

# Millennium Expert/Enterprise/Xtra/Ultra

**Technical Bulletin 037** 

03-7-2016

#### Title: Manually Installing SQL Server

Contents: This document explains how to manually install Microsoft SQL server 2014 for use with Millennium Expert, Enterprise, Xtra, and Ultra. SQL server is the common application that all the products use to run their databases, and it is required to be installed before any of the Millennium software can be installed.

## **Procedure:**

1. Browse to the **SQL** folder in the installation disc and run the **setup.exe** file:

| │ Name                   | Date modified      | Туре                  |
|--------------------------|--------------------|-----------------------|
| 📙 1033_ENU_LP            | 8/15/2015 8:42 AM  | File folder           |
| 📕 redist                 | 8/15/2015 8:49 AM  | File folder           |
| 📜 resources              | 8/15/2015 8:49 AM  | File folder           |
| 📕 x86                    | 8/15/2015 8:56 AM  | File folder           |
| J AUTORUN                | 2/5/2014 11:00 PM  | Setup Information     |
| MEDIAINFO                | 2/20/2014 11:00 PM | XML Document          |
| Packageld.dat            | 11/5/2014 11:00 PM | DAT File              |
| SETUP                    | 2/19/2014 11:00 PM | Application           |
| SETUP.EXE.CONFIG         | 1/15/2014 11:00 PM | CONFIG File           |
| SQLSETUPBOOTSTRAPPER.DLL | 2/19/2014 11:00 PM | Application extensior |
| SOMAPI.DLL               | 2/19/2014 11:00 PM | Application extensior |

2. If this is a new computer, you want to select the New SQL Server stand-alone installation option that is highlighted below. If the computer already has an older version of SQL server installed, but it is not used for anything else, then you can select the Upgrade from SQL Server option and the installer will go through the upgrade process for SQL. NOTE: For upgrading an existing SQL instance, please see the guide on upgrading a SQL Instance. This document will only focus on the new SQL Instance Installation

| 🐮 SQL Server Installation Center                              |          | - 0   | × |
|---|----------|---|---|
| Planning<br>Installation<br>Maintenance<br>Tools<br>Resources | <b>*</b> | <ul> <li>New SQL Server stand-alone installation or add features to an existing installation<br/>Launch a wizard to install SQL Server 2014 in a non-clustered environment or to add<br/>features to an existing SQL Server 2014 instance.</li> <li>Upgrade from SQL Server 2005, SQL Server 2008, SQL Server 2008 R2 or SQL Server 2012<br/>Launch a wizard to upgrade SQL Server 2005, SQL Server 2008, SQL Server 2008 R2 or SQ<br/>Server 2012 to SQL Server 2014.</li> </ul> | 2 |
| Options   |          |   |   |
| Microsoft SQL Server 2014                                     |          |   |   |

3. You must select the checkbox stating that you accept the License Terms from Microsoft. If you wish to review the License Terms, you can use the provided buttons to copy them to the clipboard to paste them into Microsoft Word or Notepad, or you can select Print to print the License Terms for review.

髋 SQL Server 2014 Setup

| License Terms<br>To install SQL Server 2014, y   | you must accept the Microsoft Software License Terms.   |
|--|---|
| License Terms<br>Global Rules<br>Microsoft Update<br>Product Updates<br>Install Setup Files<br>Install Rules<br>Feature Selection<br>Feature Rules | MICROSOFT SOFTWARE LICENSE TERMS<br>MICROSOFT SQL SERVER 2014 EXPRESS<br>These license terms are an agreement between Microsoft Corporation (or based on where you<br>live, one of its affiliates) and you. Please read them. They apply to the software named above,<br>which includes the media on which you received it, if any. The terms also apply to any Microsoft<br>• updates,   |
| Feature Configuration Rules<br>Installation Progress<br>Complete   | supplements,  |
|  | Iurn on Customer Experience Improvement Program ("CEIP") and Error Reporting to help improve the<br>quality, reliability and performance of Microsoft SQL Server 2014.     See the Microsoft SQL Server 2014 Privacy Statement for more information.     * Microsoft SQL Server 2014 also includes a Visual Studio component that will have CEIP settings turned<br>off by default. If Visual Studio is installed, this component will use the CEIP settings for Visual Studio. |
|  | < <u>B</u> ack <u>N</u> ext > Cancel  |

- 4. The installation will then perform a quick rule check to verify that your computer has everything already installed that the SQL Server needs, as well as your computer does not have any pending reboots for updates. If you have a pending reboot for an update, then the installer will not allow you to continue until you perform the update and restart the computer. If all the rule checks pass, you will be able to move on to the next step.
- 5. Then next step is to tell the system if you wish to allow Microsoft Update to check for updates to the installation before you begin. This is an optional step, however it is recommended that you allow the software to download any updates before you start as there are updates that have been released to patch security and performance issues that were found with the software.

\_

Х

| 髋 SQL Server 2 | 2014 Se | etup |
|----------------|---------|------|
|----------------|---------|------|

| Microsoft Update  | for important updates  |
|---|--|
| License Terms<br>Global Rules<br><b>Microsoft Update</b><br>Product Updates<br>Install Setup Files<br>Install Rules<br>Feature Selection<br>Feature Rules<br>Feature Configuration Rules<br>Installation Progress<br>Complete | Microsoft Update offers security and other important updates for Windows and other Microsoft<br>software, including SQL Server 2014. Updates are delivered using Automatic Updates, or you can visit<br>the Microsoft Update website.<br>Use Microsoft Update to check for updates (recommended)<br>Microsoft Update FAQ<br>Microsoft Update Privacy Statement |
|   | < <u>B</u> ack <u>N</u> ext > Cancel   |

- 6. Once the updated files are downloaded, you will be able to move on to the next step.
- The next step is the Feature Selection; this is the step where we select the features of the SQL database instance. The screen below shows the features that should be selected to allow Millennium Access Control Applications to function correctly.

 $\times$ 

\_

髋 SQL Server 2014 Setup

\_

### Feature Selection

Select the Express features to install.

| License Terms  | <u>F</u> eatures:  |                      | Feature description:   |  |
|--|--|----------------------|--|--|
| Global Rules<br>Microsoft Update<br>Product Updates<br>Install Setup Files<br>Install Rules<br>Feature Selection<br>Feature Rules<br>Instance Configuration<br>Server Configuration<br>Database Engine Configuration<br>Feature Configuration Rules<br>Installation Progress | Shared Features  Client Tools Connectivity  Client Tools Backwards Compatibility  Client Tools SDK  Documentation Components                               |                      | The configuration and operation of each<br>instance feature of a SQL Server instance is<br>isolated from other SQL Server instances. SQL<br>Server instances can operate side-by-side on<br>Prerequisites for selected features:<br>Already installed:<br>Windows PowerShell 2.0<br>Microsoft .NFT Framework 3.5<br>Disk Space Requirements<br>Drive C: 2784 MB required, 55286 MB available |  |
| Complete   | Select <u>All</u> <u>Unselect All</u><br>Instance <u>r</u> oot directory:<br><u>Shared feature directory</u> :<br>Shared feature directory ( <u>x</u> 86): | C:\Program Files\Mic | )\Microsoft SQL Server\<br>crosoft SQL Server\<br>)\Microsoft SQL Server\<br>Next > Cancel Help  |  |

- 8. This is also the screen where you can select what drives SQL will be installed on, and where it will set the default database locations.
- 9. The next step is to configure the SQL database Instance Name. You can leave this as the default, however just make a note of what it is as when you go to perform the software installation, it will ask you for the SQL instance.

🐮 SQL Server 2014 Setup

| Instance Configuration<br>Specify the name and instance   |   | QL Server. Instance ID b            | ecomes part of the in      | stallation path.   |         |
|---|---|-------------------------------------|----------------------------|--------------------|---------|
| License Terms<br>Global Rules<br>Microsoft Update<br>Product Updates<br>Install Setup Files<br>Install Rules<br>Feature Selection<br>Feature Rules<br>Instance Configuration<br>Server Configuration<br>Database Engine Configuration<br>Feature Configuration Rules<br>Installation Progress<br>Complete | <ul> <li><u>D</u>efault instance</li> <li>N<u>a</u>med instance:</li> </ul> | SQLExpress                          |                            |                    |         |
|   | Instance <u>I</u> D:<br>SQL Server directory:<br>Installed instances:       | SQLEXPRESS<br>C:\Program Files (x86 | )\Microsoft SQL Serve      | r\MSSQL12.SQLEXPRE | 25      |
|   | Instance Name   | Instance ID                         | Features                   | Edition            | Version |
|   |   |                                     | < <u>B</u> ack <u>N</u> ex | t > Cancel         | Help    |

- 10. When you are ready, click Next.
- 11. At this step we will configure how the services will startup. You want to set both the **SQL Server Database Engine** and the **SQL Server Browser** startup type to be **Automatic**.

\_

Х

髋 SQL Server 2014 Setup

## Server Configuration

Specify the service accounts and collation configuration.

|   | Service Accounts Collation        |                             |                 |              |
|---|-----------------------------------|-----------------------------|-----------------|--------------|
| Global Rules  | Microsoft recommends that you use | a separate account for each | SOL Server serv | ice.         |
| Microsoft Update  |                                   | ·                           |                 |              |
| Product Updates   | Service                           | Account Name                | Password        | Startup Type |
| Install Setup Files   | SQL Server Database Engine        | NT Service\MSSQL\$SQL       |                 | Automatic ~  |
| Install Rules   | SQL Full-text Filter Daemon Launc | NT Service\MSSQLFDLa        |                 | Manual       |
| Feature Selection   | SQL Server Browser                | NT AUTHORITY\LOCAL          |                 | Automatic 🗸  |
| Feature Rules   |                                   |                             |                 |              |
| Instance Configuration  |                                   |                             |                 |              |
| Server Configuration  |                                   |                             |                 |              |
| cerver configuration  |                                   |                             |                 |              |
| Detabase Francisco Configuration  |                                   |                             |                 |              |
|   |                                   |                             |                 |              |
| Feature Configuration Rules   |                                   |                             |                 |              |
| Feature Configuration Rules   |                                   |                             |                 |              |
| Feature Configuration Rules   |                                   |                             |                 |              |
| Feature Configuration Rules   |                                   |                             |                 |              |
| Feature Configuration Rules<br>nstallation Progress   |                                   |                             |                 |              |
| eature Configuration Rules  |                                   |                             |                 |              |
| eature Configuration Rules  |                                   |                             |                 |              |
| Feature Configuration Rules   |                                   |                             |                 |              |
| Database Engine Configuration<br>Feature Configuration Rules<br>Installation Progress<br>Complete |                                   |                             |                 |              |

- 12. When you are ready, click Next.
- 13. Now, the installation will allow you to configure the Authentication methods. By default SQL will use Windows Authentication and it will automatically add the currently logged in user to the Administrators group. It is recommended that you set the Authentication Mode to Mixed Mode and set the default SQL sa Administrator password as this will provide a secondary method to gain access to SQL in case something happens to the Windows account that you have added.

 $\Box$   $\times$ 

\_

| 髋 SQL Server 2014 Setup            |  | - 🗆   | Х |
|------------------------------------|--|---|---|
| Database Engine Confi              | -  |   |   |
| Specify Database Engine authe      | ntication security mode, administrators and data directories.          |   |   |
| License Terms                      | Server Configuration Data Directories User Instances                   |   |   |
| Global Rules<br>Microsoft Update   | Specify the authentication mode and administrators for the Database    | Engine.   |   |
| Product Updates                    | Authentication Mode  |   | - |
| Install Setup Files                | ○ <u>W</u> indows authentication mode                                  |   |   |
| Install Rules<br>Feature Selection | <u>M</u> ixed Mode (SQL Server authentication and Windows authenticati | on)   |   |
| Feature Selection                  | Specify the password for the SQL Server system administrator (sa) acc  | ount.   |   |
| Instance Configuration             | Enter password:  |   | 1 |
| Server Configuration               |  |   | 1 |
| Database Engine Configuration      | Confirm password:  |   |   |
| Feature Configuration Rules        | Specify SQL Server administrators                                      |   | - |
| Installation Progress              | XPS-15\Tim (Tim)   | SQL Server administrators                           |   |
| Complete                           |  | have unrestricted access<br>to the Database Engine. |   |
|                                    |  |   |   |
|                                    |  |   |   |
|                                    | Add <u>C</u> urrent User <u>A</u> dd <u>R</u> emove                    |   |   |
|                                    |  |   |   |
|                                    |  |   | _ |
|                                    | < <u>B</u> ack <u>N</u> ext >  | Cancel Help   |   |
|                                    |  |   |   |

- 14. When you have added all the Windows users to the Administrators list, click Next.
- 15. Now the system will install SQL on the computer.

| 1 The setup 1014 Setup |
|------------------------|
|------------------------|

| 📸 SQL Server 2014 Setup   |   | _ |      | × |
|---|---|---|------|---|
| Installation Progress   |   |   |      |   |
| License Terms<br>Global Rules<br>Microsoft Update<br>Product Updates<br>Install Setup Files<br>Install Rules<br>Feature Selection<br>Feature Rules<br>Instance Configuration<br>Server Configuration<br>Database Engine Configuration<br>Feature Configuration Rules<br>Installation Progress<br>Complete | Generating ordered dependency feature list. |   |      |   |
|   | <u>N</u> ext > Cancel                       |   | Help |   |

16. Once this is complete, simply click on Finish and you can now install any Millennium Access Control software that you have to this system.