

What's new in Power Monitoring Expert 2020

PME 2020 is a major release that introduces a number of new features and improvements. We highly recommend you upgrade your existing PME system to version 2020.

Highlights of this release

- New web-based control in Diagrams, for manual control actions such as resetting values on devices or changing device configuration settings.
- New web-based Device Manager for device and site configuration.
- New alarm analysis tools for Load Loss and Voltage Tolerance.
- VIP Modbus Slave now supports Modbus TCP protocol.
- Event Notification Module now includes a new notification engine that seamlessly integrates with PME for alarm-based notification.
- You can now choose the system language and regional settings on a per user basis. You can also assign devices to different timezones.
- New Reports: Measurement Aggregation Report, Measurement Aggregation Export Report, Billing Verification Report.
- New PME Express Edition - A low cost, low effort, low risk way to get a PME system.
- Support for ION9000T High Speed Transient Capture.

Details of this release

NOTE: The following is a selected list of changes for this release, it is not a comprehensive list.

Web Applications

Item	Details
New Diagrams control	You can now use Diagrams to perform manual control actions on devices. Manual control actions include actions such as resetting values on devices or changing device configuration settings. Before, this was only possible in Vista. NOTE: Control in Diagrams is disabled by default.
Diagrams language now configurable	You can now change the Diagrams language on demand. Before, the language was set at install time.

Item	Details
New Alarm Viewer analysis tools	Alarm Viewer now includes the following new tools for analyzing the causes and impacts of alarm events: • Load Loss (Identifies changes in the steady state electrical loads of a power system triggered by a voltage disturbance). • Voltage Tolerance (Uses a graphical display of the magnitude and duration of a voltage disturbance to analyze potential impacts). • High Speed Transient Capture (Displays high resolution voltage and current waveform signatures from monitoring devices with that capability, for example the ION9000T).

Software Modules and Licenses

Item	Details
Event Notification Module redesign	The Event Notification Module (ENM) has been completely redesigned. It is now seamlessly integrated with PME. Notifications are triggered based on alarm views. The module supports SMS and email notification and you can schedule notification activities. NOTE: Existing ENM configurations will continue to work on system upgrades. In addition, the new ENM functionality will be available on these systems after upgrade.
New Data Exchange Module	This new module enables the following features in PME: • OPC DA server • Measurement Aggregation Export Report • VIP Modbus Slave • COMTRADE export with ETL NOTE: On system upgrade, an existing OPC DA server license is converted automatically to a Data Exchange Module license.
New PME Express Edition	This is a new license package for a scaled down version of PME. PME Express Edition: • Provides a basic Energy and Power Monitoring system. • Has low deployment and licensing cost. • Includes TVDA for consistent deployment and configuration. • Can be expanded to PME Standard Edition in the future. • Complies with ISO 50001, 50002, 50006 and IEC 62443-4-1, IEC 62443-4-2 (SL1).

Tools

Item	Details
New Device Manager	Use this new tool to manage the devices and sites in your system. With Device Manager you can: • Export/import device and site configurations in CSV file format. • Import configurations from ION Setup, EcoStruxure Power Commission (formerly known as EcoReach). • Efficiently filter and search for specific devices and sites. NOTE: Management Console is also still available for device and site configuration.
New System Log Viewer	Use the new web-based System Log Viewer to inspect the PME system log.
VIP Modbus Slave	The VIP now supports Modbus TCP protocol for its Modbus Slave functionality. NOTE: The VIP Modbus Slave functionality now requires a Data Exchange Module license.

Reporting

Item	Details
New reports	Measurement Aggregation Report Measurement Aggregation Export Report Billing Verification Report
Improved reports	Billing Summary Report Multiple Billing Report Multiple Billing Export

Operating Environment

Item	Details
New Windows version support	Windows Server 2019 Standard
Dropped Windows version support	The following versions of Microsoft Windows are no longer supported: Windows 7 (no longer supported)

Devices

Item	Details
New device type support	The following device types are now supported in PME 2020: • ASCO 4000 • ASCO 7000 • iEM 2000 • Exertherm ARM XL • ION9000T • MTZ v3.0 • PM 2000 • Vigilohm IFL12 • ZBRN32 (for LV Busway Thermal Monitoring related devices)
Updated device type support	Drivers for the following device types have been updated with waveform capture support: • Accusine (PCS+, PFV+ and PCSn) • Enersure (BCPM 2.0, iBCPM Enkapsis, Enkapsis)
Device license changes	(Where applicable) The following device types now require a high-end license, instead of a mid-range license: • Accusine (PCS+, PFV+ and PCSn) • Enersure (BCPM 2.0, iBCPM Enkapsis, Enkapsis) • ION7400 • PM8000 • 9410 NOTE: On system upgrade, licenses for existing devices of these types are converted automatically from mid-range to high-end in PME.

Cybersecurity

Item	Details
New system integration settings	Control which domains can host PME and which domains PME can redirect to.
New login options settings	Control how users can log into PME, for example using standard PME accounts, Windows accounts, one-click login, and so on.
New server security configuration	Choose to encrypt database connections.

Item	Details
Session timeout settings now configurable	You can now configure session timeouts through the Web Applications Settings.
New fine-grained privilege settings	You can now set application and function specific privileges for user access levels (operator, controller, user, observer).
Other improvements	Several cybersecurity improvements in line with IEC 62443-4-2.

Miscellaneous

Item	Details
Improved system upgrade performance	Installer improvements have reduced upgrade time by up to 40%.
Productivity improvements for Reports	New report template selector.
Productivity improvements for Breaker Configuration tool	New breaker clone function.
Updated look & feel for web applications	New tab and dialog window styles. (Optional) High contrast color theme.
(New) Personalize look & feel based on individual user preferences	You can now set the system language, regional settings, colors and themes on a per user basis. You can also assign devices to different timezones.
Hierarchy Manager improvements	You can now edit weighted apportionments. We have also made significant performance improvements for hierarchy configuration.
SQL Server resale	SQL Server 2017 Standard Edition (English) is available for purchase from Schneider Electric for use with PME 2020.
Quality improvements	PME 2020 includes a wide range of quality improvements.

Removed/Replaced Functionality

Item	Details
Removed VIP Modbus Master functionality	This feature is obsolete. To replace this functionality, add the Modbus Slave devices to PME using default or custom device types. Recreate the VIP functionality by linking to data from these device types.
Removed SQL Agent support for subscriptions	Report subscriptions now use Windows Task Scheduler for all install types.
Removed Alert Monitor functionality	This feature is obsolete.
Removed Alarm Printer functionality	This feature is obsolete.

Item	Details
Removed support for 32-bit operating systems	Only 64-bit operating systems are supported now by PME.