

# Simoa® HD-X Analyzer Offline Mode Software Installation Instructions

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# **Customer Support**

Customer support is available 8 AM to 5 PM, ET. email: techsupport@quanterix.com

# Contact Us

Quanterix<sup>®</sup> Corporation 900 Middlesex Turnpike Billerica, MA 01821 email: <u>techsupport@quanterix.com</u>

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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<sup>®</sup> .NET Framework 4.6
- Microsoft SQL Server<sup>®</sup> 2012 Express version 11.0.2100.60 or higher

## Configuration

• Enable Powershell Script Execution



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### 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.

Windows PowerShell Desired State Configuration Quick Reference for Windows Management Fi mework 4.0.pptx	<sup>ra</sup> 73 KB
Vindows6,1-KB2819745-x64-MultiPkg.msu	≡ 18.4 MB
Windows6.1-KB2819745-x86-MultiPkg.msu	14.1 MB
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

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**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.

 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/enus/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<sup>®</sup> SQL Server<sup>®</sup> 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 Se	erver® 2012 Expres	S	
Important! Selecting a	anguage below will dynamicall	y change the complete page con	itent to that language.
Select Language:	English	¥	Download

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 SQLEXPRADV\_x64\_ENU.exe and click Next to begin.

ENU\x64\SQLEXPR_x64_ENU.exe	132.3 MB	Ī
ENU\x64\SQLEXPRADV_x64_ENU.exe	1.3 GB	Ш
ENU\x64\SQLEXPRWT_x64_ENU.exe	669.9 MB	

- 4. When the download completes, double-click *SQLEXPRADV\_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**.

髋 SQL Server Installation Center	
Planning	New SQL Server stand-alone installation or add features to an existing installation
Installation	Launch a wizard to install SQL Server 2012 in a non-clustered environment or to add
Maintenance	features to an existing SQL Server 2012 instance.
Tools	Upgrade from SQL Server 2005, SQL Server 2008 or SQL Server 2008 R2
Resources	Launch a wizard to upgrade SQL Server 2005, SQL Server 2008 or SQL Server 2008 R2 to
Options	SQL Server 2012.

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





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

ense Terms	✓ Include SQL Server produces	uct updates	
tall Setup Files	Name	Size (MB)	More Information
tan octup rines	SQL Server 2012 SP1 GDR S	etup 26	KB 2793634

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**.

🚼 SQL Server 2012 Setup		
Install Setup Files		
SQL Server Setup will now be ins be installed.	stalled. If an update for SQL Server Setup is	found and specified to be included, the update will also
Product Updates Install Setup Files	SQL Server Setup files are being installed	on the system.
	Task	Status
	Scan for product updates	Completed
	Download Setup Files	Skipped
	Extract Setup files	Skipped
	Install Setup files	In Progress



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.

📸 SQL Server 2012 Setup		
Feature Selection Select the Express features to in Setup Support Rules	nstall. Features:	Feature description:
Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Installation Progress Complete	Instance Features Database Engine Services SQL Server Replication Full-Text and Semantic Extractions for Search Reporting Services - Native Shared Features SQL Server Data Tools Documentation Components Management Tools - Basic SQL Client Connectivity SDK Client Connectivity SDK LocalDB Redistributable Features	The configuration and operation of each instance feature of a SQL Server instances is isolated from other SQL Server instances. SQL Server instances can operate side-by- side on the same computer.
	Select All       Unselect All         Shared feature directory:       c:\Program Files\Micros         Shared feature directory (x86):       c:\Program Files (x86)\M	oft SQL Server\
	< Back	Next > Cancel Help





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**.

Instance Configuration	n				
Specify the name and instance	e ID for the instance of	SQL Server. Instance	ID becomes part of t	he installation path.	
Setup Support Rules Feature Selection Installation Rules	<ul> <li>Default instance</li> <li>Named instance:</li> </ul>	SQLExpress			
nstance Configuration Disk Space Requirements Server Configuration Database Engine Configuration	Instance ID: Instance root direct	SQLEXPRESS	es\Microsoft SQL Ser	ver\	
rror neporting nstallation Configuration Rules nstallation Progress Complete	SQL Server directory Installed instances:	r: C:\Program File	es\Microsoft SQL Serv	er\MSSQL11.SQLEXP	RESS
	Instance Name	Instance ID	Features	Edition	Version
			< Bark	Next a Car	crel Helo

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

🚼 SQL Server 2012 Setup					
Server Configuration Specify the service accounts an	d collation configuration.				
Setup Support Rules Feature Selection Installation Rules	Service Accounts Collation	a separate account for each	SQL Server serv	ice.	
Instance Configuration	Service	Account Name	Password	Startup Type	e
Disk Space Requirements	SQL Server Database Engine	NT Service\MSSQL\$SQL		Automatic	-
Server Configuration	SQL Full-text Filter Daemon Launc	NT Service\MSSQLFDLa		Manual	
Database Engine Configuration	SQL Server Browser	NT AUTHORITY\LOCAL		Disabled	-
Error Reporting					_
Installation Configuration Rules					
Installation Progress					
Complete					



**11.** 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.

Service Accounts Collation	
Database Engine:	
SQL_Latin1_General_CP1_CI_AS	Customize
Latin1-General, case-insensitive, accent-sensitive, kanatype-insensitive, wid insensitive for Unicode Data, SQL Server Sort Order 52 on Code Page 1252 Unicode Data	lth- for non-

- 12. Click Next.
- **13.** On the Database Engine Configuration screen, select **Mixed Mode**.
- 14. 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.

Database Engine Com	iguration		
Specify Database Engine auth	entication security mode, adminis	trators and data directories.	
Setup Support Rules	Server Configuration Data [	Directories User Instances FILESTREAM	
Feature Selection Installation Rules	Specify the authentication	mode and administrators for the Database Eng	gine.
Instance Configuration	Authentication Mode		
Disk Space Requirements	O Windows authentication	mode	
Server Configuration On Mixed Mode (SQL Server authentication and Windows authentication)			ר
Error Reporting Installation Configuration Rules Installation Progress Complete	Specify the password for th	e SQL Server system administrator (sa) accour	nt
	Enter password:	•••••	
	Confirm password:	••••	
	Specify SQL Server adminis	trators	
	QUANTERIX\mreynolds (M	latt Reynolds)	SQL Server administrators
			have unrestricted access to the Database Engine.
			to the DotoDose Engline
	Add Current User Ad	d Remove	



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

📸 SQL Server 2012 Setup					ж
Database Engine Confi Specify Database Engine auther	guration	ors and data directories.			
Setup Support Rules	Server Configuration Data Direc	tories User Instances FILESTREAM			
Feature Selection					
Installation Rules	Enable FILESTREAM for Transact-SQL access				
Instance Configuration	Enable FILESTREAM for fil	e I/O access			
Disk Space Requirements	Windows share name:	SQLEXPRESS			
Database Engine Configuration	Allow remote clier	nts access to FILESTREAM data			
Error Reporting					
Installation Configuration Rules					
Installation Progress					
Complete					
		< Back Next > Cancel		Help	

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

📸 SQL Server 2012 Setup	
Error Reporting Help Microsoft improve SQL Se	erver features and services.
Setup Support Rules Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration <b>Error Reporting</b> Installation Configuration Rules Installation Progress Complete	Specify the information that you would like to automatically send to Microsoft to improve future releases of SQL Server. These settings are optional. Microsoft treats this information as confidential. Microsoft may provide updates through Microsoft Update to modify feature usage data. These updates might be downloaded and installed on your machine automatically, depending on your Automatic Update settings. See the Microsoft SQL Server 2012 Privacy Statement for more information. Read more about Microsoft Update and Automatic Update. Send Windows and SQL Server Error Reports to Microsoft or your corporate report server. This setting only applies to services that run without user interaction.
	< Back Next > Cancel Help



Installation Progress         Setup Support Rules         Feature Selection         Installation Rules         Install         Install_VSMTPack_Cpu32_Action : InstallValidate. Validating install         Install_VSMTPack_Cpu32_Action : Install_VS
Setup Support Rules Feature Selection Installation Rules Install_VSMTPack_Cpu32_Action : InstallValidate. Validating install Install_VSMTPack_Cpu32_Action : InstallValidate. Validating install Install Installetion Database Engine Configuration Error Reporting Installation Configuration Rules Installation Configuration Rules Installation Progress Complete

**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.

📸 SQL Server 2012 Setup		
Complete Your SQL Server 2012 installati	on completed successfully with product updates.	
Setup Support Rules	Information about the Setup operation or possible r	next steps:
Feature Selection	Feature	Status
Installation Rules	Management Tools - Basic	Succeeded
Instance Configuration	SQL Server Data Tools	Succeeded 🗧
Disk Space Requirements	Database Engine Services	Succeeded
Server Configuration	Full-Text and Semantic Extractions for Search	Succeeded
Database Engine Configuration	SQL Server Replication	Succeeded
Error Reporting	SOL Browser	Succeeded
Installation Configuration Rules		
Installation Deserves	Dataila	
Installation Progress	Details:	
Complete	Viewing Product Documentation for SQL Server Only the components that you use to view and manage the documentation for SQL Server have been installed. By default, the Help Viewer component uses the online library. After installing SQL Server, you can use the Help Library Manager component to download documentation to your local computer. For more information, see Use Microsoft Books Online for SQL Server <a href="http://go.microsoft.com/fwlink/?LinklD=224683">http://go.microsoft.com/fwlink/?LinklD=224683&gt;</a> .  Summary log file has been saved to the following location: <a href="http://go.microsoft.SQL Server/110/Setup Bootstrap/Log/20190208_163258/Summary_QTX-SPARELP4_20190208_163258.txt">http://go.microsoft.SQL Server/Withelp/Log/20190208_163258/Summary_QTX-SPARELP4_20190208_163258.txt</a>	
		Close Help



## 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

- Navigate to the Software Downloads section of the customer portal (<u>http://portal.quanterix.com/customer/</u>).
- 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.

End-User License Agreement Please read the following license agreement carefully	Å
STRATEC SOFTWARE USER AGREEMENT	<b>^</b>
IMPORTANT - READ CAREFULLY BEFORE USING THIS PRODUCT	
	Ŧ
Back	Cancel

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

Custom Setup Select the way you want features to be installed.	
Click the icons in the tree below to change the way	features will be installed.
Vuanterix Simoa HD-1 Applic       Vatabase       Vatabase <td>Runtime Modules This feature requires 51MB on your hard drive.</td>	Runtime Modules This feature requires 51MB on your hard drive.
Location: C:\Program Files\Quanterix\	Browse
Reset Disk Usage	Back Next Cancel





7. Click Install.

Ready to install Quanterix Simoa HD-1 1.6 x64	
Click Install to begin the installation. Click Back to review or change any of yo installation settings. Click Cancel to exit the wizard.	ur
Back Install	Cancel

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 <u>techsupport@quanterix.com</u>.

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

# 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 *SQLEXPRADV\_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 <u>techsupport@quanterix.com</u> 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.

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