LESSON 6

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OPERATION LOGGING

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This chapter describes how to set up operation logging and configure the operation log display to show the operation loggers.

13.1. Using Operation Logging

To use operation logging in your application, please do the following:

- 1. Setting up Operation Logging Described in <u>Section 13.2</u>
- Adding custom operation messages in the Advanced page of the related object Described in <u>Section 4.4.5</u>

General Label Advanced Visibility	
Touch Operation Control Enabled by Bit Control Bit: W90.A Enabling State: ON Enabled by User Level	
Minimum Hold Time: 3 v second(s) Operator Confirmation Maximum Waiting Time: 10 v second(s)	
Notification	Enter the operation message of the first language.
Operation Logging Message: Start pump #3	Click the button to bring up the Operation Message dialog box to edit the message for all the languages. Please see details in <u>Section 13.2.1</u> .

3. Creating and configuring Operation Log Displays Described in <u>Section 13.3</u>

The software also lets users clear the operation logging buffer with the function button. To know how to define a function button to clear the operation history, please see <u>Section 5.4.1 Basic Operations</u> of function buttons.

13.2. Setting up Operation Logging

You can set up operation logging with the Operation Logging dialog box. In this dialog, you can determine the required memory for the operation logging buffer, and specify how to save the operation logs to a text file. To open the dialog box, double click the Operation Logging node in the Project Manager tool window, or use the Operation Logging... command on the Panel menu. The following is an example of the Operation logging box.

Operation Logging	? 🛛
Enable operation logging Buffer size: 6 📚 K words Approximate number of operations can be logged: 192	OK Cancel
Record when the AP starts Message: Application starts running. Record when the AP stops Message: Application stops running.	
Save Data to File	
Filename: opLog.txt	
Time to Save: Every 8 hours (00:00, 08:00, 16:00) 💌	

The table below describes each property in the Operation Logging Properties dialog.

	Property	Description	
Enable	<check box=""></check>	Check this option to enable operation logging.	
operation logging	Buffer Size	The size of the operation logging buffer. The unit is K words. The buffer size can be specified between 1 and 512 K words.	
	Approximate number of operations can be logged	The maximum number of operation loggers that the operation logging buffer can hold. The formula to calculate the approximate number is: Number = Buffer Size * 1024 * 2 / 64	
Record	<check box=""></check>	Check this option to enable operation logging.	
when the AP	Message	Enter the operation message of the first language when the AP starts.	
starts		Click the button to bring up the Operation Message dialog box to edit the message for all the languages. Please see details in <u>Section 13.2.1.</u>	
Record	<check box=""></check>	Check this option to enable operation logging.	
when the AP	Message	Enter the operation message of the first language when the AP stops.	
stops		Click the button to bring up the Operation Message dialog box to edit the message for all the languages. Please see details in <u>Section 13.2.1.</u>	
Save Data to File	<check box=""></check>	Check this option so new operation loggers will be written to a specified file periodically. Each time when a save is performed, the panel writes only the operation loggers that have not been saved to a file before.	
	File NameThe filename or the prefix of the filename of the file to save the opera The operation loggers are saved in text format and the file extension ".txt". You can use any text editor and Microsoft Excel to directly view loggers. This item is available when the option Save Data to File is compared to the save text of text		
	Time to Save	Specifies the period to save the operation loggers. This item is available when the option Save Data to File is checked. There are nine periods available: Every hour on the hour ; Every 8 hours (00:00, 08:00, 16:00) ; Every 12 hours (00:00, 12:00) Every day at 00:00; Every day at 08:00; Every day at 12:00; Every Sunday at 00:00; Every Monday at 00:00; Every month's first day at 00:00.	

13.2.1. Operation Message

This section describes how to define the operation messages for all languages. The following is an example of Operation Message dialog box.

Operation Message		
Use the text of the first language for all other languages Use Text From Text Database	OK Cancel	
Language Text 1: Application starts running. 2: 人机应用开始运行。 3: 人機應用開始運行。 4:	Enter the operation for all the languages	

The following table describes each property in the General page.

Property	Description			
Use the text of the first language for all other languages	Check this item so the object always shows the text of the first language as the operation message regardless of what the current language is. You need to enter the text of the first language in the following edit box.			
Use Text From Text Database	Check this item that you can select a text from the text database. The following is an example that shows you how to select and edit text from text database.			
	Use Text From Text Database			
	 Copy AP to HMI Select a text from the dropdown text table. 			
	A0007 Copy AP to HMI A0008 Link 3 A0009 Link 4 A0010 Boot from File A0011 Update from File A0012 Copy AP to File A0013 FTP Site A0014 Clear Recorded Data A0015 LAN Printer Address A0016 Set Time/Date A0018 False			
	A0018 Faise A0019 True A0020 Screen Saver Time (minutes): A0021 Allow To Run Panel Setup: A0022 Run AP After Power On: A0023 LAN Printer Address A0024 Increase			
	AUU24 Increase			

13.3. Setting up Operation Log Displays

13.3.1. Basic Operations

You can display a list of operation logs by using an operation log display.

Operation Log Display Demo			
Date	Time	Message	
31/08/09	16:56:53	Scrolled the slide switch (637)	
31/08/09	16:56:49	Inputted a new value (896.7)	
31/08/09	16:56:33	Button is clicked. (OFF)	
31/08/09	16:56:32	Scrolled the slide switch (318)	
31/08/09	16:56:29	Inputted a new value (5.0)	
31/08/09	16:56:25	Button is clicked. (ON)	
31/08/09 16:56:19 Cleared the operation history		V	
Button	896.7		Clear

The above is an example of the operation log display. The first row is the title row. It displays the title of each column. The other rows display one operation per row. You can create scroll button groups or scroll bars to scroll the contents. An operation log display can have three columns. The following table describes the content of each column for an operation log display.

Column	nn Description	
Date The date when the record is created. This column is optional.		
Time The time when the record is created. This column is optional.		
Message The message of the associated operation. This column is optional.		

The text color and font of a row are determined by the settings in the General Page.

13.3.2. Operation Options

The following operation option can be added to an operation log display. Select and set the option in the Operation Log Display dialog box.

Options	Description
Visibility Control	You can show and hide an operation log display with a specified bit or the current user level. Select and set this option in the Visibility page.

13.3.3. Settings

You can complete all the settings of an operation log display in the Operation Log Display dialog box. This dialog box contains the following two pages.

General

Described in Section 13.3.3.

Visibility

Described in Section 4.4.6.

13.3.4. General Settings

This section describes how to define the general settings for an operation log display. The following is an example of the General page of the Operation Log Display dialog box.

Operation Log Display	X
General Visibility	
ID: HOD0000 Note: Shape	
Border Color: BG Color: GF_0041 Language:	anguage 1
Title	Message
Font: Font_4	Font: Font_3
Color:	Color:
Date: Date	Date/Time Display
Time: Time	Date: DD/MM/YY
Message: Message	Time: HH:MM:SS
Background Color:	Color:
Grid Horizontal Color:	Line Spacing: 0
Vertical	Item Spacing: 0

The following table describes each property in the General page.

Property	Description	
ID	The object's identifier. It is generated when the object is created. The identifier is unique within the screen where the object is located and is unchangeable. The format of the IDs for the operation log display is HODnnnn.	
Note	You can type a note for the object.	
Shape settings	For details about the following properties, see <u>Section 4.3.4 Setting up the Shape of an Object.</u> Shape, Border Color, BG Color	
Language	Select a language so you can view and edit the language dependent settings in the Title group and Message group for that language. The language dependent properties in the Title group include Font and Message; in the Message group include Font.	

Continued

	Prope	erty	Description
Title	<check box=""></check>		Select this option if you want the operation log display to have a title row to show the title for each column of the displayed list.
	Font		Select a font for the title text.
	Color		Select a color for the text.
	Date		Specifies the title for the Date column.
	Time		Specifies the title for the Time column.
	Messag	je	Specifies the title for the Message column.
	Backgro	ound Color	Select a background color for the title row.
Grid	Horizontal		Select this option if you want the operation log display to have horizontal grids.
	Vertical		Select this option if you want the operation log display to have vertical grids.
	Color		Select a color for the grids.
Message	Font		Select a font for the message.
	Color		Select a color for displaying the predefined message.
Date/Time Display	Date	<check box=""></check>	Check this option if you want the operation log display to have the Date column.
		<drop-down list=""></drop-down>	Select a format for displaying the date
	Time	<check box=""></check>	Check this option if you want the operation log display to have the Time column.
		<drop-down list=""></drop-down>	Select a format for displaying the time
	Color		Select a color for Date/Time.
Line Spacing			Specifies the extra space in pixels for two adjacent rows of the operation log display.
Item Spacin	g		Specifies the extra space for every column of the operation log display.
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