# 9. Object General Properties

This chapter explains the basic settings of an object.

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### 9.1. Overview

The basic steps to create an object:

- 1. Selecting the PLC device and setting the read/write address.
- 2. Using Shape Library and Picture Library.
- 3. Setting label text.
- 4. Adjusting profile size.

This chapter explains the basic settings of an object.

### 9.2. Selecting PLC and Setting Read/Write Address

Most objects read data from PLC devices, so a properly configured PLC address is needed. Select the PLC to control at [PLC name] which comes from [System Parameters Settings] » [Device List].

Write address PLC name : [] Address : []		• 0	TDX 0	Setting 16-bit Unsigned
Address				<b>—</b>
	LW	System tag		•
Tag Library		ĺ	ОК	Cancel

Setting	Description
PLC name	Select the PLC type.
Device type	Different PLCs have different device types.
Address	Set the read/write address.
System tag	Address tags include [System Tag] and [User-defined Tag].
	This option allows users to use [System Tag]. [System Tag]
	consists of the preserved addresses by system for
	particular purposes. The address tags include bit registers
	or word registers (LB or LW).
	After selecting [System tag], not only will the [Device type]
	field display the chosen tag, but [Address] field will also
	display the chosen register.

	Index register Select this check box to use the [Index Register].	
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- For more information about System Tag, see "22 System Reserved Words and Bits".
- For more information about Index Register, see "11 Index Register".
- For more information about Tag Library, see "16 Address Tag Library".

### 9.3. Using Shape Library and Picture Library

In the settings dialog box of certain objects, "Shape" tab can be found. In this tab, Shape Library and Picture Library can be used to add visual effects on objects. Select Shape tab to use the libraries when creating an object.

1		State :	0 -
		Picture	Flat Button
1		1201020.	STYLING SVG
1			106x106
0 1		fore picture lil	oraries
Picture	Picture Library		🔽 Use picture
	Set to original dimensions		Tel oso piotore
	set to original dimensions		
	Duplicate these a	attributes to eve	ery state
Shape	Shape Library	]	<b>V</b> Use shape
	🔽 Inner		
	📝 Frame	-	
	Pattern color :	-	
	Pattern type :	-	
	Durlint		
	Duplicate these a	unioutes to eve	ery state

#### 9.3.1. Picture

Select [Use picture] and then click [Picture Library] button to open Picture Manager window and select a picture from the window.



stem Flat Button				-   🔊				
stem Flat Button								
	Flat Button	1	Flat Button States : 2 Objects : 0		*			
2	Flat Button	3	Flat Button			Export	. Modify	
	States : 2		States : 2			Export.	STYLING S	VG
	Objects : 0		Objects : 0			0	106x106 3817 bytes	
4	-	5					STYLING S	VG
	Flat Button		Flat Button				106x106 3651 bytes	
	States : 2		States : 2			<del>.</del>		
	Objects : 0 🛛 🐺		Objects : 0					
6	Flat Button	7	Flat Button		+			
		Bao	ckground :			New	Delete	Clean

Setting	Description
Picture	Click [Picture Library] button in Picture group box to open
Library	Picture Manager window.
Set to original dimensions	When this checkbox is selected, EasyBuilder will return the picture to its original size to eliminate the redrawing step.
Duplicate these	This button is available only when a system picture is used.
attributes to	Clicking this button will duplicate the attributes of the
every state	current picture to other states.

### 9.3.2. Shape

Select [Use shape] and then click [Shape Library] button to open Shape Manager window and select a shape from the window.



Shape manager	
Project Library System Frame	Inner Ø Display
System Frame	Frame
2 5tates : 2 0bjects : 3	Color : Type : T
4         5           §tates : 2         \$           \$         \$           \$         \$           \$         \$           \$         \$           \$         \$           \$         \$	1 Inner,Frame
Background :	Delete Clean OK Cancel Help

Setting	Description				
Inner	Select [Display] to show the inner color of the shape and				
	select a color as the inner color by clicking the drop-dow				
	button.				
	Default  Default  Recent				
	Custom				
Frame	Select [Display] to show the frame color of the shape and				
	select a color as the frame color by clicking the drop-dowr				
	button.				

Pattern color	olor Click the drop-down button to select a color for the	
	interior pattern of the shape.	
Pattern type Click the drop-down button to select a pattern.		

states	states.
Set to all	Duplicate the attributes of the current state to other

#### 9.3.3. Shape manager

In Picture Manager and Shape Manager windows, the currently selected picture / shape is highlighted yellow as shown below.

Shape manager	X
Project Library	Inner Ø Display
button2 C\EBpro\library\button2.plb	
0 Shape0 States : 2 Objects : 0 Objects : 0 States : 2 Objects : 0 Objects : 0	Frame
2 Shape2 States : 2 Objects : 0 States	More options 0 Inner
4 Shape4 States : 2 Objects : 0 States : 2 Objects : 0 States : 2 Objects : 0 States : 2 Objects : 0 States : 2 Objects : 0	
6 5hape6	
Background :	Delete Clean
	OK Cancel Help

The information about the selected picture / shape:

Directory The directory from which EasyBuilder searches for the pictures / shapes.

Shape5 Name of the shape.

States: 2 Number of states of the shape.

Objects: 1 This shape is used by 0 object in the project.

Inner The state 0 and state 1 of this shape contain only "inner" but not "frame."

For more information, see "14 Shape Library and Picture Library".



### 9.4. Setting Label Text

	New Bit Lamp/Toggle Switch Object					
	General     Security     Shape     Label       Image: Use label     Add to Label Library     Label Library       Image: Use label library     Use label library					
	State : 0 I Content Duplicate this label to every state					
	Preview with actual font size  Attribute  Font: Arial [Arial] [Droid Sans]  Size: 16  Color:					
	Contraction         Italic         Underline         Horizontal:         Center         Text area position         Horizontal:         Center         Vertical:         Center         Duplicate these attributes to         Every state					
	More OK Cancel Help					
ting	Description					
label	Use a label for the object.					
	Add to Label Library					
	Add a new label containing the content for all					

Use label library Label Library	Add to Label Library Add a new label containing the content for all states to the Label Library. Use a label from the Label Library.
	Label Library.
	Use a label from the Label Library.
Label Library	
	View all the labels in the Label Library.
	For more information, see "15 Label Tag Library and Multi
	Language".
Content	Set the content of the label. If [Use label library] is
	selected, the content in the Label Library can be used.
Duplicate this	
label to every	Copy the content of the current state to all states.
state	
Tracking	With this option selected, changing the position of the

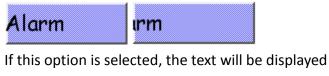
9-7

	text in one state will also change the text position in othe states.					
Font	Select a font from the list. EasyBuilder Pro supports					
	Windows True-type fonts.					
Size	Select a font size.					
Color	Select a font color.					
Blink	Specify the way the text blinks. Choose [None] to disable					
	this feature or set the blinking interval to [1 second] or					
	[0.5 seconds].					
Italic	Use Italic font. Italic Label					
Underline	Use Underline font. <b>Underline Label</b>					
Text Alignment	Multiline text is aligned within the label outline.					
	Below are the corresponding shortcut keys					
	[Left] [Center] [Right]					
	111 111 111 222222 222222 222222 33333333 333333333					
Text area	Multiline text is aligned within the object outline.					
position	Below are the corresponding shortcut keys.					
	I = v       I = v       Av       L1       L2       L3       L4       I         I = Left Alignment       I = Top Alignment       I = Top Alignment       I       I       L1       L2       L3       L4       I         I = Left Alignment       I = Top Alignment       I = Top Alignment       I       I       I       I         I = Right Alignment       I = Bottom Alignment       I       I       I       I       I					
	Horizontal Vertical					
Duplicate these attributes to every state	Copy the attributes of the current state to all states.					
More	Convert labels to bitmap images (Use bitmap font)					
	Convert the label text into bitmap format. This setting is					
	only available for non-cMT models.					
	ON = OFF (use state 0)					
	The content displayed will not change due to state.					
	Movement:					

Set the direction of the marquee effect. The directions include: [No movement], [Left], [Right], [Up], [Down]. **Continuous** 

Specify how the marquee effect is displayed.

If this option is not selected, the next text appears only when the previous text disappears completely.



continuously.



#### Speed

Adjust the speed of the text movement.

### Note

- When Text/Comment object is used with Comment enabled, the text used as comment will not appear on HMI.
- When the texts of the fonts used in the editing window and on the HMI screen are not properly aligned vertically, it is possible to correct it with the FontRules.xml file in "%appdata%\Weintek\EasyBuilder" folder.

By adding the names of the fonts in question into the FontRules.xml file, their vertical metrics can be adjusted in advance to avoid the misalignment problem.

### 9.5. Adjusting Profile Size

When an object is created and placed in the editing screen, double click it and select the [Profile] tab to adjust the position and size of the object.



	Bit Lamp Object's Properties					
	General Security Shape Label Profile					
	Position					
	Pinned X: 217 🔄 Y: 208 🖨					
	Size					
	Width : 50 🚔 Height : 50 🚔					
	Width (%): 100 🚖 Height (%): 100 🚖					
Setting	Description					
Position	Pinned					
	When this check box is selected, the position and the size					
	of the object cannot be changed.					
	[X] and [Y]					
	The coordinates of the position of the object in the editing					
	screen.					
Size	Adjust the [width] and [height] of the object.					

### 9.6. Overlapping Objects (cMT / cMT X Series)

The following explains the ways to find the overlapping objects and convert them into a single Combo Button. After conversion, the general settings of the Combo Button will follow the settings of the frontmost object.

### 9.6.1. Enable Touch Area

1. Open View tab and select [Touch Area].

File	8 🖂 🔦		Home	Project	Object	Data/History	/ IIoT/Energy	View	Tool
✓ Com	mon Windo	w 🗹 O	bject Add	ress 🔽 T	ouch Area	✓ Ruler	Address Grid		Web Wind
✓ Under	erlay Windo	w 🗹 O	bject Labe	el Tag		✓ Grid	✓ Windows Tree	•	Shape
🗸 Obje	ect ID	✓ C	omment			🗹 Snap	Vindows Prev	view 🗌	Picture

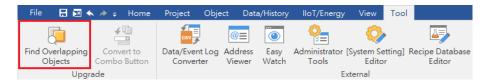
2. All the touchable objects in the proejct will be highlighted in yellow, the overlapping areas will be highlighted in pink, and the objects that are not touchable will remain the same.



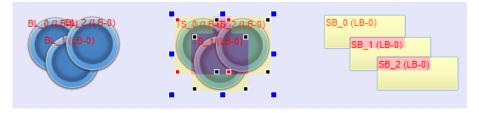


### 9.6.2. Find Overlapping Objects

**1.** Open Tool tab and click [Find Overlapping Objects] to find all the touchable overlapping objects in the project.



2. At the first time clicking [Find Overlapping Objects], the system will find the first group of overlapping objects in the current window. To search for the next group, click this button again. When all the overlapping objects in the current window are found, the system will start searching for overlapping objects in the next window, and then open the window in which overlapping objects are found.



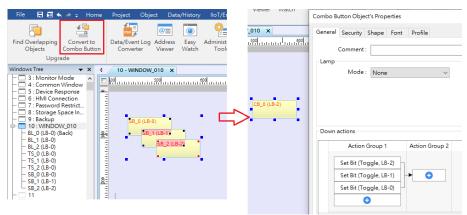
### Note

All layers of a window must be editable before clicking [Find Overlapping Objects].

### 9.6.3. Convert to Combo Button

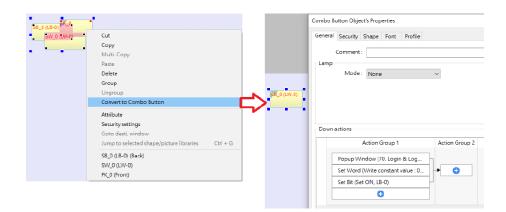
When the overlapping objects found are Set Bit, Toggle Switch, Set Word, Multi-State Switch and Function Key, they can be converted to a single Combo Button by the following ways.

Way 1. Open Tool tab and click [Convert to Combo Button].



Way 2. Select the overlapping objects together, click the right mouse button, and then select [Conver to Combo Button].





After [Convert to Combo Button] is clicked, a review window shows for users to review the actions that can be triggered by the Combo Button. Actions that are not highlighted can be merged; actions that are highlighted in yellow will be automatically adjusted to meet merging condition; and actions that are highlighted in red cannot be merged. The user can move the mouse cursor to the yellow or red area to see explanations.

	tions		
Modify or delete invalio	d actions.		
	Action Group 1	Action Group 2	
OL_0	Unable to convert the object to a.		
SW_0	Set Word (Write constant value : 0		
FK_0	Change common window (50. Ke.		

## Note

The Comment of the generated Combo Button will follow the setting of the frontmost object that has a Comment.

- The Security settings of the generated Combo Button will follow the settings of the frontmost object. If the Security settings of the objects layers down are different from the frontmost object, an alert is shown after conversion.
- The Sound settings of the generated Combo Button will follow the settings of the frontmost object that has Sound settings. If the Sound settings of the objects layers down are different from the frontmost object, an alert is shown after conversion.
- The Picture or Shape, and the Label settings of the generated Combo Button will follow the settings of the frontmost object that has these settings. When there's no object using a picture or a shape, the Combo Button will follow the Label settings of the backmost object that is mergeable.
- The generated Combo Button will have the Vibration setting enabled if any of the overlapping objects has Vibration setting enabled.
- The generated Combo Button will follow the Operation Log settings of the overlapping object that uses Operation Log. When Operation Log is used for multiple overlapping objects, an alert is shown after conversion.

