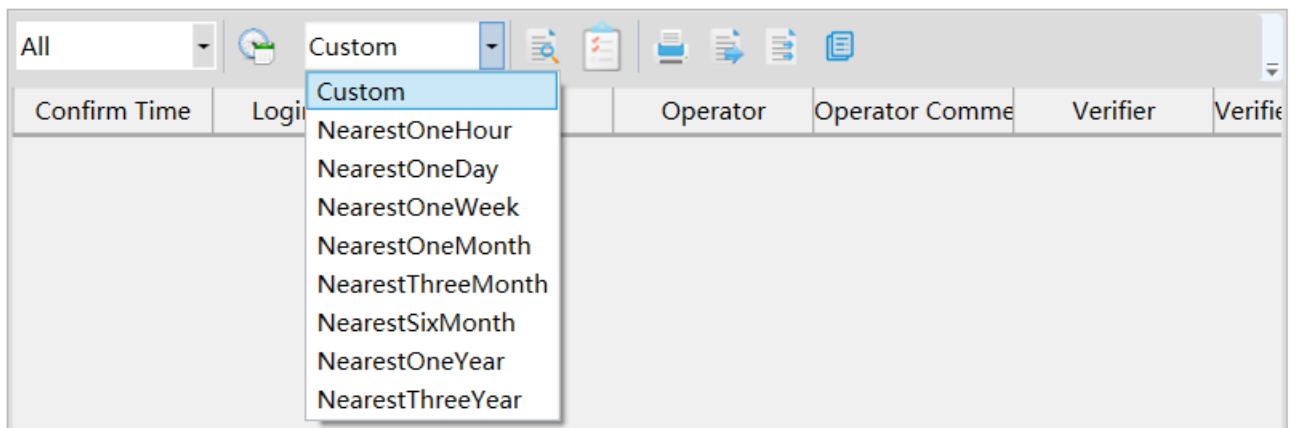
Operate Type Filter: Select the operation type from the drop-down menu to query data, multiple selections are not supported.




Set query time:  When set recent query time is custom user can set self-defined query range.




Set recent query time: Custom Set the query time range: recent one hour, recent one day, recent one week, recent one month, recent three months, recent six months, recent one year, recent three year, custom.




Query:  The electronic signature records are displayed in 14 columns based on the current configuration. The details of each column are as follows:


Field Name	Description	Remarks
Confirm Time	Time of electronic signature action	
Login User	The current user name of DIAView when the electronic signature action occurs	When no user logs in, Is Null
Target	Electronic signature action processing object	when no signature, Is Null
Operator	Name of the operator when signing	
Operator Comment	Note content written by the operator when signing	when no signature, Is Null
Verifier	The name of the verifier when signing	when no signature, Is Null
Verifier Comment	Comments written by the verifier when signing	when no signature, Is Null


<p>Operate Type</p>	<p>There are fixed categories: User Management Operate Variable Recipe Save Recipe Write Operate Window Alarm Acknowledge Exit Application</p>	
<p>Signature Type</p>	<p>Fixed three types: No Signature Operation Signature Operate And Verify Signatures</p>	
<p>Old Value</p>	<p>Old value of operation variable</p>	<p>Only "operation variable" has value display, and other operation types record N/A</p>
<p>New Value</p>	<p>New value of operation variable</p>	<p>Only "operation variable" has value display, and other operation types record N/A</p>
<p>Signature Description</p>	<p>Operate Variable: The "Description" information in the corresponding operation variable table User Management User Login User Logout Recipe Save Recipe Write Alarm Acknowledge Window open Window close Exit Application</p>	
<p>Source</p>	<p>Client computer name</p>	
<p>IsValid</p>	<p>Judge whether the queried record field has been tampered with. There are two types of values: Valid, Indicates that the data is valid and has not been tampered with Invalid, Indicates that the data is invalid and has been tampered with</p>	

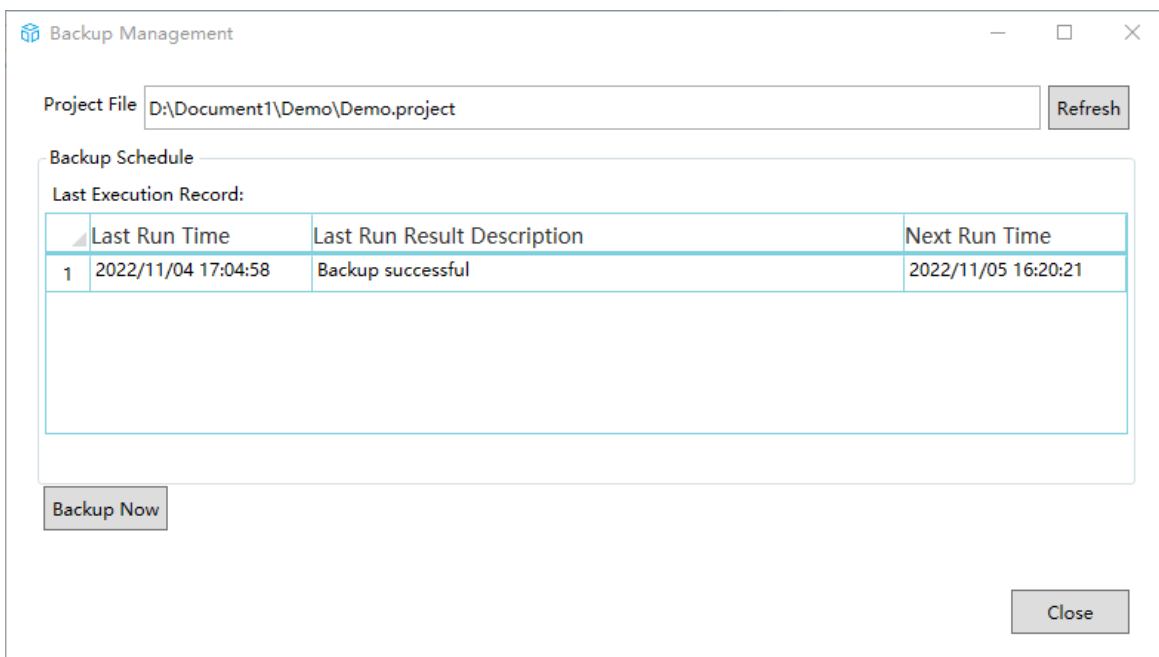
Display settings:  Select the column that needs to be displayed. If it is checked, it indicates that the column is displayed. If it is not checked, it indicates that the column is not displayed. set the width of the column, the display position, and the format of the date and time.

Print:  Print all electronic signature records in the current AuditViewer. A maximum of 1000 records can be printed at a time.

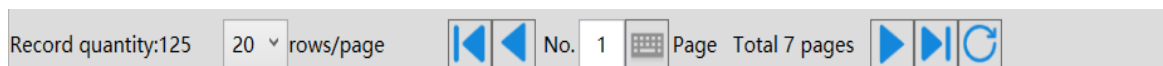
Export current page data:  Export the electronic signature records of the current page in Excel 2007(*.xlsx) format.


Export all data:  Export all electronic signature records in the AuditViewer in Excel 2007(*.xlsx) format. A maximum of 65535 records can be exported at a time.

Backup :  Support manual backup and automatic backup. Click Backup button. The Backup Management page is displayed. You can manually perform backup. The execution records of the last backup and the time of the next automatic backup are displayed in the backup plan.



Statusbar:

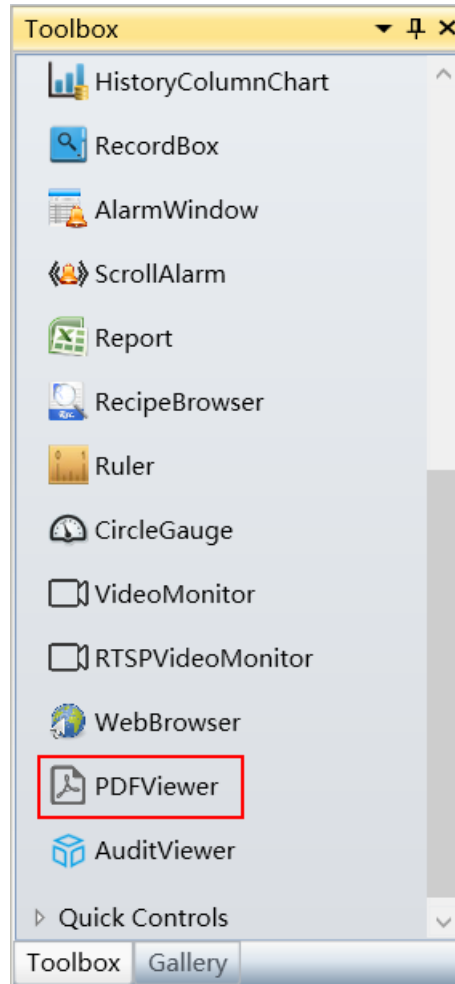


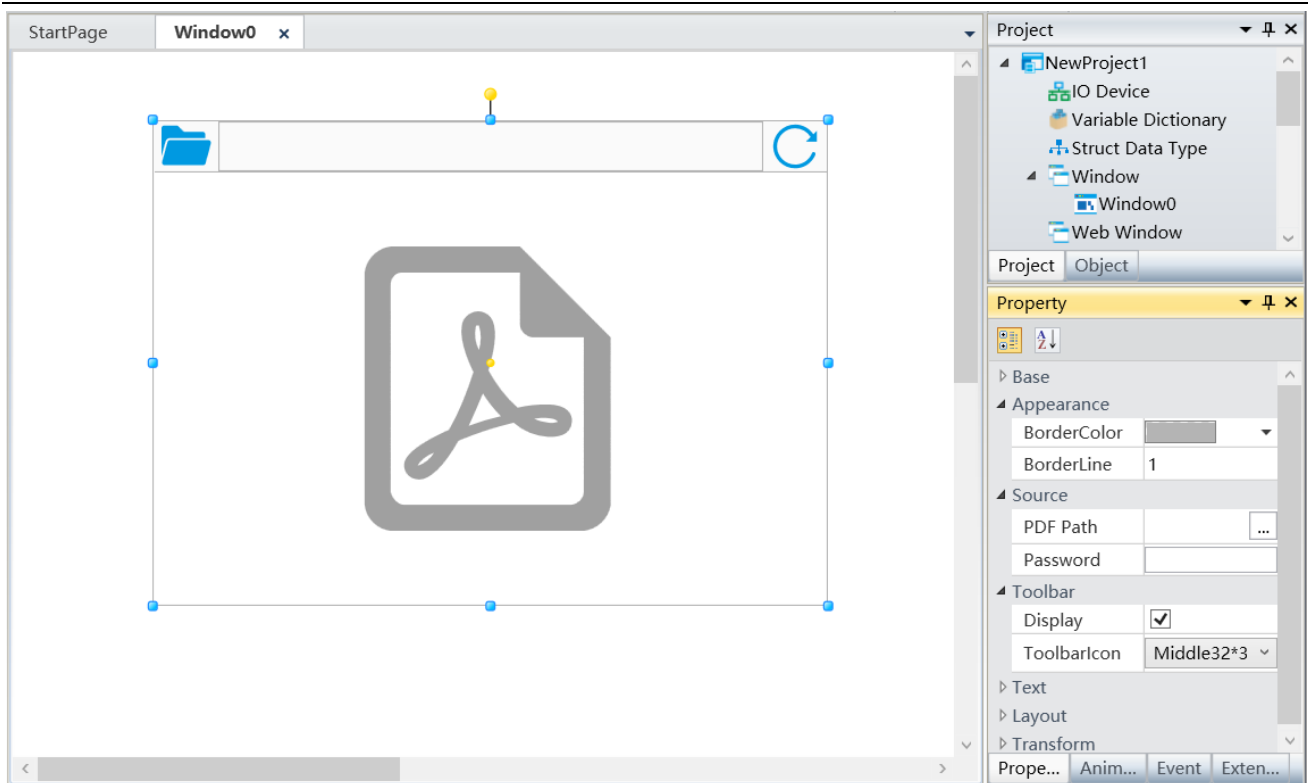
When the queried electronic signature record information is relatively large, it will be displayed in pages. You can switch the page by clicking  button, or you can directly click the page number to jump to the corresponding page.

Number of page display: The number of page display can be switched through the drop-down menu, which is "20", "50", "100".

3. New PDFViewer Control

New PDFViewer Control provides comprehensive PDF reading capabilities. It supports encrypted PDF documents, with preset PDF paths and passwords during development, and loads PDF documents at runtime. It includes page navigation functions such as previous and next page, page number input for quick jumps to specified pages, and keyword search with options to distinguish case sensitivity, and perform fuzzy matching. It also supports highlighting search results, enabling users to read PDF documents more efficiently.





BorderColor: Sets the border color of the PDF viewer, which is gray by default.

BorderLine: Set the border width of the PDF viewer, the range is 0-10, 0 means no border, and the default value is 1

PDF Path: Select the storage path of the PDF document to be displayed, and only the local path can be used.

Password: The password of the PDF document, if the PDF document has a password, after the file password is correctly filled in here, run the project, the PDF viewer can directly open and display the content of the document. If the password is not filled in correctly, after running the project, the PDF viewer will pop up the password input box again, and the user can still open the PDF document under the specified path after filling in correctly; If the PDF document does not have a password, whether to fill in the password here, after running the project, the PDF viewer can directly open the display file, and the password filled in here is meaningless

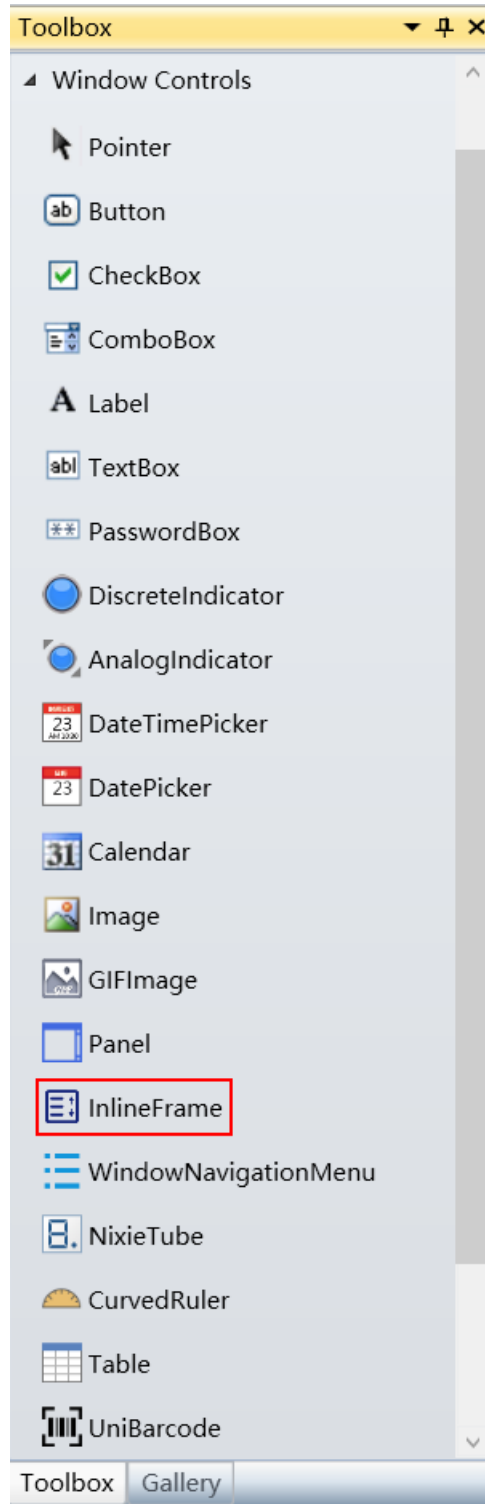
Display toolbar: Whether to display the toolbar, check to show it, otherwise it is hidden, and the default is display

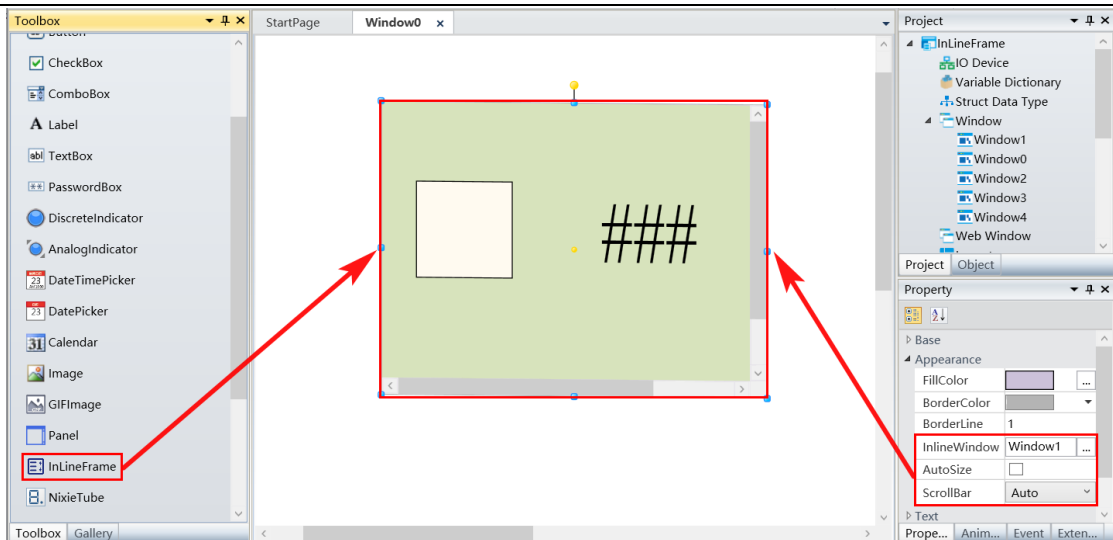
ToolbarIcon: There are three types of icons to choose from: large, medium, and small, and the default is medium.

Explanation: The PDF viewer does not support multi client use. The specified PDF file path only supports local files. If copying the project to another device, the filled PDF document must be copied and placed in the same path for normal use.

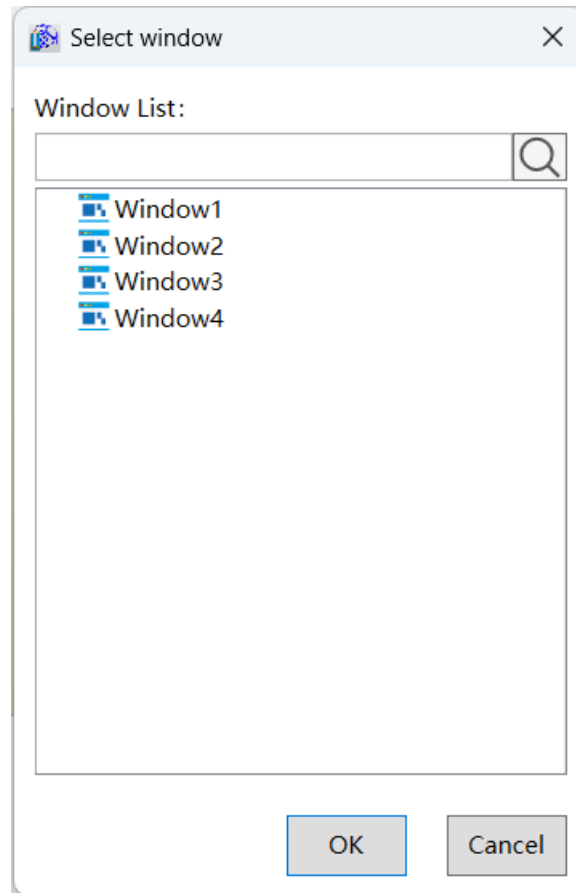
4. New InlineFrame Control

InlineFrame allows users to display multiple window screens within the current window and interact with multiple windows simultaneously without closing the current window.





Element	Description
InLineWindow	Select a window, and the selected window will be displayed within an inline box. Click the button on the right side of the InLineWindow, and a selection window will pop up as shown in the following figure.
AutoSize	Configure whether the windows within the InLineFrame are adaptive to the size of the InLineFrame.
ScrollBar	When AutoSize is not selected and the window selected by the InLineFrame exceeds the size of the InLineFrame, a scrollbar is displayed. There are four ways to scroll the scrollbar, which are Auto, Horizontal, Vertical, and Disabled.
Auto	If the horizontal or vertical direction of the window exceeds the size of the InLineFrame, the corresponding scrollbar will be displayed.
Horizontal	When the horizontal direction of the window exceeds the size of the InLineFrame, a horizontal scrollbar will be displayed.
Vertical	When the vertical direction of the window exceeds the size of the InLineFrame, a vertical scrollbar will be displayed.
Disabled	No scrollbar will be displayed regardless of whether the window exceeds the size of the InLineFrame.

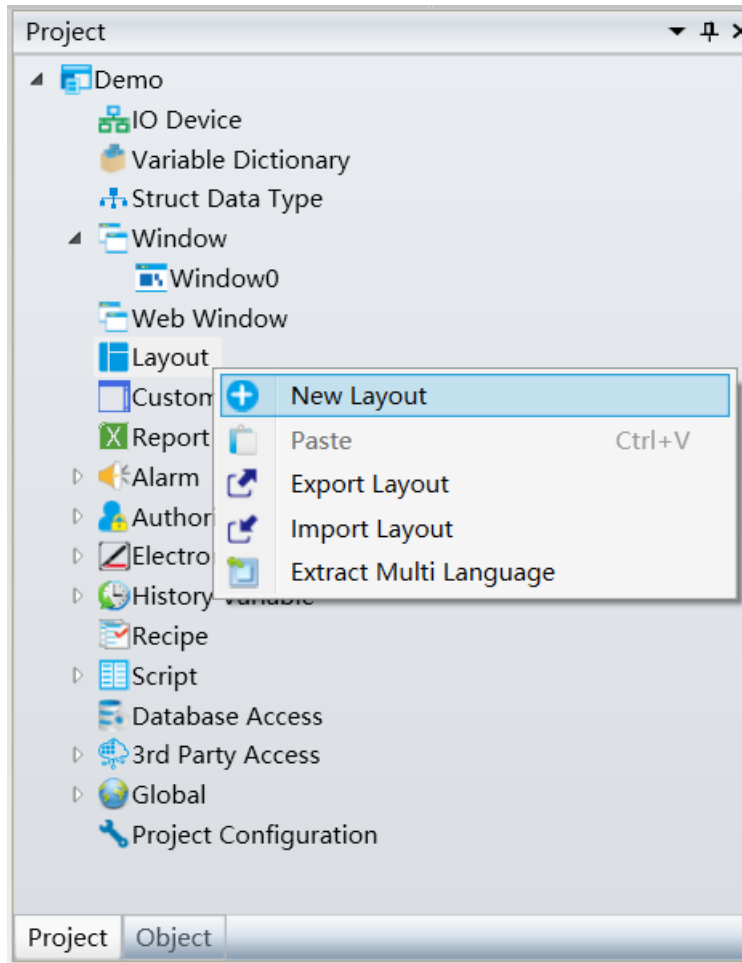


5. New Layout

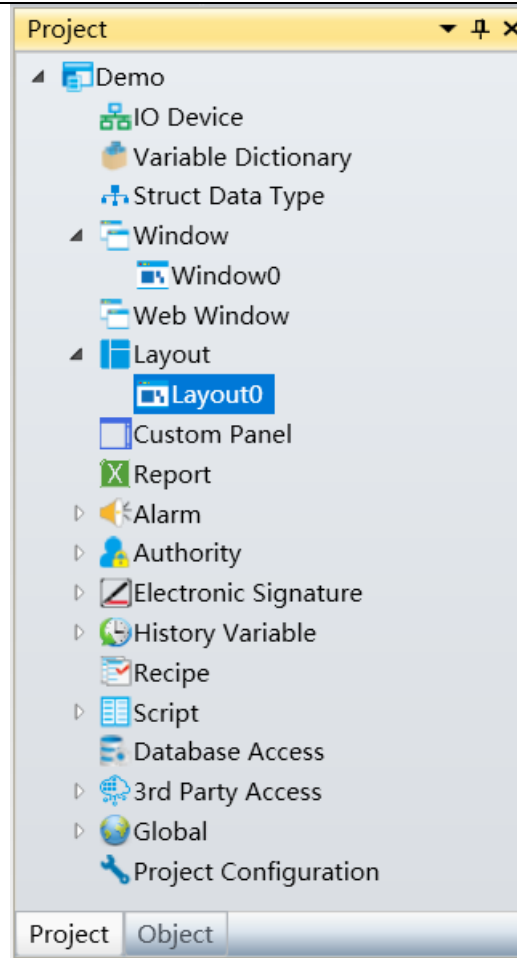
Custom Panel is a component panel that is freely defined by users and used to display in a window. It is a standardized window object that is centrally created as a type in a project. When window objects duplicate and similar, using panels to complete a one-time object design can reduce project configuration work by using panels in multiple windows, and instances can be centrally changed through panel types.

New Layout: Create a blank layout with a default name

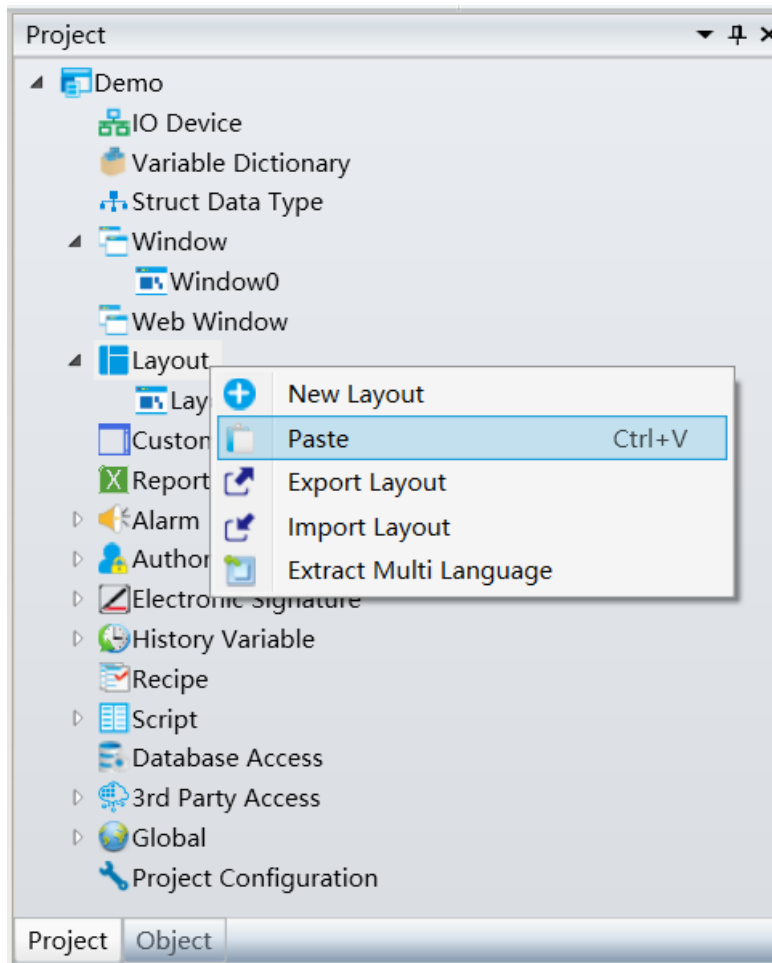
Right click on the Layout node in the tree directory of the engineering webpage window, and click on the New Layout item in the right-click menu, as shown in the following figure:



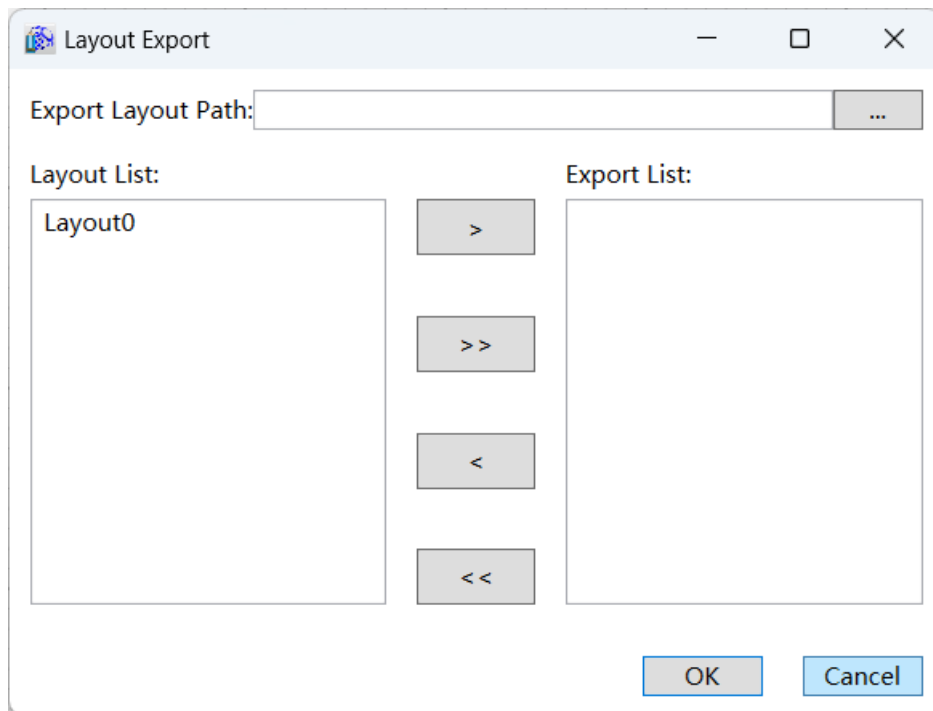
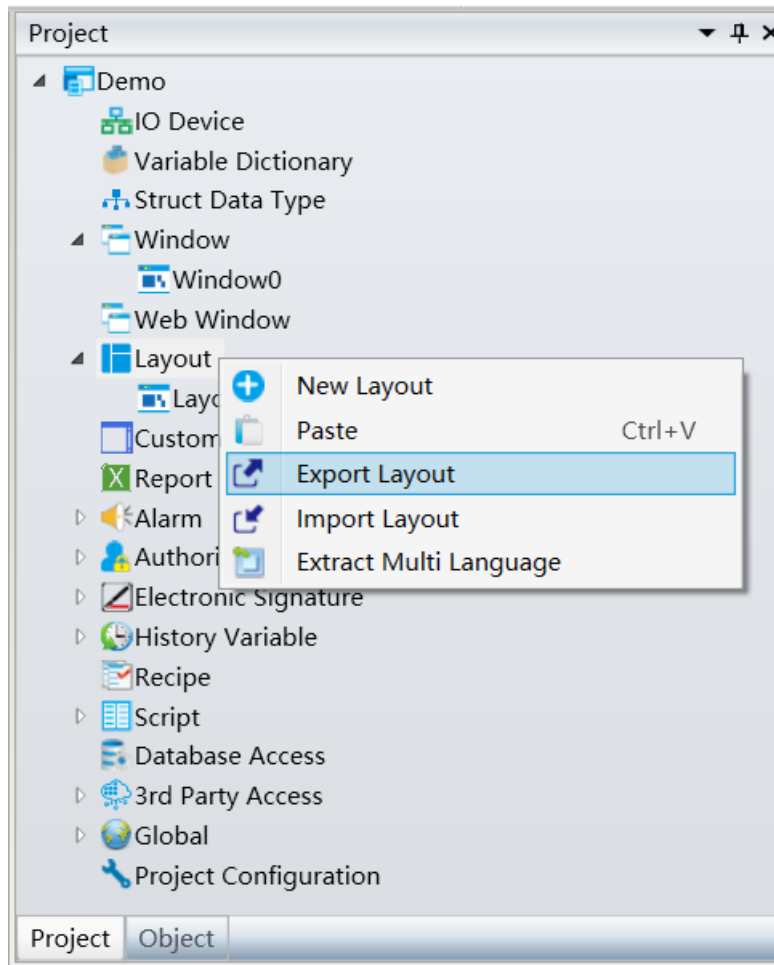
After clicking New Layout, the system will generate a layout sub node with a default name under the Layout node, and open the newly created layout in the canvas workspace, as shown in the following figure:



Paste: Paste the copied layout under the Layout node, select the layout node, right-click, and click the Paste item in the right-click menu. As shown in the following figure:



Export Layout: Export the layout to the specified location, select the layout node, right-click, and click the Export Layout item in the right-click menu. The export layout will pop up normally. As shown in the following figure:

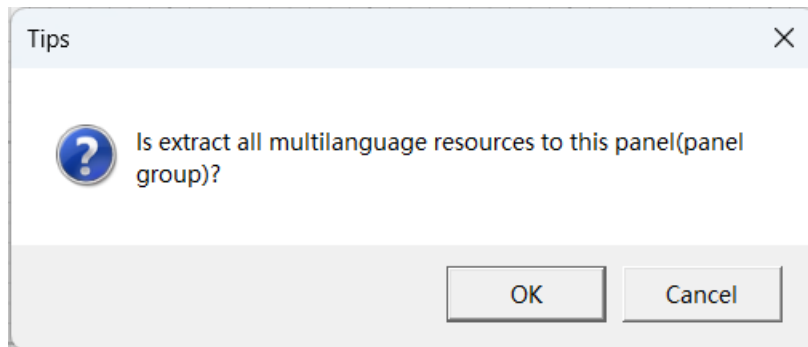


Element	Description
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Export Layout Path	Specify the location of the layout to export
Layout List	Display all layouts under the project
Export Layout List	Show all layouts to export
>	Add the selected layout from the layout list to the export layout list
>>	Add all layouts in the layout list to the export layout list
<	Remove the selected layout from the export layout list
<<	Remove all layouts from the exported layout list

Import Layout: Import the layout to the Layout node, select the Layout node, right-click, and click the **Import Layout** item in the right-click menu. The file selector will pop up normally, select the path where the exported layout is located, and select the layout file import in the path.

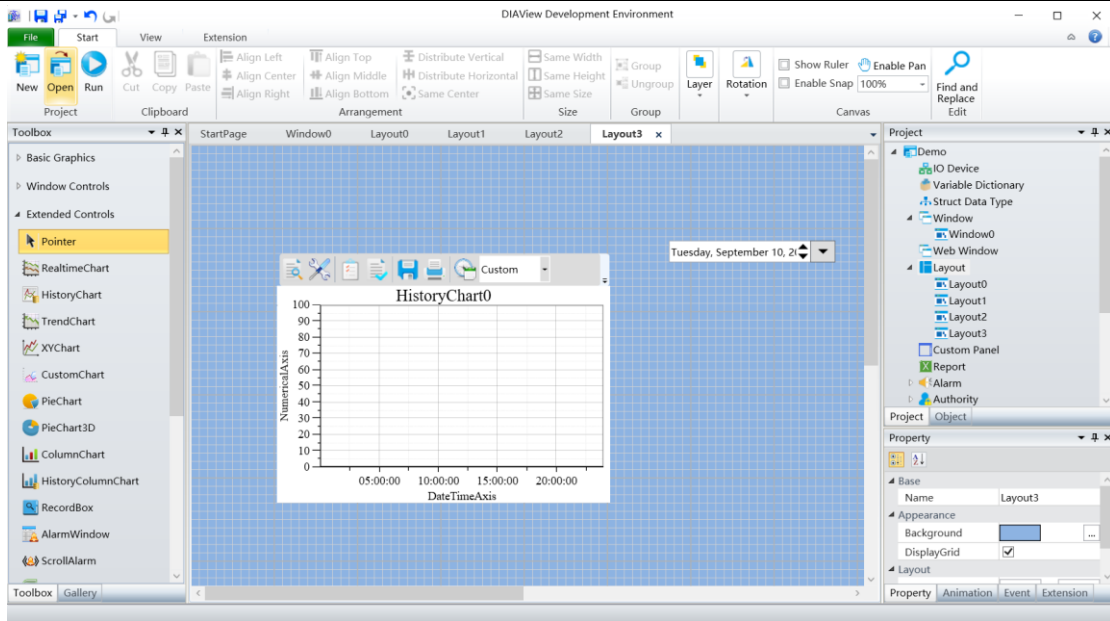
Extracting Multi Language: Extract control text from all layouts under the project into multilingual resources. In the engineering tree directory, select the Layout node, right-click, and click the Extract Multi Language item in the right-click menu. A prompt box will pop up indicating whether to confirm the extraction of multiple languages. Click the OK button to extract multiple languages. As shown in the following figure:



Open layout

When creating a new layout, it will automatically open in the canvas workspace;

If a layout already exists under the Layout node, it can be opened by double clicking on the sub node of the Layout to be opened. The drawing board workspace can open multiple layouts simultaneously, as shown in the following figure:

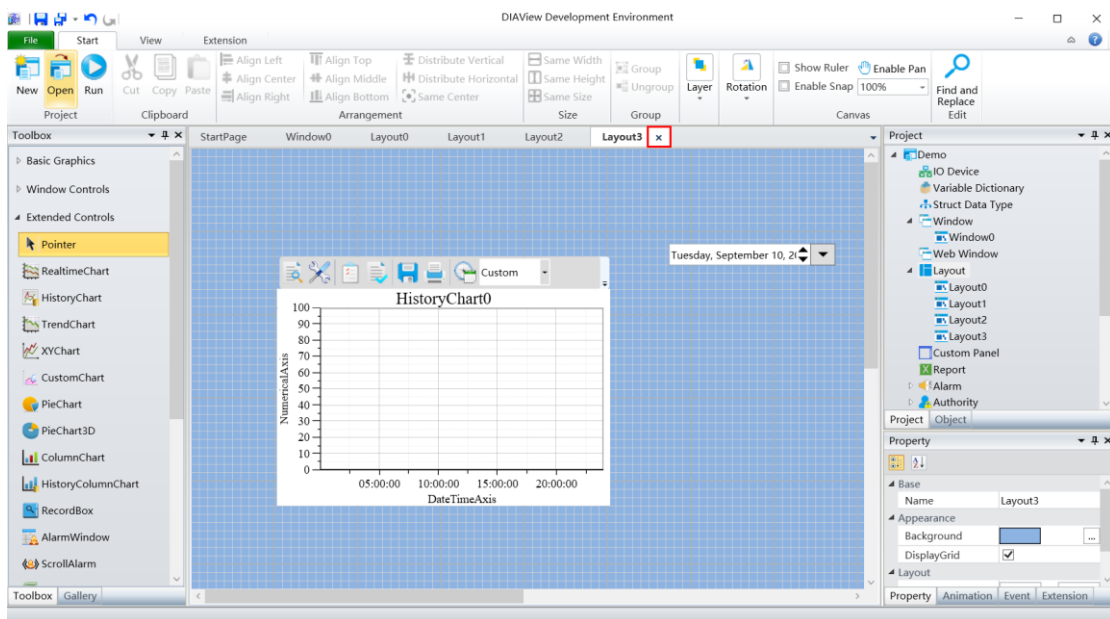


Close layout

There are multiple ways to close the layout:

Method 1:

In the canvas workspace, to close the open layout, click on the " X " to the right of the layout name.

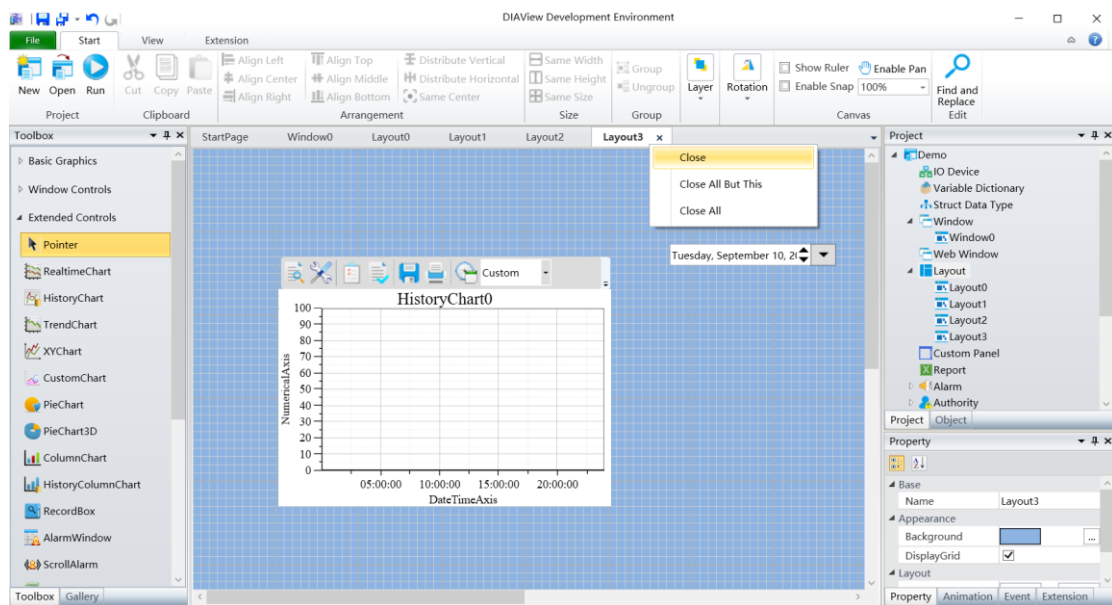


Method 2:

In the drawing board workspace, right-click on the open layout name bar and select the close method (3 options):

- (1) **Close**: Close the current layout
- (2) **Close All But This**: Close all other layouts except the current one

(3) **Close All:** Close all layouts



Design of Layout

Double click on the newly added layout to enter the layout design interface, which is common to the window editing interface and the same as traditional window object editing methods.

The main form of the layout supports grid, adsorption, translation, zooming in and out, and the supported properties are as follows:

(1) **Basic: Name, Grid Display, Background;**

Name: The name of the layout. The name of the layout node in the project directory tree is consistent.

Background: Set the background color of the layout palette, with fill styles such as monochrome, pattern, image, gradient brush, radial brush, etc.

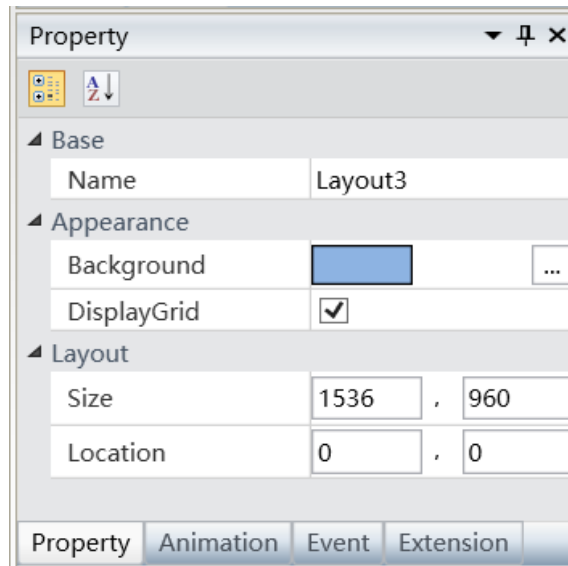
Grid Display: Whether the layout drawing board displays grid lines to facilitate the alignment and arrangement of graphic object positions during graphical interface development. The grid is only visible in the development environment and not visible during system operation.

(2) **Layout: size, location;**

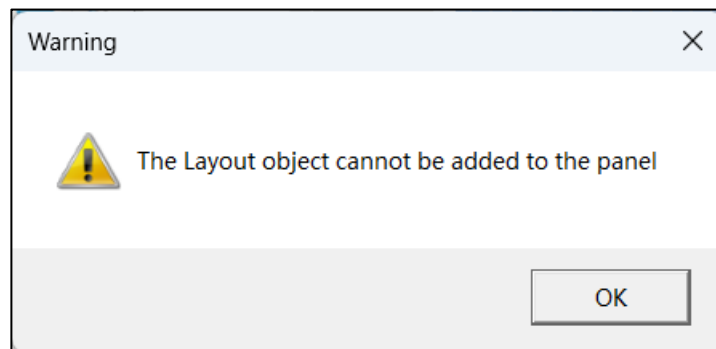
Size: Set the width and height of the layout in pixels.

Location: Set the position where the layout is displayed at runtime.

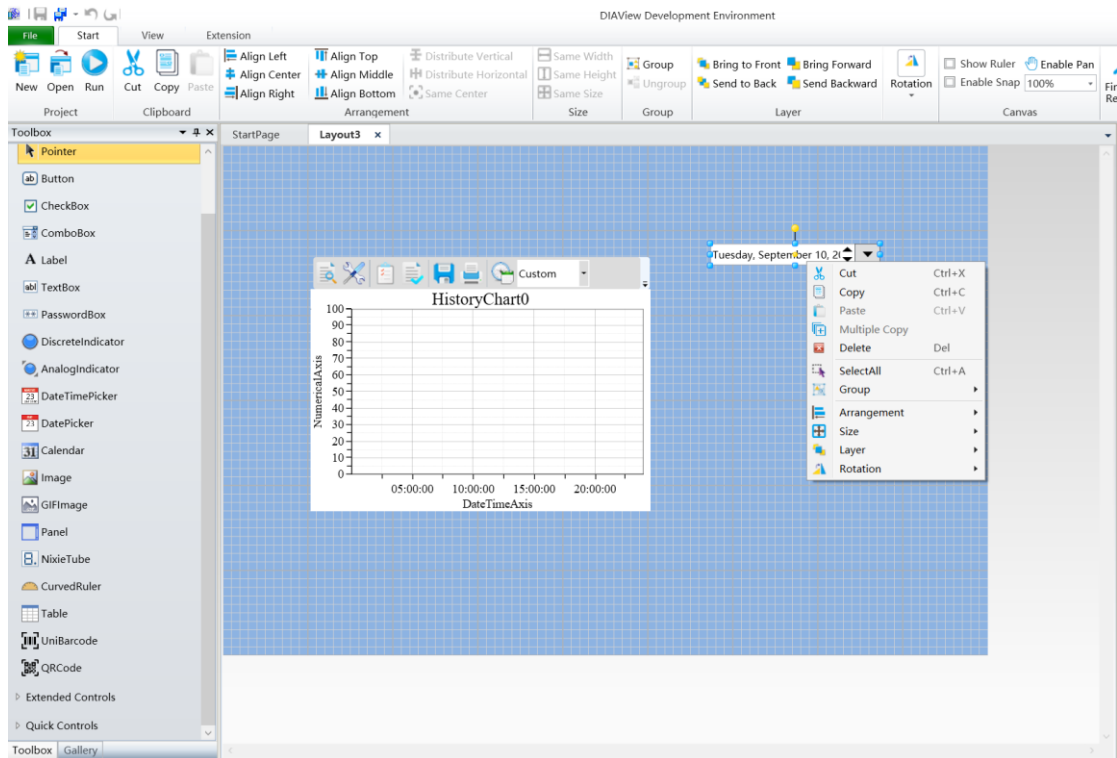
(3) **No Animations, Events, Extensions.**



Layout supports the use of basic graphics, window controls, extended controls, and shortcut controls. The use of panel instances is not supported. When dragging and dropping unsupported controls from the panel, the prompt The Layout object cannot be added to the panel will appear. As shown in the following figure:

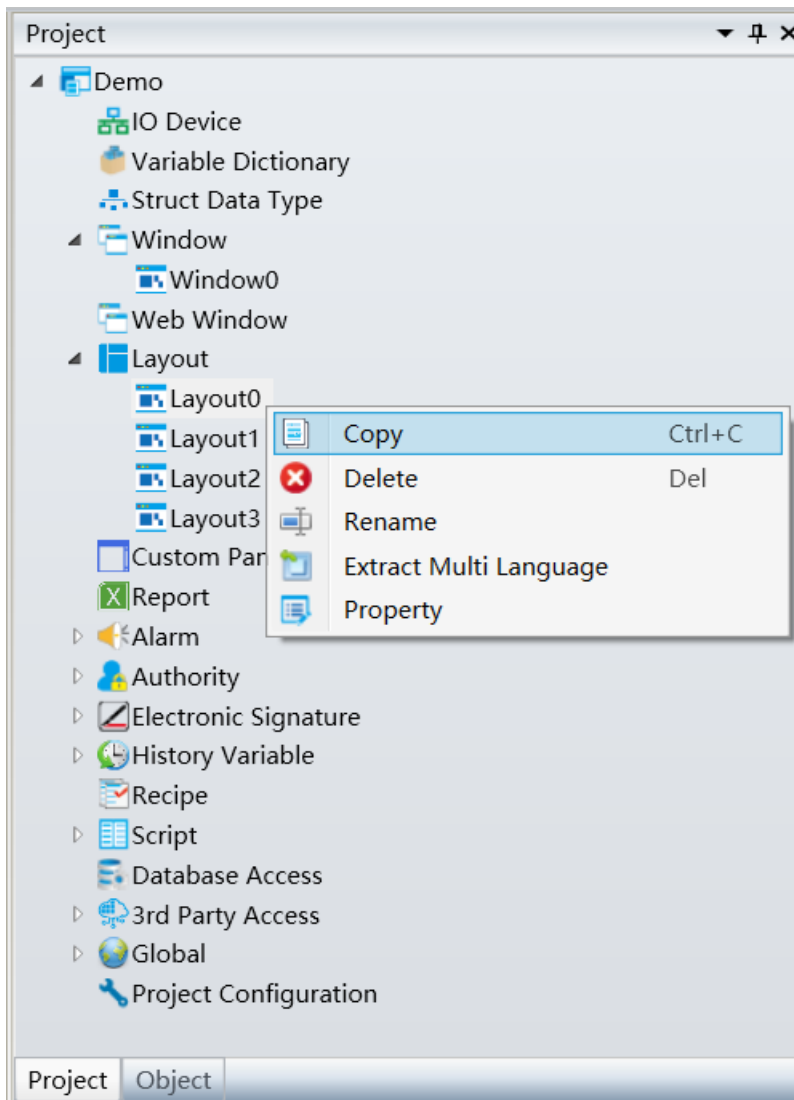


When manipulating objects in the layout, the supported functions are the same as traditional window object operations, including alignment, arrangement, layer, rotation, flipping, and combination. The combined graphics in the layout still support extended attributes. As shown in the following figure:

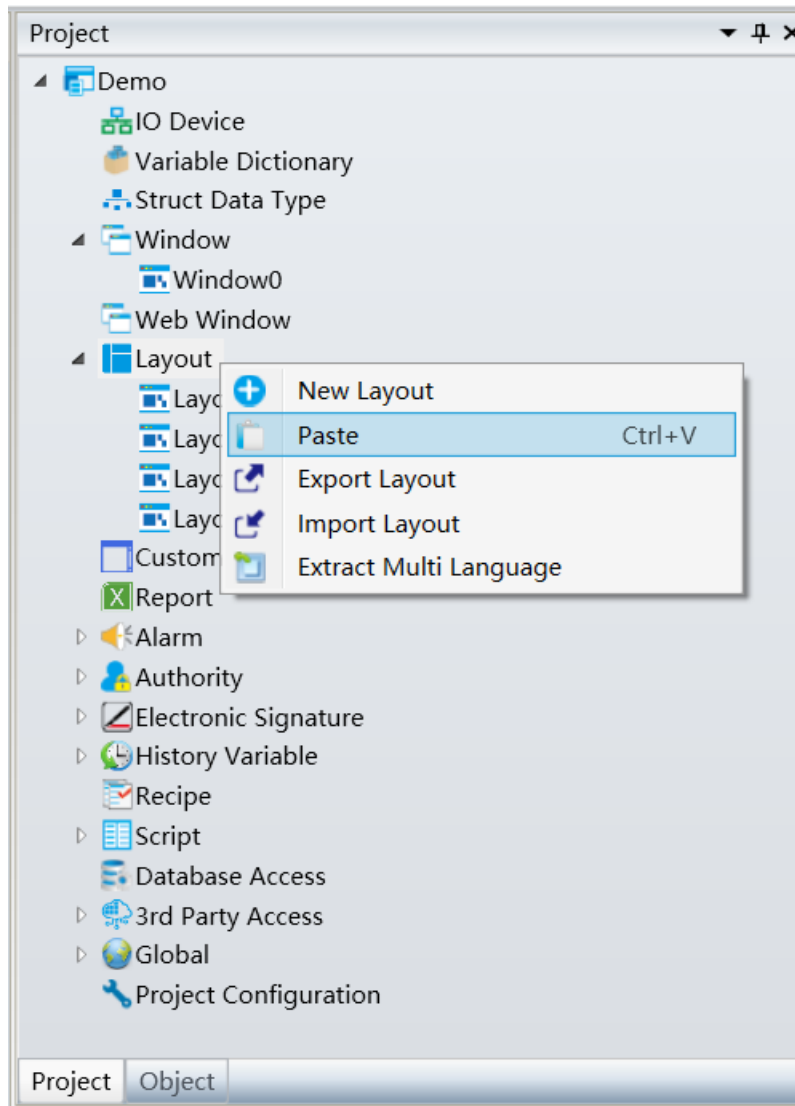


Layout Copy

In the tree directory of the engineering Layout, select the layout node to be copied, right-click, and click the Copy item in the right-click menu (save the layout before copying), as shown in the following figure:

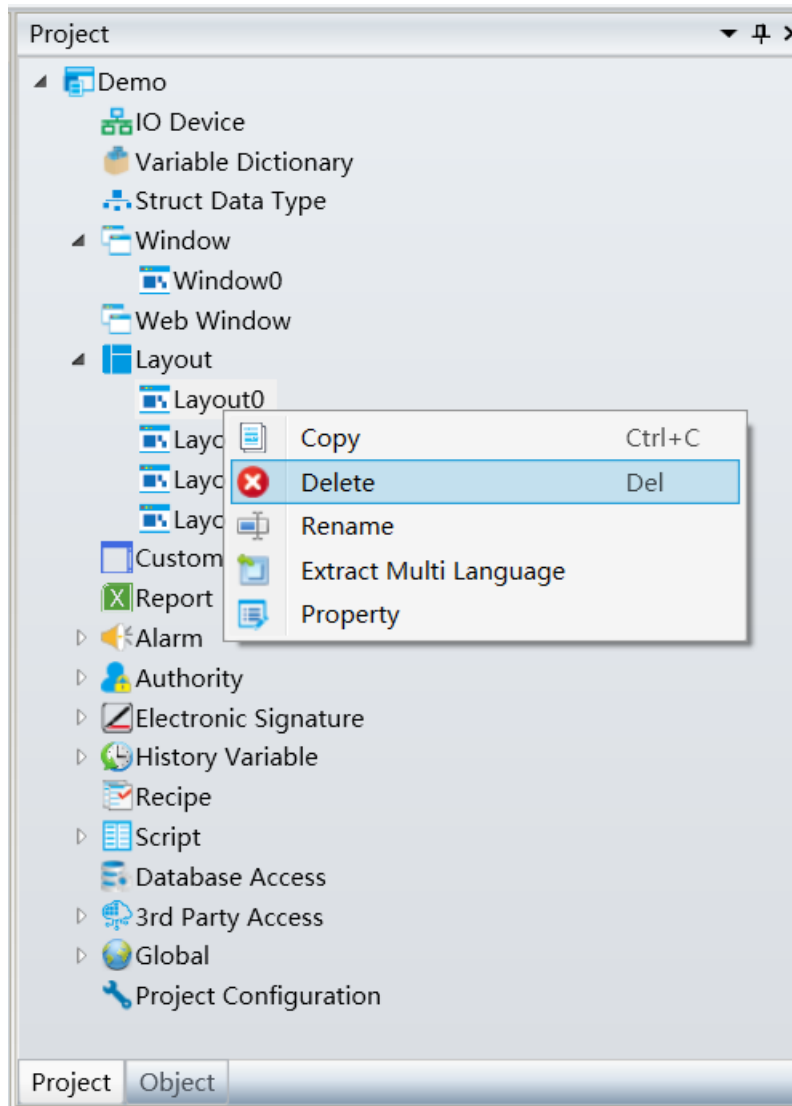


To paste, click on the root node of the Layout, right-click, and click Paste in the right-click menu, as shown in the following figure:



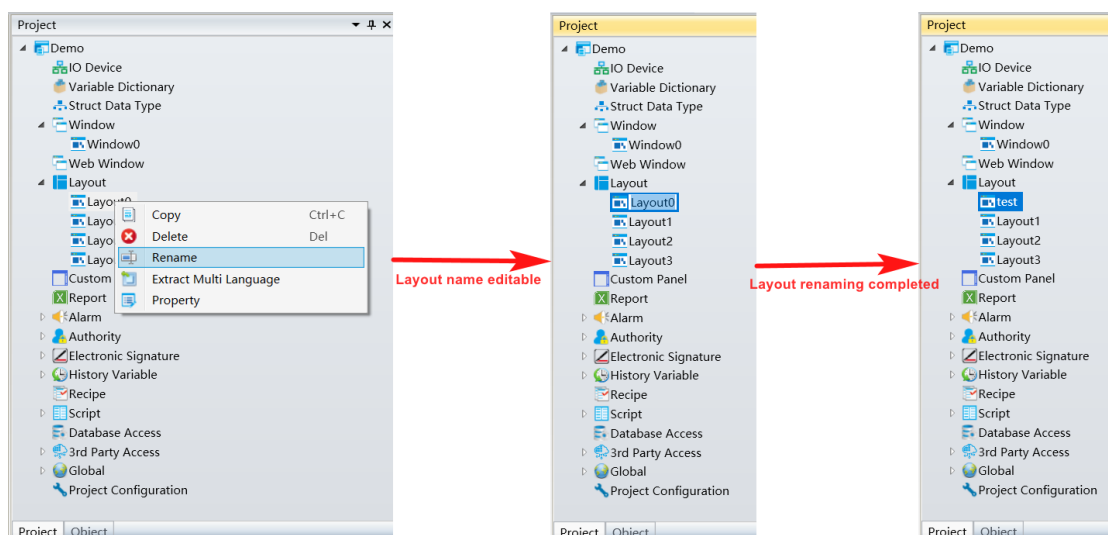
Delete Layout

In the tree directory of the engineering Layout, select the layout node to be deleted, right-click, and click the Delete item in the right-click menu, as shown in the following figure:



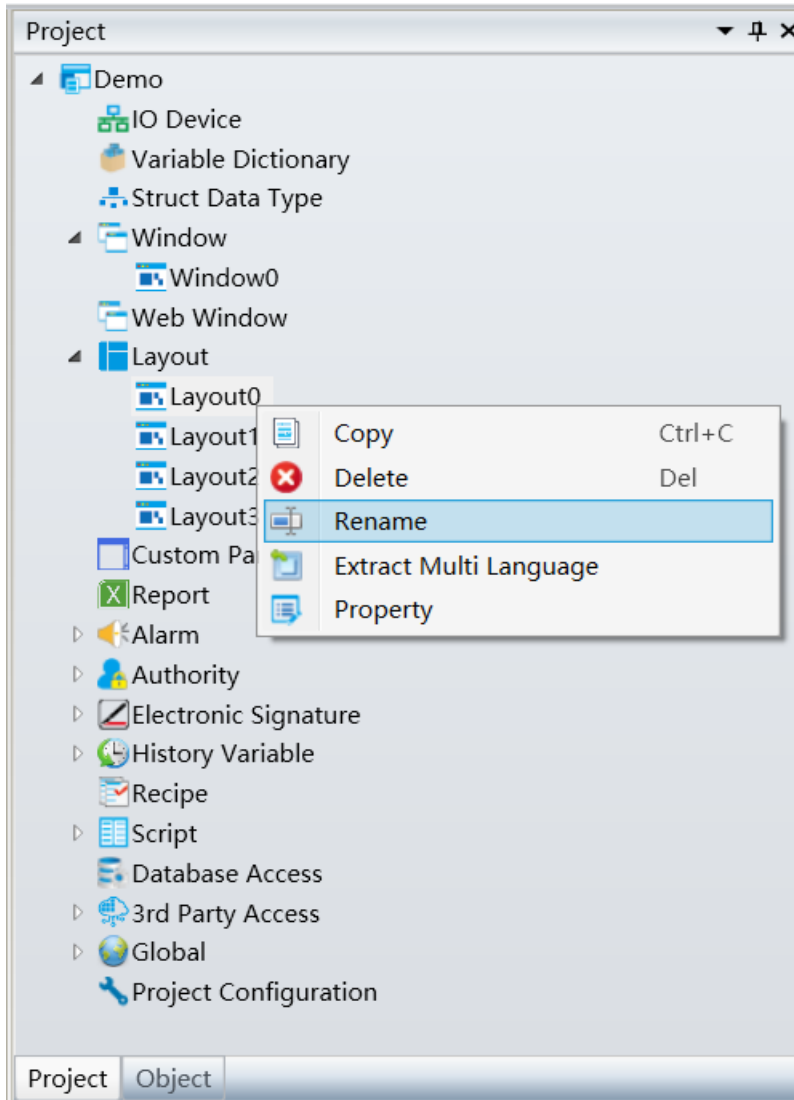
Layout Rename

In the tree directory of the engineering Layout, select the layout node to be renamed, right-click, and click the Rename item in the right-click menu. The layout name will become editable and enter a new layout name, as shown in the following example:



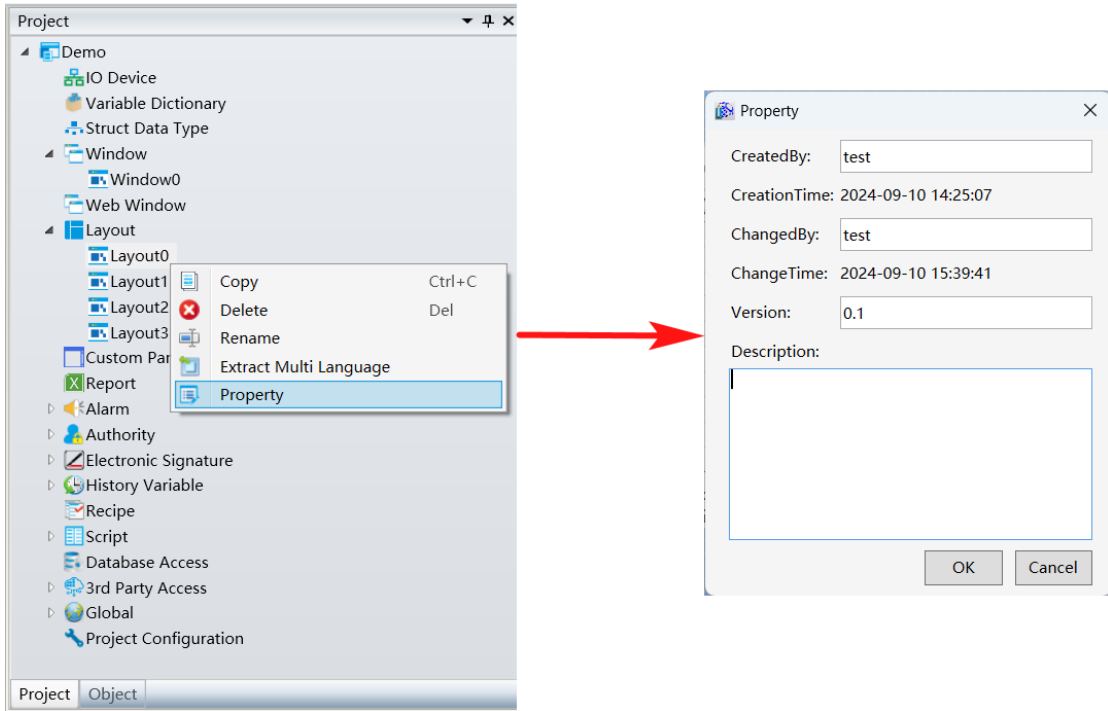
Layout Extract Multi Language

Extract the control text in the layout into multilingual resources. In the tree directory of the engineering Layout, select the layout node to be operated on, right-click, and click the Extract Multi Language item in the right-click menu, as shown in the following figure:



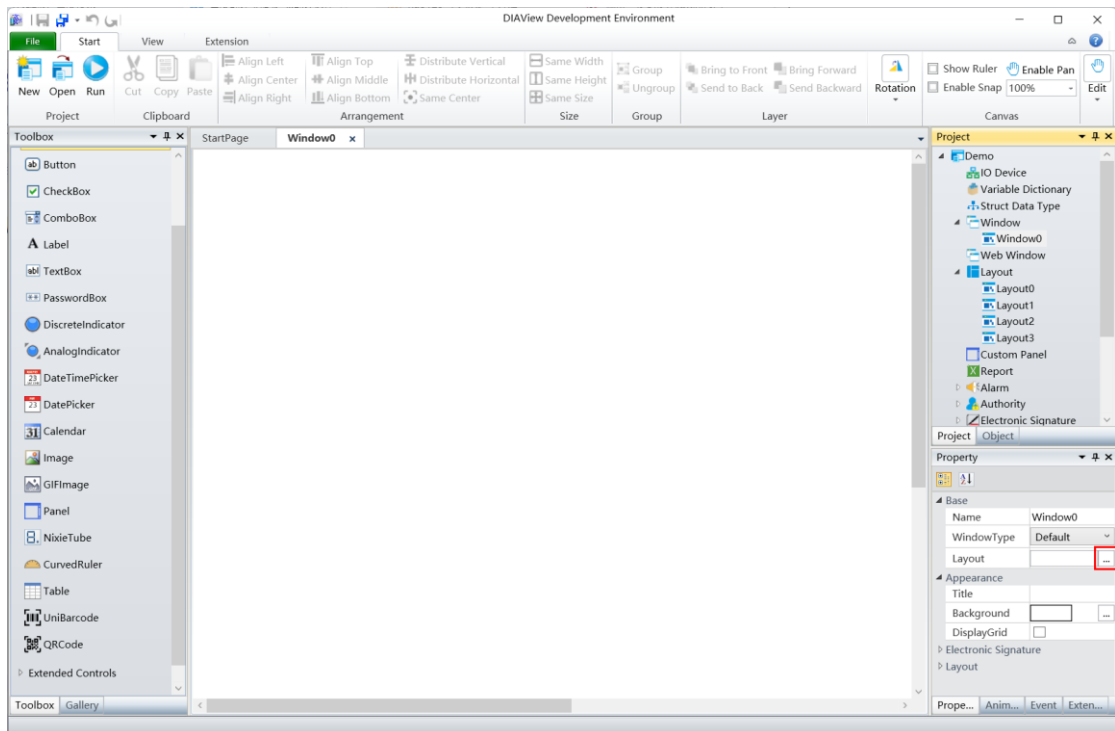
Layout Properties

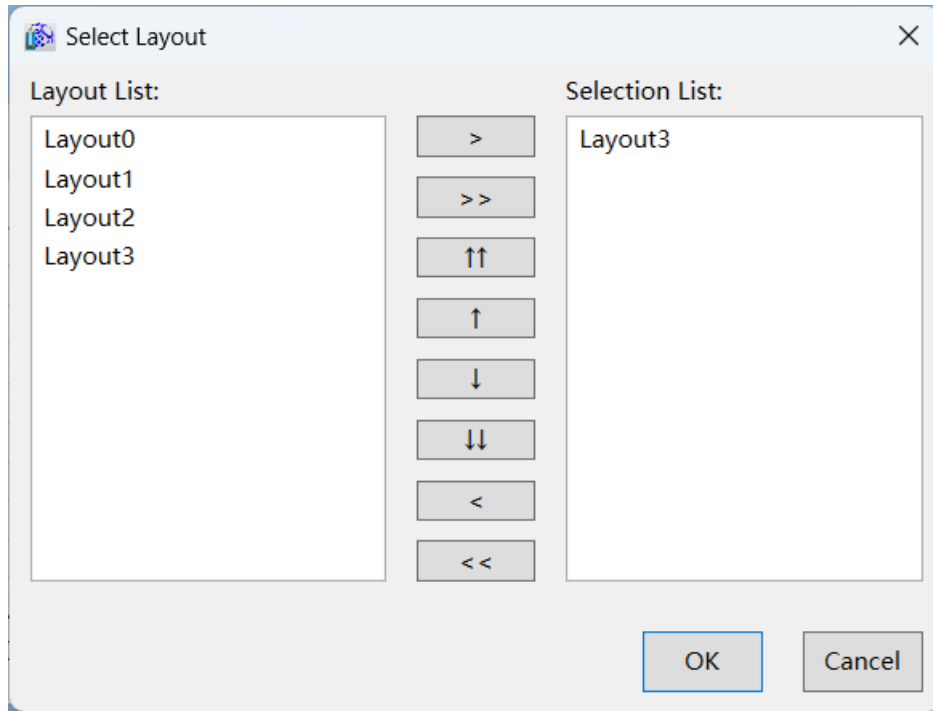
The layout properties display information such as the creator, creation time, modifier, modification time, and version of the layout. The creator, modifier version, and description can be customized by the user, and the creation time and modification time cannot be changed. In the tree directory of the engineering layout, select the layout node to be operated on, right-click, and click the "Properties" item in the right-click menu, as shown in the following figure:



Application of Layout

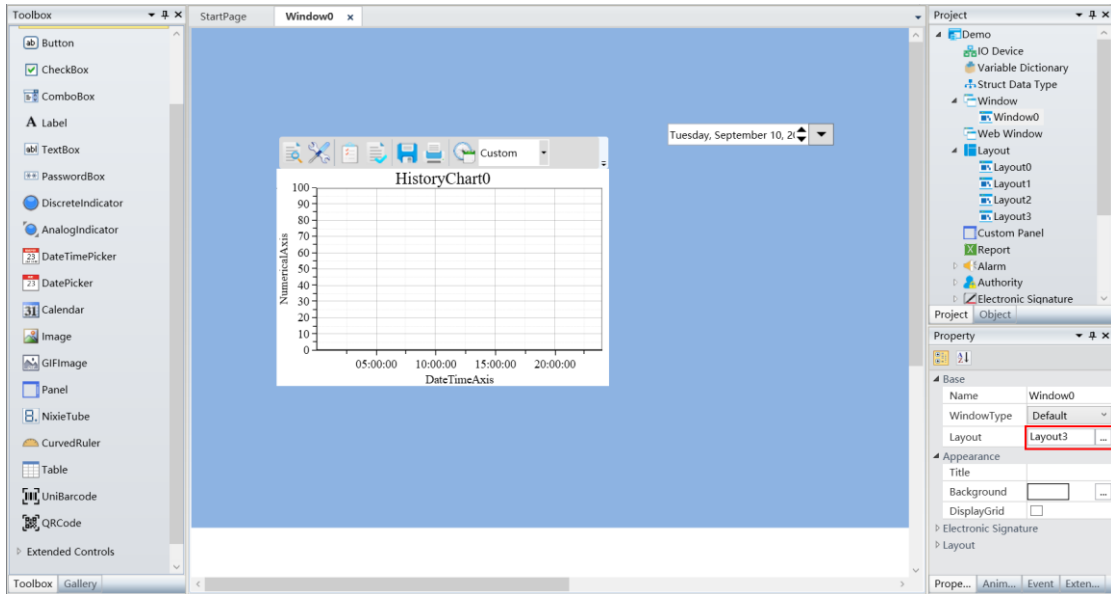
Enter the screen window interface and click on "Property" → "Basic" → "Layout", a selection layout interface will pop up, as shown in the following figure:





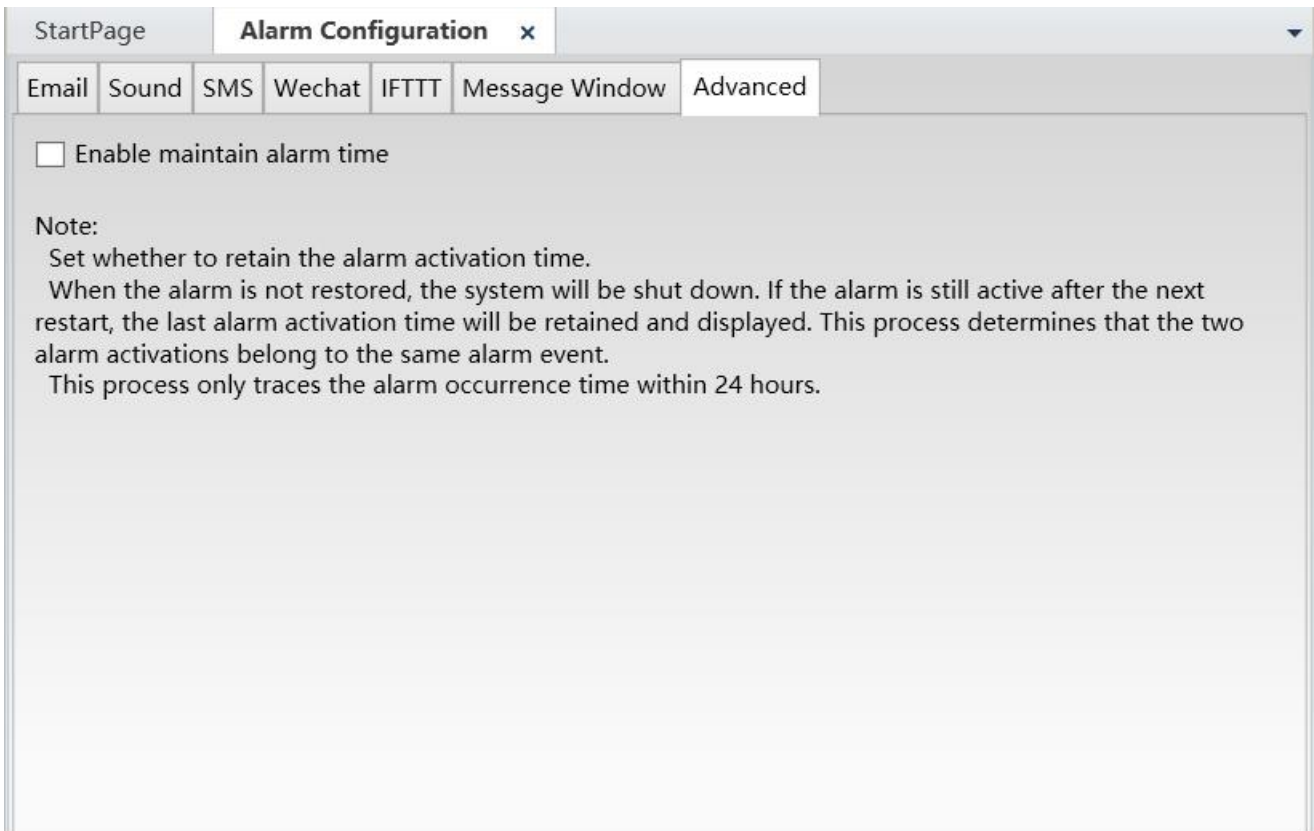
Element	Description
Layout List	Display all layouts in the project
Selection List	Layout to be referenced
>	Add the selected layout from the layout list to the selection list
>>	Add all layouts from the layout list to the selection list
↑↑	Place the layout at the top
↑	Move the layout up
↓	Move the layout down
↓↓	Place the layout at the bottom
<	Remove the selected layout from the selection list
<<	Remove all layouts from the selection list

Select the layout in the layout list, click OK, window reference layout successful, list the layouts referenced in "Property" → "Basic" → "Layout".



6. New enable maintain alarm time function

This feature ensures accurate recording of alarm trigger times after system reboot.



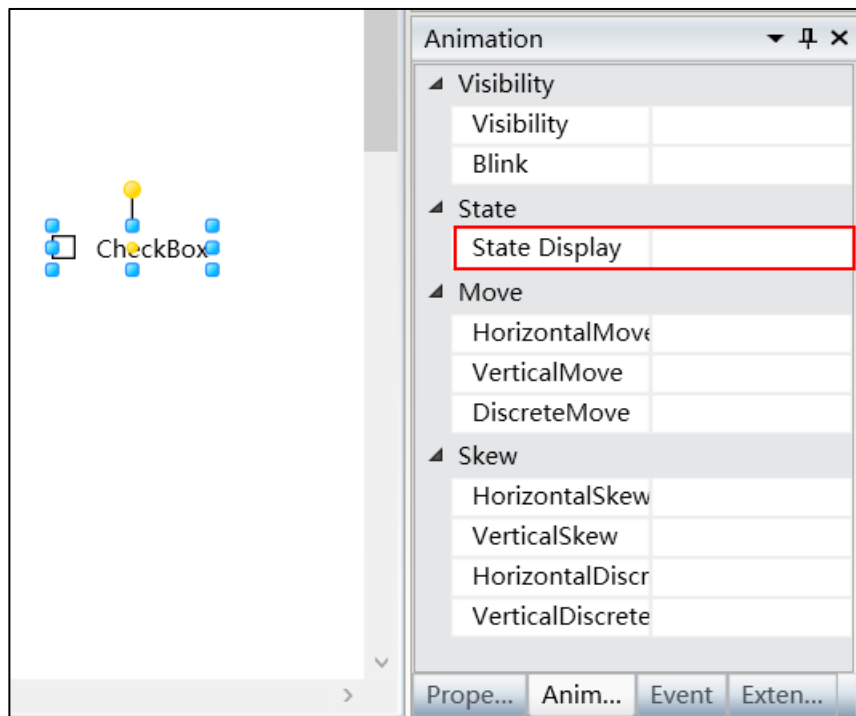
By checking the box before Enable maintain alarm time, you can set whether to keep the alarm activation time, so as to ensure that the system is shut down within 24 hours. After restarting, any alarms that have not been restored will still be triggered at the time before the system was shut down.

Note: The checkbox before Enable maintain alarm time is unchecked by default. In this state, after restarting the system, the alarm trigger time is updated to the system restart time. If the user needs to remember the triggering time before restarting the system within 24 hours, they need to set it to the selected state by themselves.

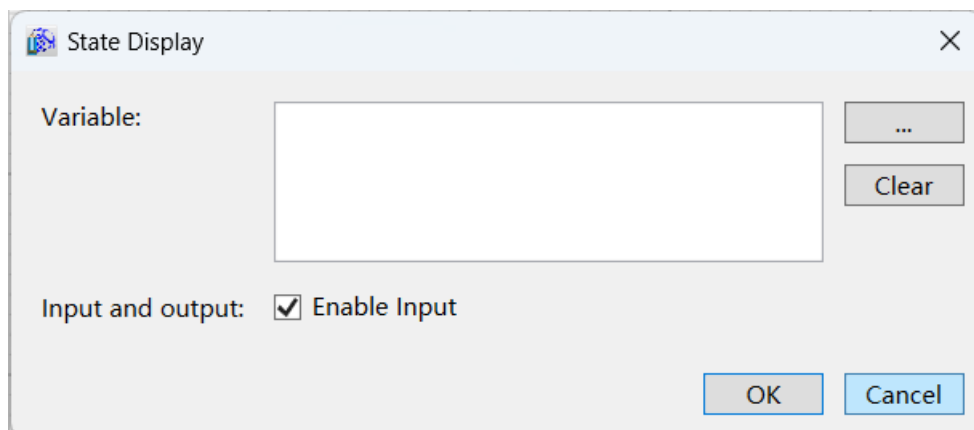
7. New state display animation of checkbox

This feature links the checkbox state with the value of the bound switch, providing a dynamic visual representation.

Step1. Open the window to configure animation in the project in the development environment of DIView configuration software → select the graphic object to configure animation in the drawing board → open the Animation window → select State Display → click the button in the State Display column, as shown below:



Step2. The State Display animation configuration window will pop up, as shown below:

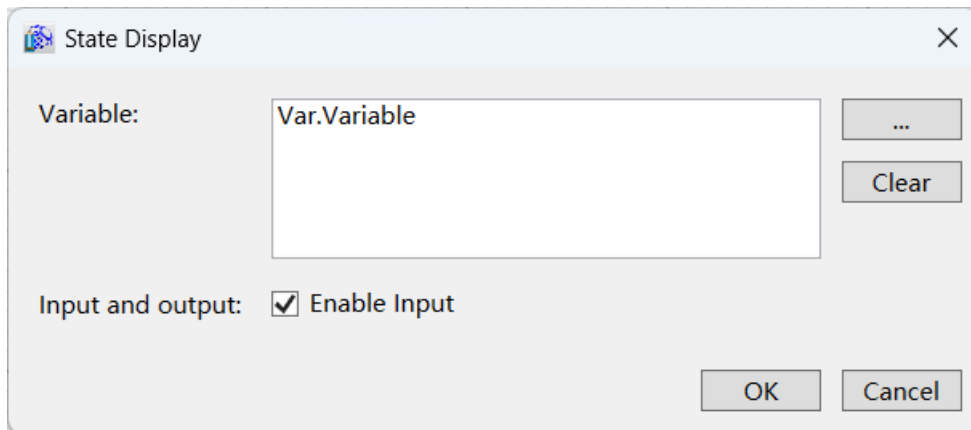


The meaning of each setting in the configuration window is as follows:

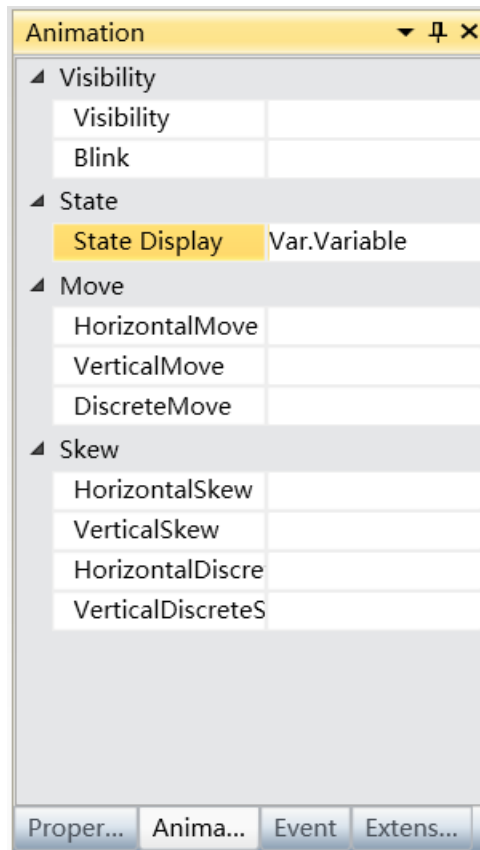
Variable: Enter an Variable, or click the button to open the variable browser to select a variable. The Clear button clears the contents of the input box.

Input and output: Support setting Enable Input, default checked; Check the Enable Input, it means that when operating on the CheckBox, True or False will be assigned to the bound variable, when the value of bound variable changes, the state of CheckBox synchronously changes. Uncheck Enable Input, it means disallow operation on the CheckBox, when the value of the bound variable changes, the status of the checkbox will synchronously change.

Step 3: After inputting variable, as shown below:



Step 4: After configuration, click *OK* to complete the animation configuration of *State Display*. The configuration information of this graphic animation will be displayed in the *Animation* window, as shown below:



To delete the animation, simply select the animation in the animation list and then right-click the mouse and select Delete.