

MILLENNIUM ULTRA Installation Guide

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Technical Requirements

a) Hardware Requirements:

- 1 GHz or faster processor
- 1024 MB RAM
- 1 GB available hard disk space (x86)
- 2 GB available hard disk space (x64)

b) Supported Operating Systems:

Windows 7 Service Pack 1, Windows Server 2008 R2 SP1, Windows Server 2008 Service Pack 2, Windows Vista Service Pack 2, Windows 8, Windows 10, Windows Server 2012.

- Windows Vista SP2 (x86 and x64)
- Windows 7 SP1 (x86 and x64)
- Windows Server 2008 R2 SP1 (x64)
- Windows Server 2008 SP2 (x86 and x64)
- Windows 8
- Windows 8.1
- Windows Server 2012

c) .NET Framework 4.5 or higher.

For earlier MS Windows versions .NET 4.5 could be downloaded from

<http://go.microsoft.com/fwlink/?LinkId=225702>

d) **Microsoft® SQL Server® 2008 Express with Advanced Services** or higher. For example, **Microsoft® SQL Server® 2014 Express with Advanced Services** could be downloaded from <http://www.microsoft.com/en-us/download/details.aspx?id=42299>.

e) Microsoft SQL Server Management Studio Express 2005 or higher. It could be downloaded from <http://www.microsoft.com/en-us/download/details.aspx?id=8961>.

Package Contents

The installation package comes with the following 5 files and 1 folder:

Users > Admin > Downloads > 1.0.1.0 >				
Name	Date modified	Type	Size	
SqlExpress	06/09/2016 11:00	File folder		
AutoRun.inf	12/18/2014 17:33	Setup Information	1 KB	
Millennium.Ultra.msi	06/01/2016 14:34	Windows Installer Package	54,067 KB	
Setup.exe	06/01/2016 14:34	Application	364 KB	
Setup.exe.config	06/01/2016 11:22	CONFIG File	2 KB	
Setup.ico	12/18/2014 17:33	ICO File	161 KB	

SqlExpress folder contains links.txt file where the following links for downloading MS SQL Server Express and instructions are listed:

Download **Microsoft® SQL Server® 2014 Express with Advanced Services** from page <http://www.microsoft.com/en-us/download/details.aspx?id=42299>

Direct Url:

x86:

<http://download.microsoft.com/download/E/A/E/EAE6F7FC-767A-4038-A954-49B8B05D04EB/ExpressAndTools%2032BIT/SQLEXPRT x86 ENU.exe>

x64:

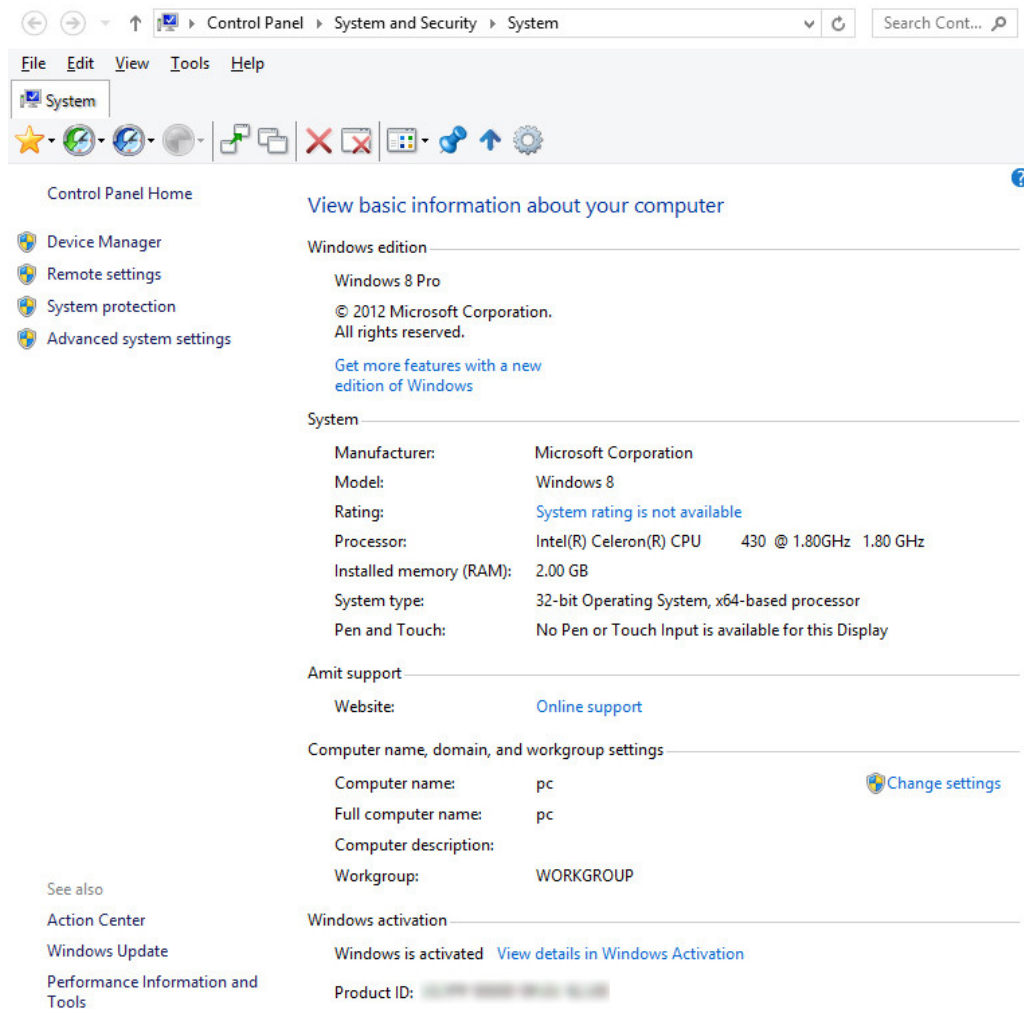
<http://download.microsoft.com/download/E/A/E/EAE6F7FC-767A-4038-A954-49B8B05D04EB/ExpressAndTools%2064BIT/SQLEXPRT x64 ENU.exe>

Unpack installation file by command SQLEXPRT_x86_ENU.exe /x
(SQLEXPRT_x64_ENU.exe /x for x64) and place all extracted files in this folder

Note: If any **Microsoft® SQL Server® with Advanced Services** is not installed on your system, we recommend you to download installation files of **Microsoft® SQL Server® 2014 Express with Advanced Services** and unpack them as described in links.txt before running the **Setup.exe**.

1. Checking your OS Version

To check which OS version is installed on your PC, right-click on **My Computer** icon and select **Properties**. The system information screen will be displayed:



If you have installed Microsoft Windows 8 or higher, then proceed directly to **Paragraph 3**. If you have installed Microsoft Windows 7 or earlier, then proceed to **Paragraph 7** and install:

- a) Microsoft .NET Framework 4.5
- b) Microsoft IIS 8.0 or higher.

After that you may run the **Millennium Ultra** Setup program which is discussed in **Paragraph 3**.

2. Millennium Ultra Setup algorithm

After its launching, the Setup.exe checks for the following conditions:

- a. Is **Millennium Ultra** already installed on this computer?
- b. Is **MS SQL Server Instance** with the name **Ultra** installed on this computer?
- c. Does the **\SqlExpress** installation folder contain MS SQL Server distributive?

If both two first parameters (a. and b.) are not met, i.e. **Millennium Ultra** is not installed and **Instance** with the name **Ultra** does not exist, **AND** the MS SQL Server installation package exists in **\SqlExpress** installation folder (c.), then the following button (“**Install SQL Server**”) appears:



Follow the instructions described at the very beginning of Paragraph 3 (“**Running the Millennium Ultra Setup program**”)

By default MS SQL Server is installed with following parameters:

User Name: **SA**

User Password: **Ultra.2016**

Instance name: **Ultra**

When you continue any further installation steps (after clicking on the “**Install Millennium Ultra**” button), the setup by default will try to install **Millennium Ultra** database to the **Ultra** instance.

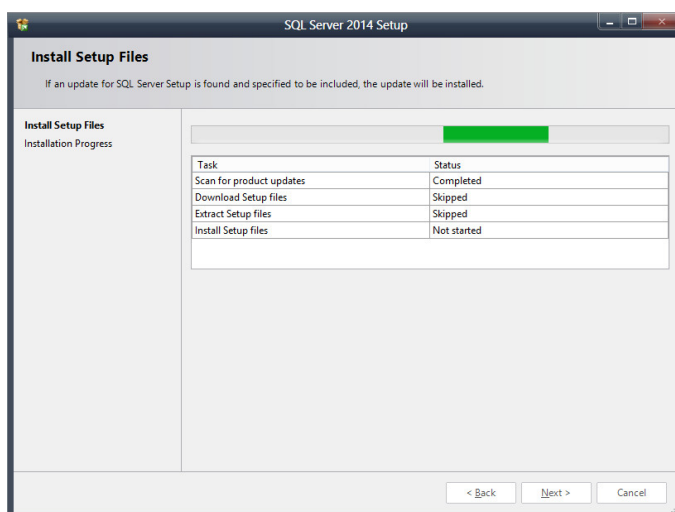
3. Running the Millennium Ultra Setup program

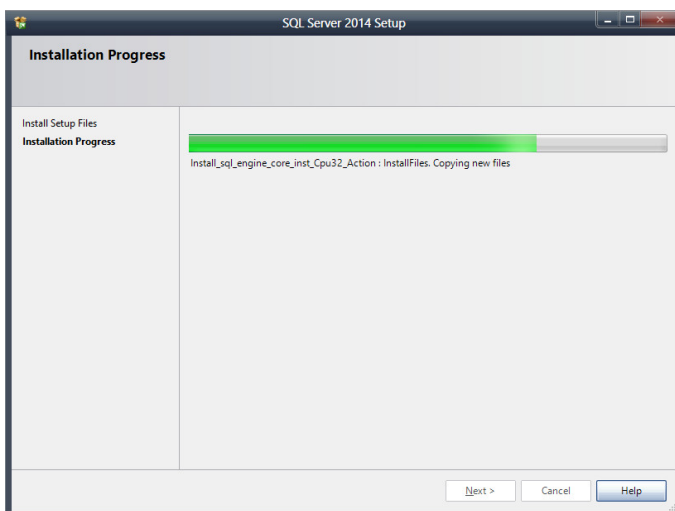
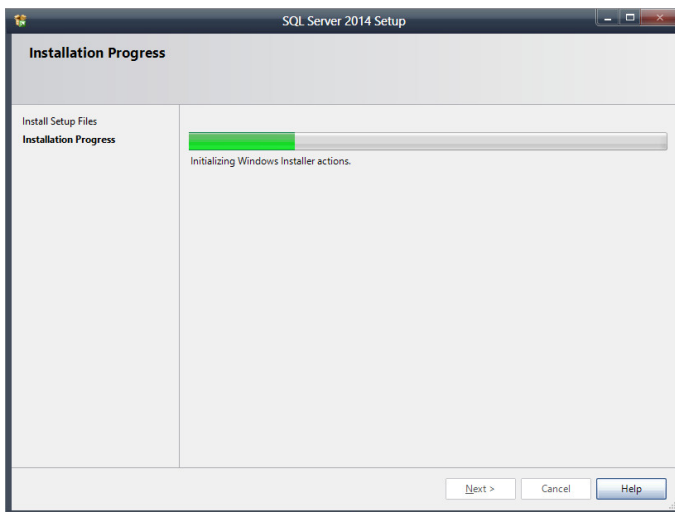
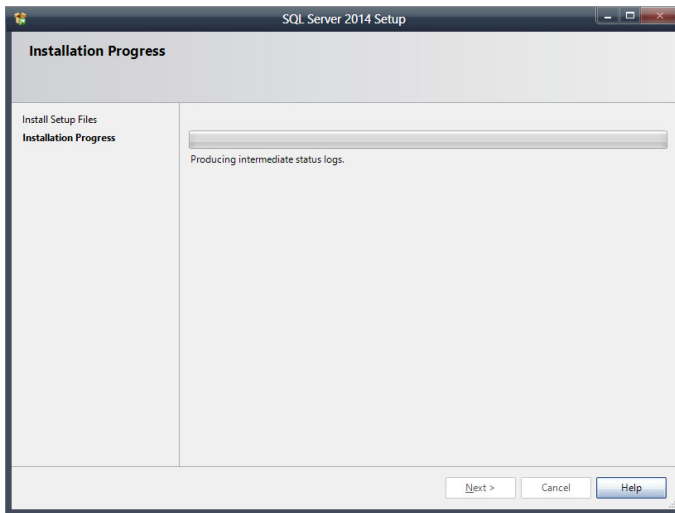
Run the Setup.exe, which is supplied within your **Millennium Ultra** installation package:



By clicking the “**Install SQL Server**” button, the Microsoft SQL Server 2014 will be installed. The previous MS SQL Server instances will not be affected, as well as all the existing obsolete databases will remain untouched.

The step-by-step installation screens for Microsoft SQL Server 2014 are shown below:



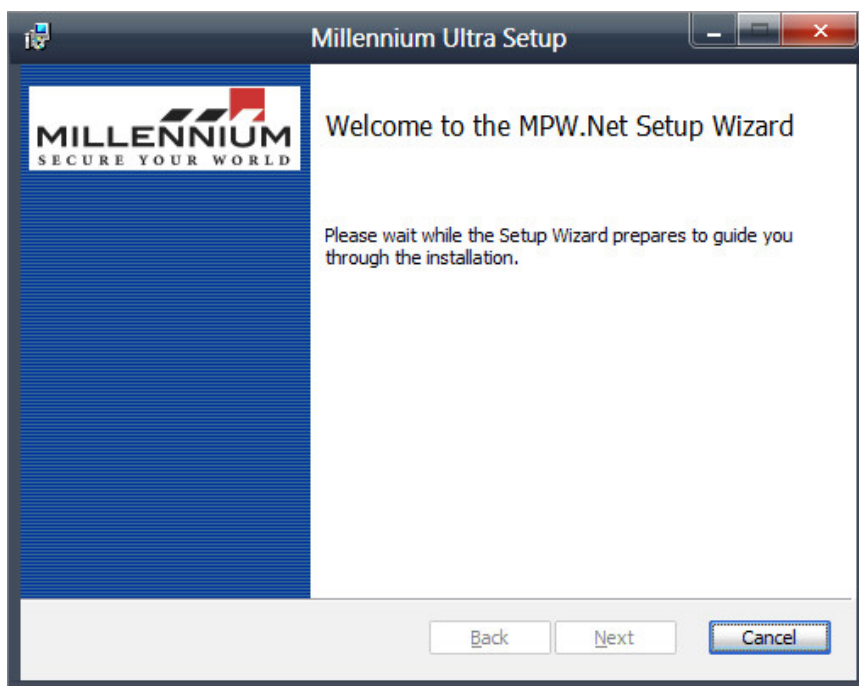


Now, the Microsoft SQL Server 2014 is installed.

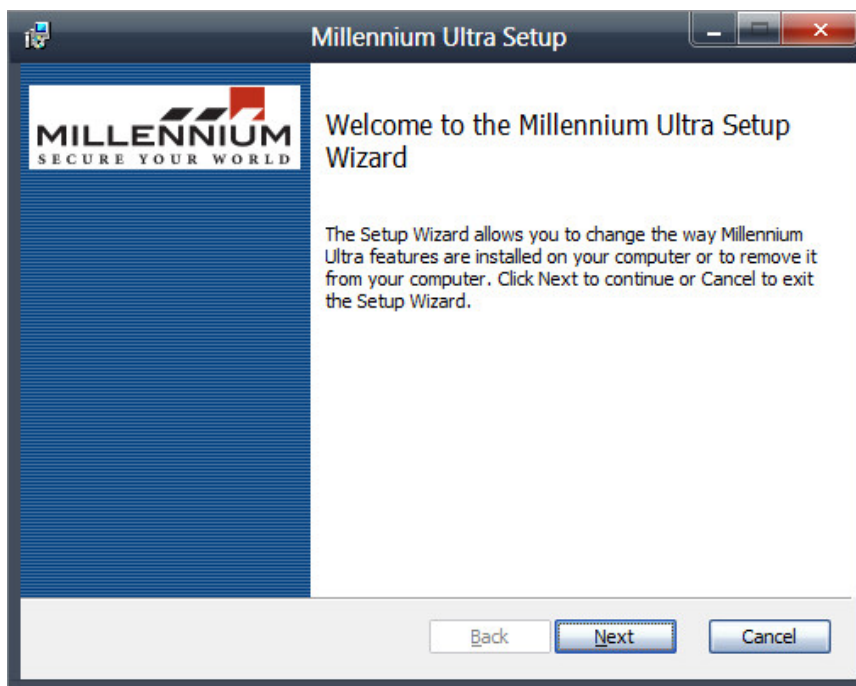
Click on the second button, “**Install Millennium Ultra**”.



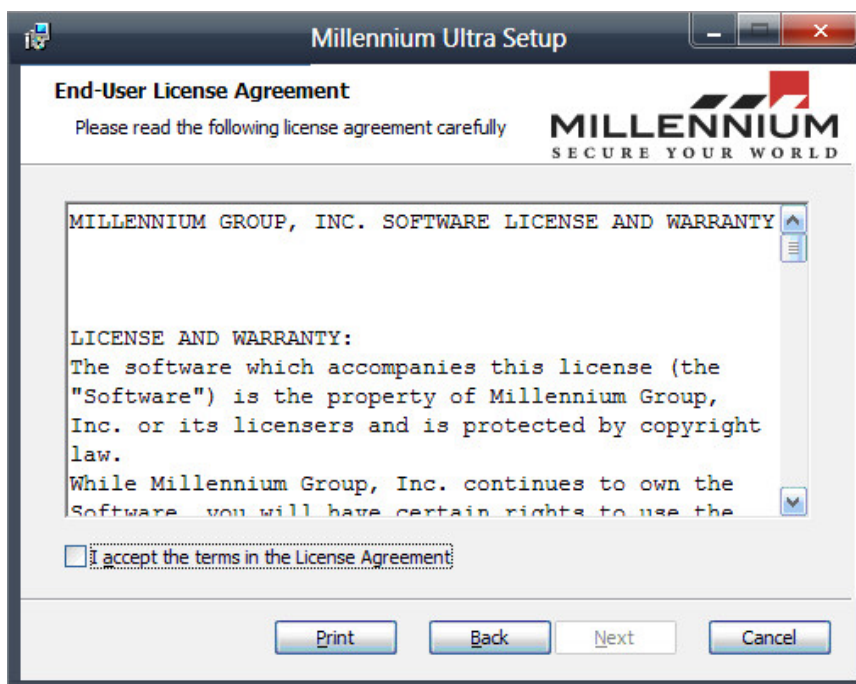
After clicking on the “**Install Millennium Ultra**” button, the following screen will appear:



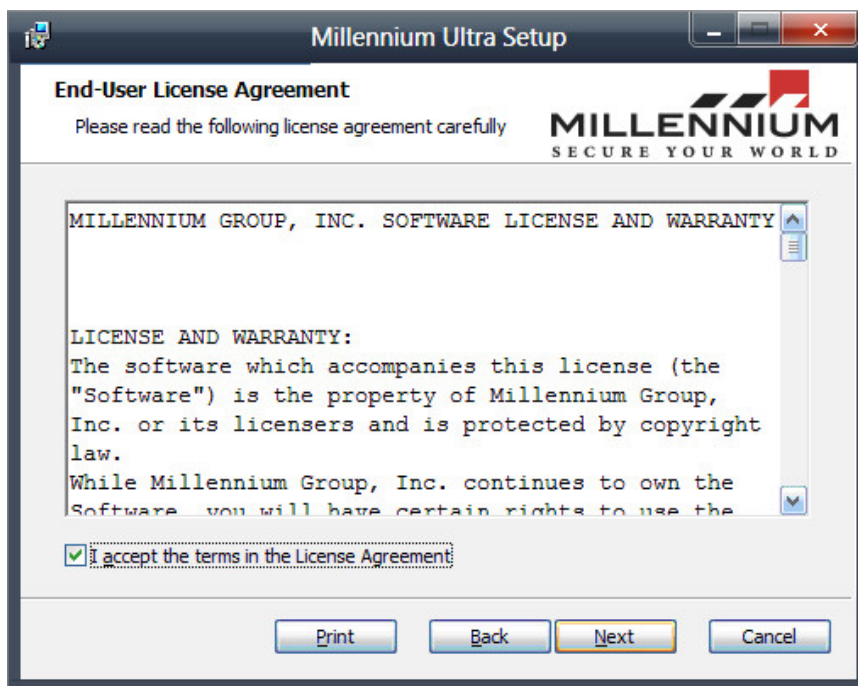
To start the installation process, click the **Next** button:



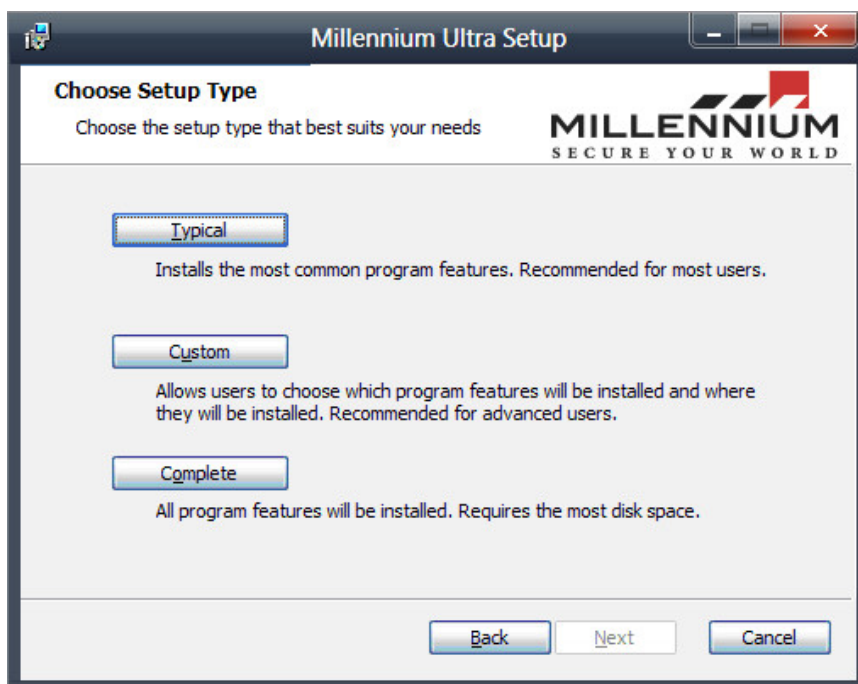
Read the License Agreement:



Check the “I accept...” checkbox and click the **Next** button:



The screen with **Millennium Ultra** setup options will appear:

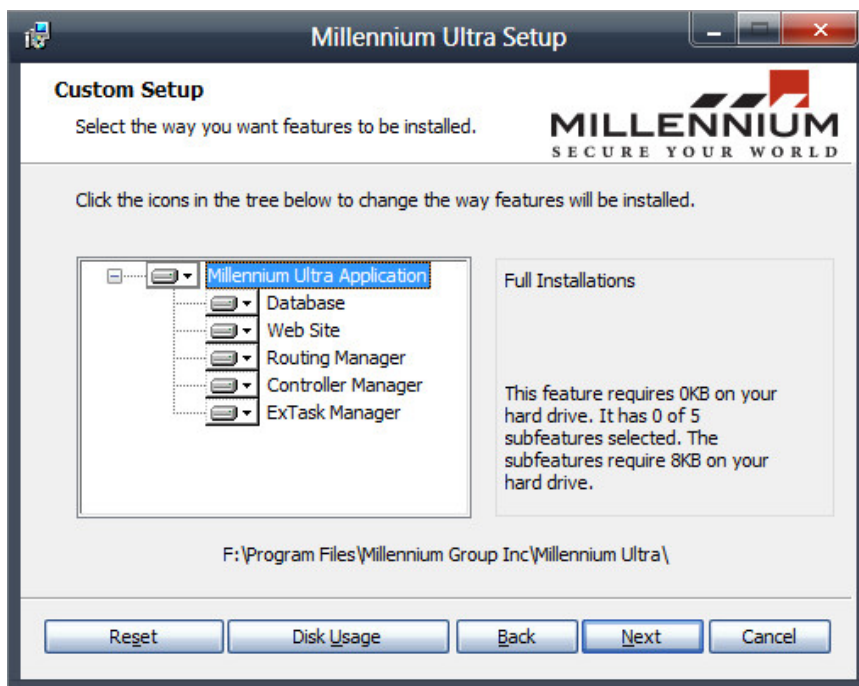


Typical setup is used in most common cases. By selecting this option, the most common program features will be installed. This option is recommended for most users.

Custom setup allows users to choose what program features will be installed. Also, any custom locations for the **Millennium Ultra** software files may be selected. This option is recommended for advanced users.

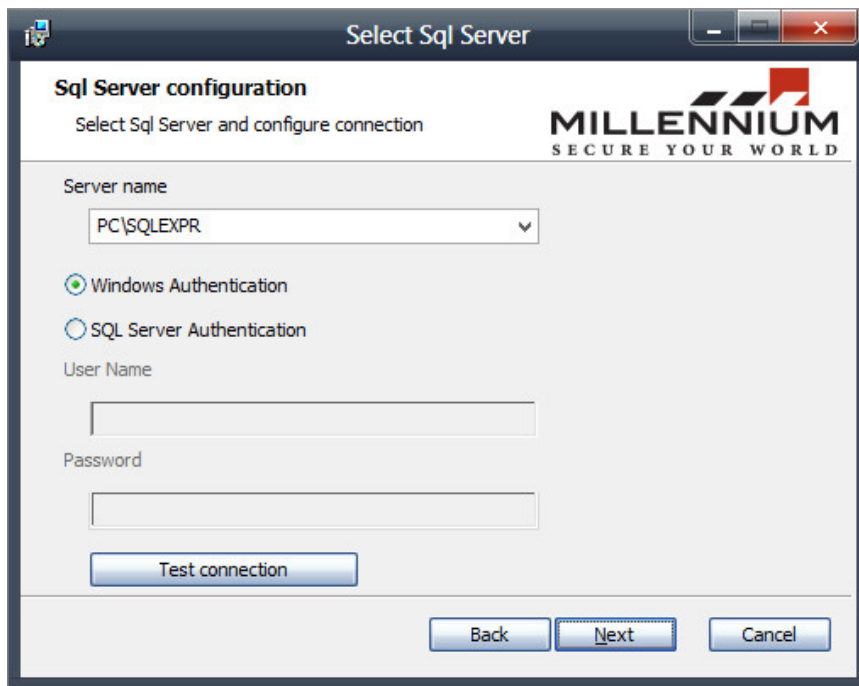
Complete setup is also used in common cases. By selecting this option, all program features will be installed. This option requires the most disk space.

Below there are available options which could be selected when **Custom setup** was chosen:



After choosing all necessary program components, click the **Next** button.

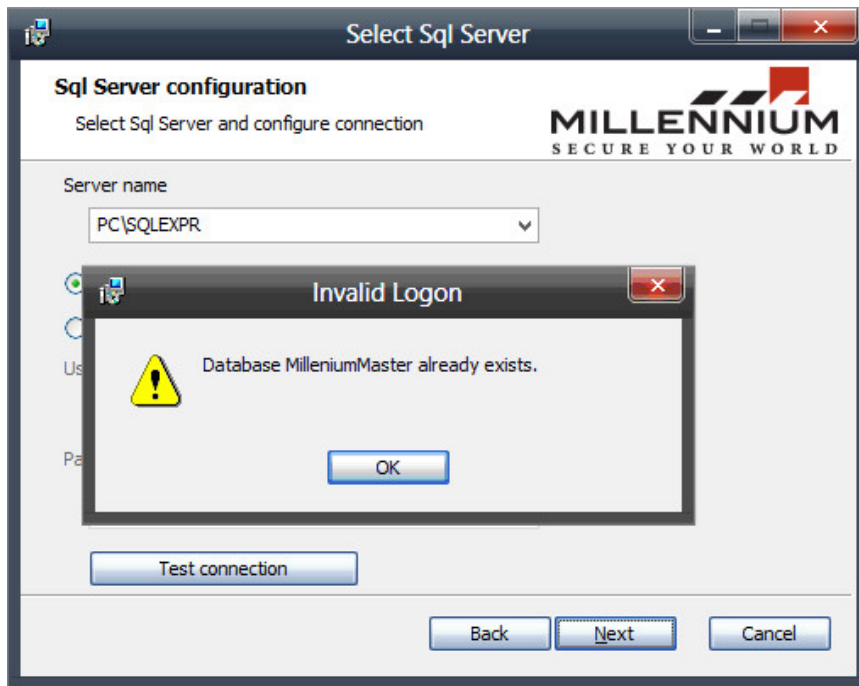
SQL Server configuration screen will be displayed:



Choose the Server name and select the required Authentication type. Most commonly used Authentication type is **Windows Authentication**.

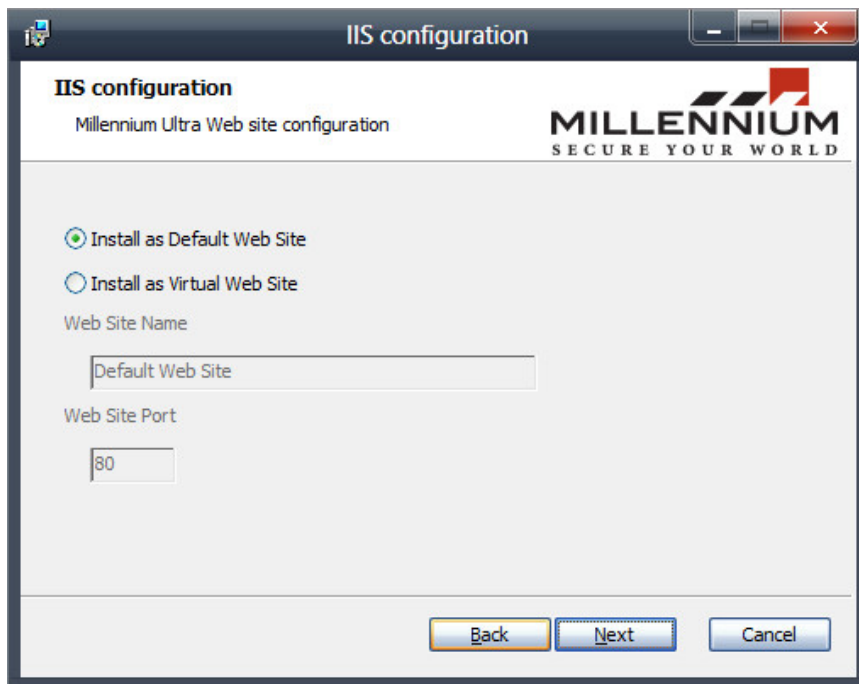
Press “**Test connection**” button to check that the connection to Server is correct. In case of any connection errors, the corresponding information popup with the connection error description will be displayed.

In case when the **Millennium Ultra** Database already exists (for example, it remained after previous installations and software use), the following popup will be displayed:

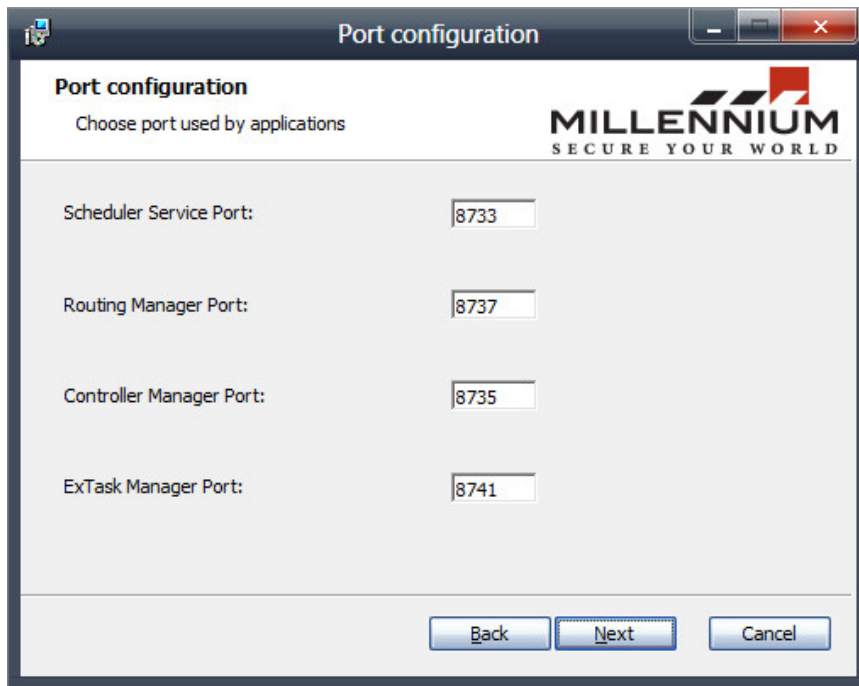


In this case, the previous **Millennium Ultra** SQL database could be deleted or renamed, as well as the Operator can return **"Back"** and choose the **Custom setup** where to unselect the Database Setup. This decision should be taken basing on circumstances.

When done, click the **"Next"** button. The IIS Configuration screen will be displayed:



When done, click the **"Next"** button. The Port Configuration screen will be displayed:



Choose the required port numbers for Schedule Service, Routing Manger and Controller Manager. By default they are:

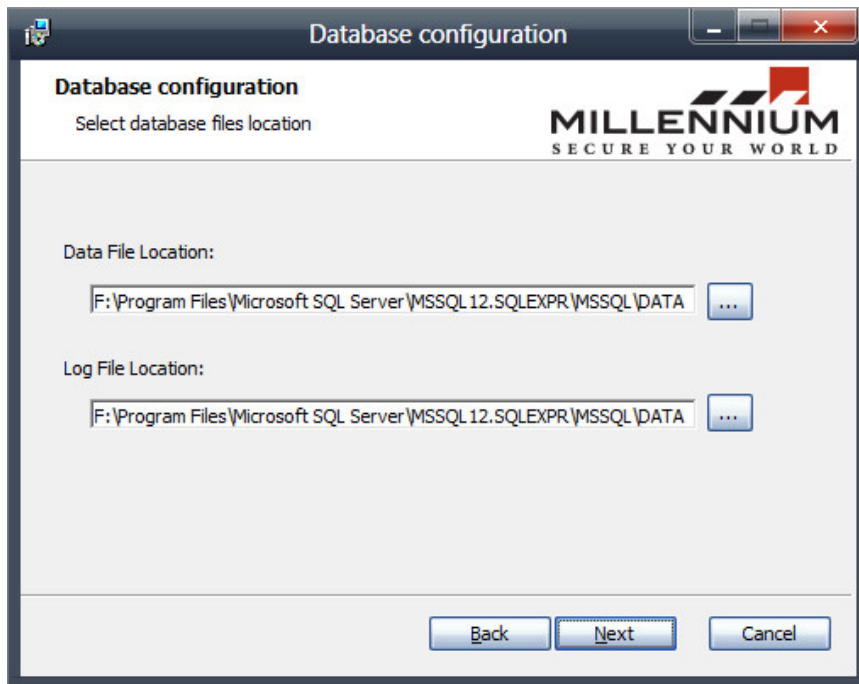
Scheduler Service Port – 8733

Routing Manger Service Port – 8737

Controller Manager Service Port – 8735

ExTask Manager Service Port – 8741

Port numbers should be changed in case when they are already used by other software. When done, click the “**Next**” button. The Database Configuration screen will be displayed:



Choose the required paths to the Database file and Log file.

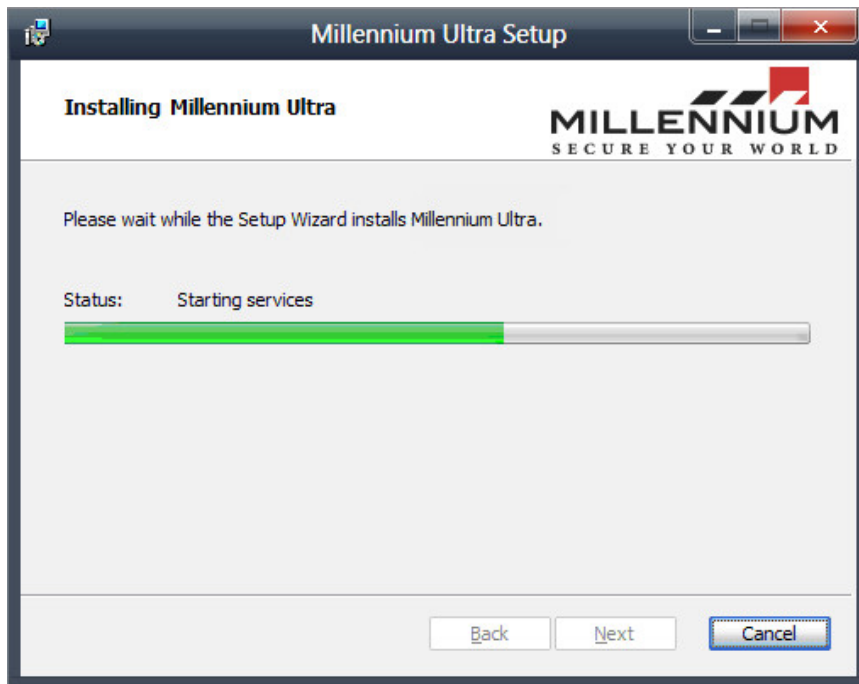
The physical location of **Millennium Ultra** Database file and **Millennium Ultra** Log file depend on version of the installed Microsoft SQL Server.

The physical location of **Millennium Ultra** Database file and **Millennium Ultra** Log file could be changed if necessary.

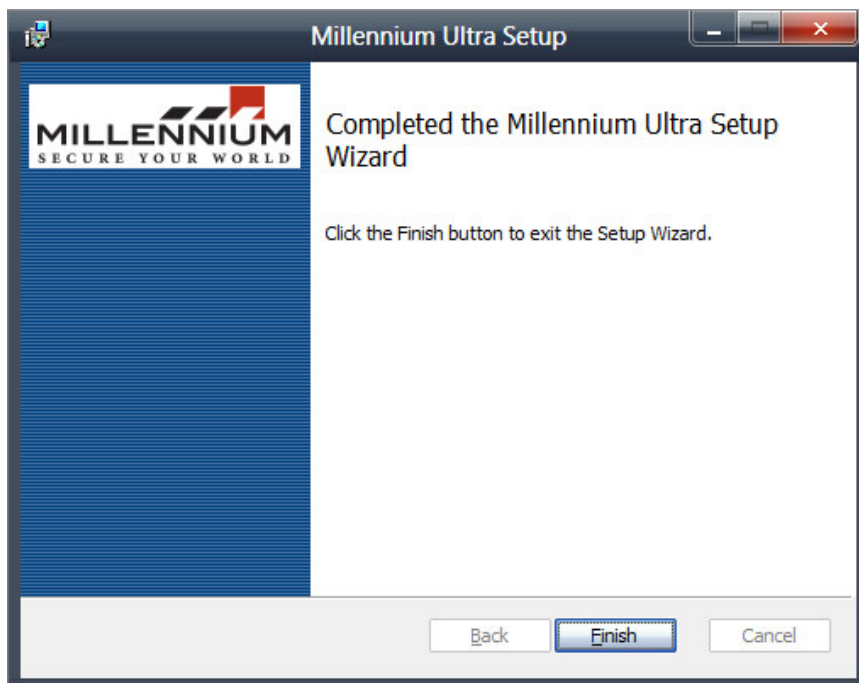
When done, click the “**Next**” button. “Ready to Install” screen will be displayed:



Click “**Install**” Button. The installation process will start since this point:



When the **Millennium Ultra** Setup will complete, the following screen will appear:



The Setup is completed now. Click the “**Finish**” button.

4. Millennium Ultra Desktop Client Installation

To obtain the Desktop Client's installation, you should type the following string in any of your browsers:

[http://\[ultra server name\]:\[port number\]](http://[ultra server name]:[port number])

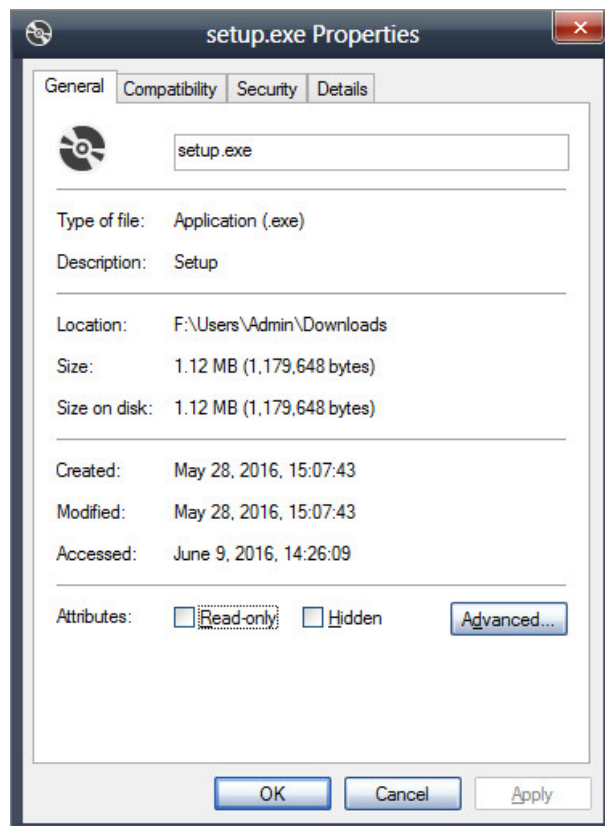
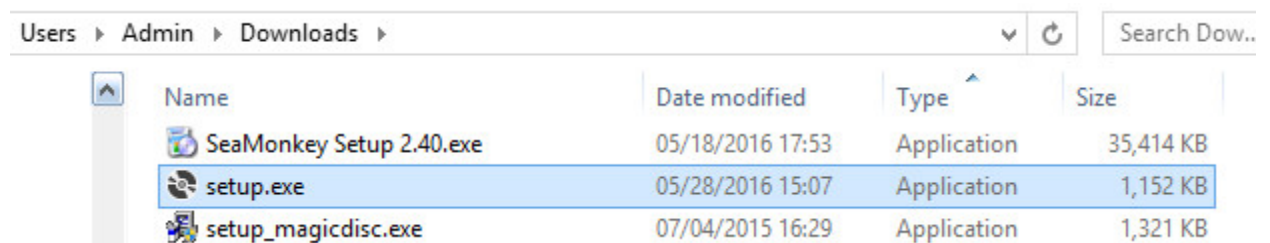
Ultra server name is the name of your Ultra Server.

Port number is configured during IIS installation (by default - 80).

For example, use this simple string by default: <http://localhost>

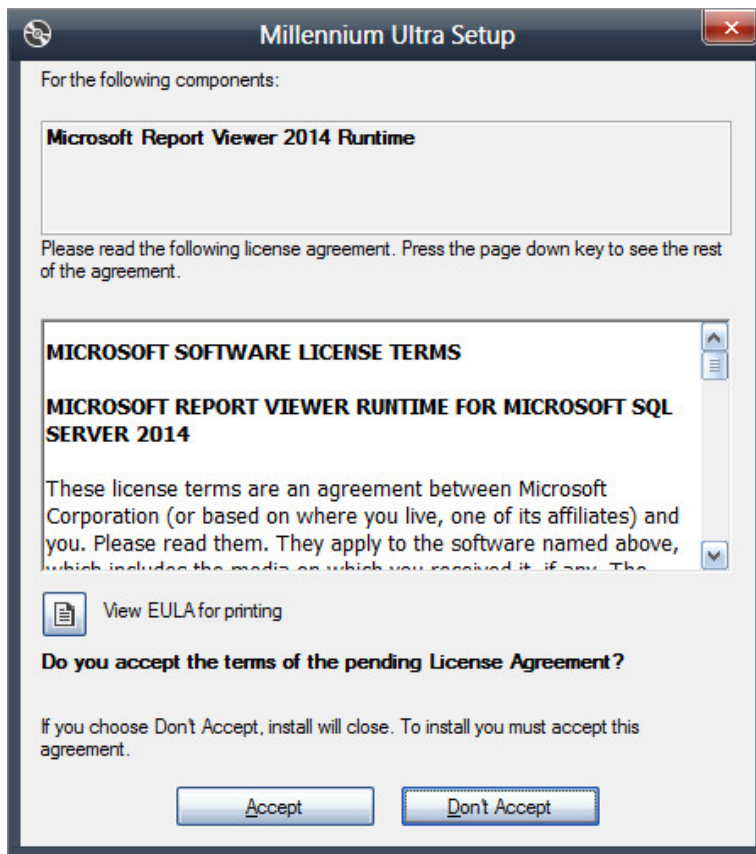
The Ultra server will create a **Setup.exe** file (1,179,648 bytes).

It will be located in your browser's folder for Downloads:

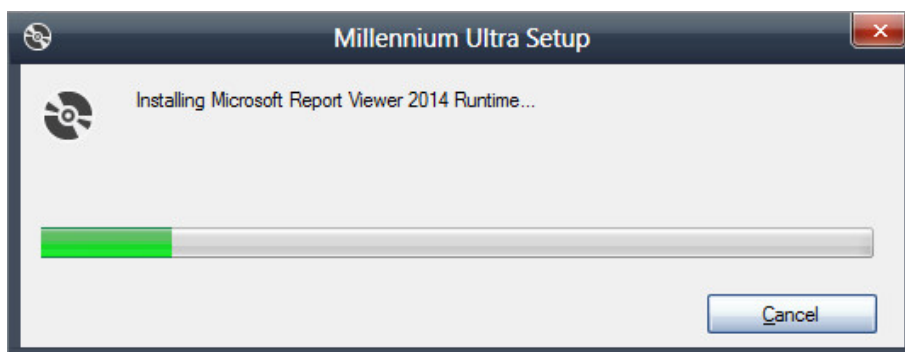


This file should be launched in order to obtain your WPF-based Desktop Client application (**Millennium Ultra.exe**). So, run the obtained **Setup.exe** file at first.

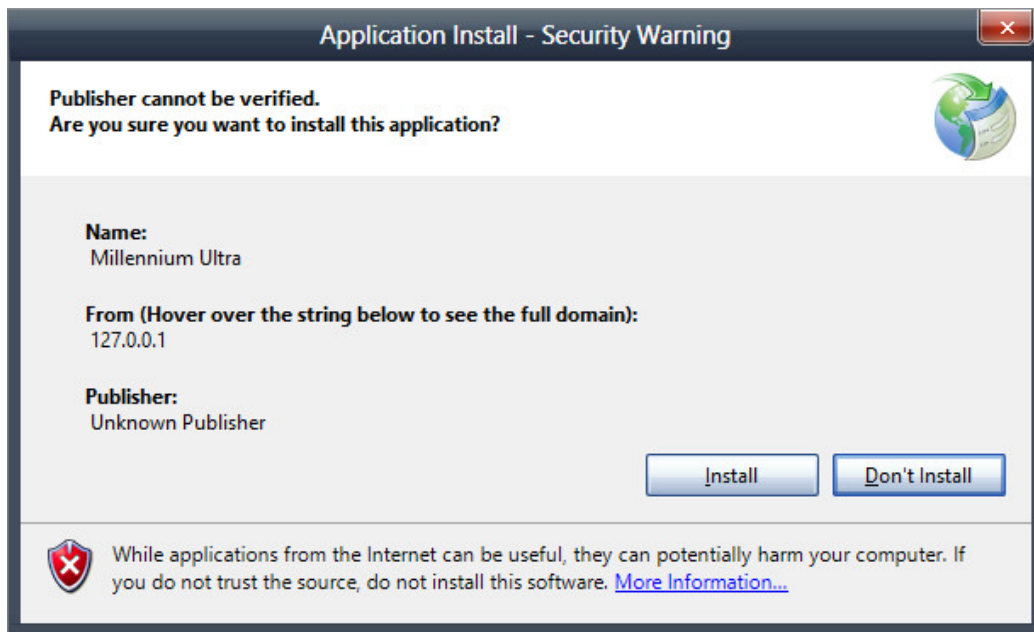
The installation of a Microsoft Report Viewer 2014 Runtime will be initiated:



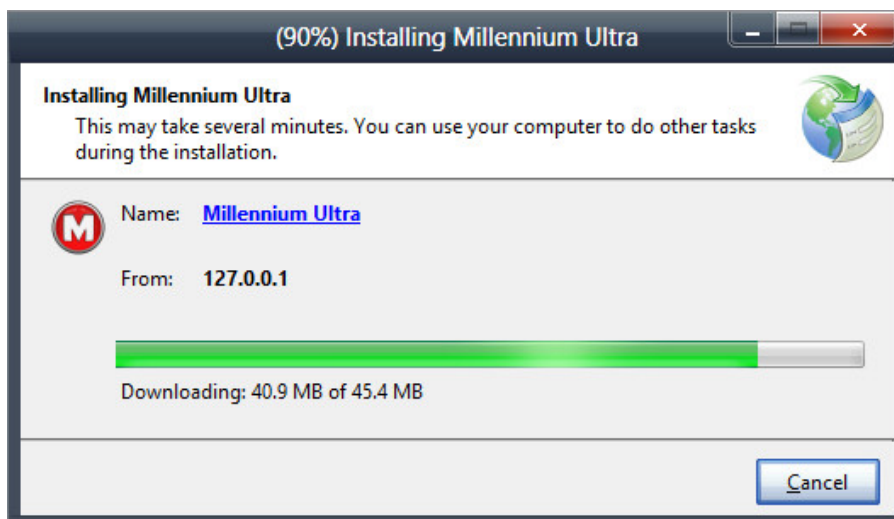
This component is required for **Millennium Ultra**.
Please read the agreement and press the Accept button.
The Setup will continue.



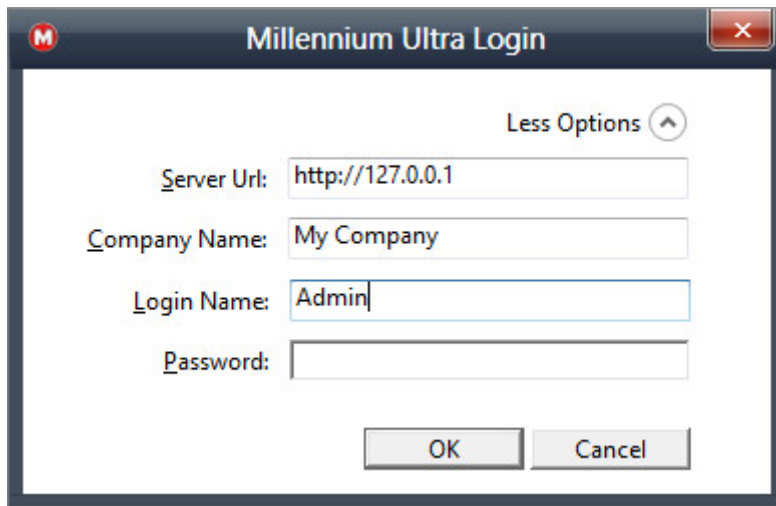
Next, the following security warning may appear:



Click on Install button. The installation process will continue:

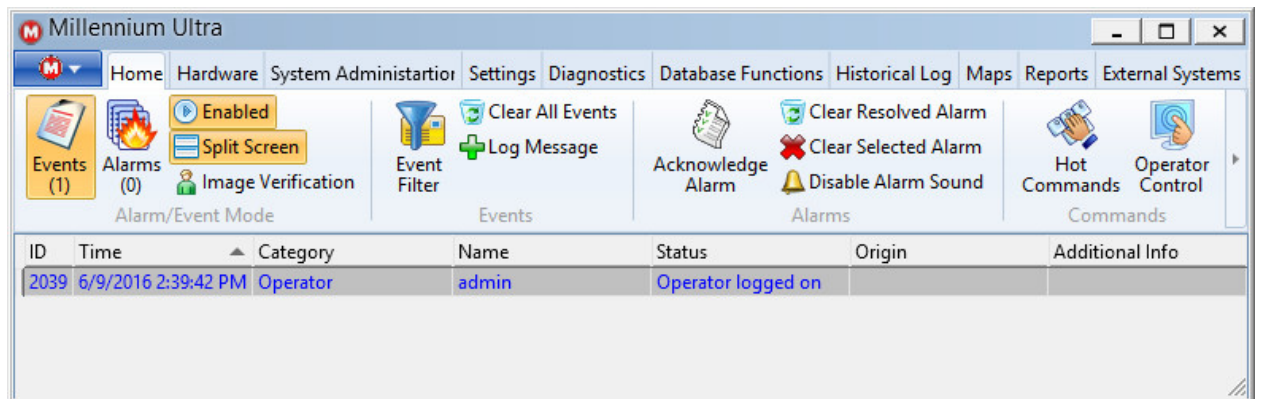


At the very end of installation the login window will appear:



The image shows a 'Millennium Ultra Login' dialog box. It has a title bar with a red 'M' icon and a close button. Inside, there's a 'Less Options' button with an upward arrow. Below it are four input fields: 'Server Url' with 'http://127.0.0.1', 'Company Name' with 'My Company', 'Login Name' with 'Admin', and 'Password' which is empty. At the bottom are 'OK' and 'Cancel' buttons.

Enter the default Login data as shown above and click OK button to run the WPF-based Desktop Client application (**Millennium Ultra.exe**):



The image shows the main window of the 'Millennium Ultra' application. It has a menu bar with options: Home, Hardware, System Administration, Settings, Diagnostics, Database Functions, Historical Log, Maps, Reports, and External Systems. Below the menu is a toolbar with icons for Events (1), Alarms (0), Image Verification, Event Filter, Clear All Events, Log Message, Acknowledge Alarm, Clear Resolved Alarm, Clear Selected Alarm, Disable Alarm Sound, Hot Commands, and Operator Control. Below the toolbar is a table with the following data:

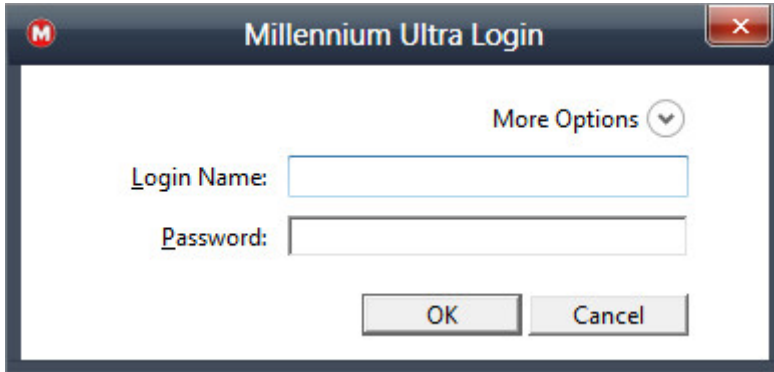
ID	Time	Category	Name	Status	Origin	Additional Info
2039	6/9/2016 2:39:42 PM	Operator	admin	Operator logged on		

Pin this program to your taskbar if necessary.

5. Running the Millennium Ultra Application

Run the installed application (**Millennium Ultra.exe**).

The **Login** window will be opened:

A screenshot of the 'Millennium Ultra Login' dialog box. It has a title bar with a red 'M' icon and a close button. The main area contains a 'More Options' dropdown menu at the top right. Below it are two text input fields: 'Login Name:' and 'Password:'. At the bottom are 'OK' and 'Cancel' buttons.

Click on "More Options"

Enter the **Server Url** - <http://127.0.0.1/>, <http://localhost/>, <http://MillenniumServer/>, <http://myserver.mydomain.com> etc.

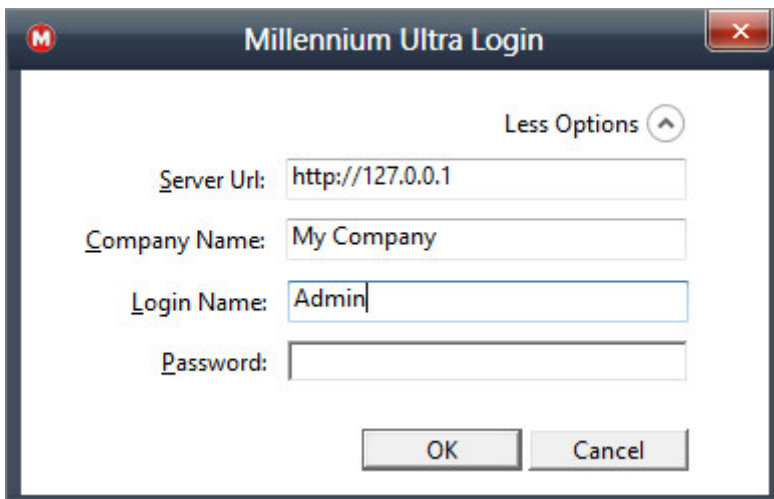
Note: the **Server Url** name depends on the Application Name and Path which were assigned during IIS configuration. By default, try using <http://localhost>.

Enter the **Login Name** – admin.

Company Name field should be left without changes.

Password field should be empty.

The default Login window settings look like the following:

A screenshot of the 'Millennium Ultra Login' dialog box with default settings. The title bar is the same. The 'Less Options' dropdown menu is at the top right. The 'Server Url' field contains 'http://127.0.0.1'. The 'Company Name' field contains 'My Company'. The 'Login Name' field contains 'Admin'. The 'Password' field is empty. 'OK' and 'Cancel' buttons are at the bottom.

6. .NET Framework 4.5 Installation / Configuration

Note 1. Windows 8 does not require .NET Framework 4.5 installation:

Details

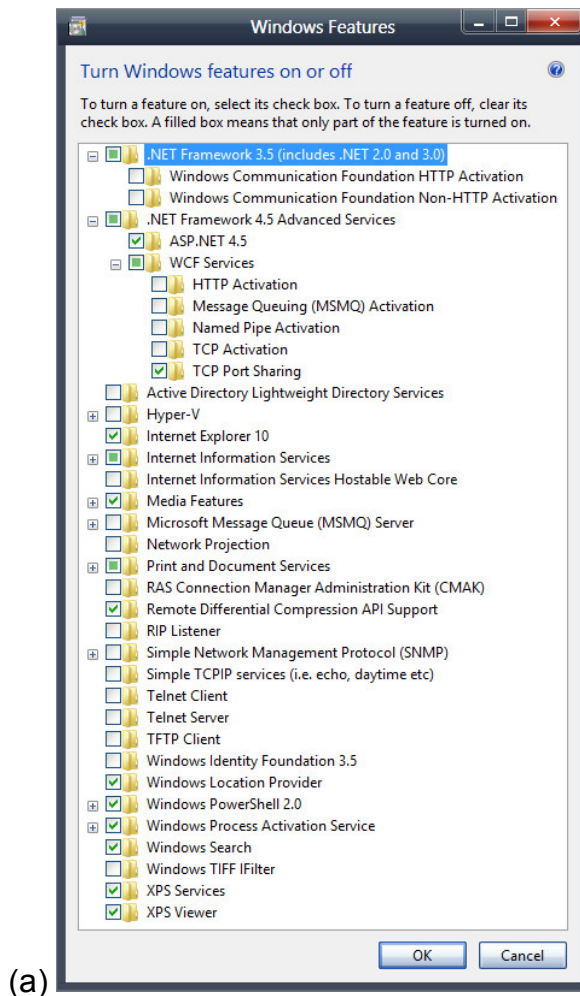
Microsoft .NET Framework 4.5 is already a part of this operating system. You do not need to install the .NET Framework 4.5 redistributable.

In order to install **Millennium Ultra** on Windows 8, **switching on** some additional features may be required.

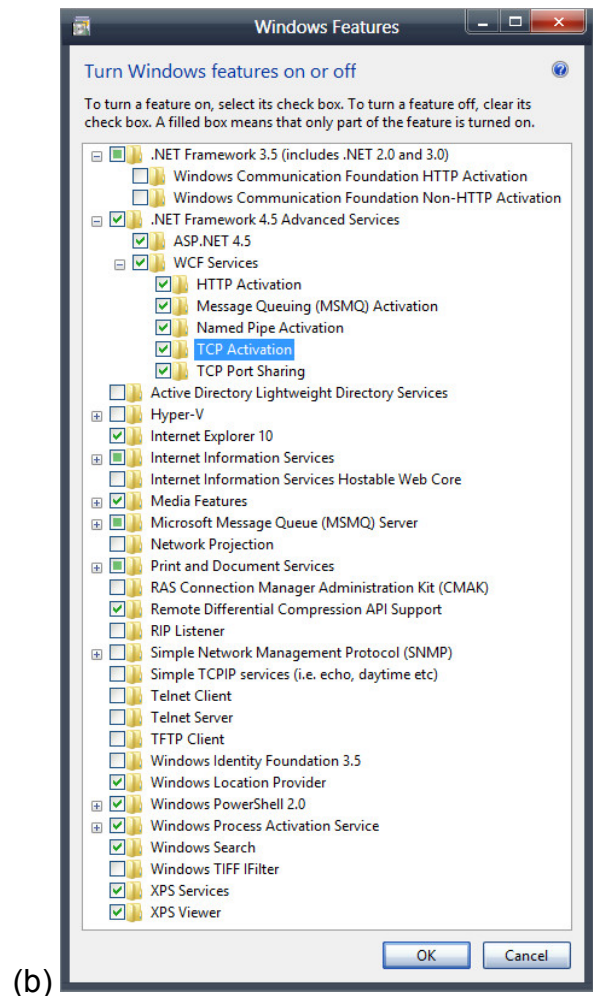
Open **Control Panel** => **Turn Windows features on or off**.

Your screen should look like shown on screenshot (a).

Check all checkboxes inside **.Net Framework 4.5 Advanced Services** as shown on screenshot (b).



(a)



(b)

Note 2. In order to install **Millennium Ultra** on Windows 7 or earlier, please download .NET Framework 4.5 setup file from <http://go.microsoft.com/fwlink/?LinkId=225702> and install it.