PAC Machine Edition

Version 10.2.9762

EMERSON

Contents

Warnings and Caution Notes as Used in this Publication

⚠ WARNING

Warning notices are used in this publication to emphasize that hazardous voltages, currents, temperatures, or other conditions that could cause personal injury to exist in this equipment or may be associated with its use.

In situations where inattention could cause either personal injury or damage to equipment, a Warning notice is used.

⚠ CAUTION

Caution notices are used where equipment might be damaged if care is not taken.

> **Note:** Notes merely call attention to information that is especially significant to understanding and operating the equipment.

These instructions do not purport to cover all details or variations in equipment, nor to provide for every possible contingency to be met during installation, operation, and maintenance. The information is supplied for informational purposes only, and Emerson makes no warranty as to the accuracy of the information included herein. Changes, modifications, and/or improvements to equipment and specifications are made periodically and these changes may or may not be reflected herein. It is understood that Emerson may make changes, modifications, or improvements to the equipment referenced herein or to the document itself at any time. This document is intended for trained personnel familiar with the Emerson products referenced herein.

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PAC Product Information

Product	Version

PAC Machine Edition   **10.2.9762**
      A. ProPlus Development Suite
      B. Professional Development Suite
      C. Lite Development Suite
      D. Quick Panel CE Development
           Suite

View and Control   **10.2.9762**

Revision History

Version	Date	Description
Version 10.2. 9762	Sept 2023	Updated to address installation issues from previous versions. Resolved further issues from v10.2.
Version 10.2	June 2023	Updated to reflect the changes in PME v10.2 and View and Control v10.2.
Version 10.1.9647	Apr 2023	Updated for the release of PME v10.1.9647 and View and Control 10.1.9647. Resolved further problems from v10.1.
Version 10.1	Feb 2023	Updated for the release of PME v10.1, PPS v10.1, PCM v10.1, and View and Control v10.1.
Version 10.0	May 2022	Update to documentation to clarify CPE3XX support.
Version 10.0	Apr 2022	Initial Release

Release Notes

This IPI includes changes from PME 10.2 and PME 10.2.9762. When upgrading from Versions of PAC Machine Edition older than 10.0, your PME window settings and system options may be reset.

PAC Machine Edition

Functional Compatibility

Subject	Description
CPE200 Series compatibility	CPE200 Series modules require PME 10.x. They cannot be used with PME 9.8 and lower.
Module Type Package (MTP) Object support	MTP requires PME 10.x. It cannot be used with PME 9.8 and lower.
Non-Supported Operating Systems	- Microsoft® Windows® XP - Microsoft® Windows® Server 2003 - Microsoft® Windows® Server 2008 - Microsoft® Windows® 7 - Microsoft® Windows® 8
Supported Operating Systems	- Microsoft® Windows® 10 (22H2) - Microsoft® Windows® 10 IoT Enterprise (21H2) - Microsoft® Windows® 11 (22H2) - Microsoft® Windows® Server 2016 (1607) - Microsoft® Windows® Server 2019 (1809) - Microsoft® Windows® Server 2022 (21H2)
Supported Virtual Machines	- VMWare Workstation (type 2) - VMWare ESXi (type 1)
Supported Anti-Virus Systems	- Norton Deluxe - McAfee Plus - Bitdefender Total Security - Trend Micro Maximum - Crowdstrike - Windows Defender

Problems Resolved by this Release

PAC Machine Edition 10.2 and 10.2.9762 fixed the following defects:

Resolved Problem	Defect Code	Resolution
Show Below the Ribbon Quick Access Toolbar is not retained after closing PME.	DE9704	Quick access toolbar retains positioning that is set by user, even after PME is closed.
Odd Text in PME10.0	DE8996	Previously, some longer messages in the Feedback Zone would not be readable unless refreshed by the user. Now, PME will refresh muddied test automatically.
PME Unable to Display Values	DE9759	Tool tip now presents the value of the array element, not the array root.
PME Conversion Report Indications ALG220 Must be G or Newer	DE7780, DE9863	PME no longer populates warnings for ALG220 modules older than version G.
Unclear which IC693ALG221 module versions can be used in an RX3i blackplane	DE9343	Warning updated to convey that if an ALG221 module older than version G is used, an external 24 VDC power source must be connected to TB1 of the the RX3i backplane.
Unable to delete variables in PME 10.1	DE9830	Variables with unique names are added to terminal tags so PME will allow the user to delete them without issue.
Error in the PME help file	DE9946	Updated the PLC_STFunc file in the PME companion help.
Issue in PME - Primary Config is NE and Secondary Config EQ	DE9870	When verifying equality on redundant targets, only the active target is "dirtied," ensuring equality remains consistent on the on-selected target.
Hardware config equal, then upload and shows not equal	DE9989	

Resolved Problem	Defect Code	Resolution
Spelling mistake in PME	DE10045	Fixed spelling error in feedback zone.
Error 12247 will not show in Companion when selected in Feedback Zone but it is available in PME help file	DE9807	Error 12247 has been properly linked to the Feedback Zone so when the user selects the error in the Feedback Zone, the companion help appears for the error.
Unable to drag LD or FBD blocks from navigator to ST editor	DE9835	Users are able to drag DL and FBD blocks from the navigator into the ST editor.
Tooltip in ST editor showing incorrect value for array element	DE9758	Tool tip now presents the value of the array element, not the array root.
Invalid Profinet Power Supplies Validates	DE9936	PME no longer allows users to add multiple IC695PSD040 and/or IC695PSA040 modules to remote racks.
Logic equality statement not working	DE8183	Strings now use non-discrete data, which allows string assignments and comparisons to work as intended in the ST editor.
ST editor not displaying UDFB member variable value in a tooltip when hovering over the variable	DE9758	Tool tip now presents the value of the array element, not the array root.
SymbolicMemoryTable Error when performing 2 back-to-back downloads to CPE305	DE9760	IO segments are added to the Symbolic Variable Table during subsequent HWC Smart Build validations.
Escalated multiple error messages and Profinet drop when upgrading from PME v9.5 to PME v10.1	DE9921	
PME v10.1 download	DE9935	
PME Type mismatch not reported for parameterized block	DE10006	If a user creates a parameterized block with an input variable that does not match, the validation will now report that to the user in the Feedback Zone.
Toolchest outdated for RSTi-EP EP-5261 Serial Comm FBs	DE8944	Updating toolchest drawer to include the new EP-5261 function block.
Error when updating CPE100 HWC:	DE9720	The UTC Offset field is set to default when upgrading if there's a mismatch in parameter type.
RX3i CPE330 – Sync Productivity Suite Data not prompting	DE7088	To use this feature, the user must have a PPS license and the target must be marked as a PPS target. The help has been updated to make these requirements clear.
PME crashing during upload	DE10370	When an older version of PME is uploaded, GSDMLs can cause crashes. Now, if PME is installed over the previous version, the upload will function normally.
Error on Word for Word change	DE10312	When the user passes a UDFB into the input of another UDFB, a validation error could occur due to memory mapping. PME no longer assigns bit references to symbolic non-discrete addresses.
PME 10.2 does not properly download as 10.0	DE10277, DE10299	Fixed issue when saving version as 10.0
Request detection of project path under user profile and Admin right used	DE10298	Fixed issue when migrating PME install files to a network location.
Warning and Error in Feedback zone had interchanged in terms of the number reported.	DE10295	In some cases users were seeing warnings appear as errors, this has been fixed to operate as it used to.
Drag-Drop in the ST Editor does a copy/paste not move text	DE10284	Previously, when dragging and dropping, a a copy was made instead of a move. Now, dragging and dropping functions as expected.
PME Unable to initialize IODeviceDescription Service	DE10282, DE10252	The proper registration of IODeviceDEscription assemblies is ensured when upgrading to 10.2

Resolved Problem	Defect Code	Resolution
PME is unable to connect through serial port	DE10280	PME can communicate with controllers through serial ports as normal.
Logic equality is maintained even after adding new instruction blocks	DE10271	If the user does not make any changes while in Test-Edit Mode, the logic equality remains constant.
PPS User Option Not Displayed when Gemalto PPS License is active	DE10257	Users running PPS can see the "Enable Productivity FP Public Members" option.
ST Editor Search Issue.	DE10213	Users can use the search function on locked ST blocks now.
ST editor cut/paste not working and crashing	DE10208	Both Cut/Paste and Copy/Paste in the ST Editor work as intended.
%S variable in EGD Consumer Exchange	DE10194	PME will give a validation error when an EGD exchange uses a %S variable
Current Value Difference	DE10193	Write to Flash dialogue was reworded to make it clearer to the user that initial values will not overwrite current values.
Ladder editor wire error	DE9886	Fixed graphical error in ladder editor - wires on the right side not connecting. Execution of ladder logic is unaffected.
Reload license feature not working with ELM 1.4 and PME 10.0	DE9483	Users can use the reload license feature for leased licenses without needing to restart PME.
PME Install Issues on Type 2 VM	DE9390, DE9297	Fixed problem where Logic Developer – PLC was missing as a component of PME installation.
PME crashes while editing ST	DE10377	Fixed ST Intillesense bug that would occasionally cause a crash when hovering invalid ST text.
ST Editor Editing in Monitor Mode	DE10376	Users can no longer edit ST blocks while connected in monitor mode.
Move to Flat Overwriting Memory	DE10315	If the user did not properly allocate enough space for the output of the Move To Flat function, PME may write beyond the expected limits. To prevent this, PME will now throw a validation error if the Move_To_Flat parameters are incompatible sizes, except in the case that the output is an array indexed by a constant or variable.
ST editor online value crash PME	DE10301	If the user is monitoring variables through the controller while online, having too many variables on the screen would cause PME to crash. Now, if the number of variables exceeds the amount of information the controller can send to PME, a dialogue will appear to prevent crashing.
Updating safety for VersaSafe	DE9295	Updated link to the C-Toolkit to the Emerson website.

New Features

PAC Machine Edition 10.2 and 10.2.9762 makes various improvements on the following:

New Features	Description
Cyber Security Updates	Claroty Research recorded common vulnerabilities and exposures (CVE) in the 'Evil PLC' report. Of the CVEs in the report, only two applied to PME. In our commitment to develop secure products, we have corrected these two vulnerabilities in PME 10.2. The corrections included: • Removed vulnerability to a Zip Slip attack when unpacking a PME project. • Removed vulnerability where PME project data is stored in a directory with improper access control.
%S Memory Changes for the CPE302/305/310 as well as the CPE400 and CPL410.	Added flags to indicate where Logic/Hardware Configuration or CPU reference data is loaded from during the last powerup
RMS to User Flash for the CPE302/305/310 as well as the CPE400 and CPL410.	Enabled the ability to perform a Run-Mode Store to User Flash for the following CPUS: • CPL410 • CPE302/305/310/400 This allows users to store PME configuration data in non-volatile memory so it can be stored without an external power source.
Secure Deployment Guide added to GFK-1918 PME 10.2 Logic Developer PLC, Getting Started Guide	A secure deployment guide has been added to the Getting Started Guide for PME.

Dropped Features

PAC Machine Edition 10.2 and 10.2.9762 dropped the following:

Dropped Features	Description
N/A	N/A

View and Control

Functional Compatibility

Subject	Description
Non-Supported Operating Systems	- Microsoft® Windows® XP - Microsoft® Windows® Server 2003 - Microsoft® Windows® Server 2008 - Microsoft® Windows® 7 - Microsoft® Windows® 8
Supported Operating Systems	- Microsoft® Windows® 10 (22H2) - Microsoft® Windows® 10 IoT Enterprise (21H2) - Microsoft® Windows® 11 (22H2) - Microsoft® Windows® Server 2016 (1607) - Microsoft® Windows® Server 2019 (1809) - Microsoft® Windows® Server 2022 (21H2)
Java installation for WebView	The default installation of Java has been removed from PME. To use WebView, users need to manually install Java from the below path. Go to PME installation location , go to the path \fxView\WebTemplates\JavaPlugin and install "**jre-6u30-windows-i586-s.exe**" or download this specific version from internet and install.
WebView support on View and Control	WebView will continue to be supported until IE 10.0, To make it work on Microsoft Edge, you can change the browser settings to open in Internet Explorer mode, as there are restrictions in the Java version that supports Webview in PME.

Problems Resolved by this Release

PAC View and Control 10.2 and 10.2.9762 fixed the following defects:

Resolved Problem	Defect Code	Resolution
QuickPanel+ - SRTP Driver will not communicate to PLC when there is toolchest linked object on the screen	DE9129	The issue was caused by the variable name length interfering with communication. Dynamic handling of variable length was used to establish communication between tool chest objects and PLC.
Error 12053: Invalid Pen expression used for chart pen in Feedback Zone shows as "Error 2410: Invalid Trend pen expression in [Graphical Object]" in Companion	DE9809	Corrected feedback zone error number.
Under certain conditions, sleep view script function not working in 10.1	DE9896	Adding multiple view scripts will ensure the sleep condition can properly function.
Error 12001 Crashes Proficy when Navigated to from Feedback Zone	DE9899	An issue that caused double-clicking to crash in the Feedback Zone in PME has been fixed.
Custom Data Documents not working	DE9893	Enabled all documents to be visible in the browser while navigating.
Tag name changes when target name changes	DE9810	Even if the editor is not launched, the pen expression tag will be renamed as the target name.
PC Control does not display logic rungs properly (shunts missing)	DE9905	Both Go Online and Offline PC Control can display logic rungs properly. No shunts were missing or displaced.
View Runtime Crashing	DE10008	Fixed Leased licensing issue that caused View Runtime to crash.
QP+ HMI web view Java issues	DE9816	A new digital signature has been updated for JRE to fix the problem.

Resolved Problem	Defect Code	Resolution
Alarm Objects not working correctly	DE9817	Validating script functions were corrected to address the issue.
Graphical Panel does not close when SIM 11 installed	DE10202	The execution time of the script event transition was fixed because it was not correctly reset to the current time.
QP+ ViewOpc Driver Channel/Device cannot be edited	DE10288	GE View OPC drivers and Emerson View OPC drivers use different driver name conventions. In AllViewOPCDrivers, the Emerson Ethernet driver appears as GE Ethernet. changed the driver name in the XML file from GE to Emerson.
QP+ ViewOpc Driver Channel/Device is not created	DE10273	The registry path for the "StartUpWizard.xml" file was incorrect, and it was fixed.
PME v10.2 - Configuration Wizard for QP+ not working properly	DE10439	The registry path for the "StartUpWizard.xml" file was incorrect, and it was fixed.
QP+ Emerson Native Driver Channel and Device are not created	DE10339	In the Windows registry, GE Native Drivers and Emerson Native Drivers have different driver name conventions. The driver name was changed in accordance with the Windows registry.
Upgraded ME 9.5 to ME 10.2 / Data is loading very slowly from CPE100 to QP+	DE10303	For rapid read/write operations, use a data change timestamp when an event occurs.
PME v10.2 - QuickPanel + - Native Drivers - Modbus variables not displaying Values	DE10334	The Modicon TCP/IP Native driver was unable to map the values to the DINT variables that were displayed during runtime and it was addressed.
QP+ Still having issues as originally reported in case 02036771	DE10196	To prevent question marks for internal variables mapped to the TDD object, the default configuration of the TDD object was modified.
PME issue results in Bus Fault EPXMBE001	DE10310	Validating the ladder document when downloading the target to local media.
QP+ 10" Fast Data Logging	DE10401	The alarm log files directory of QuickPanel+ targets was changed to default location in QuickPanel+ device when SD card was inserted..
PME 10.2 - PME validation Problem	DE10269	UDT's validation had a problem in that it failed to detect the missing I/O device, but the problem has now been fixed.

New Features

PAC View and Control 10.2 makes various improvements on the following:

New Features	Description
N/A	N/A

Dropped Features

PAC View and Control 10.2 dropped the following:

Dropped Features	Description
N/A	N/A

Related Documents

For additional information about PAC Machine Edition and PAC Products, refer to the following publications:

PAC Change Management for Machine Edition – Getting Started	GFK-1779
PAC Machine Edition - View™ and PC Control – Getting Started Guide	GFK-1868
PAC Machine Edition - Logic Developer – PLC – Getting Started Guide	GFK-1918
Entitlement and License Manager User Manual	GFK-3104
Emerson Legacy Licensing Guide	GFK-3107
PAC Productivity Suite Configuration Guide	GFK-3134
PAC Productivity Suite Installation, Operation, and Maintenance Manual	GFK-3136
PAC Productivity Suite Application Setup and Configuration Guide	GFK-3137
PAC Change Management 10.2 IPI	GFK-3258
PAC System Requirements	GFK-3245
PAC License Server Administrator User Manual	GFK-3247
PAC Productivity Suite 10.2 IPI	GFK-3259

Additional Support

For support and information, visit Emerson's support link located at the end of this document. The files for this manual and other related documentation are available there. Additional region- and language-specific websites and telephone numbers are found there as well.

General Contact Information

Home link: http://www.emerson.com/industrial-automation-controls

Knowledge Base: https://www.emerson.com/iac-support

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Any escalation request should be sent to: mas.sfdcescalation@emerson.com

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