# 15. Label Tag Library and Multi-Language

This chapter explains how to build and use Label Tag Library.

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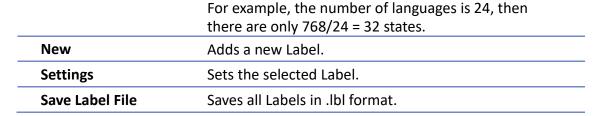
#### 15.1. Overview

The Label Tag Library feature enables a multi-language environment. When multiple languages are required, users can create the Label Tag Library and then select a suitable label in the project. The project will display the corresponding language in runtime based on the settings. EasyBuilder Pro supports up to 24 different languages simultaneously. This chapter will explain how to create and use the Label Tag Library.

## 15.2. Label Tag Library Manager

Click [Project] » [Label] on the toolbar and the [Label Tag Library] dialog box appears.

Label Tag Library										×
State no. : 0	~ <	• 0 1 2 3	4 5 6	7						
No. Label tag name					Language 5	Language 6	Language 7	Language 8		
New Copy	Settings Paste	Delete	Delete All				Label File		Load Label	
Compile all project labels	for future decom	pilation (may significar	ntly increase the :	xob size).				ОК	Cancel	Help
Setting		Desc	ription							
State no	).	of 25 dete are u 4 lar	cates the o 56 states ( rmined b used, the nguages a ber to ge	(state no y [Langu maximu re used)	o. 0 ~ 2 uage no im state divide	55). The .]. If les e no. is 2 768 by	e state n s than 3 256. If n the lang	io. is 3 langua nore th	ages	





EasyBuilder Pro V6.10.01

Loads the existing .lbl file to the Label Library. Saves all Labels in .csv, .xls, or .xlsx format. Loads the existing .csv, .xls, or .xlsx file to the Label
Loads the existing .csv, .xls, or .xlsx file to the Label
<b>-</b> · · ·
Library.
With this option selected, all labels will be included in the compiled .xob file during the compilation process, allowing for the complete restoration of the Label Tag Library in the event of future decompilation. Note that
this may significantly increase the size of the .xob file.



Unicode is not supported when importing and exporting an Excel file.

## 15.3. Steps to Create Label Tag Library

Please follow the steps to create a Label Tag Library.

1. From the Library menu, click [Label]. The Label Tag Library dialog box appears. Click [New] to specify the name of the Label and the number of states to be displayed by this Label.

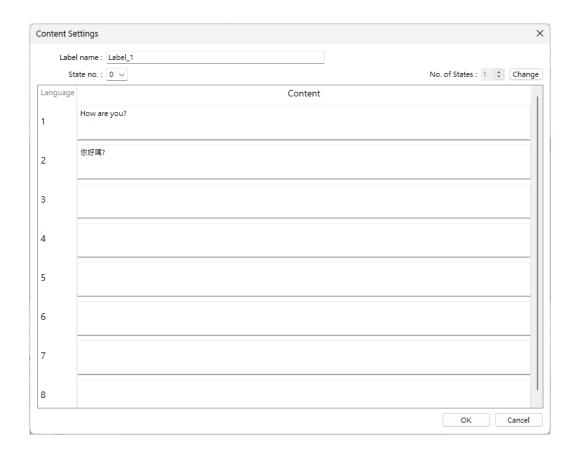
Label	×
Label name : Label_1	
No. of states : 1	
	OK Cancel

 Click [OK] and a new label is added to the Label Tag Library. Select the label and click [Settings] to edit its content.

State no. :	: 0 ~ <	• • • •	3 4 5 6	7				
0.	Label tag name	No. of states	Language 1	Language 2	Language 3	Language 4	Language 5	La
	Label_1	1	text					
	Settings	Delete	Delete All	_	Save La	bel File	Load Label F	ile
New	Settings Paste	Delete	Delete All			bel File	Load Label F Import EXCEL	
Сору				kob size).				

**3.** Edit the corresponding language content.





# 15.4. Using Label Tag Library

When there are defined labels in the Label Library, the labels can be found in the object's [Label] tab. Select [Use label library] check box, and select the label from the pull-down list [Label tag].



eneral Security	Shape Label				
🔲 Use label				Label L	ibrary
🔽 Use label librar	у	Label tag : Lab	el_1 : How are 3	70u?	▼ [0001]
Language :	Language 1	•			
State :	0	-	0 1		
Content			Duplicate	this label to e	very state
How are you	12	1			
		Franklin			
Preview with act	ual font size	Track	ing		
Attribute					
Attribute Font :	微軟正黑體 [Hei	iti TC] [Droid Sans	]		•
Attribute Font :				None	•
Attribute Font :	微軟正黑體 [Hei		]	None	•
Attribute Font : Size :	微軟正黑體 [Hei		] Blink :	None	•
Attribute Font : Size :	微軟正黑體 [Hei	iti TC] [Droid Sans	] Blink :	None	•
Attribute Font : Size : Color :	微軟正黑體 [Hei [16 ] Italic	iti TC] [Droid Sans	] Blink :	None	Y
Attribute Font : Size : Color : Text alignment	微軟正黑體 [Hei 16 Italic Center	iti TC] [Droid Sans	] Blink :	None	•
Attribute Font : Size : Color : Text align ment Horizontal :	微軟正黑體 [Hei 16 □ Italic Center	iti TC] [Droid Sans	] Blink :		* *
Attribute Font : Size : Color : Text alignment Horizontal : Text area position	微軟正黑體 [Hei ]6 ] Italic Center Center	iti TC] [Droid Sans	] Blink :		* *
Attribute Font : Size : Color : Text alignment Horizontal : Text area position Horizontal :	微軟正黑體 [Hei ]6 ] Italic Center Center	iti TC] [Droid Sans	] Blink :		• •
Attribute Font : Size : Color : Text alignment Horizontal : Text area position Horizontal :	微軟正黑體 [Hei ]6 ] Italic Center Center cibutes to	iti TC] [Droid Sans	] Blink : Vertical :	Center	• •

When a tag is selected, the content of the selected tag is shown in the [Content] field in its corresponding font style. Please note that from Language 2 to Language 24 can only be set the Font [Size], the others such as [Color], [Align], [Blink], etc. will follow the settings of Language 1.

## 15.5. Selecting Language & Font

### 15.5.1. Language

Click [Project] » [Language & Font] on the toolbar and the [Language & Font] dialog box appears.



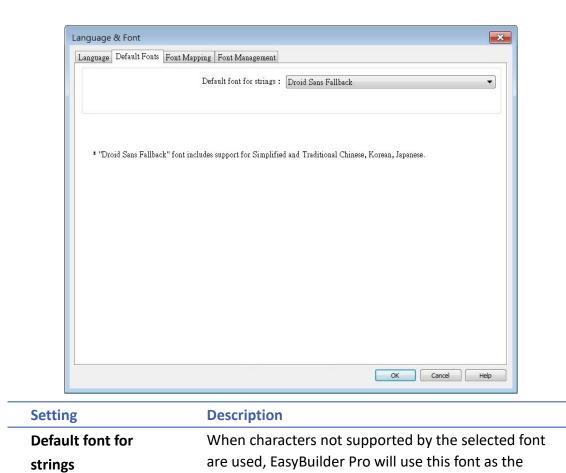
		nguage no. : 8	rg   Font Management	
L	anguage	Display Name	Font	Language Code
1		Language 1	微軟正黑體 [Heiti TC] [Droid Sans]	[Neutral]
2		Language 2	Arial [Arial] [Droid Sans]	[Neutral]
3		Language 3	Arial [Arial] [Droid Sans]	[Neutral]
4		Language 4	Arial [Arial] [Droid Sans]	[Neutral]
5		Language 5	Arial [Arial] [Droid Sans]	[Neutral]
б		Language 6	Arial [Arial] [Droid Sans]	[Neutral]
7		Language 7	Arial [Arial] [Droid Sans]	[Neutral]
8		Language 8	Arial [Arial] [Droid Sans]	[Neutral]
•			m	
HMI s	startup tim	e.)	s support for Simplified and Traditional Chinese reen PC and HMI. See the instruction to solve t	

Setting	Description
Language no.	Specifies the number of languages used in a project.
Font	Shows language names and the fonts used for each
	language. A font description can be entered.
	[Language Code] allows changing the language used
	for push notification about the events in EasyAccess
	2.0, when [Push notification (EasyAccess 2.0)] is
	enabled in Event Log.
	Click the icon to watch the demonstration film.
	Please confirm your internet connection before
	playing the film.

## 15.5.2. Default Fonts

This settings page is used to configure fonts for characters not supported by the selected font. When such characters (e.g., Simplified Chinese, Traditional Chinese, Korean, and Japanese) are used, EasyBuilder Pro will automatically use the font specified here.





default font.

#### 15.5.3. Font Management

nguage	Non-ASCII Fon	ts Font Mapping	Font Management	Complete font file download		
Current	used fonts					
	Name			File position		
Arial		C:\Windows\Fonts\arial.ttf				
Arial	Bold	C:\Windows\Fa	onts\arialbd.ttf			
Comi	c Sans MS	C:\Windows\Fa	onts\comic.ttf			
Times	s New Roman	C:\Windows\Fc	onts\times.ttf			
* To in	abili a fant annu	the fact files to OS	faat Jinatam (i a	CMU: Jane (Frank)	Copy Fil	ee To
	stall a font, copy font in all object		font directory (i.e.	C:\Windows\Fonts)	Copy Fil	es To
			font directory (i.e.	C:\Windows\Fonts)	Copy Fil	es To
	font in all object	a Arial	font directory (i.e.	C:\Windows\Fonts)		



Setting	Description
Current used fonts	This table shows all the fonts used in this project and the file position of its font file.
Copy Files To	Copy the font file to the specified position.
Replace font in all objects	Change font at a time for all the objects using that font.

## 15.5.4. Font Mapping

This tab lists the fonts used in Windows / cMT3000 and the mapping fonts in iOS / cMT-iV5 /cMT-iV6 / Android devices.

ge Non-ASCII Fonts H	out wapping Fout M	fanagement Complete font file download	
Windows, cMT300 🔺	iOS font	cMT-iV5/6, Android	
AdobeDevanagari-Bold	Helvetica Neue	Droid Sans	
AdobeDevanagari-Reg	Helvetica Neue	Droid Sans	
Agency FB	Helvetica Neue	Droid Sans	
Agency FB Bold	Helvetica Neue	Droid Sans	
Aharoni Bold	Helvetica Neue	Droid Sans	
Algerian	Helvetica Neue	Droid Sans	
Andalus	Helvetica Neue	Droid Sans	
Angsana New	Helvetica Neue	Droid Sans	
Angsana New Bold	Helvetica Neue	Droid Sans	
AngsanaUPC	Helvetica Neue	Droid Sans	
AngsanaUPC Bold	Helvetica Neue	Droid Sans	
Aparajita	Helvetica Neue	Droid Sans	
Aparajita Bold	Helvetica Neue	Droid Sans	
Arabic Typesetting	Helvetica Neue	Droid Sans	
Arial	Arial	Droid Sans	
Arial Black	Helvetica Neue	Droid Sans	
Arial Bold	Arial	Droid Sans	

Setting	Description
Object's font selection includes iOS /	When the checkbox is selected, the fonts in iOS / cMT-iV5 / cMT-iV6 / Android that map to the select font in object property settings will be shown.
cMT-iV5 / cMT-iV6 /Android font information	Attribute Attribute Font : Arial [Arial] [Droid Sans] Color : Color : Align : Center Italic Duplicate these attributes to Every state



#### 15.5.5. Complete font file download

If the text on a webpage is not displayed correctly in the PLC Web Browser, the complete font file can be downloaded to HMI to add support for this font to the PLC Web Browser.

nguage	Non-ASCII Fonts	Font Mapping	Font Management	Complete font file downloa	id
Nam	e		Fil	e position	
	Add font	Remov	78		Copy Files To
* Fonts		9 00000000	NCOL ES	is text that cannot be display	
* Fonts	listed above are use	9 00000000	NCOL ES	is text that cannot be display	
* Fonts	listed above are use	9 00000000	NCOL ES	is text that cannot be display	
* Fonts	listed above are use	9 00000000	NCOL ES	is text that cannot be display	

## 15.6. Settings of Multi-Language

When displaying the texts in multiple languages, the system register "[LW-9134]: language mode" should be used too.

The value of [LW-9134: language mode] is ranged from 0 to 23. Different values correspond to different languages.

If not all languages are selected to compile and download, [LW-9134] will work differently.

For example, user defines 5 different languages in the Label Tag Library:

1: English, 2: Traditional Chinese, 3: Simplified Chinese, 4: French, 5: Korean

If only Language 1, Language 3, and Language 5 are selected to compile then the corresponding values of [LW-9134] are:

0: English, 1: Simplified Chinese, 2: Korean

Please follow the steps to use multiple languages.

1. Create a Text/Comment object and select [Use label library] checkbox.



🔲 Use label	Label Library
🔽 Use label library	Label tag : Label_1 : How are you? <ul> <li>[0001]</li> </ul>
Language : Language 1	▼
State : 0	
Letter and the second s	Duplicate this label to every state
Content	L'apricate unis taber to every state
Preview with actual font size	Tracking
Attribute	Ilacking
Font: 微軟正黑體 [F	Heiti TC] [Droid Sans]
Size : 16	▼ Blink: None ▼
Color :	
Italic	Underline
Text alignment Horizontal : Center	
Text area position Horizontal : Center	▼ Vertical : Center ▼
Duplicate these attributes to	Center
Every sta	te Every language All
E very sta	Livery language fall
More	
40	

2. Create a Numeric Input Object and use the system register [LW-9134].

General	Data Entry	Format	Trigger Action Setting	Security	Shape	Font	
	Comment	:					
V	Allow input						
* S	et value after	leaving fo	cus can be set up in gene	ral system	setting pag	ge	
	Read/Write u	se differen	t addresses				
	Read/Write u	se differen	t addresses				
	Read/Write u	se differen	t addresses				
Read/V		se differen	t addresses				
Read/V	Vrite	se differen wcal HMI	t addresses			<b>•</b>	*

3. When compiling, select the defined languages.



ompile	
Project name : C:\Users\Jane	cheng\Desktop\EBProject1.cmtp
CXOB file name : C:\Users\Jane	cheng\Desktop\EBProject1.cxob
CXOB password : Settings	. (used in decompiler)
Decompilation is prohibited	Disable HMI upload function
Select the languages used on the HN	И
	Startup language after redownloading the project : $\left[ \text{Language 1}  igstarrow  ight]$
Language 1 Language 7 Language 7	
	Treat the use of unsupported tags as : Error
Double-click a message to modify the	attributes of the object in question
Compile Quick Com	pile Font Management Very Build font files Close

**4.** The simulation is shown as followed: If the value of [LW-9134] is changed, the content of the Text object will be changed.

	English
LW9134 : language mode	0
LW9134 : language mode	简体中文(SIMPLE) 2
LW9134 : language mode	한국어 웹(KOREAN) <b>4</b>

Note

- When using a cMT / cMT X Series model, system register [LW-9134] is used to change the language mode in server, while [PLW-9134] is used to change the language mode on a portable tablet device.
- Only the label tags that are used in the project file will be contained in the \*.cxob / \*.exob file generated after compilation; therefore, no unused label tags will be contained in the

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project file obtained by decompiling a \*.cxob / \*.exob file.

Click the icon to download the demo project that illustrates how to use the Option List object to switch between multiple languages. Please confirm your internet connection before downloading the demo project.

Click the icon to watch the demonstration film. Please confirm your internet connection before playing the film.

# 15.7. Quickly Add to Label Tag Library

The "Add to Label Tag Library" function simplifies the process of adding text to the Label Tag Library. This section illustrates how to quickly add various texts to the Label Tag Library.

#### 15.7.1. Object Labels

To quickly add labels to the Label Tag Library, follow one of these three methods: **Method 1:** From the Object's Property Settings

- 1. Open the object's property settings and navigate to the Label tab.
- 2. Click the [Add to label tag library] button.

eneral Security	Shape Label				
🔽 Use label		Add to label ta	ig library	Label tag Library	. ]
Use label tag li	brary				
State :	0		0 1		
Content			Duplicate 1	his label to every state	
Preview with act	ual font size	Trackin	g		
Attribute			•		
Font:	Arial [Arial] [Dr	oid Sans]			•
Size :	16	▼]	Blink : [	None	•
Color :		<b>•</b>			
	Italic	🔲 Underline			
Text alignment	2				
Horizontal :		•			
Horizontal : Text area position	21	•			
Horizontal : Text area position Horizontal :	Center	•	Vertical : (	Center	•
Horizontal : Text area position	Center ributes to	•	Vertical : (	Center	•
Horizontal : Text area position Horizontal :	Center	▼] 2	Vertical : [	Center	•
Horizontal : Text area position Horizontal :	Center ributes to	•	Vertical : (	Center	•
Horizontal : Text area position Horizontal :	Center ributes to Every state		Vertical : [	Center	•

Method 2: From the Project Editing Window



- 1. In the project editing window, select one or multiple objects.
- 2. Right-click and select [Add to label tag library] from the menu.



#### Method 3: From the Toolbar

1. From the toolbar, click [Project] » [Label] » [Add to label tag library].

	File	🗄 🖨 🛠 🖻	🔸 🥕 👳	Home P	roject	Object	Data/History	IIoT/Energy	View	Tool	Weinclouc	I						
	P	A	K			×		SD					⇒ <mark>abC</mark> ×××		@≡			
	System Messag	5 5	e Compi	le Onlin Simulat		Offline mulation	Download (PC->HMI)	Build Download Files	Reboot HMI	Shape	Picture	Label	String	Macro	Address	Group	Sound	Control Token
	S	etting				Bu	ild					🔗 A	dd to lab	el tag lib	rary			
1	Windows <sup>·</sup>	Tree		▼ × 4	10 - \	WINDOW	_010 ×					oo Fi	nd/Repla	ace Label				

 In the [Find in] drop-down menu, select the window containing the objects and click [Find].

For example, to add object labels in window no.10 to the Label Tag Library, select "WINDOW\_010" and click [Find].



Add to label	tag library				×
	Find		Find i	Current Window	<b>•</b>
			Add	3. Monitor Mode 4. Common Window	=
Locatio	on Name	Туре		<ul> <li>S. Device Response</li> <li>G. HMI Connection</li> <li>7. Password Restriction</li> <li>8. Storage Space Insufficient</li> <li>9. Backup</li> <li>10. WINDOW_010</li> <li>50. Keypad 1 - Integer</li> </ul>	
Double click o	on a selection to find th	e object.			Exit

**3.** The options in this window that are not yet added to the Label Tag Library will be displayed in a list. Proceed to add individual items or all.

Add to label tag li	brary				×
			Find in: 10.	WINDOW_010	•
	Find	A	dd	Add All	
Location	Name	Туре		Text	
Window_10	TS_0	Text	"Example Text" / ""		
Window_10	TS_0	Comment (Operatio			
Window_10	WL_0	Text	"Example Text" / ""		
Double click on a se	lection to find the obje	ect.			
					Exit

#### 15.7.2. Non-object Label Texts

To quickly add texts other than object labels to the Label Tag Library, follow these steps:

**1.** From the toolbar, click [Project] » [Label] » [Add to label tag library].





2. In the [Find in] drop-down menu, select [Global settings] and click [Find].

Add t	o label tag lib	orary				×
				Find in:	Entire project	-
		Find	Ą	Add	Entire project Selected objects	
	Location	Name	Туре		Global settings Current Window 3. Monitor Mode 4. Common Window 5. Device Response 6. HMI Connection 7. Password Restriction 8. Storage Space Insufficient	
Doub	le click on a sele	ection to find the object.				
						Exit

- **3.** The available texts for addition from the global settings will be shown in a list. Currently available categories include:
  - Operation Log Comment
  - Event Log Message
  - Event Log Category (Subcategory) Customize Name
  - Event Log Category (Subcategory) Name

Proceed to add individual items or all as required.



			Find in:	Global settings	
	Find		Add	Add All	
Location	Name	Туре		Text	
vent (Alarm)	Event 0 (index	Text	Event 0		
vent (Alarm)	Category	Name	Category 0		
vent (Alarm)	Category	Name	Category 1		
vent (Alarm)	Category	Name	Category 2		
vent (Alarm)	Category	Name	Category 3		
vent (Alarm)	Category	Name	Category 4		
vent (Alarm)	Category	Name	Category 5		
vent (Alarm)	Category	Name	Category 6		
vent (Alarm)	Category	Name	Category 7		
vent (Alarm)	Category	Name	Category 8		
vent (Alarm)	Category	Name	Category 9		
vent (Alarm)	Category	Name	Category 10		
vent (Alarm)	Category	Name	Category 11		
	Category lection to find the obje		Category 11		

