StruxureWare Power Monitoring Expert 7.2

Installation Guide

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Safety information

Important information

Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service or maintain it. The following special messages may appear throughout this bulletin or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of either symbol to a "Danger" or "Warning" safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER indicates an imminently hazardous situation which, if not avoided, **will result in** death or serious injury.

A WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, **can result in** death or serious injury.

ACAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, **can result in** minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to physical injury. The safety alert symbol shall not be used with this signal word.

Please note

Electrical equipment should be installed, operated, serviced and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction, installation, and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved.

Safety precautions

During installation or use of this software, pay attention to all safety messages that occur in the software and that are included in the documentation. The following safety messages apply to this software in its entirety.

A WARNING

UNINTENDED EQUIPMENT OPERATION

- Do not use the software for critical control or protection applications where human or equipment safety relies on the operation of the control action.
- Do not use the software to control time-critical functions because communication delays can occur between the time a control is initiated and when that action is applied.
- Do not use the software to control remote equipment without securing it with an authorized access level, and without including a status object to provide feedback about the status of the control operation.

Failure to follow these instructions can result in death or serious injury.

A WARNING

INACCURATE DATA RESULTS

- Do not incorrectly configure the software, as this can lead to inaccurate reports and/or data results.
- Do not base your maintenance or service actions solely on messages and information displayed by the software.
- Do not rely solely on software messages and reports to determine if the system is functioning correctly or meeting all applicable standards and requirements.
- Consider the implications of unanticipated transmission delays or failures of communications links.

Failure to follow these instructions can result in death, serious injury, equipment damage, or permanent loss of data.

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Introduction

This guide is intended for Application Engineers, third-party integrators, or other qualified personnel who are responsible for configuring and installing StruxureWare™ Power Monitoring Expert software and preparing the servers on which it is installed. Experience using previous versions of the software is preferable.

The guide contains information about installing SQL Server 2008 editions and a Power Monitoring Expert system, incorporating best practices and factory-recommended procedures to help reduce the need for ongoing support and to improve the reliability of the installation.

A typical installation consists of a computer or network of computers running Power Monitoring Expert software and one or more networks of devices (such as basic energy meters, multi-function monitoring/analysis/control devices, and/or intelligent relays).

Review the *StruxureWare Power Monitoring Expert Version 7.2 System Design Guide* for information about planning for and setting up your system.

Note

Services personnel and fully-commissioned Power Monitoring Expert servers are also available — please contact Schneider Electric for details.

Summary of topics in this guide

The topics in this guide provide the following information:

• Required software

Summarizes the combinations of 32-bit and 64-bit Windows operating systems and SQL Server editions required for Power Monitoring Expert installations. (See the *System Design Guide* at www.schneider-electric.com for information about hardware requirements.) It also summarizes the other software components used by the product.

• Preparing the server

Describes the steps required to install a supported Windows operating system and SQL Server edition, and the settings required for each. Note that this information is common for Power Monitoring Expert installations of a Standalone Server, a Database Server, a Primary Server, a Secondary Server, and for an Engineering Client.

Power Monitoring Expert installation

Describes the different setup types that you can install and then describes the steps for installing the software for the setup types.

Using a Web Client

Describes how to access the Web Applications component of the product from a Web Client.

Post-installation tasks

Describes the tasks that you need to perform after completing the installation of the software.

Required software

The following tables summarize the combinations of 32-bit and 64-bit versions of Microsoft Windows operating systems and SQL Server editions that support Power Monitoring Expert installations. You need to install an edition of SQL Server 2008 R2 before installing Power Monitoring Expert software. Note that SQL Server 2008 R2 Express is available when you install a Standalone Server even if an existing SQL Server instance is detected.

32-bit Windows Operating Systems	32-bit Microsoft SQL Server Editions	Standalone Server	Distributed Database Server
	SQL Server 2008 R2 Express, SP2	Yes	No
Windows 7 Professional/Enterprise, SP1	SQL Server 2008 R2 Standard/Enterprise, SP2	Yes	No
	SQL Server 2008 R2 Express, SP2	Yes	No
Windows Server 2008 Standard/Enterprise, SP2	SQL Server 2008 Standard/Enterprise, SP3	Yes	Yes
	SQL Server 2008 R2 Standard/Enterprise, SP2	Yes	Yes

64-bit Windows Operating Systems	64-bit Microsoft SQL Server Editions	Standalone Server	Distributed Database Server
	SQL Server 2008 R2 Express, SP2	Yes	No
Windows 7 Professional/Enterprise, SP1	SQL Server 2008 R2 Standard/Enterprise, SP2	Yes	No
	SQL Server 2008 R2 Express, SP2	Yes	No
Windows Server 2008	SQL Server 2008 Standard/Enterprise, SP3	Yes	Yes
	SQL Server 2008 R2 Standard/Enterprise, SP2	Yes	Yes
	SQL Server 2008 R2 Express, SP2	Yes	No
Windows Server 2008 R2 Standard/Enterprise, SP1	SQL Server 2008 Standard/Enterprise, SP3	Yes	Yes
	SQL Server 2008 R2 Standard/Enterprise, SP2	Yes	Yes

Localized versions of the software are supported as follows:

- A localized version of Power Monitoring Expert software is expected to be installed on an operating system and SQL Server of the same locale. For example, a Spanish version of the product and SQL Server should be installed on an operating system with a regional setting of Spanish.
- The English version of Power Monitoring Expert software is expected to work with non-English operating systems and SQL Server versions. For example, an English version of the product can be installed on an operating system with a regional setting of German with a German version of SQL Server.

Engineering Client computers require one of the Windows operating systems summarized in the tables above.

Power Monitoring Expert can be installed in virtual environments configured with one of the supported Windows operating system and SQL Server edition combinations summarized in the tables above. It is recommended that you copy the content of the Power Monitoring Expert DVD to a local drive in your virtual environment and double-click MainSetup.exe to

start the installation process.

Web Client computers provide access to the Web Applications component of Power Monitoring Expert. Web Client computers require network connectivity to a Power Monitoring Expert primary server. The browsers that can be used on Web Client computers are listed below.

To access Web Applications from a Web Client, enter the address as http://domain_ name/Web in the browser, where domain_name is the fully-qualified name of the server hosting Power Monitoring Expert, and Web is the default root directory, which can be changed during installation. For example, for server name **srv1**, company name **MyCompany**, and a root directory of **Web**, enter the address in the browser as http://srv1.MyCompany.com/Web

Other software used by the product

- Microsoft Excel 2007 or 2010, which is required for reports exported in Excel format, or for the Reporting application.
- Browsers supported on Web Client workstations for the applications included in the Web Applications component (Dashboards, Diagrams, Tables, Alarms, Reports):
 - Microsoft Internet Explorer versions 8, 9, or 10.
 - Google Chrome version 20 or later.
 - Apple Safari version 5 or later on Mac computers.
- Browsers supported on tablets to access the Diagrams application only:
 - Safari on iPad tablets using iOS 5 or iOS 6.1 operating systems.
 - Browsers on tablets using Android operating systems JB 4.1 or ICS 4.0.
- Microsoft Silverlight version 4 or later.

The following operating system, SQL Server, and Internet Explorer versions are not supported on Power Monitoring Expert servers or on Engineering Client computers:

- Windows XP, Windows Vista, and Windows Server 2003, or earlier versions.
- SQL Server 2005.
- Internet Explorer 6.0 and 7.0 (also not supported on Web Clients).

Preparing the server

The software Installer performs many of the setup and configuration tasks during installation to ensure that the prerequisites for your Power Monitoring Expert system are met. Complete the following before proceeding with the installation.

Configuring your operating system

Ensure that you log on to Windows 7 or Windows Server 2008 as the Administrator of the system and not just as a user with administrator privileges.

Run the Windows Update service to install the latest security patches and hotfixes from Microsoft.

Naming your server

Verify that the computer name for the server conforms to Windows naming conventions. A computer name can be up to 15 alphanumeric characters with no blank spaces, and it must not contain any prohibited characters such as:

For compatibility with Power Monitoring Expert software, use only letters and numbers, starting the name with a letter for the first character in the name.

The computer name should not be changed after you install the Power Monitoring Expert software.

Additional information for consideration

- The Reports application (in the Web Applications component) and the Reporter component of the product can be used for generating and managing reports. See the "Reporter" topic in the *StruxureWarePower Monitoring Expert Version 7.2 User Guide* for more information.
- If you install SQL Server 2008 R2 Express SP2, the maximun database size is 10GB. Alarm notification for database size is configured to generate an alert notification when 85% of 9GB is reached. See the "Alarm Configuration" topic in Database Manager's online help.
- Scheduled database backup, maintenance, and trim jobs for the Application Modules, Data, Network, and System databases are available through Windows Task Scheduler and not through Database Manager. Only users with administrative privileges can use the Task Scheduler.
- The ION[™] DDE Service does not work on Windows 7 or Windows Server 2008 operating systems because the required NetDDE service is not provided on these operating systems.
- Install and configure the Terminal Server component if Terminal Server connection to the Power Monitoring Expert Primary Server is required. Refer to the "Terminal Server Licensing Overview" topic in your Microsoft Windows documentation to learn about

Terminal Server Licence requirements. Perform typical setup such as ending a disconnected or stale session and installing programs.

Configure the Remote Desktop Connection if you require remote connection to a Power Monitoring Expert primary server, see support information provided by Microsoft.

- If you plan to use TAPI modem drivers for Windows (WinModems) in your Power Monitoring Expert system, install and configure the WinModems. Additional WinModem information is available in the *StruxureWare Power Monitoring Expert Version 7.2 User Guide*.
- Additional information about modem use:
 - Note that the Serial Bus in Windows 64-bit operating systems (Windows 7, Windows Server 2008 Standard/Enterprise, Windows Server 2008 R2 Standard/Enterprise) may cause serial communication ports to lockup. If this occurs, a system reboot is required. Consult Microsoft support for an update to address this situation. When an update becomes available, install it on all Power Monitoring Expert systems where data modems are used.
 - Contact Technical Support for recommended serial expansion hardware. Note that any of the Prolific type USB to Serial dongles are not recommended.

Firewall configuration

Use the Microsoft knowledgebase to learn about Well Known Ports and Registered Ports required for certain networks.

Power Monitoring Expert TCP port assignments

The following tables contain the TCP port assignments that Power Monitoring Expert and associated applications or services use to communicate with PowerLogic[™] devices, Power Monitoring Expert clients, and other Power Monitoring Expert servers.

ТСР	ports	for	device	communications
-----	-------	-----	--------	----------------

Port	Protocol	Port	Protocol
23	Telnet (used for meter diagnostics)	7701	Modbus™ RTU
25	25 SMTP (Required for email communications)		EtherGate simultaneously through available COM
25			ports
502	Modbus™ TCP	7801	EtherGate through the meter's COM1
3721	Ethernet access for the 3720 ACM meter	7802	EtherGate through the meter's COM2/COM4
7700	ION	7803	EtherGate through the meter's COM3

Note

Some networks may contain devices that require the use of alternate ports (for example, third-party Ethernet gateway devices).

Other required ports

Port	Purpose	
13666	Power Monitoring Expert services use these ports. These ports are used if a client	
13670	machine needs to access the Designer and/or Vista components of Power Monitoring Expert.	
13668	This port is used when the Power Monitoring Expert system contains a Secondary Server.	
1433	Microsoft SQL Server uses this port. ¹	
1434	Microsoft SQL Monitor uses this port to identify named database instances.	
3389	Terminal Server uses this port.	
139	NetBIOS and Windows "File and Printer Sharing" use this port.	
80	HTTP (required for Diagrams, Reports and Internet access) uses this port. The EWS server also use this port.	
57777	Real-time Data Service uses this port to transfer real-time data to Power Monitoring Expert clients. ²	
¹ SQL Server uses this port if you use the default instance when you install Power Monitoring Expert. If		
you use a named instance when you install Power Monitoring Expert, it is recommended that you		
configure the named instance to use port 1433.		
² You can confi	gure the ION Real Time Data Service to use a different port.	

Installing SQL Server

The following information describes the settings that are required when you install one of the prerequisite SQL Server editions prior to installing the Power Monitoring Expert software.

If you do not want to use a separate SQL Server Standard instance, you can skip this section and choose to install SQL Server Express as part of the Power Monitoring Expert software Standalone Server installation. See "Installing Power Monitoring Expert software" on page 35 for more information.

The topics described in this section are:

- "Installing SQL Server 2008 R2 from the available DVD" on page 15.
- "Installing SQL Server 2008 R2 Standard/Enterprise Edition" on page 23.
- "Adding an instance to an existing SQL Server installation" on page 26.
- "Adding an instance to an existing SQL Server Express installation" on page 30.

SQL Server 2008 must be installed before installing Power Monitoring Expert.

Running anti-virus software on your SQL Server

It is recommended that you assess the software security requirements of your organization, and specifically the potential risks to your SQL Server installation. If you determine that you need to run anti-virus software on your SQL Server as a result of your assessment, follow the recommendations described in Microsoft Support article (ID: 309422) at http://support.microsoft.com/kb/309422.

Setting SQL Server memory options

Note the following recommendations for setting SQL server memory options on the server where you install a supported edition of SQL Server 2008 SP2, 2008 R2 SP1, or 2008 R2 Express.

For installations using a supported edition of SQL Server 2008 SP2 or 2008 R2 SP1:

- Where only SQL Server is running on the host server, set the SQL Server maximum memory at the system physical memory less at least 2GB for the Windows operating system. For example, if your server has 8GB of memory, set the SQL Server maximum memory to no more than 6GB. This leaves at least 2GB for the operating system.
- Where the SQL Server is sharing the host server with other server processes, including IIS, and ION services, set the SQL Server maximum memory to no more than half the physical memory on the server. For example, if you server has 8GB of memory, set the SQL Server memory to no more that 4GB. This leaves at least 4GB for the operating system and all other server processes.

For installations using a supported edition of SQL Server 2008 R2 Express:

 Where the Standalone Server has 4GB of memory, set the SQL Server maximum memory to 2GB. Where the Standalone Server has 2GB of memory, set the SQL Server maximum memory to 1.5GB.

In addition to setting the maximum memory option, consult with your site administrator to determine whether or not to enable the **Lock pages in memory** permission setting in Windows for the SQL service account on all SQL Server 2008 SP2 or 2008 R2 SP1 instances.

To set the maximum memory setting for your SQL Server:

- 1. Start SQL Server Management Studio and log in to your SQL Server instance.
- 2. Right-click the SQL Server name and click **Properties** in the menu to open the **Server Properties** dialog.
- 3. Select **Memory** in the left pane and adjust the value in the **Maximum server memory** field.
- 4. Click **OK** to apply the changes and close the dialog.
- 5. Close SQL Server Management Studio.

A server reboot or a restart of the SQL Server service is not required.

To enable the lock pages in memory option:

- 1. Click Start > Run and type gpedit.msc in the Run dialog to open the Local Group Policy Editor.
- 2. In the left pane, navigate to Computer Configuration > Windows Settings > Security Settings > Local Policies.
- 3. Expand Local Policies and select User Rights Assignment.

The policies are listed in the right pane.



- 4. Locate **Lock pages in memory** in the list and double click the policy name to open the **Lock pages in memory Properties** dialog.
- 5. Click Add User or Group on the Local Security Setting tab.
- 6. Add an account with the privileges to run sqlserver.exe and click OK to close the dialog.

7. Click OK to close the Local Group Policy Editor.

A server reboot or a restart of the SQL Server service is not required.

Installing SQL Server 2008 R2 from the available DVD

The DVD available from Schneider Electric installs Microsoft SQL Server 2008 R2 Standard Edition (English) with Service Pack 2. If you intend to use a supported SQL Server Express edition, it is included with the Standalone Server installation of Power Monitoring Expert. Otherwise, a SQL Server 2008 edition must be installed before Power Monitoring Expert.

Before starting the SQL Server installation, you must be logged in as a user with administrative privileges for installing and configuring software applications. Make sure that no other programs are running, save your work, and close any open applications.

Complete the following steps to install the software:

- 1. Insert the SQL Server 2008 R2 Installation DVD in your DVD drive, then navigate to and double-click setup.exe in the root directory on the DVD to open the SQL Server Installation Center.
- 2. Select **Installation** in the left pane and **New installation or add features to an existing installation** on the right.



A message indicates that the process is starting followed by the **Setup Support Rules** page showing validation results. If validation is not successful, follow the instructions on the page and click **Rerun**. Click **OK** when the validation is successful.

🚼 SQL Server 2008 R2 Setup		_ _ _ _
Setup Support Rules Setup Support Rules identify prob before Setup can continue.	ems that might occur when you install SQL Server Setup support files. Fail	ures must be corrected
Setup Support Rules	Operation completed. Passed: 7. Failed 0. Warning 0. Skipped 0. Show details >> View detailed report	Rerun
Antonio antonio dalla constante		

The Product Key page with the default product key opens. Click Next.

3. Read the license agreement on the License Terms page, then select I accept the license terms and click Next to continue.

Note that this is a "Per Processor" license and that this SQL server can only be used with Power Monitoring Expert software.

SQL Server 2008 R2 Setur	
License Terms	
To install SQL Server 2008	R2, you must accept the Microsoft Software License Terms.
Product Key License Terms	MICROSOFT SOFTWARE LICENSE TERMS
Setup Support Files	MICROSOFT SQL SERVER 2008 R2 STANDARD
	These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft
	updates,
	supplements,
	Internet-based services, and
	support services
	for this software, unless other terms accompany those items. If so, those terms apply.
	La di Copy Pint
	✓ Laccept the license terms.
	Send feature usage data to Microsoft. Feature usage data includes information about your hardware configuration and how you use SQL Server and its components.
	See the SQL Server 2008 R2 Privacy Statement for more information.
	<back next=""> Cancel</back>

4. Click **Install** on the **Setup Support Files** page to install the setup support files listed under the **Feature Name** column on the page.

SQL Server 2008 R2 Setup		
Setup Support Files		
Click Install to install Setup Suppo	rt files. To install or update SQL Ser	ver 2008 R2, these files are required.
Product Key	The following components are	required for SQL Server Setup:
License Terms	Feature Name	Status
Setup Support Files	Setup Support Files	In Progress
	Even #SP and ar f Timinn Work	Ross
	ExecuteStandardTimingsWork	now
		< Back Install Cancel

The **Setup Support Rules** page opens after the installation of the files showing the validation results. You can click **Show details** to view a list of the rules that were validated. If validation is not successful, follow the instructions on the page and click **Rerun**. Click **Next** when the validation is successful.

🚼 SQL Server 2008 R2 Setup	
Setup Support Rules Setup Support Rules identify pro before Setup can continue.	oblems that might occur when you install SQL Server Setup support files. Failures must be corrected
Setup Support Rules	Operation completed. Passed: 11. Failed 0. Warning 0. Skipped 0.
Setup Role	
Feature Selection	
Installation Rules	Show details >> Re-run
Disk Space Requirements	View detailed report
Error Reporting	
Installation Configuration Rules	
Ready to Install	
Installation Progress	
Complete	

5. Leave SQL Server Feature Installation selected on the Setup Role page and click Next.

🚼 SQL Server 2008 R2 Setup	
Setup Role Click the SQL Server Feature install a specific configuration.	Installation option to individually select which feature components to install, or click a feature role to
Setup Support Rules	SQL Server Feature Installation
Setup Role	Install SQL Server Database Engine Services, Analysis Services, Reporting Services, Integration Services,
Feature Selection	and other features.
Installation Rules	C All Features With Defaults
Disk Space Requirements	Install all features using default values for the service accounts.
Error Reporting	
Installation Configuration Rules	
Ready to Install	
Installation Progress	
Complete	

- 6. On the Feature Selection page under Instance Features, select Database Engine Services. Note that Reporting Services is no longer required. Under Shared Features, select Management Tools - Basic and Management Tools - Complete.
 - **Database Engine Services** is required if you are installing on a server that is used as a Standalone Server or on a Database Server in a distributed system.



Click **Next** when you complete your selections. The setup process validates that the installation can proceed and shows the results on the **Installation Rules** page.

髏 SQL Server 2008 R2 Setup	_ 🗆 🗙
Installation Rules Setup is running rules to determine i	f the installation process will be blocked. For more information, click Help.
Setup Support Rules	Operation completed. Passed: 5. Failed 0. Warning 0. Skipped 19.
Setup Role	
Feature Selection	
Installation Rules	Show details >> Re-run
Instance Configuration	View detailed report
Disk Space Requirements	
Server Configuration	
Database Engine Configuration	
Error Reporting	المحمور والمحمور والمحمد المحمد المحمد والمحمد و

If validation is not successful, follow the instructions on the page and click **Rerun**. Click **Next** to proceed to the **Instance Configuration** page when the validation is successful.

 Select Named instance and enter a name in the Instance Name field, for example ION. (Do not use an underscore character (_) within the instance name.) The same name is automatically added to the Instance ID field and it should not be changed. Click Next.

🚼 SQL Server 2008 R2 Setup					
Instance Configuration	N D for the instance of SQL Serve	r. Instance ID become	s part of the installe	ation path.	
Setup Support Rules Setup Dole Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Earor Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	C Default instance C Named instance: Instance ID: Instance root directory: SQL Server directory: Installed instances:	TON TON C:\Program Files\Mic C:\Program Files\Mic	rosoft SQL Server\ rosoft SQL Server\M	55QL10_50.JON	
	Instance Name	Instance ID	Features	Edition	Version
			< Back	Next >	Cancel Help

8. Review the information on the Disk Space Requirements page and click Next.

The disk space required for the installation is summarized in the **Disk Usage Summary** area on this page.

🚼 SQL Server 2008 R2 Setup		
Disk Space Requireme Review the disk space summary for	nts or the SQL Server features you selected.	
Setup Support Rules Setup Role Feature Selection Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting	Disk Usage Summary: System Drive C: 2665 MB required, 22417 MB available System Drive (C:I): 1457 MB required Shared Install Directory (C:I)Program Files/Microsoft SQ	R: Squ, Server(): 810 MB required 4. Server(): 398 MB required

- Server Configuration CARLEY AND FRANKLY STRATE Specify the service accounts and collation configuration Setup Support Rules Service Accounts Collation Setup Role Microsoft recommends that you use a separate account for each SQL Server service Feature Selection Installation Rules Account Name Startup Type Password Instance Configuration SQL Server Agent Manual -SQL Server Database Engine Disk Space Requirements Automatic -Server Configuration NT ALITHORITYVI OCAL SQL Server Browser Automatic -Database Engine Configuration Error Reporting Use the same account for all SQL Server services Installation Configuration Rules Ready to Install Use the same account for all SQL Server 2008 R2 service Installation Progress Complete Specify a user name and password for all SQL Server service accounts Account Name: NT AUTHORITY\SYSTEM Browse... Password: Г [OK Cancel < Back Next > Cancel Help
- 9. Select Use the same account for all SQL Server services to open the dialog.

10. Select **NT AUTHORITY\SYSTEM** (your local system account) in the **Account Name** list. A password is not required. Click **OK** to apply your selection and close the dialog.

🚼 SQL Server 2008 R2 Setup				_
Server Configuration Specify the service accounts and c	ollation configuration.			
Setup Support Rules Setup Role Feature Selection	Service Accounts Collation	a separate account for each SQI	L Server service.	
Installation Rules	Service	Account Name	Password	Startup Type
Instance Configuration	SQL Server Agent	NT AUTHORITY\SYSTEM		Manual
Disk Space Requirements	SQL Server Database Engine	NT AUTHORITY\SYSTEM		Automatic -
Server Configuration	SQL Server Browser	NT AUTHORITY\LOCAL		Automatic -
Database Engine Configuration			1	
Error Reporting				
Installation Configuration Rules		Use the sa	me account for a	II SQL Server services
Beadu to Install				

Note that if you specify a Windows account other than the local system account, when you begin installing Power Monitoring Expert, the **Check System** page in the Installer will indicate that the service account under which the SQL Server currently runs does not have the required system permissions. To resolve this situation you need to do one of the following:

- Temporarily change the SQL Server service to run under an account that has Write permissions to (1) the folder created for the product's databases (the default is the install location for ...\Schneider Electric\Power Monitoring Expert\Database, and (2), for the current logged-in user's Temp folder. (To find the full path to the Temp folder, click Start > Run, enter %Temp% and click OK.) The default local system account is an example of an account with these privileges.
- Temporarily grant Write permission for the two folders mentioned above to the Windows account that the SQL Server service runs under. Use the Windows Services control panel to identify this account. (Click Start > Administrative Tools > Services, right-click SQL Server, click the Log On tab in the SQL Server Properties dialog.)

You can revert the temporary changes after the installation of Power Monitoring Expert completes.

- 11. Click Next to proceed to the Database Engine Configuration page.
- 12. On the Account Provisioning tab of the Database Engine Configuration page, select Mixed Mode. Type a password for the SQL Server system administrator (sa) account in the Enter password and Confirm password fields. (Keep a record of the password for future use.) Click Add Current User to add the SQL Server Administrator, then click the Data Directories tab.

NOTICE

LOSS OF DATA

- Use a strong password for the System Administrator account consisting of at least 6 characters that are a combination of uppercase and lowercase letters, numbers, and symbols such as @, #, \$, %.
- Only allow users with advanced knowledge of SQL Server databases access to the SQL Server.

Failure to follow these instructions can result in unauthorized access to SQL Server databases.

Database Engine Config	uration	where we apply the apply in the factor of the part
Specify Database Engine authentica	tion security mode, administrators and data directories.	
etup Support Rules etup Role eature Selection nstallation Rules nstallation Rules sitane Configuration iterver Configuration irror Reporting nstallation Configuration Rules teady to Install nstallation Forgress iomplete	Account Provisioning Data Directories FILESTREAM Specify the authentication mode and administrators for the Database En Authentication Mode	gine . Int

13. If additional drives are available on your server, you can specify a different drive for the TempDB directory and Temp DB log directory fields. Click **Next** to proceed to the **Error and Usage Reporting** page.

The specification of different drives is for performance reasons. If all of the files are located on the same drive, data that is being inserted, updated, or deleted can potentially result in slower write operations than if the Temp DB directories are located on a separate drive. The specification of different drives is dependent on your hardware configuration and may not be possible in all cases.

🕏 SQL Server 2008 R2 Setup			_ 🗆 ×
Database Engine Config	uration	You (1992) White Michael Michae Michael Michael Mic	
Specify Database Engine authenticat	ion security mode, administrators ar	nd data directories.	
Setup Support Rules	Account Provisioning Data Dire	ectories FILESTREAM	<u> vw vvv</u>
Setup Role	Data reat disasteru	Cillearner Einilleineach SOL Server	
reature selection	Data root unectory:	c:(Program Hiestphicrosoft bogt berver)	
Installation Rules Instance Configuration	System database directory:	C:\Program Files\Microsoft SQL Server\MSSQL10_50.ION\MSSQL\Data	
Disk Space Requirements	User database directory:	C:\Program Files\Microsoft SQL Server\M5SQL10_50.ION\M5SQL\Data	
Server Configuration	User database log directory:	C:\Program Files\Microsoft SQL Server\MSSQL10_50.ION\MSSQL\Data	
Database Engine Configuration			
Error Reporting	Temp DB directory:	C:\Program Files\Microsoft SQL Server\M5SQL10_50.1ON\M5SQL\Data	
Installation Configuration Rules Ready to Install	Temp DB log directory:	C:\Program Files\Microsoft SQL Server\MSSQL10_50.ION\MSSQL\Data	
Installation Progress	Backup directory:	C:\Program Files\Microsoft SQL Server\M5SQL10_50.ION\M5SQL\Backup	
Complete		and the second	

14. Selections are optional on the Error and Usage Reporting page.



15. Click **Next** to validate that the installation can proceed. The results are shown on the **Installation Configuration Rules** page. If validation is not successful, follow the instructions on the page and click **Rerun**. Click **Next** when the validation is successful.

🚼 5QL Server 2008 R2 Setup		
Installation Configurati	on Rules If the installation process will be blocked. For more information, click Help.	
Setup Support Rules	Operation completed. Passed: 4. Failed 0. Warning 0. Skipped 4.	
Setup Role		
Feature Selection]
Installation Rules	Show details >>	Re-run
Instance Configuration	View detailed report	
Disk Space Requirements		
Server Configuration		
Database Engine Configuration		
Error Reporting		
Installation Configuration Rules	and the second	a section of the sect

16. Click Install on the Ready to Install page.

The **Ready to Install** page shows the SQL Server features that are about to be installed.

Verify the SQL Server 2008 R2 f	satures to be installed.
Setup Support Rules Setup Sole Feature Selection Installation Rules Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Ready to instal SQL Server 2008 R2: Summay Edition: Standard Action: Instal General Configuration Features Management Tools - Complete Instance Configuration Instance Configuration Instance Name: IDN Instance ID: IDN Instance ID: Database Engine: MSSQL10_5010N Instance Directory: CVProgram Filest/Microsoft SQL Server/ Shared component not directory Shared component not directory Instance Directory: CVProgram Filest/Microsoft SQL Server/ Enror and Usage Reporting Usage Reporting: False Enror Reporting: False Enror Reporting: False Instance Configuration Agent Service Configuration Configuration file path: CvProgram Files/Microsoft SQL Server/100/Setup Bootstrap/Log/20121219_124541/ConfigurationFile ini

The **Installation Progress** page provides a visual indication of the progress of the installation.

🚼 SQL Server 2008 R2 Setup	
Installation Progress	
Setup Support Rules	
Setup Role	
Feature Selection	Install_sql_tools_Cpu32_Action : WriteRegistryValues. Writing system registry values
Installation Rules	
Instance Configuration	
Disk Space Requirements	
Server Configuration	
Database Engine Configuration	
Error Reporting	
Installation Configuration Rules	المرين متبع العني العنا التب التي المار معالمة معالمة المعالية الماري المالية الماري

When the installation finishes, the **Complete** page opens.

🍀 SQL Server 2008 R2 Setup	
Complete Your SQL Server 2008 R2 installa	tion completed successfully.
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress	Summary log file has been saved to the following location: CitiProtein: File/blicropoft SQL Server100(Seture Bookstrap)Log(20130103-142432 Summary PRMRL 20130103-142459.btt Information about the Setup operation or possible next steps: Vour SQL Server 2008 R2 installation completed successfully.
Lomplete	Supplemental Information: The following notes apply to this release of SQL Server only. Microsoft Update For information about how to use Microsoft Update to identify updates for SQL Server 2008 R2, see the Microsoft Update Web site at http://go.microsoft.com/fwlnk/fundd=108409 . Samples By default, sample databases and sample code are not installed as part of SQL Server Setup. To install sample databases and sample code for non-Express editions of SQL Server 2008 R2, see the CodeRex Web site at http://go.microsoft.com/fwlnk/fundd=108409 . Samples By default, sample databases and sample code are not installed as part of SQL Server Setup. To install sample databases and sample code for non-Express editions of SQL Server 2008 R2, see the CodeRex Web site at http://go.microsoft.com/fwlnk/fundd=37843 . To read about support for SQL Server Setup. Colorelex Web site at http://go.microsoft.com/fwlnk/fundd=37843 . To read about support for SQL Server Setup. Colorelex Web site at

The **Complete** page contains a link to the Summary log. It also provides information about the Setup operations or possible next steps, as well as supplemental information related to your installation.

17. Click Close on the Complete page to close the setup dialog.

You can select **Search for product updates** in the **SQL Server Installation Center**. Close the dialog after any updates are installed.

Next step

You can now install Power Monitoring Expert software on a Standalone Server or in a distributed configuration consisting of a Database Server and Primary Server. For a description of the installation process, see "Power Monitoring Expert installation" on page 32.

Installing SQL Server 2008 R2 Standard/Enterprise Edition

Before starting the SQL Server installation, you must be logged in as a user with administrative privileges for installing and configuring software applications. Make sure that no other programs are running, save your work, and close any open applications.

The steps for installing SQL Server 2008 R2 are the same as those for "Installing SQL Server 2008 R2 from the available DVD" on page 15. The exceptions are the steps for the following Setup pages:

- Product Key page, which provides a default product key or requires that you enter a product key.
- **Complete** page, which contains a link for the Microsoft Update Web site where checking for updates identifies Microsoft SQL Server 2008 R2 Service Pack 2 for installation.

The input required for the Setup pages listed above is described in more detail where the pages occur in the following sequence of steps.

- 1. See "Installing SQL Server 2008 R2 from the available DVD" on page 15 for the directions for the following Setup pages:
 - SQL Server Installation Center.
 - Setup Support Rules.
- 2. If the product key is applied by default, click **Next**. Otherwise, select **Enter the product key**, type the product key in the field and click **Next**.

	A second state of the s
Product Key Specify the edition of SQL	Server 2008 R2 to install.
	1.9 x5 x8 x x 2 x 2
Product Key License Terms Setup Support Files	Validate this instance of SQL Server 2008 R2 by extering the 25-character key from the Microsoft certificate of authenticity or product packagin, or us can also specify a free addion of SQL Server, sub a Evaluation or Express. Evaluation has the largest set of SQL Server features, as documented in SQL Server Books Online, and is activated with a 180-day expiration. To upgrade from one edition to another, run the Edition Upgrade Wizard.
	C Specify a free edition: Evaluation
	 Enter the product key:

3. Read the license agreement on the License Terms page, then select I accept the license terms and click Next to continue.

SQL Server 2008 R2 Setup License Terms To install SQL Server 2008 R	2, you must accept the Microsoft Software License Terms.
Product Key License Terms Setup Support Files	MICROSOFT SOFTWARE LICENSE TERMS MICROSOFT SQL SERVER 2008 R2 STANDARD These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft updates, updates, updates, Internet-based services, and support services for this software, unless other terms accompany those items. If so, those terms apply.
	Copy Print I accept the license terms. See the Microsoft SQL Server 2008 R2 Privacy Statement for more information. (See the Microsoft SQL Server 2008 R2 Privacy Statement for more information. (Red. Next > Cancel

- 4. See "Installing SQL Server 2008 R2 from the available DVD" on page 15 for the directions for the following Setup pages:
 - Setup Support Files and Setup Support Rules.
 - Setup Role.
 - Feature Selection and Installation Rules.
 - Instance Configuration and Disk Space Requirements.
 - Server Configuration.

- Database Engine Configuration Account Provisioning and Data Directories tabs.
- Error and Usage Reporting.
- Installation Configuration Rules.
- Ready to Install and Installation Progress.

When the installation finishes, the **Complete** page opens.

🚼 SQL Server 2008 R2 Setup	×□-
Complete Your SQL Server 2008 R2 installatio	n completed successfully.
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install	Summary log file has been saved to the following location: <u>CIProgram Files/Microsoft-SQL_Server1001Setup BootstrapiLogi20130103_142439</u> <u>Summary FilterL</u> 20130103_142459.txt Information about the Setup operation or possible next steps: Your SQL Server 2008 R2 installation completed successfully.
Compete	Supplemental Information: The following notes apply to this release of SQL Server only. Microsoft Update For information about how to use Microsoft Update to identify updates for SQL Server 2008 R2, see the Microsoft Update Web site at http://go.microsoft.com/fwlnk/tink/del/08409 Samples Samples By default, sample databases and sample code are not installed as part of SQL Server Setup. To install sample databases and sample code for non-Express editions of SQL Server 2008 R2, see the CodePlex Web site at http://go.microsoft.com/fwlnk/tink/del/08409 Samples Close Help

The **Complete** page contains a link to the Summary log. It also provides information about the Setup operations or possible next steps, as well as supplemental information related to your installation.

 To install Service Pack 2 for your SQL Server 2008 R2 installation, select the link on the Complete page for the Microsoft Update Web site and follow the instructions for checking for updates.

Microsoft SQL Server 2008 R2 Service Pack 2 should be identified as one of the optional updates. Select it and any other updates that you want, and proceed with their installation. (Alternatively, you can search the Internet for Microsoft SQL Server 2008 R2 SP2 software, and download and install it.)

🔮 Select updat	es to install		<u>_ 0 ×</u>
() - ()	✓ Control Panel	👻 🚱 Sear	sh 🛛 😰
File Edit View	v Tools Help		
Select the u	pdates you want to install		
	Name 🔺	Size	Microsoft SQL Server 2008 R2
Important (14)	Silverlight (1)		Service Pack I (KB2528383)
Optional (2)	Microsoft Silverlight (KB2636927)	6.6 MB	Server 2008 R2 and the components
	SQL Server 2008 R2 (1)	Ξ	The service pack may be applied to all additions of SOL Service 2009 P2 and can
	Microsoft SQL Server 2008 R2 Service Pack 2 (KB263048)	201.1 MB	upgrade all instances of SQL Server 2008
			additional installation options are needed, please download Service Pack 1 from the Microsoft Download Center. For more information about the SQL Server 2008 R2 SPI Package please visit the Microsoft Knowledge Base Article 2528583.
			Published: 8/23/2011 You may need to restart your computer after installing this update. Update is ready for downloading
			More information
			Support information
		Total selected: 1 optional u	ipdate OK Cancel

6. After the updates are installed, click **Close** on the **Complete** page and then close the **SQL Server Installation Center**.

Next step

You can now install Power Monitoring Expert software on a Standalone Server or in a distributed configuration consisting of a Database Server and Primary Server. For a description of the installation process, see "Power Monitoring Expert installation" on page 32.

Adding an instance to an existing SQL Server installation

To configure a SQL Server instance specifically for use by Power Monitoring Expert, you need to rerun the SQL Server 2008 R2 Setup wizard.

Before starting the SQL Server installation, ensure that you:

- Are logged in with a user account that has administrative privileges.
- Stop any other programs that are running, save your work, and close any open applications.
- Have the SQL Server 2008 R2 installation media.

The steps to add and configure a new server instance are the same as those for "Installing SQL Server 2008 R2 from the available DVD" on page 15. The exceptions are the steps related to the following SQL Server 2008 Setup pages:

- Installation Type.
- Feature Selection.
- Instance Configuration.
- Database Engine Configuration.

The input required for the Setup pages listed above is described in more detail where the pages occur in the following sequence of steps.

- 1. See "Installing SQL Server 2008 R2 from the available DVD" on page 15 for the directions for the following SQL Server 2008 Setup pages:
 - SQL Server Installation Center.
 - Setup Support Rules.
- 2. When you click **Next** on the initial **Setup Supports Rules** page, a **Setup Support Files** page opens. Click **Install** to install the setup support files listed under the **Feature Name** column on the page.

The **Setup Support Rules** page opens after the installation of the files showing the validation results. You can click **Show details** to view a list of the rules that were validated. If validation is not successful, follow the instructions on the page and click **Rerun**. Click **Next** when the validation is successful.

3. Select **New installation or add shared features** on the **Installation Type** page and click **Next**.

Installation Type				"We de la constante	
Specify whether you want to pe	rform a new installation or add f	eatures to an existing in	stance of SQL Server.		and designed to the first substance
Setup Support Rules Installation Type Product Key License Terms Setup Role Feature Selection Installation Rules Drik Space Requirements Error Benotinon	 New installation or as Select this option if y such as SQL Server Add features to an ex DEAPP1 Select this option if y add the Analysis Ser instance must be the 	dd shared features rou want to install a new Management Studio or xisting instance of SQL : 	v instance of SQL Serv Integration Services. Server 2008 R2 s to an existing instanc stance that contains th	ver or want to instal e of SQL Server, F e Database Engine	I shared components or example, you want to . Features within an
nstallation Configuration Rules	Installed instances:	Instance ID	- Frankriss	E divers	Maria
leady to Install	DBAPP1	MSSOL10 50 DBAP	SQL Engine	Standard	10 51 2500 0
nstallation Progress	(Shared Components)		SSMS Adv SSMS		10.51.2500.0

- 4. If the product key is displayed by default, click **Next**. Otherwise, select **Enter the product key**, type the product key in the field and click **Next**.
- 5. See "Installing SQL Server 2008 R2 from the available DVD" on page 15 for the directions for the following SQL Server 2008 Setup pages:
 - License Terms.
 - Setup Role.
- On the Feature Selection page under Instance Features, select Database Engine Services. Note that Reporting Services is no longer required. Under Shared Features, select Management Tools - Basic and Management Tools - Complete if they are not already selected. Select any of the other shared features that you want to install.
 - **Database Engine Services** is required if you are installing on a server that is used as a Standalone Server or on a Database Server in a distributed system.

Click **Next** when you complete your selections. The setup process validates that the installation can proceed and shows the results on the **Installation Rules** page. If validation is not successful, follow the instructions on the page and click **Rerun**. Click **Next** to proceed to the **Instance Configuration** page when the validation is successful.

Select the Standard features to in	stail	
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Ziror Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Features: Instance Features Database Engine Services SUL Server Replication Full-Text Search Analysis Services Shared Features Client Tools Connectivity Client Tools Backwards Compatibility Client Tools Backwards Compatibility Client Tools Backwards Compatibility Client Tools Backwards Compatibility Client Tools SUK SQL Server Books Online Management Tools - Basic SQL Sterver Books Online SQL Server Books Dolline SQL Sterver Books Dolline SQL Sterver Fools-Complete SQL Sterver Fools	Description: Server features are instance-aware and have their own registry hives. They support multiple instances on computer.
	Select All Unselect All Shared feature directory: C\Program Files\Microsoft SQL S	ierver\

 Select Named instance and enter a name in the Instance Name field, for example ION. (Do not use an underscore character (_) within the instance name.) The same name is automatically added to the Instance ID field and it should not be changed. Click Next.

Any existing instance names appear in the **Installed Instances** area on the page.

SQL Server 2008 R2 Setup	_	• ••••• •••••	10000000000000000000000000000000000000	any and south the states of the second	
Specify the name and instance I	n D for the instance of SQL Serve	r. Instance ID becomes	part of the installation	n path.	NGREES NON
Setup Support Rules Installation Type Product Key License Terms Setup Role Feature Selection Installation Rules Installation Rules Installation Rules Server Configuration Disk Space Requirements	C Default instance C Named instance: Instance ID: Instance root directory: SQL Server directory: Installed instances:	TON TON C:\Program Files\Micr C:\Program Files\Micr	osoft SQL Server\ osoft SQL Server\M55C	QL10_50.TON	
Error Reporting	Instance Name	Instance ID	Features	Edition	Version
Installation Configuration Rules	DBAPP1	MSSQL10_50.DBAPP1	SQLEngine	Standard	10.50.1600.1
Ready to Install	<shared componen<="" td=""><td></td><td>SSMS, Adv_SSMS</td><td></td><td>10.50.1600.1</td></shared>		SSMS, Adv_SSMS		10.50.1600.1
Installation Progress Complete					
	1		< Back	Next >	Cancel Help

- 8. See "Installing SQL Server 2008 R2 from the available DVD" on page 15 for the directions for the following SQL Server 2008 Setup pages:
 - Disk Space Requirements.
 - Server Configuration.

 On the Account Provisioning tab of the Database Engine Configuration page, select Mixed Mode. Type a password for the SQL Server system administrator (sa) account in the Enter password and Confirm password fields. Click Add Current User to add the SQL Server Administrator, then click the Data Directories tab.



LOSS OF DATA

- Use a strong password for the System Administrator account consisting of at least 6 characters that are a combination of uppercase and lowercase letters, numbers, and symbols such as @, #, \$, %.
- Only allow users with advanced knowledge of SQL Server databases access to the SQL Server.

Failure to follow these instructions can result in unauthorized access to SQL Server databases.

Specify Database Engine authentica	tion security mode, administrators and data directories.
Setup Support Rules Installation Type Product Key Setup Role Feature Selection Installation Rules Instance Configuration Server Configuration Database Engine Configuration For Remarkin	Account Provisioning Data Directories FILESTREAM Specify the authentication mode and administrators for the Database Engine. Authentication Mode Windows authentication mode Windows authentication and Windows authentication) Specify the password for the SQL Server system administrator (sa) account. Enter password: Specify SQL Server administrators Specify SQL Server administrators
Installation Configuration Rules Ready to Install Installation Progress Complete	PRMRL/Administrator (Administrator) 5QL Server administrators have unrestricted access to the Database Engine. Image: Add Current User Add Remove

10. If additional drives are available on your server, you can specify a different drive for the TempDB directory and Temp DB log directory fields. Click **Next** to proceed to the **Error Reporting** page.

The specification of different drives is for performance reasons. If all of the files are located on the same drive, data that is being inserted, updated, or deleted can potentially result in slower write operations than if the Temp DB directories are located on a separate drive. The specification of different drives is dependent on your hardware configuration and may not be possible in all cases.

🎲 SQL Server 2008 R2 Setup			_ 🗆 ×
Database Engine Configue Specify Database Engine authenticati	uration on security mode, administrators ar	nd data directories.	
Setup Support Rules	Account Provisioning Data Dire	ectories FILESTREAM	1
Setup Role Feature Selection	Data root directory:	C:\Program Files\Microsoft SQL Server\	
Installation Rules	System database directory:	C:\Program Files\Microsoft SQL	
Instance Configuration		Server\MSSQL10_50.10N\MSSQL\Data	
Server Configuration	User database directory:	C:\Program Files\Microsoft SQL Server\MSSQL10_50.ION\MSSQL\Data	
Database Engine Configuration	User database log directory:	C:\Program Files\Microsoft SQL Server\MSSQL10_50.ION\MSSQL\Data	
Error Reporting	Temp DB directory:	C:\Program Files\Microsoft SQL Server\M5SQL10_50.ION\M5SQL\Data	
Installation Configuration Rules Ready to Install	Temp DB log directory:	C:\Program Files\Microsoft SQL Server\MSSQL10_50.ION\MSSQL\Data	
Installation Progress Complete	Backup directory:	C:\Program Files\Microsoft SQL Server\M5SQL10_50.ION\M5SQL\Backup	

- 11. See "Installing SQL Server 2008 R2 from the available DVD" on page 15 for the directions for the following SQL Server 2008 Setup pages:
 - Error Reporting.
 - Installation Configuration Rules.
 - Ready to Install.
 - Installation Progress.
 - Complete.
- 12. You can select **Search for product updates** in the **SQL Server Installation Center**. Close the dialog after any updates are installed.

Next step

You can now install Power Monitoring Expert software on a Standalone Server or in a distributed configuration consisting of a Database Server and Primary Server. For a description of the installation process, see "Power Monitoring Expert installation" on page 32.

Adding an instance to an existing SQL Server Express installation

If you have previously installed SQL Server 2008 R2 Express, you can add a SQL Server Express instance for use with Power Monitoring Expert by following the directions for "Installing Power Monitoring Expert software" on page 35.

Tasks performed by the product Installer

Depending on your operating system version, your SQL Server edition, and the setup type (server or client) that you select for installation, the Power Monitoring Expert Installer performs some or all of the following tasks prior to the installation of the software:

- Checks for the appropriate version of .NET Framework and initiates its installation if required.
- Validates the Product Key.
- Checks that adequate disk space is available for the files that are written to the hard disk.
- Verifies that the SQL Server Agent is installed.
- Validates that a supported SQL Server edition and service pack level are installed.
- Verifies the connection to the SQL Server.
- Checks for 32-bit SQL Server edition.
- Checks for the presence of ASP.NET.
- Validates that a supported Windows operating system version and service pack level are installed.
- Verifies that the appropriate account permissions are defined, for example, that the SQL Server system administrator (sa) account is set with Administrator as the user.
- Verifies that the Windows account that the SQL Server service runs under has the proper folder permissions to proceed.

The Installer performs configuration tasks during the installation process. Some of these tasks are listed below. See the Installation log that is available at the conclusion of the installation process to view all of the actions performed by the Installer.

- Installs SQL Server backwards compatibility.
- Configures the SQL Server Agent.
- Configures ASP.NET.
- Configures SQL Server.
- Registers, verifies the registration of, and starts services.
- Installs and configures Internet Information Services (IIS).

Power Monitoring Expert installation

The Power Monitoring Expert installation consists of running the Installer and selecting options as you proceed through the installation process. This topic describes the different setup types that are available during installation and also provides a step-by-step description of the installation process.

Setup types available in the Installer

The Installer lets you select a setup type for your Power Monitoring Expert installation. The setup types are:

- Standalone Server.
- Database Instance (for a distributed installation).
- Primary Server (for a distributed installation).
- Secondary Server.
- Engineering Client.
- Reporting Client Only.

Standalone Server setup type

A Standalone Server hosts Power Monitoring Expert configuration files, the services that are required for the system to function, and a SQL Server instance for the Power Monitoring Expert databases.

Make sure your computer meets the operating system and SQL Server requirements summarized in "Required software" on page 8. It is recommended that you run the Windows Update service before and after installing the software.

To ensure that client computers and Secondary Servers can be installed and will operate successfully, the Standalone Server (or Primary Server in a distributed installation) must meet the following requirements:

- Exists on the Local Area Network (LAN).
- Shares full Read and Write permissions on the Power Monitoring Expert folder.
- Enables file and printer sharing on the LAN properties.

Perform the software installation directly on the server. Remote installation is not recommended.

Considerations for a Standalone installation

Before proceeding with the Standalone Server installation, ensure that you complete the following tasks:

- "Configuring your operating system" on page 10.
- "Installing SQL Server" on page 13, or if applicable, "Adding an instance to an existing SQL Server installation" on page 26.

If you intend to use a supported SQL Server Express edition, it is installed at the same time as Power Monitoring Expert on a Standalone Server.

Database Instance and Primary Server setup types

The Database Instance and Primary Server setup types comprise a distributed installation.

The server used for the Database Instance in a distributed installation hosts an edition of Microsoft SQL Server and your Power Monitoring Expert databases. This network configuration requires that you install the server hosting your Database Instance on your network before installing the Primary Server.

A Primary Server in a distributed installation hosts Power Monitoring Expert configuration files and the services that are required for the system to function. The Primary Server communicates with a separate Database Server to access Power Monitoring Expert databases.

See the System Design Guide for information about planning for and setting up your system. The guide also provides information about a Database Server deployed in a clustered SQL Server environment.

Distributed installation considerations

Before proceeding with the installation of your distributed system, ensure that you complete the following tasks:

- "Configuring your operating system" on page 10.
- "Installing SQL Server" on page 13, or if applicable "Adding an instance to an existing SQL Server installation" on page 26.
- Prior to beginning the installation, ensure that all of the servers on the network can communicate with each other. For example, to test for this, open a command prompt on each server and type ping *computer_name*, where *computer_name* is the name of the computer you want to contact. A successful response shows 4 attempts to contact the computer, lists the IP Address, indicates Packets: Sent = 4. Received = 4, Lost = 0 (0% loss), plus timing data. If this is not the case, it indicates that the computers cannot communicate and that you need to resolve the connectivity situation. Note that the ping utility requires that Internet Control Message Protocol (ICMP) be enabled on your network. Contact your Network Administrator if ping does not work.
- Run the Windows Update service on both the server hosting the Database Instance and the Primary Server to install the latest security patches and hotfixes from Microsoft.
- For a distributed installation, you need to install the server hosting the Database Instance on your network before installing the Primary Server.

Secondary Server setup type

Secondary Server installations are not common, and are used only in exceptional circumstances. For example, an intermediary Secondary Server may be required when you have a large number of devices that use software-based logging. Secondary Server installations require advanced network configuration.

For additional information about Secondary Servers, see the System Design Guide.

Engineering Client setup type

An Engineering Client workstation provides administrators and power users access to the Power Monitoring Expert graphical user interface components (Management Console, Vista, Designer). You can use these components to add and configure devices, troubleshoot your system, edit graphics, or perform ION programming tasks. An Engineering Client needs to be installed after a Standalone Server or a Primary Server is installed and running.

Reporting Client Only setup type

A Reporting Client workstation provides administrators and power users with the ability to generate reports using the Reporter component of Power Monitoring Expert. A Reporting Client needs to be installed after a Standalone Server or a Primary Server is installed and running.

Setup Types and applicable Installer pages

The following table indicates the pages in the Installer associated with each setup type. Because Secondary Server installations are not common, the Secondary Server setup type is excluded from the table. The "Y" indicates that the Installer page appears during the installation of that setup type, and the "n/a" indicates that the page is not applicable and does not appear during the installation process.

	Setup Types					
Installer nages	Distributed Installati		nstallation	Engineering	Bonorting	
mataner pagea	Standalone	Database	Primary	Client	Client Only	
		Instance	Server		-	
Application Language		Y for all setup types				
Welcome		Y	for all setup types	;		
License Agreement		Y	for all setup types	;		
Setup Type		Y	for all setup types	;		
User Information		Y for all setup types				
Supervisor Account	Y	n/a	Y	n/a	n/a	
Web Application	Y	n/a	Y	n/a	n/a	
File Destination	Y for all setup types					
Primary Server	n/a n/a Y Y				Y	
Database Software	Y	Y	n/a	n/a	n/a	
Database Instance	n/a	n/a	Y	n/a	n/a	
Check System	Y for all setup types					
Ready to Configure	Y for all setup types					
Copy Files	Y for all setup types					
Configure System	Y for all setup types					
Complete		Y	for all setup types	3		

Installing Power Monitoring Expert software

Start the installation process by inserting the Power Monitoring Expert DVD into the DVD drive. If the installation does not start automatically, use Windows Explorer to navigate to the DVD drive and double-click MainSetup.exe.

- 1. Install Microsoft .NET Framework if prompted.
- 2. Application Language page for all setup types:

Select the Application Language from the list and click Next.

Schneider Electric	
-> Application Language	Application Language Select your preferred language and click Next.
	English (English)
Company and the second s	والمحمد والمحمد والمحمد المحمد والمحمد المحمد المحمد والمحمد والمحمد والمحمد والمحمد والمحمد والمحمد

Note

National language releases for the software are supported as follows:

- The same language versions of Power Monitoring Expert, the SQL Server, and the operating system. For example, Spanish versions of the product and SQL Server installed on an operating system with a regional setting of Spanish.
- English language versions of Power Monitoring Expert and the SQL Server installed on an operating system with a regional setting other than English. For example, English versions of the product and SQL Server installed on a operating system with a regional setting of German.
- 3. Welcome page for all setup types:

Click Next on the Welcome page to proceed to the License Agreement page.

Application Language	Welcome
Welcome	Complete the following steps before continuing:
License Agreement	 Save and close any application currently running. Make sure your system meets the necessary requirements. Make sure you system Microsoft® Vindows® Administrator access to the system you are installing on. Review the Installation Guide.
Check System	You can stop the installation by clicking Cancel. To resume the installation, restart the Installer and click Resume
Ready to Configure	
Copy Files	
Configure System	
Complete	
	Review the Installation Guide
	Explore the DVD Contents
	Back Next Cancel

The **Welcome** page provides reminders for tasks to complete before continuing with the installation.

4. License Agreement page for all setup types:

Read the End User License Agreement (EULA) on the License Agreement page.

Schneider Electric	
🖋 Application Language	License Agreement
✓ Welcome	To continue, you must read and agree to the following license agreement.
→ License Agreement	
Check System	End User License Agreement (EULA)
Ready to Configure	COMPANIES OF THE SCHNEIDER ELECTRIC GROUP
Copy Files	SOFTWARE PACKAGE
Configure System	IMPORTANT - READ BEFORE LISING
Complete	This Software License Agreement was last undated on 28-Oct-2011
	1. Subject matter of the Agreement
	The present Agreement is concluded between yourself, the recipient company of the software package pertaining to the StruxureWare Power Monitoring software (the "Licensee"), and the Schneider Electric Group company listed on the web site http://www.local-operations.schneider-electric.com for the country where your company has issued its order for this software package or where Licensee has received such software package when supplied along with a third party product (the "Licenser)". The present Agreement has for subject matter to define the terms and conditions of use of the computer software, information and printed documentation found with the software package. In the service ion of all other terms barries on a
	Back I Agree Cancel

If you accept the terms of the license agreement, click **I Agree** to proceed to the **Setup Type** page.

5. Select the setup type you want to install from the list if it is not already selected, and click **Next**.

For Standalone Server:

Setup Type

Standalone Server	•			
n this configuration, one server handles all the functions, data storage and interaction with networked device valid instance of SQL Server 2008 is not found in this computer, SQL Express will be installed.				
For Database Instance:				
Setup Type				

Standalone Server		
Standalone Server		
Database Instance 📐		
Primary Server		
Secondary Server		
Engineering Client		
Reporting Client Only		
Setup Type		
Database Instance		-
This setup type installs the Dat SPM databases and maintenar If the SPM databases reside or	abase Server as part of a distributed system. Use this setup type to install the noe jobs on a separate server. a separate database server, you must install the Database Server before	

For Primary Server:

Setup Type

l	Standalone Server
Í	Standalone Server
	Database Instance
	Primary Server
	Secondary Server 🗟
	Engineering Client
	Reporting Client Only

Setup Type

Primary Server	-

This setup type installs the Primary Server as part of a distributed system. If the SPM Databases reside on a separate Database Server, you must install the database server before installing the Primary Server.

For Engineering Client:

Setup Type

Standalone Server
Database Instance
Primary Server
Secondary Server
Engineering Client
Reporting Client Only ^K

Setup Type

Engineering Client This setup type is for Administrators and Power Users that require the ability to add meters, troubleshoot their system, edit graphics, or perform ION programming. You must install SPM on the Primary Server before installing an Engineering Client.

For Reporting Client Only:

Setup Type

Standalone Server
Standalone Server
Database Instance
Primary Server
Secondary Server
Engineering Client
Reporting Client Only

Setup Type

Reporting Client Only					•

This setup type is for Administrators and Power Users who require the ability to use Reporter only. You must install SPM on the Primary Server before installing a Reporting Client.

6. User Information page for all setup types:

Enter the user-related information in the **User Name** and **Company Name** fields on the **User Information** page and click **Next**.

7. Supervisor Account page for Standalone Server and Primary Server setup types only:

Use the **Supervisor Account** page to enter and confirm a password of the supervisor account for the software. Select **Show characters** to see the password in alpha/numeric format. Click **Next**.

	NOTICE
L	OSS OF DATA
•	Use a strong password for the supervisor account consisting of at least 6 characters that are a combination of uppercase and lowercase letters, numbers, and symbols such as $@$, #, \$, %.
•	Only allow users with advanced knowledge of site administration supervisor account access.

Failure to follow these instructions can result in unauthorized access to Power Monitoring Expert system components.

The supervisor account has the highest level of access to the system.

Schneider Blectric	
✓ Application Language	Supervisor Account
✓ Welcome	A Commission and will be an early Direction of a commission of the bits and the
✓ License Agreement	A supervisor account password will be created. Mease enter and commin a password for this account.
→ Gather Information	User Name: supervisor
 Setup Type 	Password:
 User Information 	
Supervisor Account	Confirm Password:
Web Application	Show characters
File Destination	
O Database Software	
Check System	
Ready to Configure	
Copy Files	
Configure System	
Complete	
	Back Next Cancel

After installation of the software, you can open **User Manager** to add additional users, assign passwords, and select the appropriate access level for each user. Open **Management Console** and select **Tools > User Manager**.

8. Web Application page for Standalone Server and Primary Server setup types only:

Use the **Web Application** page to change the default URL path for the Web Applications component of the product or use the default values and click **Next**.

Schneider Electric	
Application Language	Web Application
✓ Welcome	Country a week as were be the solution over disorders for the Week Application 100
🖋 License Agreement	Create a path name to the virtual root directory for the web Application UKL. Path to form the URL:
Gather Information	Web
Setup Type User Information Web Application Database Software Check System Ready to Configure Copy Files Configure System Complete	The Web Application URL: http://SRVR3/ Web
	Back Next Cancel

9. File Destination page for Standalone Server and Database Instance setup types only:

The **File Destination** page indicates the default installation locations for the product folders and files, and for the location of the databases. Use the browse button to select different locations. Click **Next**.

Click Yes if you are prompted to create the folders.

Application Language	File Destination
Welcome	Caladaha da Mantina falda faranan filan
License Agreement	Select the destination folder for your files. This is the location where product folders and files are installed.
Gather Information	C:\Program Files\Schneider Electric\Power Monitoring Expert
 Setup Type 	This is the location where the datatabes are installed.
User Information	C:\Program Files\Schneider Electric\Power Monitoring Expert
Web Application	
→ File Destination	
O Database Software	
Check System	
Ready to Configure	
Copy Files	
Configure System	
Complete	
	Back Next Cancel

10. File Destination page for Primary Server, Engineering Client, and Reporting Client Only setup types:

The **File Destination** page indicates the default installation location for the product folders and files. Use the browse button to select a different location. Click **Next**.

Click Yes if you are prompted to create the folder.

Schneider Blectric	
🖋 Application Language	File Destination
✓ Welcome	Select the destination folder for your files
🖋 License Agreement	This is the location where product folders and files are installed.
→ Gather Information	C:\Program Files\Schneider Electric\Power Monitoring Expert
 Setup Type User Information File Destination Select Primary Server Check System Ready to Configure Copy Files Configure System Complete 	
	Back Next Cancel

- 11. The contents of the Database Software page is dependent on the following:
 - If a SQL Server instance is not found on your Standalone Server, the Database Software page indicates that SQL Server Express will be installed. Click Next to continue with the installation.

Schneider	
🖋 Application Language	Database Software
🖋 Welcome	SOI Sequer® was not found on this computer
🖋 License Agreement	SQL Server® Express will be installed
Gather Information	Click 'Next' to continue
Setup Type User Information	
Web Application	والمقافلة الأفاقي بجري ومعادية الانتجاب الأقامة والمتحد فأشفون والمحادث

 If a SQL Server instance is found on your Standalone Server, you need to select the Install SQL Server Express on this computer option to install SQL Server Express for use with Power Monitoring Expert. Click Next.

pplication Language	Database Software		
/elcome	 Install SQL Server® Express on this com 	puter	
icense Agreement	Use the SQL Server® already installed or	this computer	
Gather Information	Select a database instance from the drop provide authentication information if nece	down list and ssary	
Setup Type	Database Instance		
 User Information 	SRVR3\SQLEXPRESS		
 Web Application 	Authentication		
 File Destination 	Windows Authentication	*	
→ Database Software	Username		
Check System	SRVR3\Administrator		
onder oydenn	Password		
Ready to Configure			
Copy Files			
Configure System			
Complete			

The **SQL Server 2008 R2 Setup** wizard opens at the **Setup Support Files** page and the files are installed automatically.

SQL Server 2008 R2 Setup			_ [
Setup Support Files	;		
Click Install to install Setup S	iupport files. To install or update SQL Ser	erver 2008 R2, these files are required.	
tup Support Files	The following components are	re required for SQL Server Setup:	
	Feature Name	Status	
	Setup Support Files		
	ExecuteCalculateScenarioWo	orkflow	
		< Back Install C	ancel
		< Datik Linstall C	ancer

The installation of SQL Server Express begins automatically after the Setup Support files are installed. The **Installation Progress** page visually indicates the progress of the installation.

🍀 SQL Server 2008 R2 Setup	
Installation Progress	
Installation Progress	
	Install_trin_aide_Cpu32_Action : InstallFiles. Copying new files
and the second	والمرجب والمحصور بيني والمعقورين المتعونين والمحصورين والمحصورين والمحصورين والمحصورين والمحصور

Upon completion of the SQL Server Express installation, a system check is performed to verify that the mandatory prerequisites have been met. The results of the verification are shown on the **Check System** page.

12. **Database Software** page for **Standalone Server** setup type when SQL Server Standard/Enterprise is already installed:

Select the database instance for your SQL Server on the **Database Software** page, provide the necessary authentication values, and click **Next**.

Note that this step assumes that you have a supported SQL Server 2008 Standard or Enterprise edition installed on your Standalone Server.

The SQL Server instance that you want to select is the one that you specified for use with Power Monitoring Expert when you installed or reconfigured the SQL Server.

Schneider Electric	
🖋 Application Language	Database Software
✔ Welcome	Select a database instance from the dropdown list and provide authentication information if necessary
🖋 License Agreement	Database Instance
	PRMRL\ION 💌
Gather Information	Authentication
Setup Type	Windows Authentication
User Information	Username
Web Application	PRMRL\Administrator
File Destination	Password
→ Database Software	
Check System	
Ready to Configure	
Copy Files	
Configure System	
Complete	
	Back Next Cancel

13. Check System for all setup types:

The **Check System** page verifies that the mandatory prerequisites have been met before proceeding. If a problem occurs during the system check, the item is identified and clicking on it displays additional information about the situation. Click **Next**.

Schneider	
🖋 Application Language	Check System
🖋 Welcome	Contour Marified
🖋 License Agreement	System verification successful. Click 'Next' to continue.
J Gather Information	Verify the system requirements are present on your machine.
Setup Type User Information Supervisor Account Use Application File Destination Database Software Check System Ready to Configure Copy Files	✓ Check Disk Space Success ✓ Check Disk Space Success ✓ Check SQL Server Connection Success ✓ Check Database Location Success ✓ Check ASP.NET Success ✓ Check Operating System Success ✓ Check Operating System Operating System validated ✓ Check User Privileges Success ✓ Check SQL Server Service Account Success
Configure System Complete	
	- Back Next Cancel

Note that if you specified a Windows account other than the local system account when you installed a supported edition of SQL Server Standard or Enterprise, the **Check System** page will indicate that the service account under which the SQL Server currently runs does not have the required system permissions. To resolve this situation you need to do one of the following:

- Temporarily change the SQL Server service to run under an account that has Write permissions to (1) the folder created for the product's databases (the default is the install location for ...\Schneider Electric\Power Monitoring Expert\Database, and (2), for the current logged-in user's Temp folder. (To find the full path to the Temp folder, click Start > Run, enter %Temp% and click OK.) The default local system account is an example of an account with these privileges.
- Temporarily grant Write permission for the two folders mentioned above to the Windows account that the SQL Server service runs under. Use the Windows Services control panel to identify this account. (Click Start > Administrative Tools > Services, right-click SQL Server, click the Log On tab in the SQL Server Properties dialog.)

You can revert the temporary changes after the installation of Power Monitoring Expert completes.

14. Ready to Configure page for all setup types:

The **Ready to Configure** page summarizes your configuration for the installation of the software. Click **Install** to begin the installation.

Application Language	Ready to Configure				
/ Welcome	Verify the configuration cho	Verify the configuration choices before proceeding with the installation process. To change any of the installation			
🖊 License Agreement	selections, click back to mo	we unough the installation.			
Gather Information	Setup Type	Primary Windows User			
 Setup Type 	Company Name Program Files Folder	MyCompany C\Program Files (v86)\Schneider Electric\TON Enterprise			
User Information	Virtual Directory	C: (Program Files (X86))Schneider ElectriciUUN Enterprise Web SRVR3 ION			
Web Application	System Database Name System SQL Instance				
 File Destination 	System Database Server	SRVR3\ION SRVR3\Administrator			
Database Software	SQL Server Edition	Express Edition with Advanced Services (64-bit)			
Check System	Product GUID	Install F60CCDCD-D721-45C3-B454-DAD1856D0AA1			
Deadu to Configure	Application Language SOL Server Login Mode	en WindowsAuthenticationMode			
Ready to Configure					
Copy Files					
Configure System					
Complete	Caus configuration to file				
	Save configuration to file				

15. Copy Files page for all setup types:

The **Copy Files** page indicates the progress as files are copied to the server as part of the installation.

Schneider Electric	
✓ Application Language	Copy Files
✔ Welcome	
✓ License Agreement	
Information	
Setup Type	Copying new files
Web Application	Overall Progress
File Destination	
Check System	
✓ Ready to Configure	
→ Copy Files	
Configure System	
Complete	
	Back Next Cancel

When the copying operation is complete, the Configure System page opens.

Schneider Blectric						
🖌 Application Language	Confi	gure System				
✔ Welcome	Configu	ring your system.				
🖋 License Agreement	\checkmark	Update Registry		Success		
🖋 Gather Information	V	Configure Registration		Success		
 Setup Type 	1	Configure Windows IIS Role		Success		
User Information Web Application	V	Install ReportViewer		Success		
File Destination	1	Install Diagnostics Tool		Success		
 Database Software 	额	Install SQL Server Backward				
✔ Check System		Install SQL Server Native Client xt				
🖋 Ready to Configure		Install SQL Server Management				
🗸 Copy Files		Install OPC Core Components				
→ Configure System		Installing Microsoft SQL Server				
Complete		Configure ASP.NET				
		Register Assemblies				
		Danietar Datahaca Managar				-
			Ba	dk 🗌	Next	Cancel

The **Configure System** page indicates each of the configuration actions taking place during the installation. If a configuration step is not successful, an X appears in a column to the left of the item and you are given an option to continue with the installation or to cancel the install process. You can also click the link on the message text on the right of the item to display instructions for resolving the error.

Click Next when the configuration process ends to open the Complete page.

16. Complete page for all setup types:

The **Complete** page contains links that open the Installation Log and start the Web Applications component, respectively.

Schneider ØElectric	
Application Language	Complete
Velcome	Your installation completed successfully!
✓ License Agreement ✓ Gather Information	Summary of the installation has been saved here: Installation Logs
Setup Type User Information Web Application File Destination Database Software	Launch the Web Application: Web Application
✓ Check System ✓ Ready to Configure	
V Copy Files	If changes are made to the server, you can run the configure system portion of the Installer again by opening the Installer setup and selecting Configure.
✓ Configure System → Complete	To uninstall, run the Installer setup again and click Remove. Click Yes in the confirmation dialog box to remove the software from your system.
	Back Close

The Installation Log summarizes the processing that took place during the installation process. (The installation log can be acccessed at a later time in the install location within ...\Schneider Electric\Power Monitoring Expert\SetupLogs.) Click the Web Application link to verify that Web Applications component launches successfully in a browser.

17. Click **Close** to close the installer.

Verify that IIS is working

Ensure that IIS is working by typing the URL http://localhost/ in the address field of Internet Explorer.

The following is displayed in the browser:



Using a Web Client

A Web Client can be used by operators and others to access the Web Applications component of Power Monitoring Expert on a day-to-day basis. Web Applications encompass Dashboards, Diagrams, Tables, Alarms, and Reports.

The browsers supported on Web Client computers are:

- Microsoft Internet Explorer versions 8, 9, or 10.
- Google Chrome version 20 or later.
- Apple Safari version 5 or later on Mac computers.

To access Web Applications from a Web Client, enter an IP address or an address in the following format in your browser:

```
http://domain_name/Web
```

where *domain_name* is the fully-qualified name of the server hosting Power Monitoring Expert and Web is the default root directory, which can be changed during installation. For example, for server name **srv1**, company name **MyCompany**, and a root directory of **Web**, enter the address in the browser as:

http://srv1.MyCompany.com/Web

By default, the first application on the Navigation Bar in Web Applications opens in the browser. To specify which application should open first, add one of the following application query parameters to the Web address. Note that /?application is case-sensitive.

```
/?application=Diagrams
/?application=Tables
/?application=Alarms
/?application=Reports
```

Silverlight support

Any computer that you use to access the browser-based Web Applications component requires Silverlight version 4.0 or later. If Silverlight is not installed, a Web page indicates that you need to install it before you can proceed. Click **Click now to install** to open a download pop-up. Select **Run** to install it over the Internet.



Unable to install Silverlight?

If your site restricts access to the Internet, you should contact your System Administrator, as indicated when you click **Unable to install Silverlight?**.



Unable to install Silverlight?

You must have internet access to install Silverlight. If you require access to this application and your corporate policy restricts either internet access or application installations, contact your System Administrator.

Your System Administrator can use an Internet-enabled computer to review the Silverlight deployment methods described in the Microsoft Silverlight Deployment Guide at

http://download.microsoft.com/download/C/D/5/CD5AAAE3-21F7-47A8-B7D5-39E36BAF9AC8/Silverlight_Deployment_Guide.docx

Post-installation tasks

Perform the following procedures after you install the Power Monitoring Expert software.

Activate software licenses

The installed software includes a 90-day trial license for all features of the product. You must activate valid purchased software licenses within 90 days, otherwise some software functionality is disabled.

NOTICE

LOSS OF COMMUNICATION

- Be sure to activate product and component licenses prior to the expiry of the trial license.
- Ensure that you activate sufficient licenses for the servers and devices in your system.

Failure to follow these instructions can result in loss of data.

You need to purchase and activate licenses for the following software features:

- Communications Server requires Server and Device licenses.
- Vista/Designer requires an Engineering Client license.
- OPC Server requires an OPC DA Server license.
- Billing Report requires a Billing Report Module license.
- Web Clients require Web Client licenses.

When your order is processed, a software license Entitlement Certificate is sent by email from **licensing@schneider-electric.com**. (You may need to change the settings in your email application to ensure that this email arrives in your inbox and is not routed to your spam folder.)

To activate your software licenses:

- 1. Locate your Entitlement Certificate email.
- 2. Follow the instructions in the email to activate your licenses:
 - a. Open the Schneider Electric License Manager or the Schneider Electric Floating License Manager (as instructed in the email) from Start > All Programs > Schneider Electric.
 - b. Click Activate to open the Activation Method dialog.
 - c. Choose one of the available activation methods and follow the detailed instructions provided in the dialog.

Note that you can activate Power Monitoring Expert software licenses over the Internet or by email. Phone activation is not available at this time.

- d. Follow the directions on the **Activation ID** page of the dialog and enter the Activation IDs referenced in your Entitlement Certificate email.
- e. Click Finish to complete the process.

For Secondary communication servers or Engineering Client computers, additional steps may need to be completed before the software detects the licenses. It is recommended that you contact Technical Support for instructions in completing these steps.

Contact the Software Registration Center if you experience any problems activating your software licenses. Click Help > Support in either Schneider Electric License Manager or Schneider Electric Floating License Manager for the contact information.

Refer to the online help in Schneider Electric License Manager for additional information.

Check services

Open the Windows Services dialog and ensure that all of the necessary ION and Schneider Electric services are started. The services run under the Local System account, by default. You can change the **Log On As** attribute of a service by specifying the account and password. Use the **Log On** tab on the service properties dialog to do this. The **Log On As** account must have read/write permissions on the product's installation directory, which by default is ...\Schneider Electric\Power Monitoring Expert.

For more information see the "ION Services" topic in the online *Power Monitoring Expert Help*.

Create local user groups

You can create Microsoft Windows local user groups on a Power Monitoring Expert primary server (that is, on the Standalone Server or the Primary Server) as a way to manage user access through group permissions. The table below shows the permissions assigned to an administrator group and a user group:

Group Name	Access to \Power Monitoring Expert\system ¹	Access to \Power Monitoring Expert\config ¹		
Administrator_Group_Name, which is the name you create for your administrator group.	Full Control	Full Control		
User_Group_Name, which is the name you create for your user group.	Read	Change		
¹ On a 32-bit server, this is under\Program Files\Schneider Electric\. On a 64-bit server, this is under\Program Files (x86)\Schneider Electric\.				

Review Windows Task Scheduler

The Windows Task Scheduler has preconfigured scheduled jobs for performing backups, maintenance, size notification, and trims on the Power Monitoring Expert databases. Review these schedules and make any modifications that you require.

For more information refer to the Database Manager and Windows Task Scheduler section in the online *Power Monitoring Expert Help*.

Security considerations

This section outlines specific security considerations after the Power Monitoring Expert installation.

Power Monitoring Expert software security

Select **Help** in **User Manager** for further information about creating users and groups, and in setting system access levels.

For more information refer to the "User Manager" section under "Management Console Tools" in *Power Monitoring Expert Help*.

Using HTTP SSL to secure Web-site communications

The Secure Socket Layer (SSL) protocol allows you to establish an encrypted link between your Web server and a browser to protect login credentials and data from interception by a 3rd party on the network.

The Web Applications component (consisting of Dashboards, Diagrams, Alarms, Tables, and Reports) can be accessed via SSL by specifying "https" instead of "http" in a Web browser on a client computer. For example:

https://domain name/Web

where *domain_name* is the fully-qualified name of the server hosting Power Monitoring Expert and Web is the default root directory, which can be changed during installation.

Alternatively, you can use the IP address of the server.

Notes

Although SSL functions out-of-the-box with Power Monitoring Expert software, Web browsers on client computers may issue a message to users indicating that the SSL certificate has not been issued by a trusted certificate authority. To remove this warning and improve the security of your system, it is recommended that you purchase and install a certificate from a certificate authority.

To enforce the use of SSL with Power Monitoring Expert, a network-level HTTP filter must be applied.

Default passwords for SQL Server

The default user identification and password for some of the database accounts need to be preserved for the proper operation of Power Monitoring Expert. Contact Technical Support for details before you attempt to modify user IDs and passwords.

NTFS and Share permissions on the product directory

All share permissions are automatically set to "Read" permissions for the "Everyone" group; this includes the Power Monitoring Expert share (the product's installation directory).

Change the product directory's share permission to Read/Write for users of Engineering Client computers who need to modify files, such as Vista diagrams, and for users of Reporting Client computers who need to generate reports.

StruxureWare Power Monitoring Expert 7.2 Installation Guide

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