Microsoft® SQL Server® 2008 R2 (64-bit)
Standard Edition
Installation Guide
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Installing SQL Server 2008 R2 Standard Edition

XMPie® PE™ Server products and modules (uProduce, uStore & Marketing Console) require an installation of Microsoft® SQL Server® 2008 R2.

This document explains how to install SQL Server 2008 R2 Standard Edition (64-bit), so that it works properly with uProduce, uStore and Marketing Console.

Note: To ensure a successful installation, it is highly recommended to install the SQL Server on a machine that is dedicated to production, and to refrain from installing XMPie products on this machine.

Audience

This document is intended for support engineers who wish to install Microsoft SQL Server Standard, in order to install XMPie Products (such as uProduce, uStore and uProduce Marketing Console).

These engineers are assumed to be familiar with installation procedures, general database concepts and have basic knowledge of the SQL query language.
Installation Prerequisites

This section guides you through verifying important prerequisite components that are essential for the proper installation process of the SQL Server 2008 R2.

1. Make sure you are installing SQL Server 2008 R2 on top of Windows Server 2008 R2 (64-bit). Windows Server 2008 R2 must be installed with all hot fixes and critical updates from Microsoft.

2. Verify that Microsoft .NET Framework 3.5.x is installed:
   a. Open the Server Manager by clicking Start, pointing to Administrative Tools, and then clicking Server Manager.
   b. Point to and click Features in the left pane.
   c. Click Add Features. The Add Feature Wizard appears.
   d. In the Select Features window, expand .NET Framework 3.5. Features and verify that the .NET Framework 3.5.x checkbox is checked.
   e. Click Cancel to quit the Add Feature Wizard.
   f. If the .NET Framework 3.5.x is not installed, check the .NET Framework 3.5.x checkbox. The Add Feature Wizard pop-up appears.
   g. In the Add Feature Wizard pop-up, click the Add Required Features button.
   h. Click Next.
   i. In the Confirmation page click Install. The installation summary and status is displayed in the Installation Results page of the Add Features Wizard.
   j. Click Close to close the Add Features Wizard window.
   k. Close the Server Manager.
3. Verify that **IIS Component** is installed:
   a. Open the **Server Manager** by clicking **Start**, pointing to **Administrative Tools**, and then clicking **Server Manager**.
   b. Point to and click **Roles** in the left pane.
   c. Click **Add Roles**. The Add Roles Wizard appears.
   d. Click **Next**. The **Select Server Roles** page appears.
   e. Verify that the **Web Server (IIS)** checkbox is checked and quit the Add Roles Wizard.
   f. If the Web Server (IIS) is not installed, check the checkbox and click **Next**.
4. Click Next until you reach Select Role Services page.

5. Scroll down the list, and make sure the following components are checked:
   - Under **Common HTTP features** select all components (Figure 4).
   - Under **Application Development** (Figure 4)
     - **ASP.NET**. A window may be displayed asking you to add role services required for ASP.NET. Click **Add Required Role Services** (Figure 3):
Figure 3: Add Roles Wizard: Add Role Services Required for ASP.NET

- **.NET Extensibility** (checked automatically, once ASP.NET service is selected)
- **ASP**
- **ISAPI Extensions** (checked automatically, once ASP.NET service is selected)
- **ISAPI Filters** (checked automatically, once ASP.NET service is selected)

Under **Security** (Figure 5):
- **Basic Authentication**
- **Windows Authentication**
- **Client Certificate Mapping Authentication**
- **IIS Client Certificate Mapping Authentication**
- **Request Filtering**
Under **Performance**, select **Static Content Compression** (Figure 5).

Under **Management Tools** select all options (Figure 5).
6. Click **Next** until you reach the **Confirmation** page and then click **Install**. The installation summary and status is displayed in the **Installation Results** page of the Add Roles Wizard.
Installation Prerequisites

Figure 6: Add Roles Wizard: Web Server (IIS) Installation Results

Add Roles Wizard

Installation Results

Before You Begin
Server Roles
Web Server (IIS)
Role Services
Confirmation
Progress

Results

The following roles, role services, or features were installed successfully:

- Web Server (IIS)
  - Installation succeeded

  - The following role services were installed:
    - Web Server
      - Common HTTP Features
        - Static Content
      - Default Document
      - Directory Browsing
      - HTTP Errors
      - Application Development
        - ASP.NET
        - .NET Extensibility
        - ISAPI Extensions
        - ISAPI Filters
      - Health and Diagnostics
        - HTTP Logging
        - Request Monitor
      - Security
        - Basic Authentication
        - Windows Authentication
        - Client Certificate Mapping Authentication
        - IIS Client Certificate Mapping Authentication

Print, e-mail, or save the installation report
**Installing SQL Server 2008 R2 Standard Edition**

The following procedure explains how to install a new instance of Microsoft SQL Server 2008 R2 Standard Edition (64-bit).

**Proced as follows:**

1. Insert the SQL Server 2008 R2 Standard Edition DVD and double-click the `setup.exe` file.
2. The **Microsoft SQL Server 2008 R2 Setup** checks to determine that all the prerequisite components are installed. If not, you will be prompted to install the missing components.

*Figure 7: Microsoft SQL Server 2008 R2 Setup*

If you get the message above, you must fix and install the prerequisite components before continuing with the installation process.

Windows Installer 4.5 is also required, and might be installed by the Installation Wizard. If you are prompted to restart your computer, restart it, and then restart the SQL Server `Setup.exe` installation file.
3. The **SQL Server Installation Center** will then launch. On the left pane, click **Installation** and then click **New installation or add feature to an existing installation** to start the Installation Wizard.

*Figure 8: SQL Server Installation Center*
4. In the **Product Key** page, enter the license key and click **Next** to continue.

*Figure 9: SQL Server 2008 R2 Setup – Product Key*
5. In the **License Terms** page, accept the license terms and click **Next** to continue.

*Figure 10: SQL Server 2008 R2 Setup – License Terms*

6. In the **Setup Support Files** page, click **Install** (Figure 14):
Figure 11: SQL Server 2008 R2 Setup – Setup Support Files

The following components are required for SQL Server Setup:

<table>
<thead>
<tr>
<th>Feature Name</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Setup Support Files</td>
<td></td>
</tr>
</tbody>
</table>

Click Install to install Setup Support Files. To install or update SQL Server 2008 R2, these files are required.
7. In case that the **Setup Support Rules** identify problems that might occur when installing SQL Server Setup support files, the failures must be corrected before the SQL Server Setup can continue. Here is an example for a correct installation:

*Figure 12: SQL Server 2008 R2 Setup – Setup Support Rules*

<table>
<thead>
<tr>
<th>Rule</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fusion Active Template Library (ATL)</td>
<td>Passed</td>
</tr>
<tr>
<td>Unsupported SQL Server products</td>
<td>Passed</td>
</tr>
<tr>
<td>Performance counter registry hive consistency</td>
<td>Passed</td>
</tr>
<tr>
<td>Previous releases of SQL Server 2008 Business Intelligence Development</td>
<td>Passed</td>
</tr>
<tr>
<td>Previous CTP installation</td>
<td>Passed</td>
</tr>
<tr>
<td>Consistency validation for SQL Server registry keys</td>
<td>Passed</td>
</tr>
<tr>
<td>Computer domain controller</td>
<td>Passed</td>
</tr>
<tr>
<td>Microsoft .NET Application Security</td>
<td>Passed</td>
</tr>
<tr>
<td>Edition WOW64 platform</td>
<td>Passed</td>
</tr>
<tr>
<td>Windows PowerShell</td>
<td>Passed</td>
</tr>
<tr>
<td>Windows Firewall</td>
<td>Passed</td>
</tr>
</tbody>
</table>

Click **Next** to continue.
8. In the **Setup Role** page, select the **SQL Server Feature Installation** radio button and click **Next** to continue.

*Figure 13: SQL Server 2008 R2 Setup – Setup Role – SQL Feature Installation*
9. In the **Feature Selection** page, review the features to be installed and make sure the following components are selected (Figure 14):

*Figure 14: SQL Server 2008 R2 Setup – Feature Selection*

You can also specify a custom directory for shared components by using the field at the bottom of the **Feature Selection** page. To change the installation path for shared components, either update the path in the field at the bottom of the dialog box, or click **Browse** to move to an installation directory. The default installation path is `C:\Program Files\Microsoft SQL Server`.

Click **Next**.
10. In the **Installation Rules** page, click **Next** to continue.

*Figure 15: SQL Server 2008 R2 Setup – Installation Rules*
11. In the **Instance Configuration** page, enter **XMPIE** in the **Named instance** field and click **Next** to continue.

*Figure 16: SQL Server 2008 R2 Setup – Instance Configuration*
12. In the **Disk Space Requirements** windows appears, click **Next** to continue:

*Figure 17: SQL Server 2008 R2 Setup – Disk Space Requirements*

13. In the **Server Configuration** window > **Service Accounts** tab, make sure that for each one of the listed Services the corresponding **Account Name**, **Password** and **Startup Type** are set as shown below.

*Note:* You can assign the same login account to all SQL Server services or you can configure each service account individually. In addition, you can specify whether services start automatically, manually or are disabled. Please work with your Database Administrator to configure these settings.
Installing SQL Server 2008 R2 Standard Edition

Figure 18: SQL Server 2008 R2 Setup – Server Configuration: Service Accounts
14. In the **Server Configuration** window > **Collation** tab, make sure the SQL Server collation settings are as displayed below:

*Figure 19: SQL Server 2008 R2 Setup – Server Configuration: Collation*

If the collation settings are different, click **Customize** and select the settings as displayed in *Figure 19* above.

Click **Next** to continue.

15. In the **Database Engine Configuration** window, choose **Mixed Mode**, enter `xmpiesa` (in lower case) in the **Enter password** field, confirm it in the **Confirm password** field, and click **Next** to continue.
**Note:** If the default Windows password complexity policy is enabled, this password can be considered as weak. You should provide a strong password in order to meet the Windows password complexity policy. In addition, make sure that the Current User (Administrator) is shown in the Specify SQL Server administrators list. If not, click the Add Current User button to add the current user.

Figure 20: SQL Server 2008 R2 Setup – Database Engine Configuration
16. In the **Reporting Services Configuration** window, make sure that the **Install the native mode default configuration** option is selected and click **Next** to continue.

**Figure 21: SQL Server 2008 R2 Setup – Reporting Services Configuration**
17. In the **Error Reporting** window, click **Next** to continue.

*Figure 22: SQL Server 2008 R2 Setup – Error Reporting*

18. In the **Installation Configuration Rules** window, click **Next** to continue.
19. The **Ready to Install** window, click **Install**.

20. The **Installation Progress** window is displayed, listing the components being configured and indicating the installation progress.

*Figure 23: SQL Server 2008 R2 Setup – Installation Progress*
21. Once the installation is completed, the **Complete** page is displayed with the message: **Your SQL Server 2008 R2 installation completed successfully.** Click **Close** to close the Setup Wizard.

*Figure 24: SQL Server 2008 R2 Setup – Complete*

22. Close the **SQL Server Installation Center**.
Post-Installation Setup and Configuration

The following settings/parameters must be verified after the installation of Microsoft SQL Server 2008 R2:

1. Verifying that remote connections are allowed to the SQL Server (see Allowing remote connections to the SQL Server on page 33)
2. Enabling TCP/IP Protocol for SQL Server Network Configuration (see Enabling TCP/IP Protocol for SQL Server Network Configuration on page 36)
3. Assigning a Static TCP Port to the SQL Server Database Engine – XMPIE instance (see Assigning a Static TCP Port to the SQL Server Database Engine – XMPIE instance on page 37)
4. Configuring Surface Area (see Configuring Surface Area (Tracking DB) on page 40).

Allowing remote connections to the SQL Server

To access SQL Server Management Studio:

1. On the taskbar, click Start, point to All Programs, point to Microsoft SQL Server 2008 R2, and then click SQL Server Management Studio. The Connect to Server window is displayed.

Figure 25: SQL Server 2008 R2 – Connect to Server
2. Enter/select the following values and click Connect to login to the SQL Server Management Studio:

- **Server type**: Database Engine
- **Server name**: [\<SQL Server 2008 Host name>\XMPIE>]
- **Authentication**: SQL Server Authentication
- **Login**: sa (lowercase)
- **Password**: password corresponding to the sa user.

3. In the Object Explorer in the left pane, right-click the XMPIE instance and select Properties in the context menu.

*Figure 26: Server Properties/Connections – Allow remote connections to this server checkbox*
4. In the Server Properties window, click **Connections** and verify that the **Allow remote connections to this server** checkbox in the **Remote server connections** section is checked. If not, please check it.

*Figure 27: Server Properties/Connections – Allow remote connections to this server checkbox*

5. Click **OK** to close the **SQL Server Properties**.
Enabling TCP/IP Protocol for SQL Server Network Configuration

To enable TCP/IP protocol to the SQL Server Database Instance:

1. On the taskbar, click Start → All Programs → Microsoft SQL Server 2008 R2 → Configuration Tools and then click on the SQL Server Configuration Manager.

2. In the SQL Server Configuration Manager, in the left pane, expand SQL Server Network Configuration and select Protocols for XMPIE.

3. Verify that the TCP/IP protocol is enabled. If not, right-click TCP/IP in the Protocol Name column and choose Enable.

Figure 28: SQL Server Configuration Manager – Enable TCP/IP

![SQL Server Configuration Manager](image)

A warning message is displayed. Click OK to continue.
4. Click the **SQL Server Services** on the left pane.

5. Right-click the **SQL Server (XMPIE) Service** and click **Restart** in order to restart the SQL Server (XMPIE) service.

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**Assigning a Static TCP Port to the SQL Server Database Engine - XMPIE instance**

This is a one-time procedure to be performed on the Server that hosts the XMPIE instance of SQL Server to indicate which protocol to use when communicating with remote clients. This procedure uses the TCP/IP protocol.
The default instance of the Microsoft SQL Server Database engine listens on TCP port 1433. When connecting to a named instance (XMPIE) through a Firewall, configure the Database Engine to listen on a specific TCP port, so that the appropriate port can be opened in the Firewall.

To assign a TCP Static port number to the SQL Server Database Instance:

1. On the taskbar, click Start → All Programs → Microsoft SQL Server 2008 R2 → Configuration Tools and click on the SQL Server Configuration Manager.

2. In SQL Server Configuration Manager, in the Console pane, expand SQL Server Network Configuration, expand Protocols for XMPIE instance, and then double-click TCP/IP.

3. In the TCP/IP Properties dialog box, in the IP Addresses tab, several IP addresses appear, in the format IP1, IP2, up to IPAll. One of these IP addresses - 127.0.0.1- is used for the loopback adapter. Additional IP addresses appear for each IP Address on the computer. If the TCP Dynamic Ports dialog boxes contain 0, indicating the Database instance is listening on dynamic ports, delete the 0.

4. In the IP Properties area box, in all the TCP Port text boxes, type the port number 1433 and then click OK.
5. After setting the protocol you must restart the SQL Server service. In the **Console** pane, click **SQL Server Services**. In the details pane, right-click **SQL Server (XMPIE)** and then click **Restart**, to restart SQL Server service.

The static TCP Port number 1433 is now defined.
Configuring Surface Area (Tracking DB)

**Note:** The following step is necessary ONLY where the tracking database is installed. If the tracking DB is separated from the uProduce Server, there is no need to implement this configuration in the uProduce DB.

To access SQL Server Management Studio:

1. On the taskbar, click **Start**, point to **All Programs**, point to **Microsoft SQL Server 2008 R2**, and then click **SQL Server Management Studio**. The **Connect to Server** window is displayed.

   ![Figure 32: SQL Server 2008 R2 – Connect to Server](image)

   - **Server type**: Database Engine
   - **Server name**: [SQL Server 2008 Host name]\XMPIE
   - **Authentication**: SQL Server Authentication
   - **Login**: sa (lowercase)
   - **Password**: password corresponding to the sa user.

2. Enter/select the following values and click **Connect** to login to the SQL Server Management Studio:

   - **Server type**: Database Engine
   - **Server name**: [SQL Server 2008 Host name]\XMPIE
   - **Authentication**: SQL Server Authentication
   - **Login**: sa (lowercase)
   - **Password**: password corresponding to the sa user.

3. On the Object Explorer in the left pane, right-click on the XMPIE instance and click **Facets**.
4. The **View Facets** window is displayed. From the **Facets** dropdown menu, choose **Surface Area Configuration**.
5. In the **Facet Properties**, change the value of the **ClrIntegrationEnabled** facet from **False** to **True**.
6. Click **OK** to close the Facets properties.

7. Close the SQL Server Management Studio.