

Simoa® HD-X Analyzer Offline Mode Software Installation Instructions

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1 Overview

This guide provides instructions for installing the Simoa HD-X Analyzer software in offline mode. You can use offline mode to run the software on a system that is not connected to an HD-X Analyzer. The instrument requires a special operating system (OS) configuration, which is described in this document.

For information on using the HD-X Analyzer, see the *Simoa HD-X Analyzer User Guide*.



Note! In offline mode, you will see a reduced number of tabs. For example, the Load Reagents tab is not visible in offline mode.

2 Prerequisites

Hardware

- 4 GB RAM, minimum; 6 GB RAM recommended
- i3 Processor, minimum

Software

- Windows 7 Professional **64-bit** operating system
- Windows Management Framework 4.0
- Microsoft® .NET Framework 4.6
- Microsoft SQL Server® 2012 Express version 11.0.2100.60 or higher

Configuration

- Enable Powershell Script Execution

Installing Windows Management Framework 4.0



Note! This package is a prerequisite for the software installer and is not part of that package.

1. The Windows Management Framework 4.0 installation package (*Windows6.1-KB2819745-x64-MultiPkg.msu*) can be downloaded from Microsoft. The download page is located at:
 - <https://www.microsoft.com/en-us/download/details.aspx?id=40855>
 - On this page, choose an installation language and click **Download**.

Windows Management Framework 4.0

Select Language: English ▼ Download

Windows Management Framework 4.0 includes updates to Windows PowerShell, Windows PowerShell ISE, Windows PowerShell Web Services (Management OData IIS Extension), Windows Remote Management (WinRM), Windows Management Instrumentation (WMI), the Server Manager WMI provider, and a new feature for 4.0, Windows PowerShell Desired State Configuration (DSC).

2. On the next screen check the box next to *Windows6.1-KB2819745-x64-MultiPkg.msu* and then click the **Next** button to start the download.

<input type="checkbox"/>	Windows PowerShell Desired State Configuration Quick Reference for Windows Management Framework 4.0.pptx	73 KB
<input checked="" type="checkbox"/>	Windows6.1-KB2819745-x64-MultiPkg.msu	18.4 MB
<input type="checkbox"/>	Windows6.1-KB2819745-x86-MultiPkg.msu	14.1 MB
<input type="checkbox"/>	Windows8-RT-KB2799888-x64.msu	17.5 MB

3. After the download completes, double-click the file to install and restart the PC when prompted.

Installing the .NET Framework 4.6



Note! This package is a prerequisite for the software installer and is not part of that package.

Install the Microsoft .NET Framework 4.6. This must be done before you install SQL Server 2012.

1. The .NET Framework 4.6 installer (*NDP46-KB3045560-Web.exe*) can be downloaded from Microsoft. The download page is located at: <https://www.microsoft.com/en-us/download/details.aspx?id=48130>
-



Note! If the download link is disabled, search for the installation file using a web browser and start the download. Use version .NET Framework 4.6.

On this page, choose an installation language and click **Download**.

2. After the download completes, double-click *NDP46-KB3045560-Web.exe*.
3. Read and accept the license agreement.
4. Click **Install**.
5. When the installation is complete, click **Finish** and restart the PC.

Installing Microsoft SQL Server 2012 Express

Install Microsoft® SQL Server® 2012 Express version 11.0.2100.60 or higher.

1. Download the installer for SQL Server 2012 Express from:

<http://www.microsoft.com/en-us/download/details.aspx?id=29062>



Note! If the download link is disabled, search for the installation package using a web browser and start the download.

2. Choose the English language and click **Download**.

Microsoft® SQL Server® 2012 Express

Important! Selecting a language below will dynamically change the complete page content to that language.

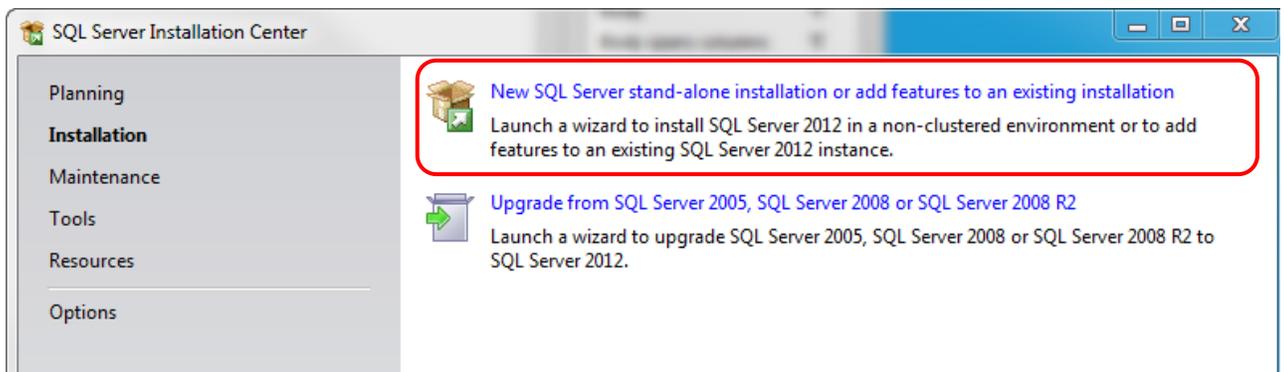
Select Language:

Microsoft® SQL Server® 2012 Express is a powerful and reliable free data management system that delivers a rich and reliable data store for lightweight Web Sites and desktop applications.

- 3. Check the box next to *SQLEXPADV_x64_ENU.exe* and click **Next** to begin.

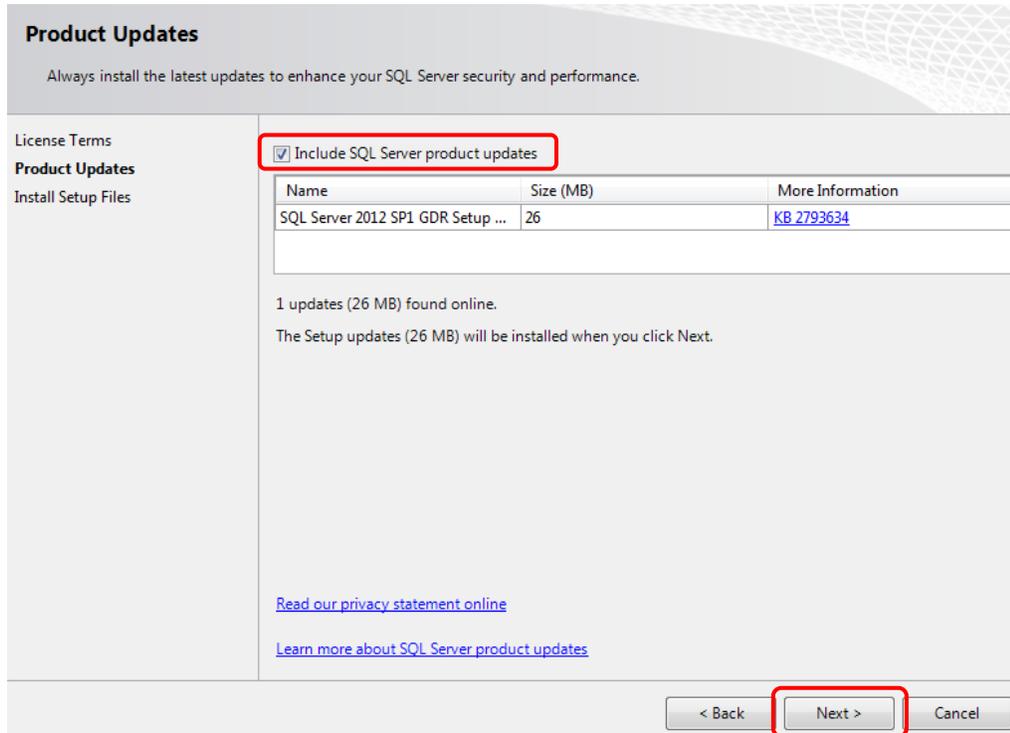
<input type="checkbox"/>	ENU\x64\SQLEXP_x64_ENU.exe	132.3 MB
<input checked="" type="checkbox"/>	ENU\x64\SQLEXPADV_x64_ENU.exe	1.3 GB
<input type="checkbox"/>	ENU\x64\SQLEXPWRT_x64_ENU.exe	669.9 MB

- 4. When the download completes, double-click *SQLEXPADV_x64_ENU.exe* to begin the install. It may take several minutes to launch.
- 5. Click **Run**.
On the SQL Server Installation Center window, select **New SQL Server stand-alone installation or add features to an existing installation**.

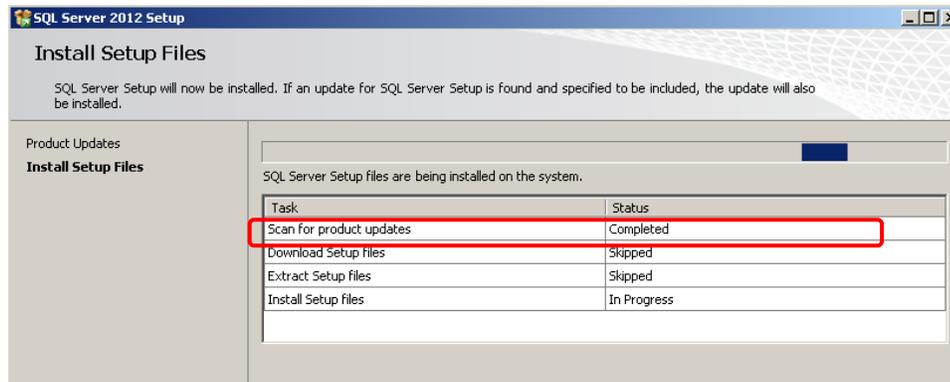


- 6. Read the License Terms, check **I accept the license terms** and click **Next**.

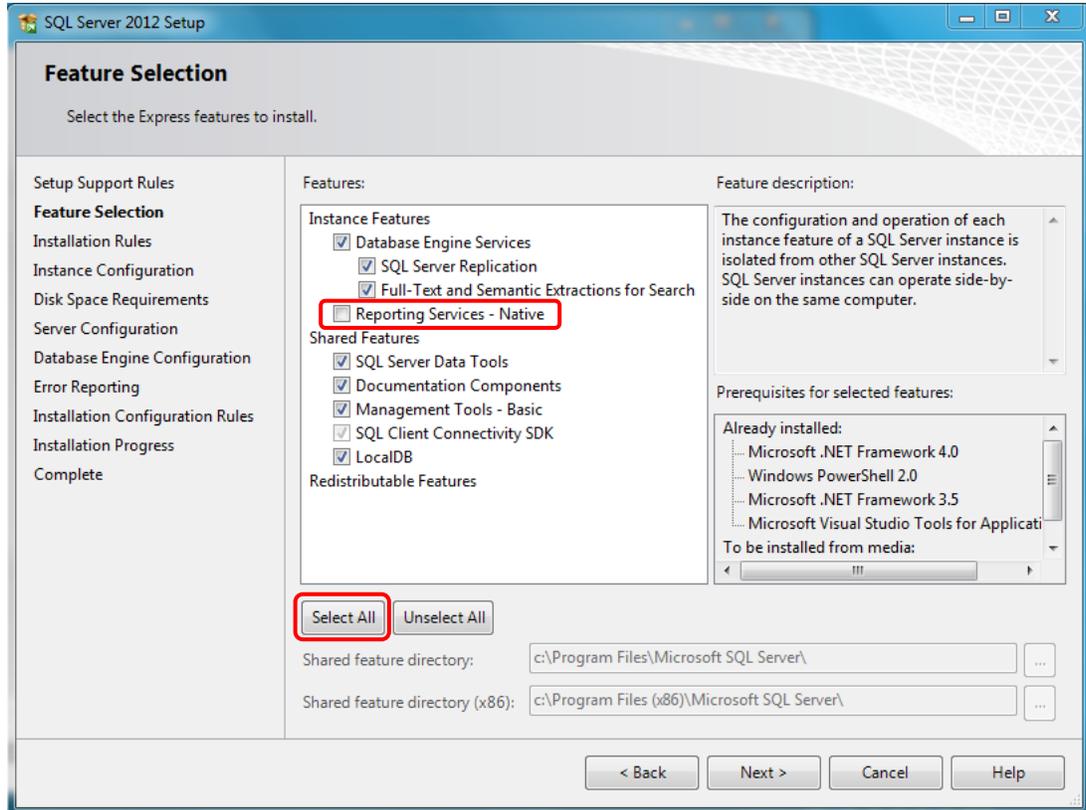
- On the Product Updates screen, the installer displays available product updates. Uncheck **Included SQL Server product updates** and click **Next**.



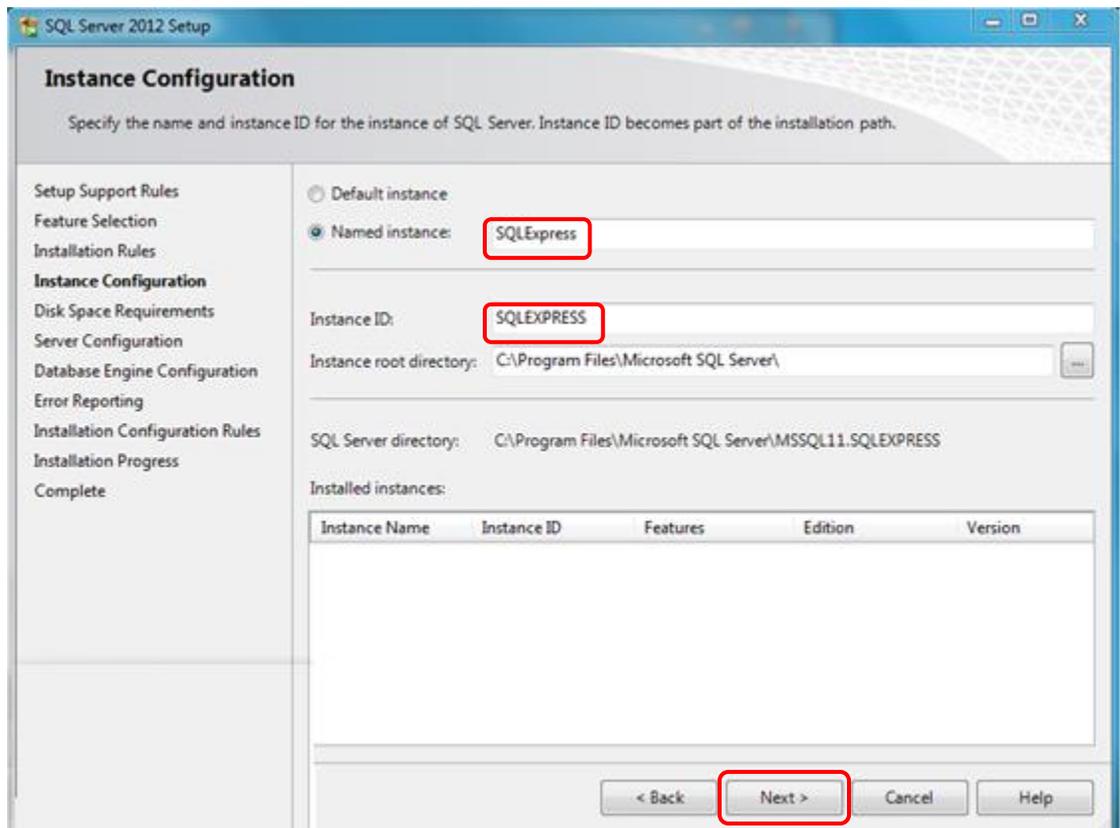
The status for each task appears. The screens may be different than the following screenshot. For example, if product updates were not skipped in the previous screen, the first task, **Scan for product updates**, will have a status of **Completed**.



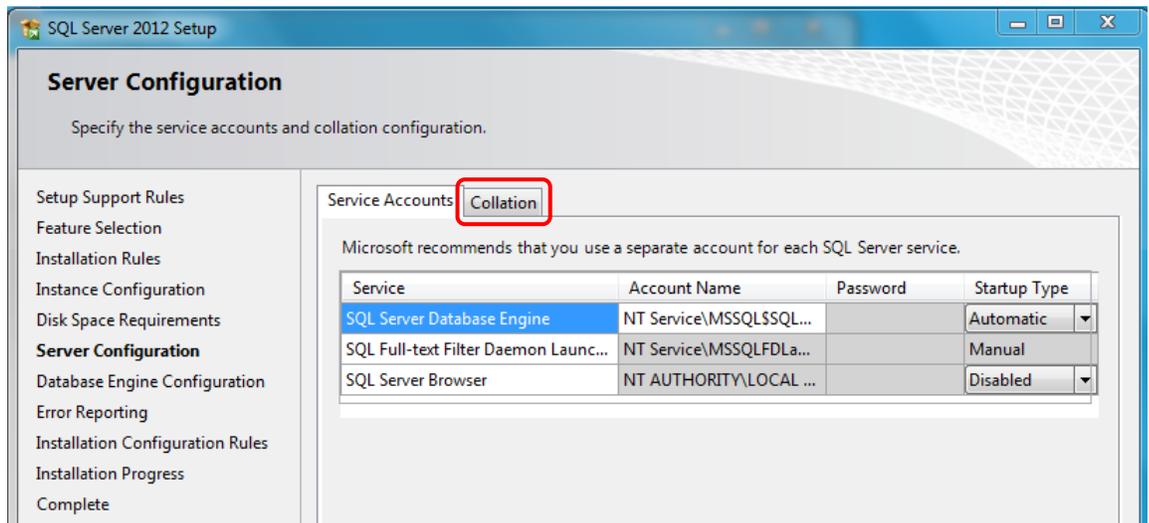
- 8. On the Feature Selection screen, click **Select All**, uncheck the **Reporting Services – Native** option, and click **Next**. There may be some variation between this screenshot and your installer.



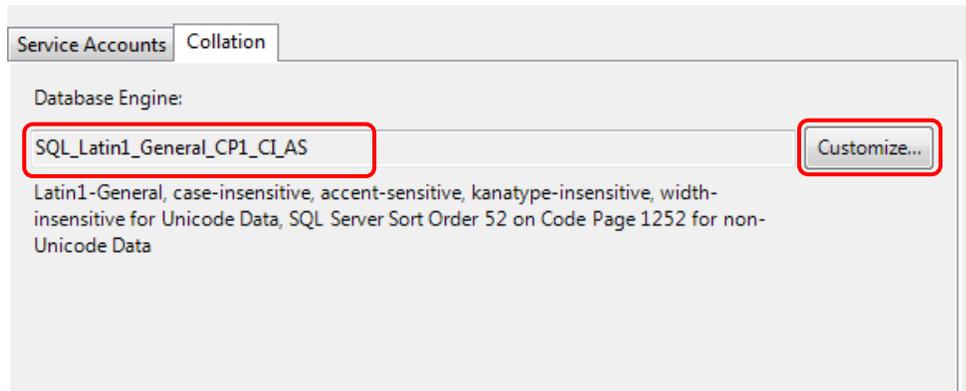
- 9. On the Instance Configuration screen, check that the named instance is **SQLExpress** and the Instance ID is **SQLEXPRESS**. Change them both if they do not match these default values and click **Next**.



- 10. On the Server Configuration screen, do not make any changes on the Service Accounts tab. Click the **Collation** tab.

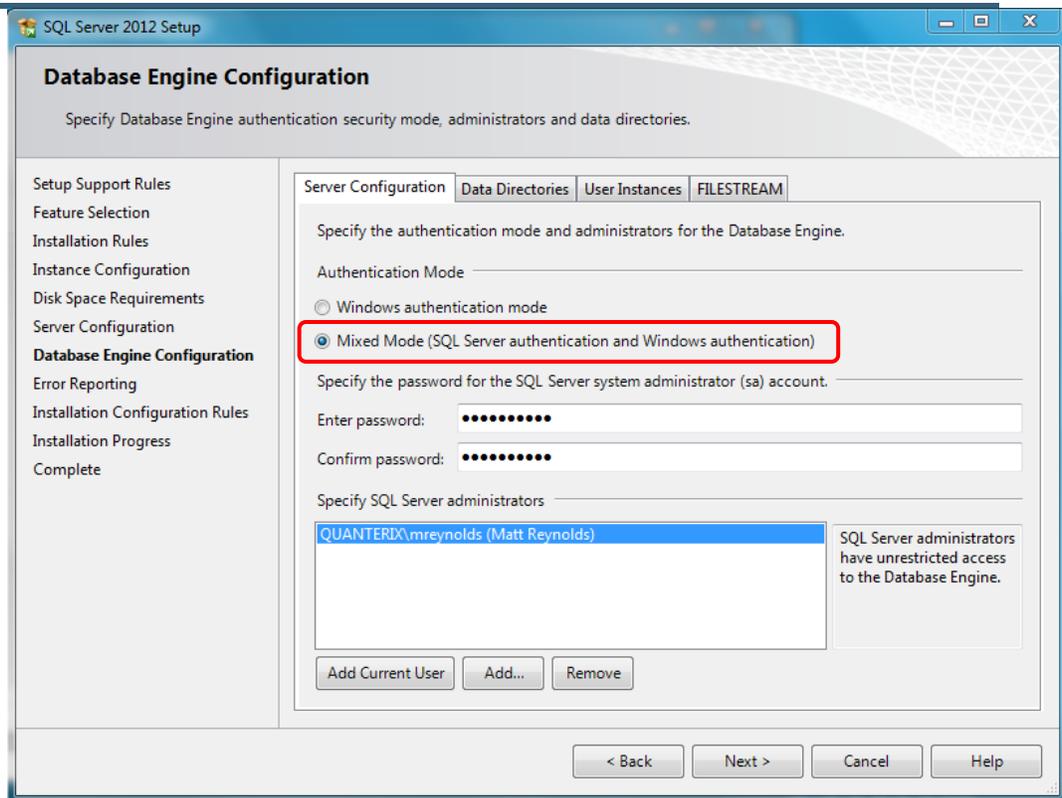


- On the Collation tab, check that the Database Engine is set to *SQL_Latin1_General_CP1_CI_AS*. If it is not, click **Customize**, and select it as a collation value.

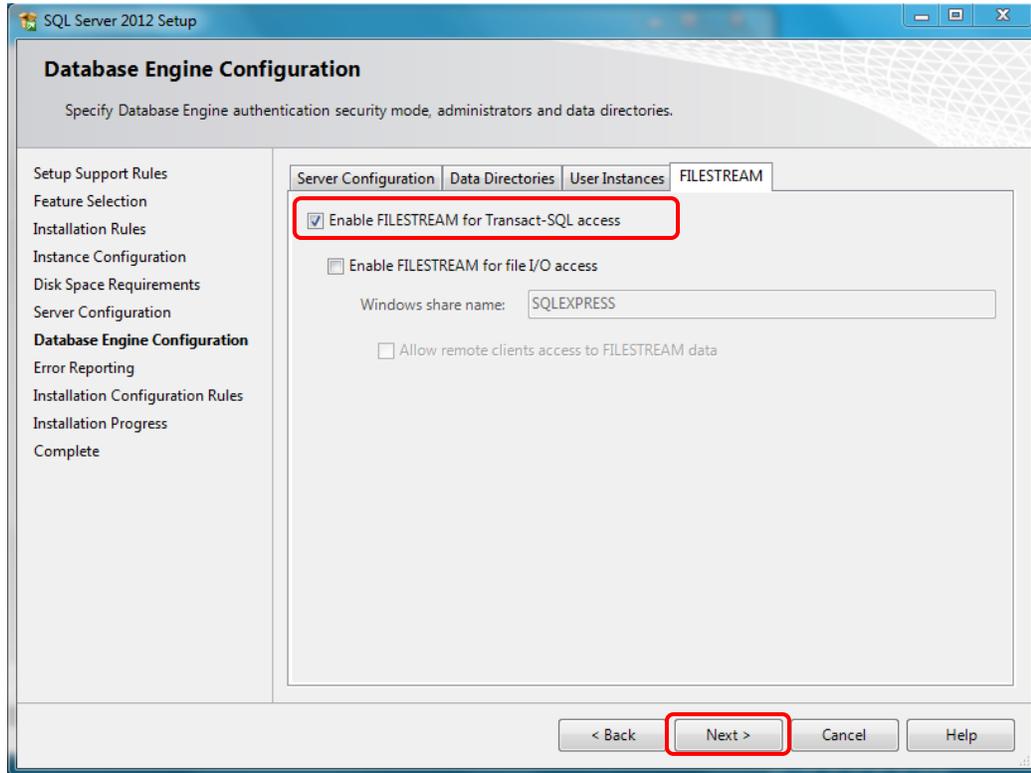


- Click **Next**.
- On the Database Engine Configuration screen, select **Mixed Mode**.
- Create a password for the system administrator (the sa account) and record it for future use. The user account used to install the SQL Server software must also be granted SQL Server administrative access.

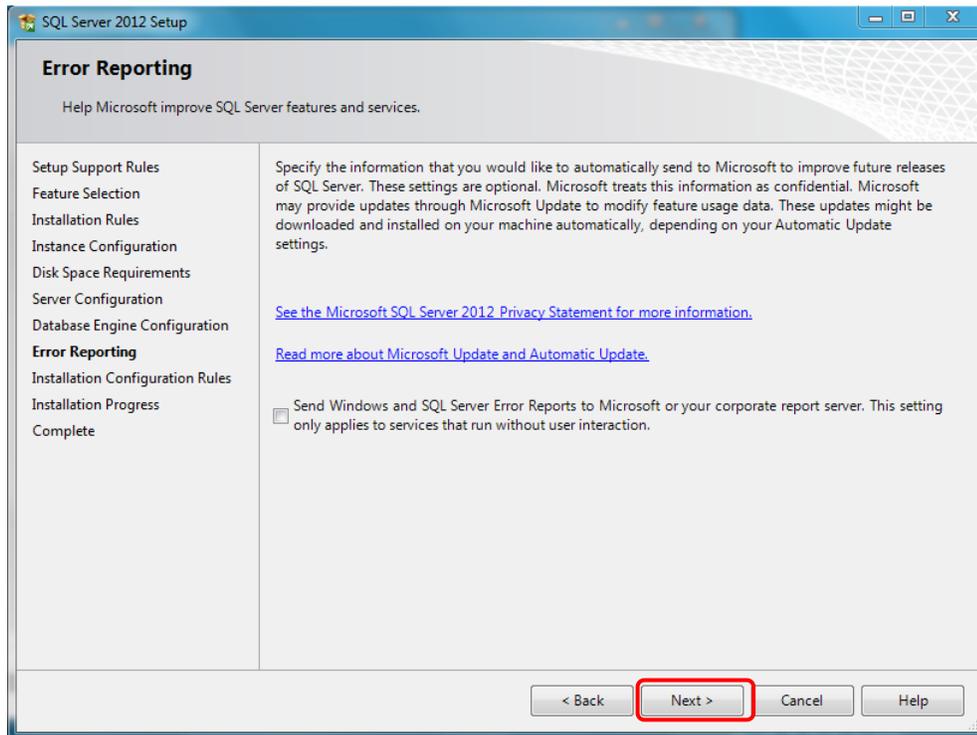
Note! You can create additional user accounts (for example, an IT administrative account) as administrator accounts by clicking the **Add** button.



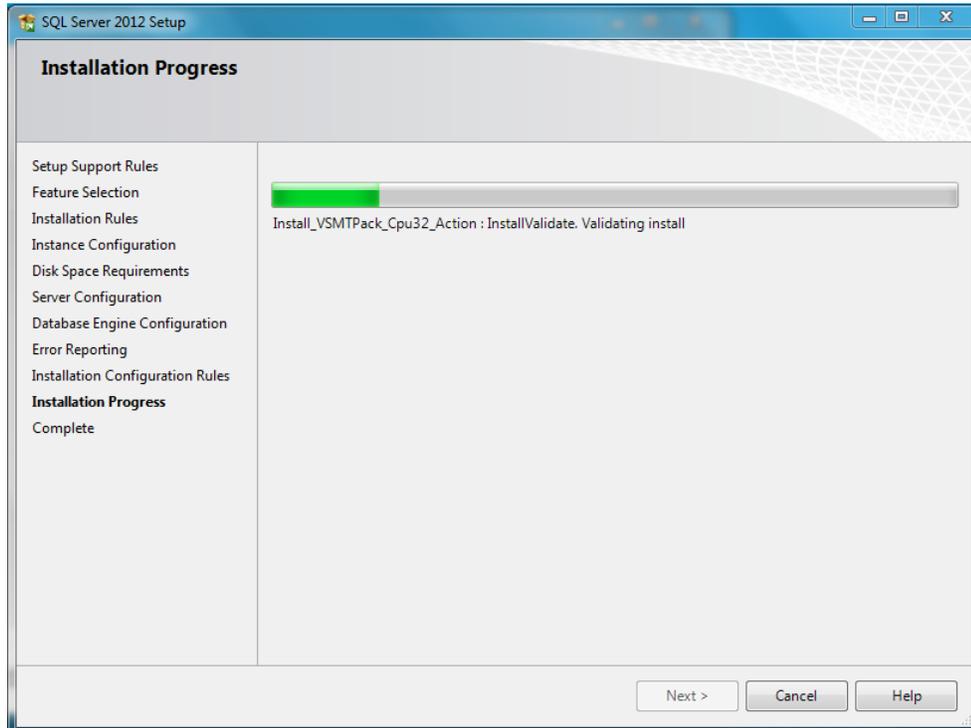
15. Click the **FILESTREAM** tab and **Enable FILESTREAM for Transact-SQL access**. Click **Next**.



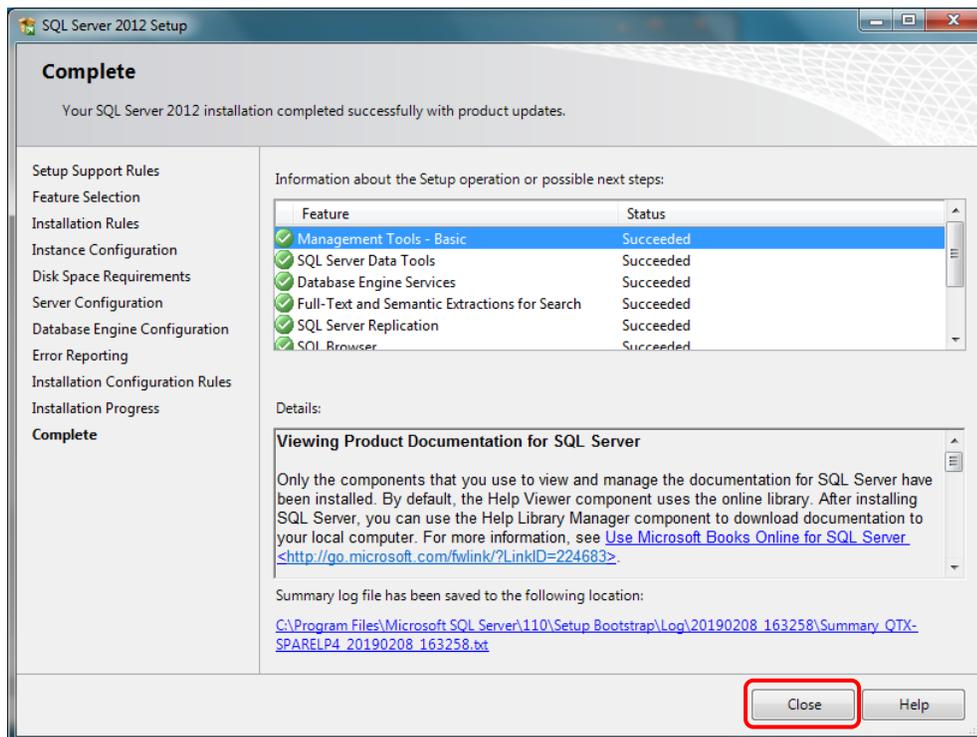
16. On the Error Reporting screen, click **Next**.



17. The installation starts and installation progress is shown.



18. When the installation completes, click **Close** to finish, and close the SQL Server Installation Center window.

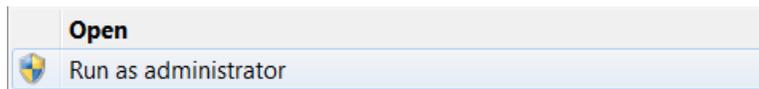


Enable Powershell Script Execution

1. Launch a new Powershell window.
 - Press the Windows Start button
 - Type **powershell** and press Enter
2. In the Powershell window, type **Set-ExecutionPolicy AllSigned** and press Enter.
3. Type **“Y”** and press Enter to confirm.
4. Close the Powershell window.

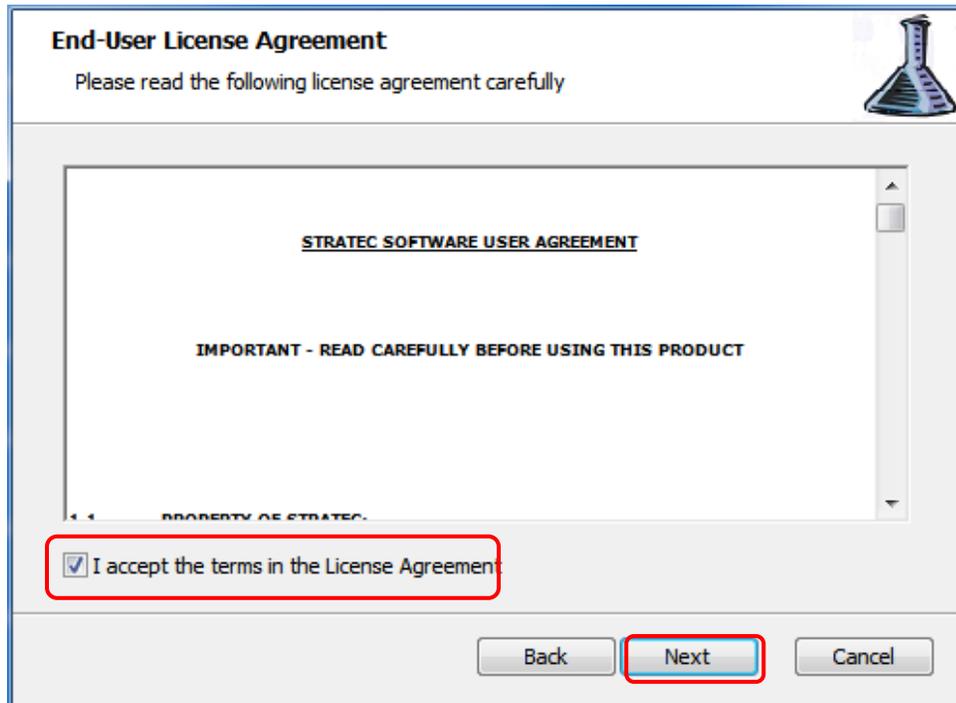
3 HD-X Instrument Software Installation

1. Navigate to the Software Downloads section of the customer portal (<http://portal.quanterix.com/customer/>).
2. Click the link for the **Simoa HD-X Analyzer Software** and download the file.
3. Right-click the downloaded installer file, **Simoa_Software_Installer.exe**, and select **Run as administrator**.

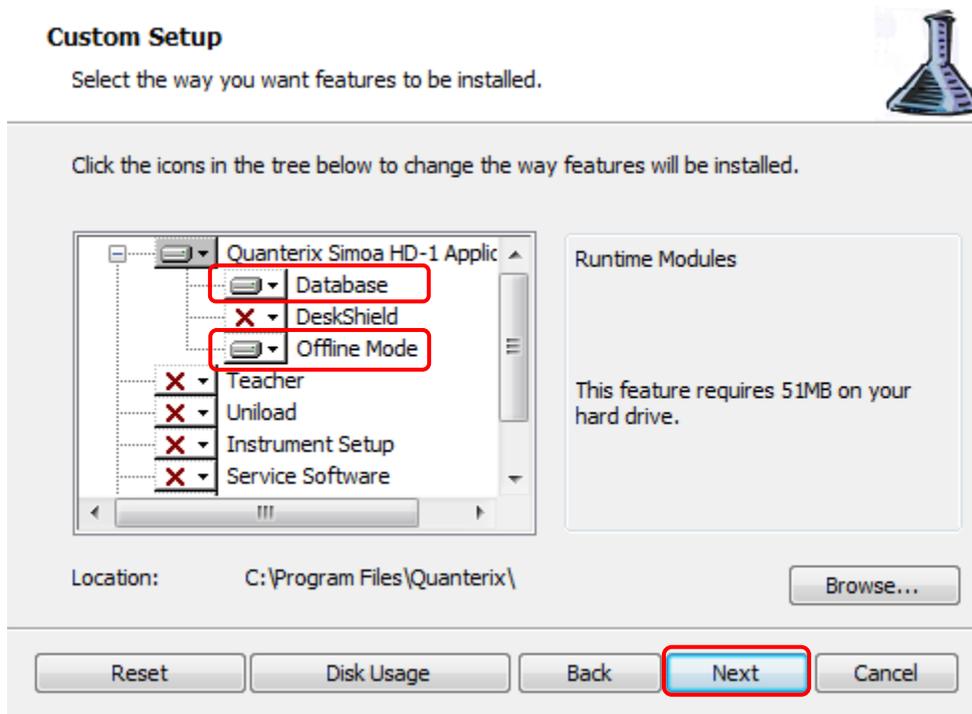


4. Click **Next** on the Welcome screen.

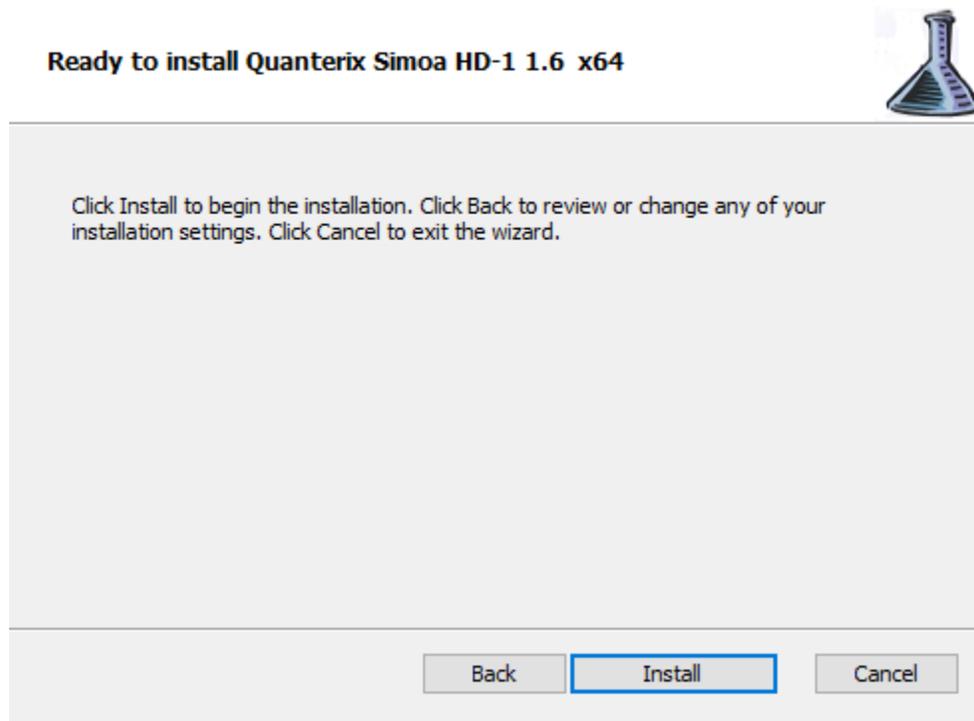
5. Read and accept the license agreement and click **Next**.



6. On the Custom Setup screen enable **Database** and **Offline Mode**. Disable all other features and click **Next**.



- 7. Click **Install**.



- 8. Ensure the installation completes successfully and click **Finish**. When prompted to restart the PC click **Yes**.



- 9. The software is ready for use. See the *Simoa HD-X Analyzer User Guide* for information on using the application.

4 Troubleshooting

If the install did not complete successfully or the HD-X installer returned an error, check these common issues. If you need more help, contact Quanterix Customer Support at techsupport@quanterix.com.

64-bit Windows Requirement

The Simoa HD-X software is only compatible with 64-bit Windows. To check your system, follow the instructions on this page to determine the version of Windows:

<http://windows.microsoft.com/en-us/windows/32-bit-and-64-bit-windows#1TC=windows-7>

64-bit SQL Server 2012 Requirement

You must install the 64-bit version of SQL Server. Downloading the wrong file will result in errors when running the HD-X software installer. Check that 64-bit version of the SQL Server installer was downloaded and installed. The correct filename is *SQLEXPADV_x64_ENU.EXE*.

HD-X Installer Rolls Back Before Completing

If the HD-X installer software executes a rollback followed by an error message, the fault almost always lies in the SQL Server installation. If this happens, a log file is created in the following folder:

C:\Program Files\Quanterix\Simoa HD-1\data\temp\

Check the folder for any files named like "DatabaseToolDebugLog-2019-04-20-17-31-13.sil". There may be more than one. These files can be emailed to techsupport@quanterix.com for assistance.

Potential causes of the rollback are:

- An existing database called QuanterixDb is installed (perhaps created as a side effect of earlier install attempts). The SQL Server Management Studio program can be opened and used to check for an existing QuanterixDb database. If found, delete it and re-run the HD-X installer.
- Incompatible SQL Server was installed. Check that the 64-bit version was installed as described above. If the wrong version is installed, download the correct 64-bit installer and follow the instructions above to install it.
- The Windows user account does not have SQL Server administrative privileges. To avoid this problem, the Windows account used to install the HD-X software should be the same as the one used to install SQL Server.