

PM Designer

Version 2.0.5.0

Product Release Notes



Cermate Technologies Inc.

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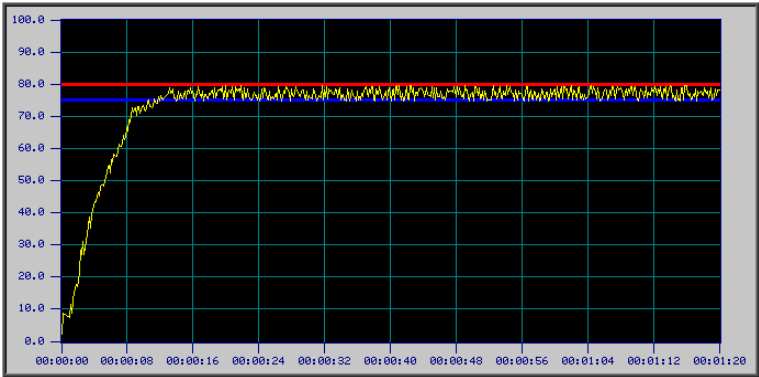
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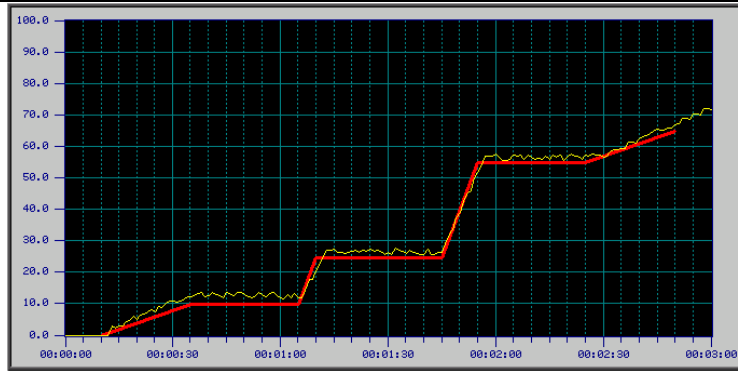
PM Designer Version 2.0.5.0

PM Designer 2.0.5.0 delivers fixes and corrections that have been made since the release of version 2.0.4.0. This release notes document highlights the features and corrections made in version 2.0.5.0.

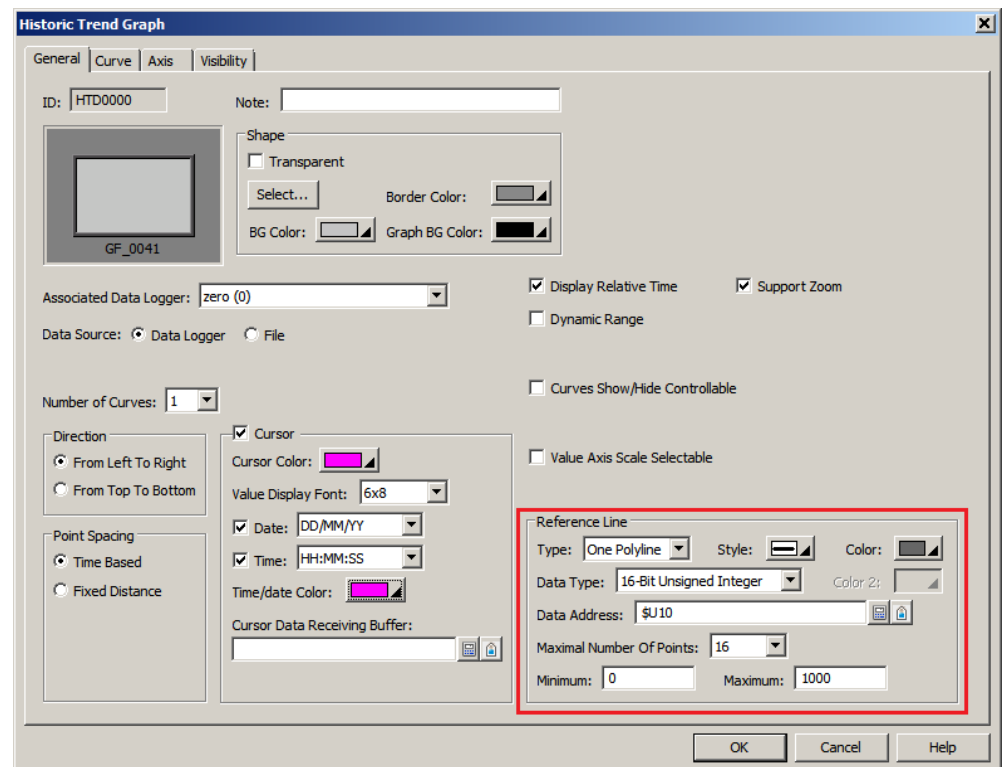
New Features and Enhancements

Editor

No.	Related To	Feature/Enhancement Description
A1	Reference Line of Historic Trend Graph	A historic trend graph can display one or two reference lines to help the operator to read the graph efficiently. A reference line can be a horizontal line for the "From Left To Right" trend graphs or a vertical line for the "From Top To Bottom" trend graphs. A reference line can also be a polyline for the trend graphs of any direction. You can control the position of a reference line at run time. If a reference line is a polyline, you can control its shape too. The following is an example of a historic trend graph with two horizontal reference lines.  The following is an example of a historic trend graph with a reference polyline.



The settings of reference lines are in the Reference Line group of the object's property dialog box as the example shown below.



Please read the application note "Reference Lines of Historic Trend Graphs" for details.

A2 Recipe Block

The data size of a recipe can be up to 8192 words. It is optional to show the progress of the recipe access.

The following is the settings of a recipe block that requires the HMI to show the progress bar when moves the recipe data to or from the PLC.

Recipe Block

General | Data Item

Name: Big recipe block ID: 0

Recipe Size: 8192 words Number Of Recipes: 50

Memory Required: 409600 words

Storage

☒ Battery Backed RAM ☐ RAM (volatile)

☐ Need space in Flash memory to save backup

Recipe Memory

Bit Address Range: \$R0:0.0 - \$R0:409599.f

Word Address Range: \$R0:0 - \$R0:409599

Current Recipe

Bit Address Range: \$CR0:0.0 - \$CR0:8191.f

Word Address Range: \$CR0:0 - \$CR0:8191

Current Recipe Number Register: \$RNO

☒ Write Recipe To PLC

Write Address: 40001

☒ Show Writing Progress

☐ Notification

☒ Read Recipe From PLC ☐ Read Address Identical To Write Address

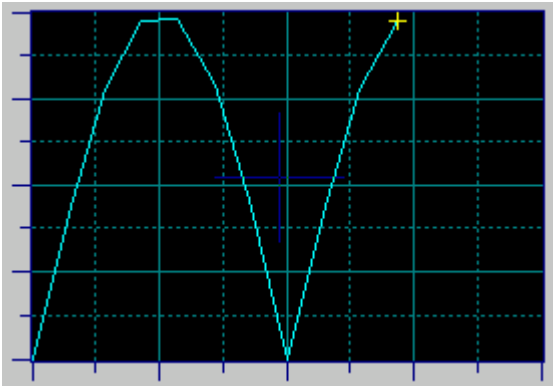
Read Address: 40001

☒ Show Reading Progress

☐ Notification

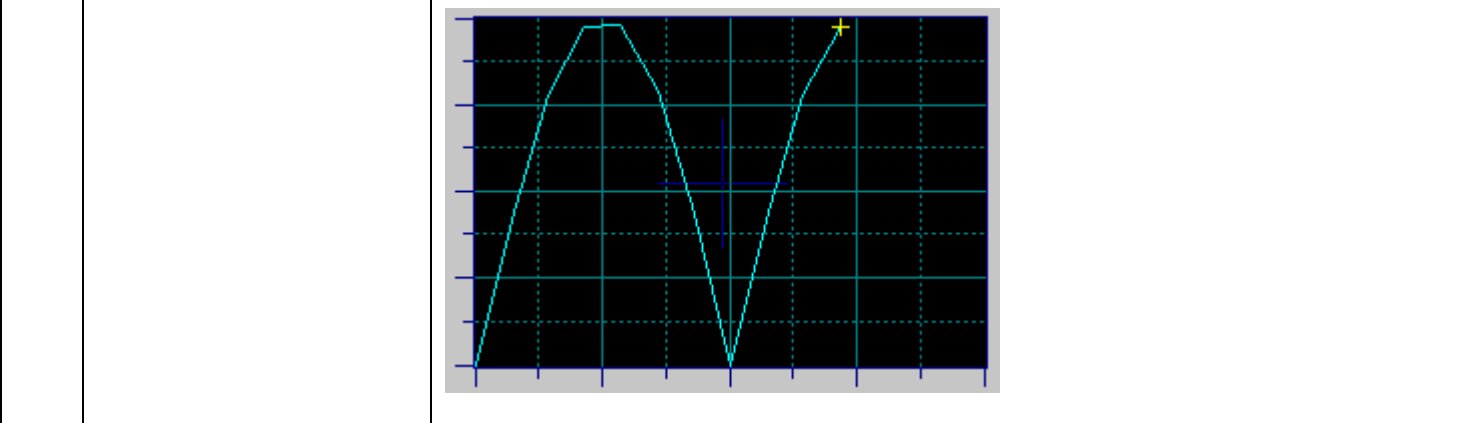
Read/Write Size: (default) words

☐ Reverse the order of the high word and low word of 32-bit data

A3	Historic Scatter Chart	The object can mark the ending point of the curve with a small cross to make the ending point noticeable. In the following picture, the yellow cross marks the ending point.  To enable the feature, check the option "Mark Ending Point" as shown in the following picture.
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A3	Historic Scatter Chart	The object can mark the ending point of the curve with a small cross to make the ending point noticeable.
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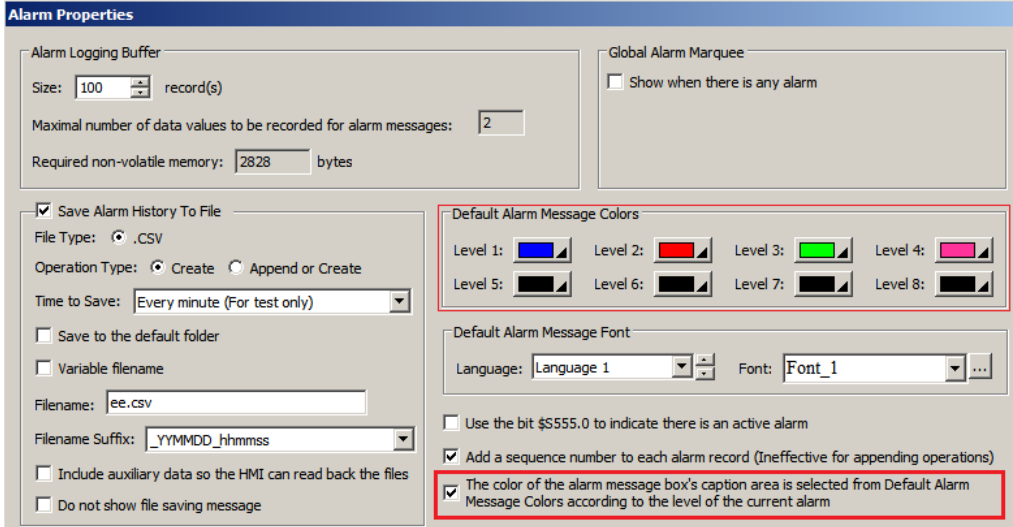
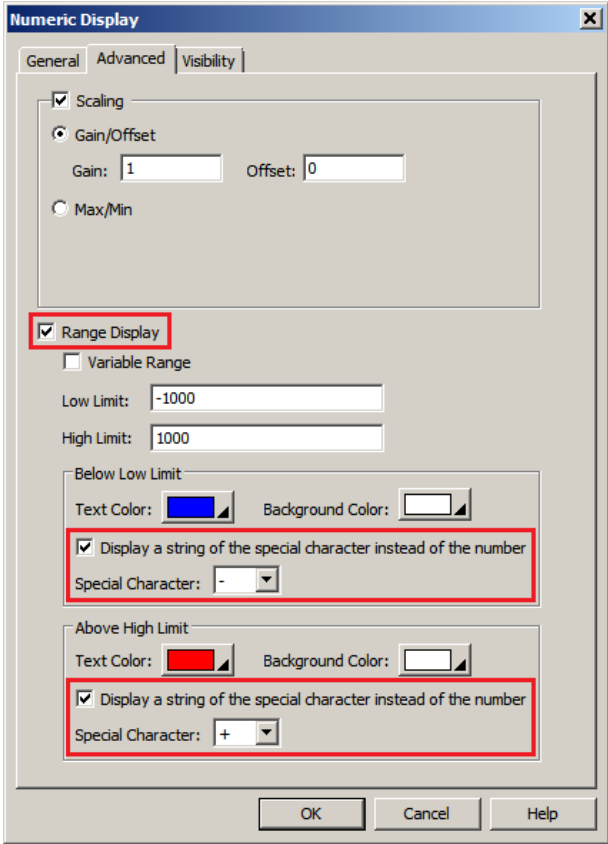
		In the following picture, the yellow cross marks the ending point.
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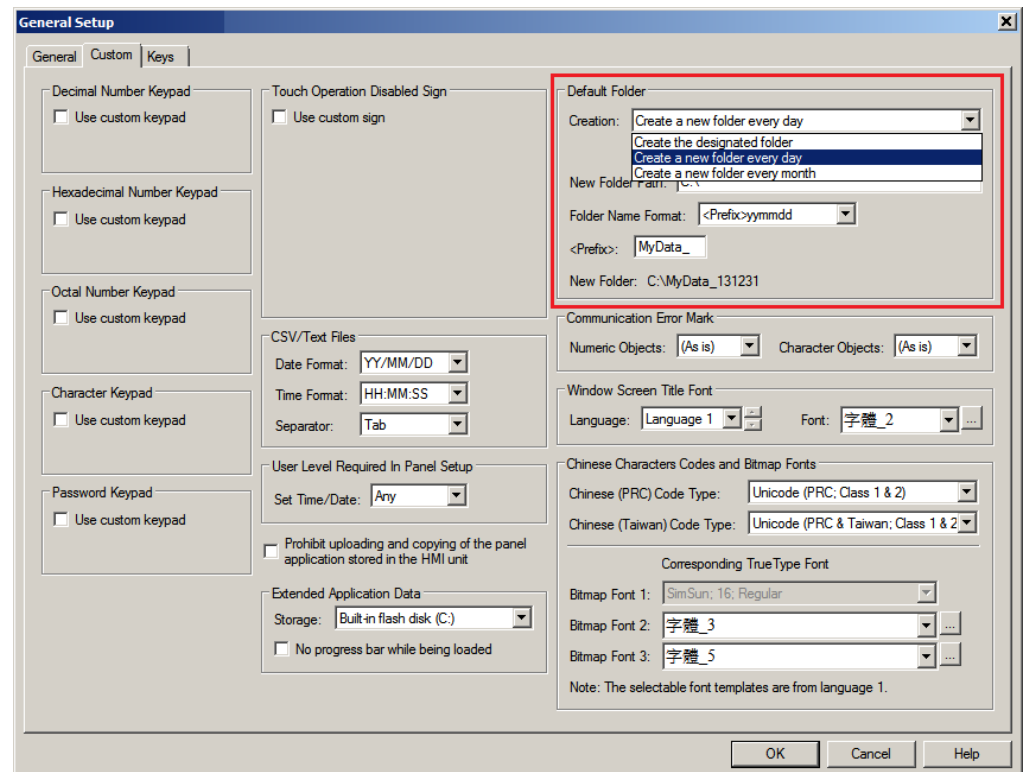
	To enable the feature, check the option "Mark Ending Point" as shown in the following picture.
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A4	Alarm Message Box	The color of the caption area of the alarm message box can be associated with the level of the alarm that it displays. To enable the feature, check the option "The color of the alarm message box's caption area..." as shown in the following picture.
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A5	Data Logger	The PC runtime can support up to 64 data loggers.
A6	Numeric Display	A numeric display can show a string of the designated character instead of the number when the number is not within the specified low and high limits. The following is an example of the settings. 
A7	Default Folder	The HMI can create a default folder daily or monthly. Therefore, those data files that are saved to the default folder can be grouped together on daily or monthly basis. This will help the file management.

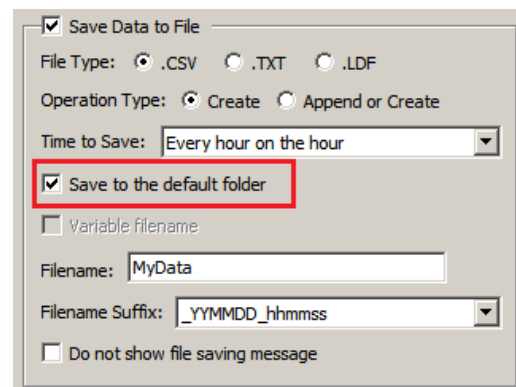
To specify how to generate and name the default folders, double-click the panel application node on the project tree to open the General Setup dialog box, then go to the Custom page. The following is an example of the settings that creates a new default folder every day.



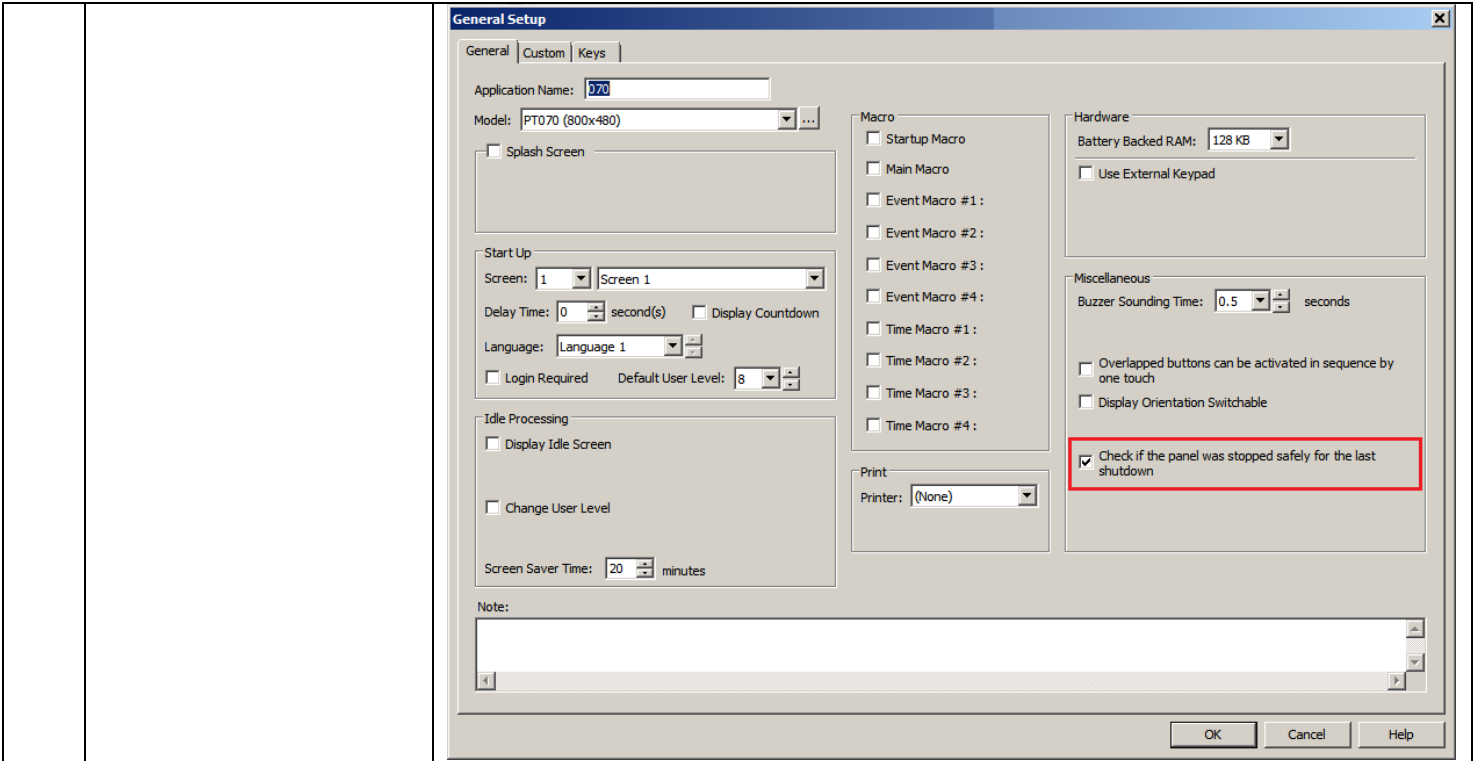
A8 Automatic File Saving

Two new features are available now:

1) A file can be saved in the default folder.



2) A new file can be created for the append operation daily. Therefore, the collected data can be saved in different files on a daily basis.



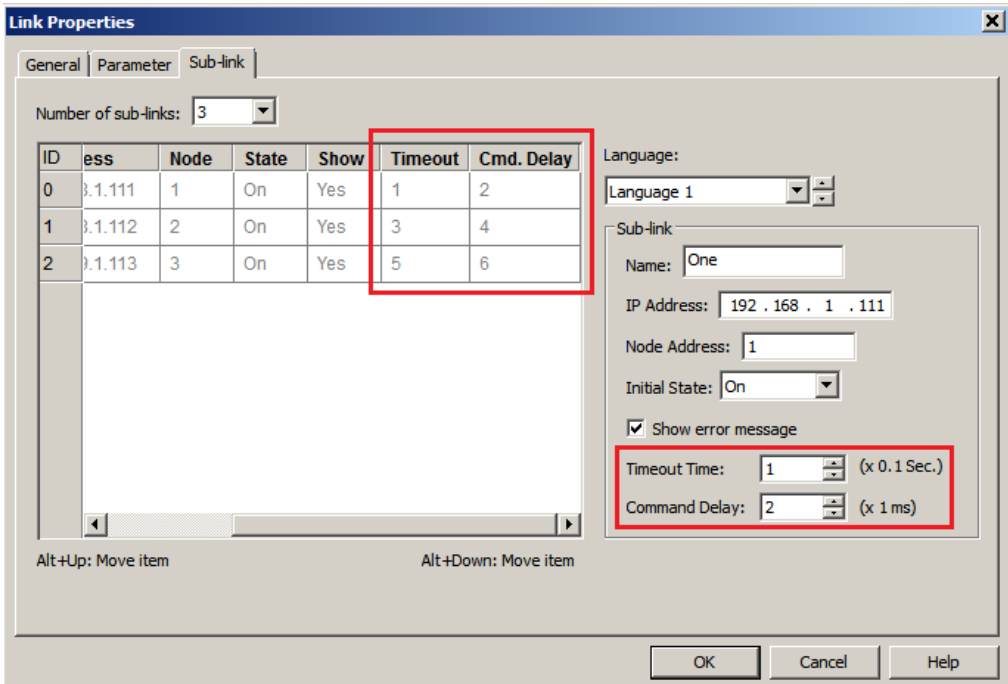
Please read the application note "Avoiding Data Corruption Due To Random Power-off" for details.

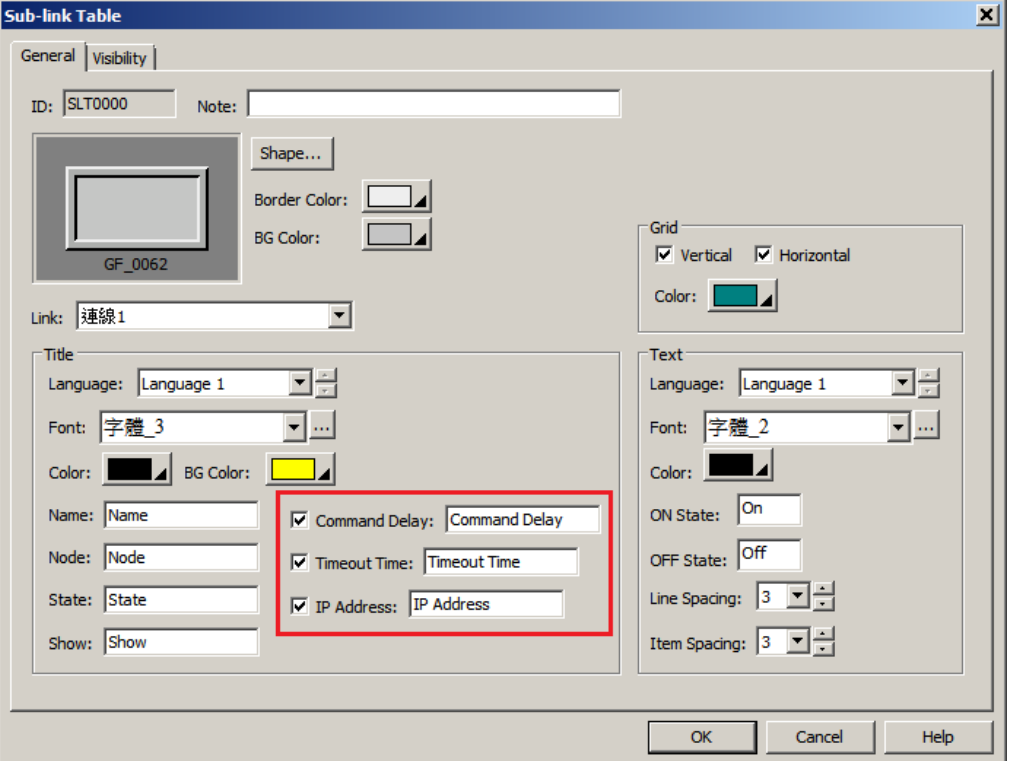
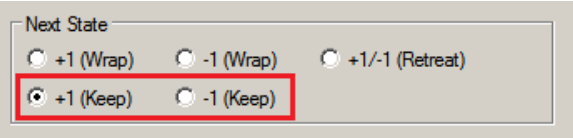
A12

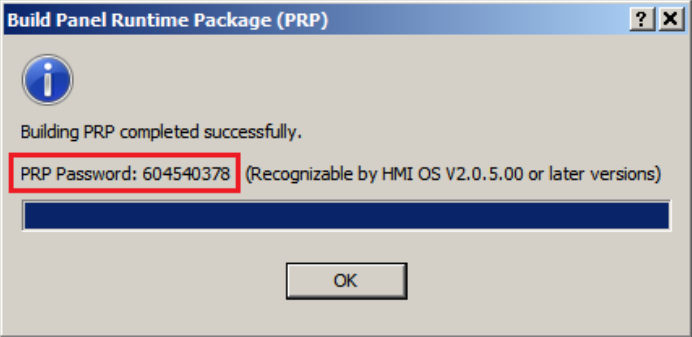
Dynamic Line

The dynamic line is a new kind of screen object. A dynamic line allows you to control its position, length, color, and style at run time.

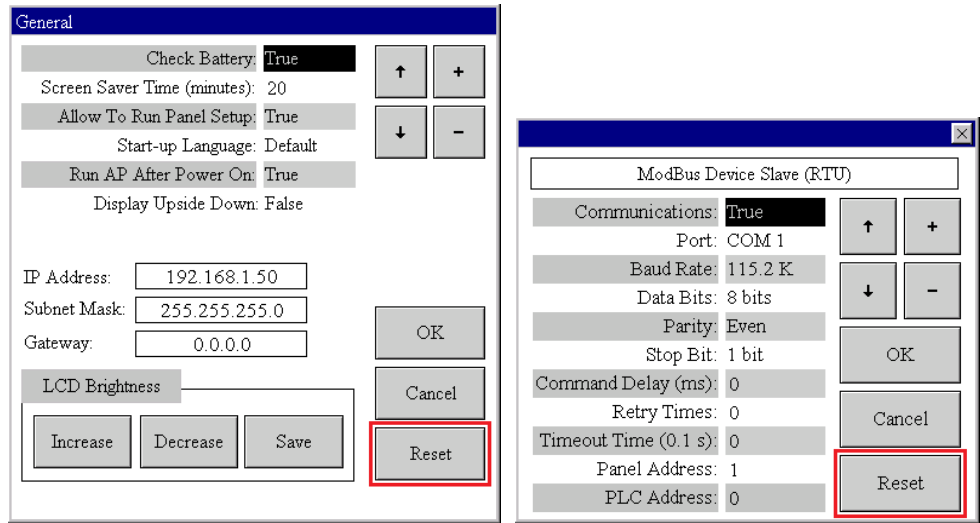
The following figure is an example of the settings of a dynamic line.

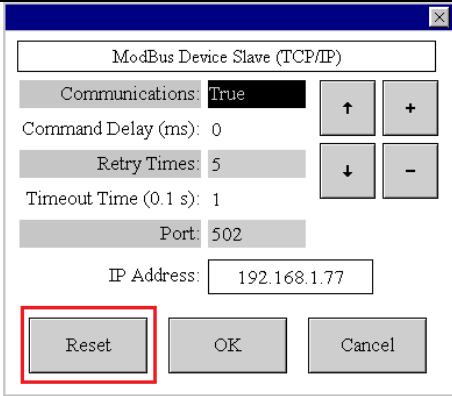
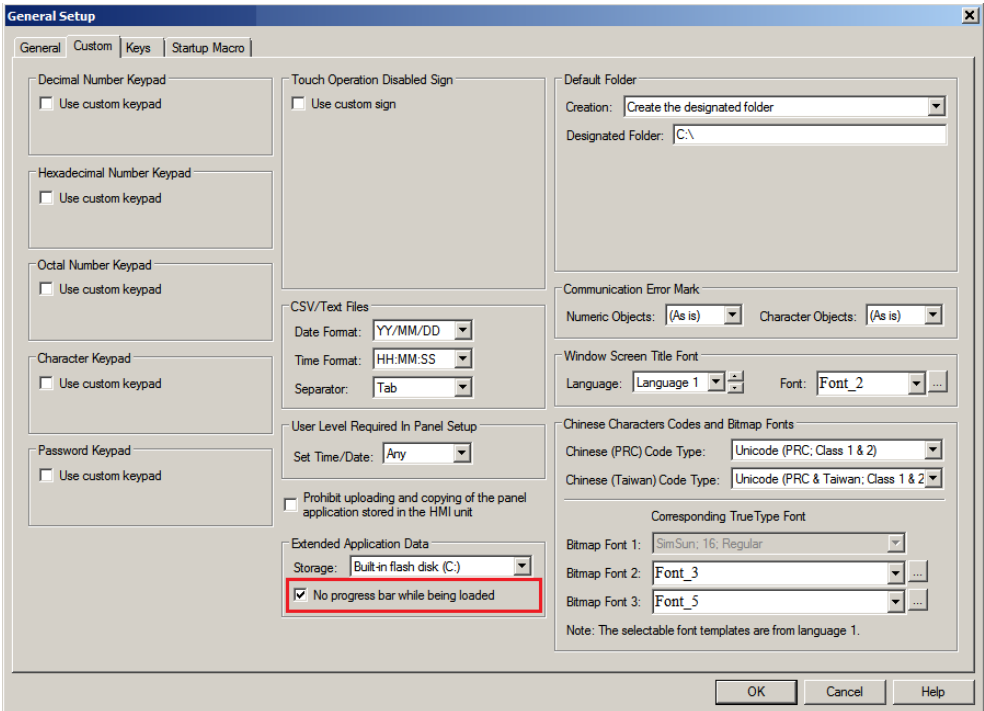
		Please read the application note "Dynamic Lines" for details.
A13	Recipe block definition export/import	The CSV format is supported now.
A14	OPC UA Client	The HMI runtime supports OPC UA client now. Please read the application note "Using the OPC UA Client Driver" for details.
A15	Character Entry	The maximal number of characters allowed to enter is increased from 48 to 64.
A16	Sub-link, Communication parameters	For Ethernet sub-links, you can specify the command delay and timeout time for each sub-link. 
A17	Sublink Table	For an Ethernet link, the table can display its sub-link's IP address, command delay, and timeout time. It also allows the operator to change the three communication parameters at run time.

		
A18	Macro command LINK_PAR	The macro command LINK_PAR allows you to get and set the following three communication parameters of Ethernet links and sub-links. 1) Command delay 2) Timeout time 3) IP address
A19	Numeric Entry	You can use a numeric entry object to display and enter an IP address. When configuring a numeric entry object to display an IP address, select "32-Bit Unsigned Integer" as the Data Type and select "IP Address" as the Display Type.
A20	Multistate Switch	Two new methods of determining the next state when the switch is activated are added: 1) +1 (Keep): If the current state is not the last state, the next state is the current state plus one; If the current state is the last state, the next state keeps at the last state. 2) -1 (Keep): If the current state is not state 0, the next state is the current state minus one; If the current state is state 0, the next state keeps at state 0. 

A21	PRP, PRP Password	The software will show you a password after it built a PRP (Panel Runtime Package) file successfully. We call the password a PRP password. You can use it when a password is required while you are updating an HMI unit with the PRP file. In the past, if someone else was responsible for updating an HMI unit with a PRP file, you need to give that person the developer password. As the developer password allows a person to do almost anything on the HMI units, giving out the developer password is risky. Now with the provision of the PRP password, you will no longer have this concern.  Notes: 1) A PRP password is derived from the developer password of a project. The PRP password of a project will remain the same if the developer password is not changed. 2) The developer password is still usable for updating HMI units with PRP file. 3) Only the HMI units with the OS of V2.0.5.00 or later are able to recognize PRP passwords.

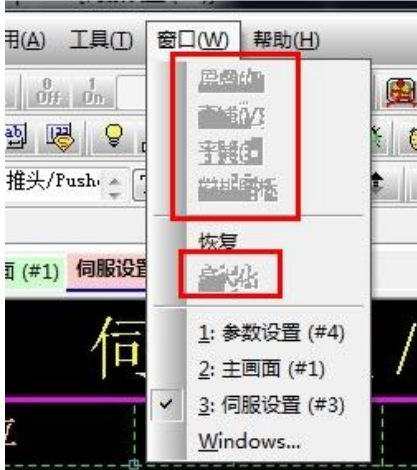
Runtime

No.	Related To	Feature/Enhancement Description
B1	USB Device	The HMI unit supports USB ID card reader.
B2	Sound Output	The T series HMI units can support WAV format sound output.
B3	Default Folder	When the default folder disappears, the HMI will try to create it again. Therefore, changing the USB memory stick or micro SD card at run time will not cause problems for writing files to the default folder.
B4	Status of the latest action on the touch screen	The following system words can tell you the status of the latest action on the touch screen. \$S523: The status of the operator action when the touched position was recorded in the following two words. Value 0 indicates the operator just touched the screen. Value 1 indicates the operator just released his/her finger. Value 3 indicates the operator was holding down the screen. If there was no touch, the value is 65535. \$S524: Stores the X-coordinate of the latest touched position. If there was no touch, the value is 65535. \$S525: Stores the Y-coordinate of the latest touched position. If there was no touch, the value is 65535.
B5	Panel Setup	The program allows you to reset the general settings, the settings of serial links, and the settings of Ethernet links by providing a reset button in the setting dialog boxes as shown in the following pictures. 

		
B6	Progress bar for loading extended application data	You can hide the progress bar of the operation by checking the option as shown in the following picture. 
B7	2D bar code reader	The HMI units support 2D bar code reader with USB cable. Unicode and Chinese GB code are supported.

Fixes and Corrections

Editor

No.	Related To	Bug Description
C1	Downloading application	The error message "Insufficient flash memory" appeared even when the memory space was enough.
C2	Macro command OpenScreen	The command was not visible on the menu.
C3	Creating PRP file	This problem occurred when the file was to save in a removable storage device, such as a USB memory stick. The file would not be saved to the storage device if the device was removed before you closed the message box that showed "Building PRP completed successfully".
C4	Importing data types	Importing data types for tags would cause the software to crash.
C5	Menu items	The grayed menu items did not display properly with some PCs as the example shown below. 
C6	Tag Window	There was no way to open the window again after closing it. You had to exit the software and run it again to make the window visible.
C7	Operation logging message	You could use the Operation Message dialog to select a string from a text table as the logged message for an object. However, the selection would be lost after you exited the dialog box.

Runtime

No.	Related To	Bug Description
D1	Meter	The indicator position was not precise enough.
D2	Alarm Display	The sequence numbers shown by an alarm history display were not continuous under one of the following conditions: 1) The option "Combine All Status Of An Alarm In One Row" in the Text group was selected. 2) The option "Cleared Alarms" in the Text group was not selected. 3) The option "Alarm ACK" in the Text group was not selected.
D3	Bit Button	A bit button for "Set ON Pulse" that required "Minimum Hold Time" would not reset the controlled bit to complete the pulse.
D4	Saving alarm history to file	The column name of the sequence numbers was missing when the sequence numbers of alarm records were required to save in the CSV file. , the column name of the sequence numbers was missing and the names of all the other columns were moved one column left.
D5	Numeric Entry	The scaling operation was improper for an unsigned 32-bit number when the number was larger than 65535.
D6	System crash, Schedule	The HMI unit without battery backed RAM would crash if the application needs the schedule function.
D7	Recipe data file	The recipe file exported when the HMI unit was working under one language could not be imported when the HMI unit was working under another language.
D8	Logged data file	The HMI could not generate logged data files for a data logger if the data logger has a data item with the display type of "Chinese (PRC) String" or "Chinese (Taiwan) String".
D9	Logged data file	The HMI could not generate logged data files for a data logger if the data logger has a data item with the data type of "Indexed String" or "Identified String".
D10	Historic Data Table	The object could not display the data item with the display type of "Unicode String" properly.
D11	Alarm logging	The HMI unit could not log the alarms of alarm blocks 32-63 and alarm blocks 64-127 when all the 128 alarm blocks have an alarm event at the same time.
D12	Cycle Macro, Macro command CloseScreen	A cycle macro of a screen could not stop if the screen was closed by the macro command "CloseScreen" in the cycle macro.
D13	Operation Log Display	When the operation logging message of a log record was empty, the data value would display at a wrong position.
D14	Reading Recipe File	The T series HMI units would crash sometimes while reading a .PRD recipe file.

D15	Screen Button	A screen button with a macro would cause the system to crash when the screen of the button closed before the macro was completely executed.
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