Using the SQL Server 2014 DVD

Use the enclosed DVD to install Microsoft SQL Server 2014 Standard Edition (English) with Service Pack 1 before installing StruxureWare™ Power Monitoring Expert software. See the StruxureWare Power Monitoring Expert 8.1 Installation Guide for further information about SQL Server and Power Monitoring Expert installations.

Installing .NET Framework 3.5 SP1

.NET Framework 3.5 SP1 is required before you can install a version of SQL Server that is required by Power Monitoring Expert.

Refer to the "Hardware and Software Requirements" topic in Hardware and Software Requirements for Installing SQL Server provided by Microsoft at http://msdn.microsoft.com/en-us/library/ms143506.aspx. By default, the page refers to SQL Server 2016. Select 2014 from the Other Versions dropdown list to view the document specific to the SQL Server 2014 version.

Note that the "Hardware and Software Requirements" topic also includes a reference to Microsoft .NET Framework 3.5 Deployment Considerations at http://msdn.microsoft.com/library/windows/hardware/hh975396. This information provides recommendations and guidance on acquiring and enabling .NET Framework 3.5.

Installing SQL Server 2014

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 2014 installation DVD in your DVD drive. If the auto-run process does not start automatically, navigate to the root directory on the DVD and double-click setup.exe to open the SQL Server Installation Center.

2. Select Installation in the left pane and New SQL Server stand-alone installation or add features to an existing installation on the right. A message indicates that the process is starting.

3. The Product Key page: The product key is provided by default. Click Next.

4. The License Terms page: Read the license terms then select I accept the license terms and click Next to continue.
Note that the SQL Server edition available from Schneider Electric is a "Per Core" license and that this SQL server can only be used with Power Monitoring Expert software.

5. The **Global Rules** page: This page identifies any errors that might occur when you install SQL Server Setup support files. If validation is successful, click **Next**. If validation is not successful, correct the errors before continuing.

6. The **Microsoft Update** page: Select the checkbox if you want to use Microsoft Update to check for updates. Click **Next**.

7. The **Product Updates** page: Any updates required for the installation are applied automatically and the next page opens. If the update process is not successful, follow the instructions on the page then click **Rerun**. Click **Next** when the process completes successfully.

8. The **Install Setup Files** page: The installation of the setup files occurs automatically.

9. The **Install 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.

10. The **Setup Role** page: Leave **SQL Server Feature Installation** selected and click **Next**.

11. The **Feature Selection** page: Under **Instance Features**, select **Database Engine Services**. Under **Shared Features**, select **Management Tools - Basic** and **Management Tools - Complete**. Select any of the other shared features that you want to install.

    **Database Engine Services** is required if you are installing on a Standalone Server or on a Database Server in a distributed system.

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

    If validation is successful, the next page opens. 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.

13. The **Instance Configuration** page: 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.) Click in the **Instance ID** field to automatically add your **Instance name** entry. Click **Next**.

14. The **Server Configuration** page: The **Account Name** for SQL Server Agent and SQL Server Database Engine needs to be **NT AUTHORITY\SYSTEM** (your local system account). Highlight the existing entries in the **Account Name** column and enter **NT**
AUTHORITY\SYSTEM for the two services. Click Next.

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 indicates 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 ...\Power Monitoring Expert, 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.

15. The Database Engine Configuration page: On the Server Configuration tab:
   a. Select Mixed Mode.
   b. 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.)
   c. Click Add Current User to add the SQL Server Administrator.
   d. Click the Data Directories tab.

16. The Database Engine Configuration page: On the Data Directories tab, specify a different drive, if available, for the TempDB directory and Temp DB log directory. Click Next to proceed to the Feature Configuration Rules 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. See the Design Guide for performance and hard drive considerations.

17. The Feature Configuration Rules page: The rules are run automatically to validate that the installation can proceed. If validation is successful, the next page opens. If val-
idation is not successful, follow the instructions on the page and click Rerun. Click Next when the validation is successful.

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

   The Installation Progress page provides a visual indication of the progress of the installation. When the installation finishes, the Complete page opens.

19. The Complete page: Click Close to close the setup dialog.
   
   The Complete page contains information about the Setup operations or possible next steps, as well as supplemental information related to your installation.

20. Go to the Maintenance page in the SQL Server Installation Center and click Launch Windows Update to search for product updates that you can install.

21. Close the SQL Server Installation Center.

NOTE:

- It is recommended that you assess the software security requirements of your organization. The potential risks to a SQL Server installation to your organization should be carefully evaluated. Use Microsoft’s Web site to search for and consult best practices on securing a SQL Server installation.

- If you decide 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.

- For performance reasons, it is recommended that you set memory options for your SQL Server. See "Setting SQL Server memory options" in the Installation Guide for a description of the required steps.