
SQL LiteSpeed 3.0 Installation Guide



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Introduction

This guide outlines the SQL LiteSpeed 3.0 installation procedures and addresses the following items to complete the SQL LiteSpeed 3.0 installation in a simple and accurate manner:

- ◆ Product Background
- ◆ Preliminary Installation Steps
- ◆ SQL LiteSpeed 2.X to SQL LiteSpeed 3.0 Upgrade Recommendations
- ◆ SQL LiteSpeed Installation Process
- ◆ Post Installation Steps
- ◆ Additional Information

Product Background

SQL LiteSpeed is advanced backup and recovery software solution for Microsoft SQL Server 7.0, 2000 and Yukon. SQL LiteSpeed provides integrated high performance compression technology resulting in a reduction of up to 95% of backup storage costs. Moreover the dramatic reduction in disk I/O results in a backup time reduction of up to 70%. In addition, SQL LiteSpeed provides integrated RC2 secret key encryption to secure sensitive backups on disk and tape.

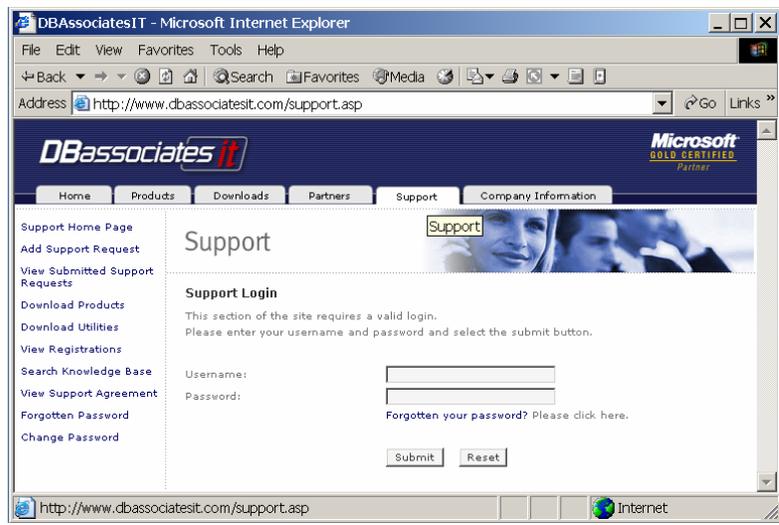
SQL LiteSpeed provides Database Administrators (DBAs) with unparalleled performance, flexibility and tunability with its GUI, Transact-SQL and command line interfaces as well as ease of integration into existing environments. SQL LiteSpeed provides Database Managers and IT Executives with significant reduction in storage costs and strengthened security. SQL LiteSpeed supports the following SQL Server configurations:

- ◆ Standalone SQL Server Installations
- ◆ Clustered Installations
 - Active/Active or Active/Passive
 - 2 Node or 4 Node
- ◆ Default and Named SQL Server Instances

Preliminary Installation Steps

Before beginning the SQL LiteSpeed 3.0 installation, it is necessary to address the following items:

- ◆ Obtain a web based account to www.dbassociatesit.com from your DBAssociatesIT representative to access your SQL LiteSpeed license information and to download the latest version of SQL LiteSpeed based on the Windows version i.e. Windows 2003, Windows 2000 or Windows NT 4.0 and obtain your license key information ('Company Name', 'Registration Name' and 'Serial Number').
 - ***** NOTE: This is not necessary for the Evaluation Version of SQL LiteSpeed. *****



- ◆ Retain the SQL LiteSpeed copy on a file share or CD with the product key and company name for the installation process both electronically and as a physical copy
- ◆ Complete the necessary internal Change Management procedures
- ◆ Ensure all instances of SQL Server are started and operating properly
- ◆ Review the SQL Server Error Log and the Windows Event Log to verify the server has not experienced any recent problems from the Windows or SQL Server perspective
- ◆ Verify the account performing the installation has Windows Local Administrator rights and SQL Server System Administrator 'sa' rights
- ◆ The Windows and SQL Server should be compliant with the following Service Packs:

SQL LiteSpeed 3.0 – Service Pack Requirements			
OS Version	Service Pack	SQL Server Version	Service Pack
Windows NT 4.0 ¹	Service Pack 6a	SQL Server 7.0	Service Pack 3 or above
Windows NT 4.0 ¹	Service Pack 6a	SQL Server 2000	Latest (SP 1 or above)
Windows 2000	Latest (SP 1 or above)	SQL Server 7.0	Service Pack 3 or above
Windows 2000	Latest (SP 1 or above)	SQL Server 2000	Latest (SP 1 or above)
Windows 2003	Latest (SP 1 or above)	SQL Server 2000	Latest (SP 1 or above)

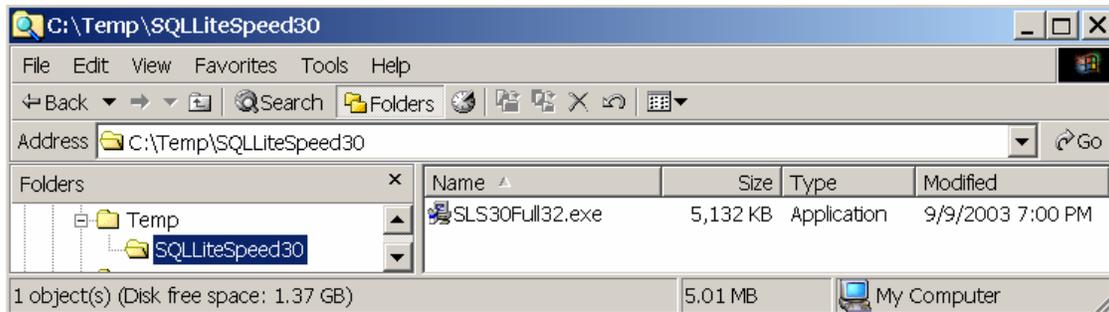
- ◆ Although it is not necessary to reboot Windows or restart the SQL Server services (MSSQLServer and SQLServerAgent) after the SQL LiteSpeed installation on a standalone or clustered SQL Server, it is recommend to complete the installation during a low usage period
- ◆ Ensure recoverable backups are available for the master database for each server and instance else issue a native SQL Server database backup for the master database
 - As a best practice, before modifying your SQL Server, issue a backup of all databases and configurations prior to any environmental change

¹ The SQL LiteSpeed Management Console is not available for Windows NT 4.0 systems due to requirements for MMC 1.2 or greater

- ◆ If any virus protection packages are operational on the SQL Server, temporarily disable the application during the installation procedures
- ◆ Reference the documents listed in the 'Additional Information' section at the end of this guide
- ◆ For clustered installations ensure all physical nodes are available at install time, to ensure components are correctly installed and configured for failover

SQL LiteSpeed 2.X to SQL LiteSpeed 3.0 Upgrade Recommendations

- ◆ ***** Note ***** - If upgrading from SQL LiteSpeed 2.X to 3.0 and if it is your intention to delete the SQL LiteSpeed primary DLL (xpSQLLiteSpeed.*.*.*.DLL) it will be necessary to restart the SQL Server services (MSSQLServer and SQLServerAgent). Restarting SQL Server is necessary to delete the SQL LiteSpeed primary directory although it is not necessary to do so for SQL LiteSpeed 3.0 to function properly. In SQL Server after executing any extended stored procedure (xp_*) calling a *.DLL, the file is locked and cannot be deleted until the SQL Server services are restarted. With SQL LiteSpeed the *.DLL is not registered and not shared between any other *.DLL's or applications, so this should not be an issue. In addition, it is not necessary to reboot Windows (NT, 2000, 2003, etc.) during the SQL LiteSpeed upgrade process.
- ◆ If SQL LiteSpeed 2.X is currently installed on SQL Server and an upgrade is being performed to SQL LiteSpeed 3.0, the SQL LiteSpeed 3.0 application will first complete the SQL LiteSpeed 2.6 uninstall process.
- ◆ Double click on the SQL LiteSpeed executable (SLS30Full.exe) in Windows Explorer.



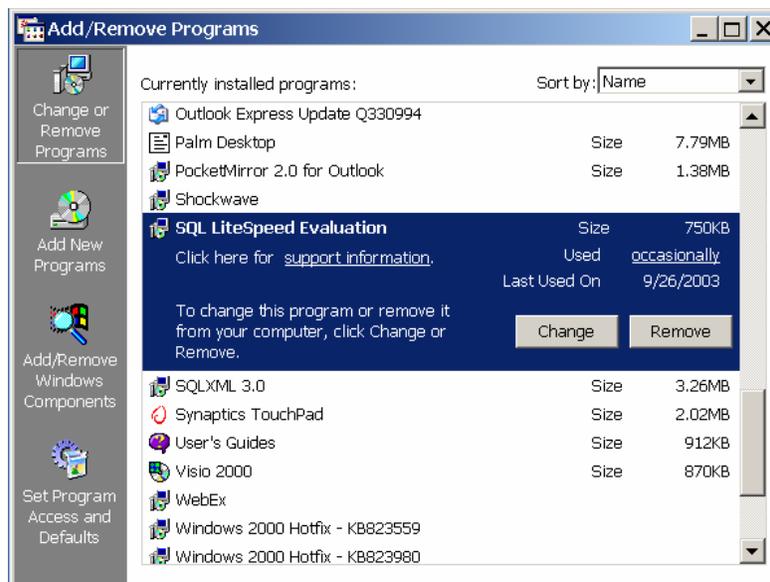
- ◆ The SQL LiteSpeed 3.0 installer will provide the general instructions to navigate to the Control Panel to uninstall SQL LiteSpeed 2.X.



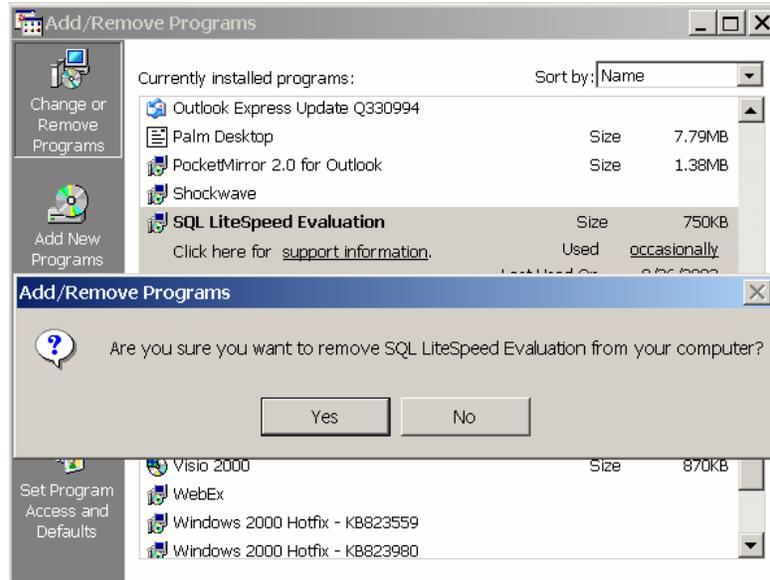
- ◆ Open the Control Panel by clicking on Start | Settings | Control Panel | Add/Remove Programs.



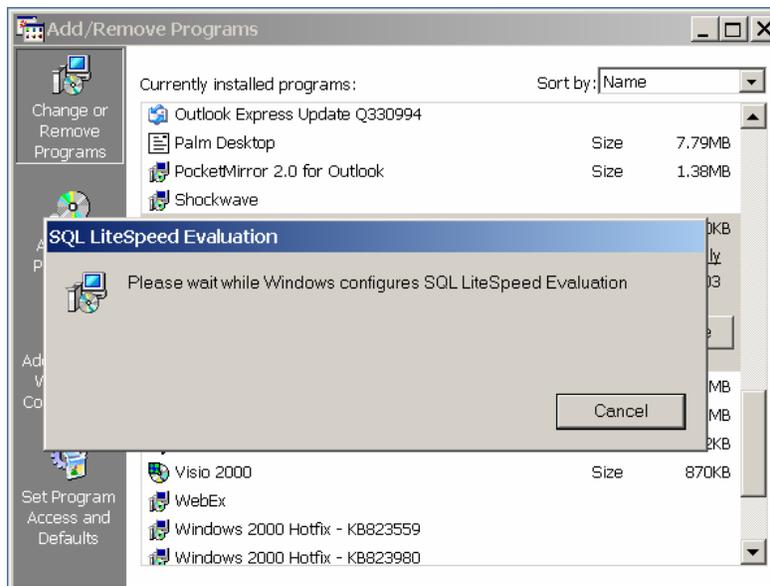
- ◆ Scroll down to the SQL LiteSpeed 2.X application and click on the 'Remove' button.



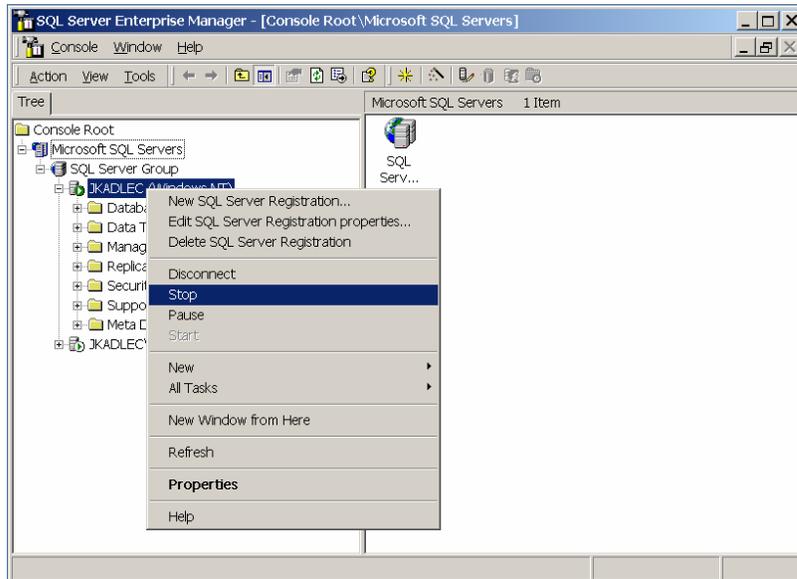
- ◆ After clicking on the 'Remove' button a confirmation screen will appear and click on the 'Yes' button to proceed with the uninstall process.



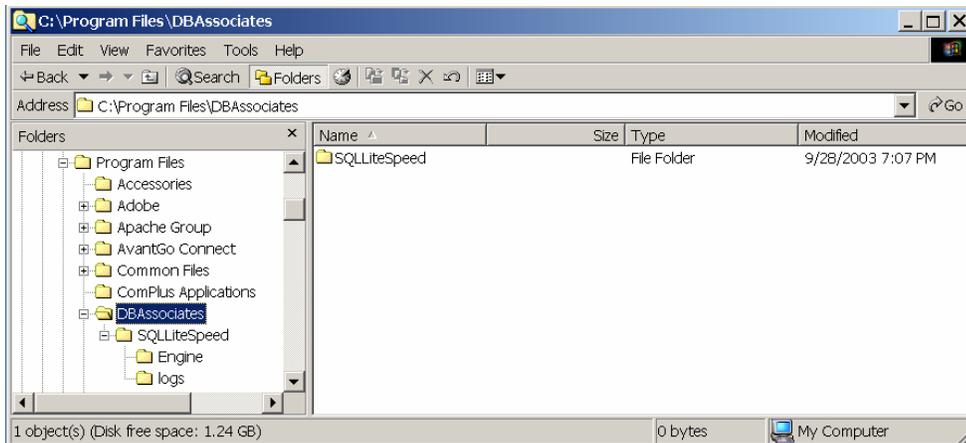
- ◆ Then the Microsoft Installer will evaluate the application via a few screens and proceed via a progress bar. Once complete, the process returns to the Add/Remove Programs application. This application should be closed by clicking on 'X' on the top right of the application



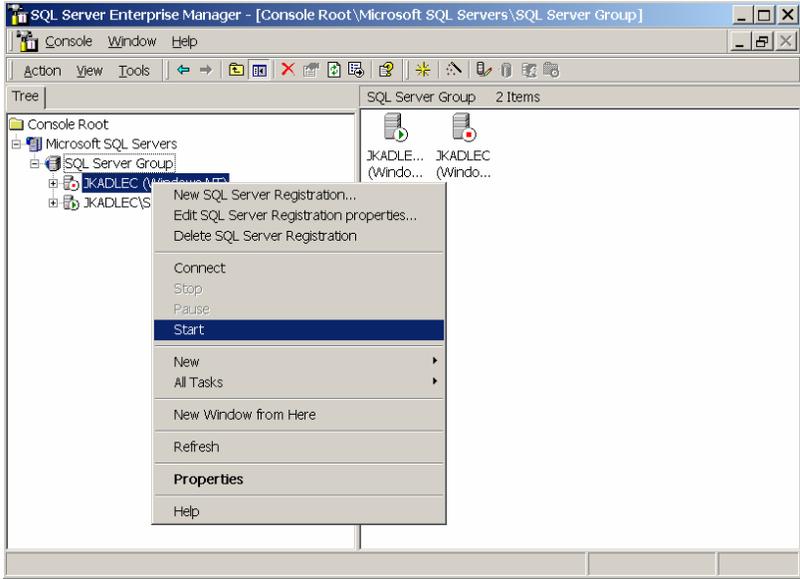
- ◆ If it is necessary to delete the SQL LiteSpeed 2.X directory, stop the SQL Server services (MSSQLServer and SQLServerAgent) in Enterprise Manager by right clicking on the server name and selecting 'Stop' and 'Yes' on the subsequent screen.



- ◆ Open Windows Explorer to delete the SQL LiteSpeed 2.X directory typically located in *C:\Program Files\DBAssociates\SQLLiteSpeed* and clicking 'Yes' on the subsequent confirmation screen.



- ◆ To start the SQL Server Services (MSSQLServer and SQLServerAgent) in Enterprise Manager right click on the server name and selecting 'Start' and wait for SQL Server to begin to accept connections. It is also recommended to review the SQL Server ErrorLog for any issues.

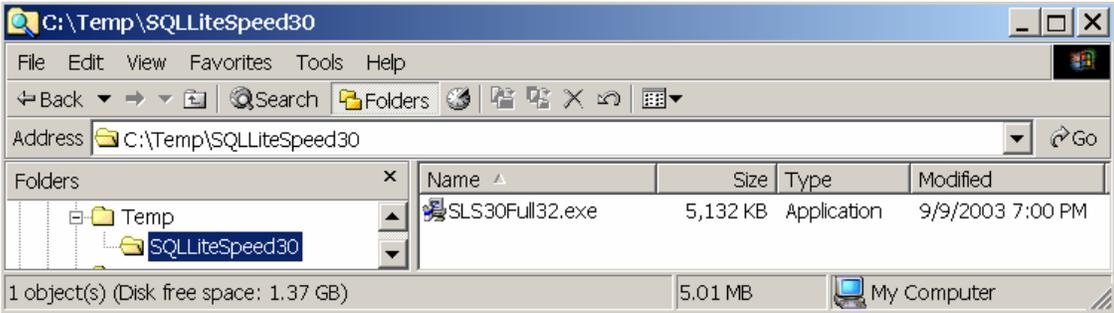


- ◆ Then the SQL LiteSpeed 3.0 installation application will begin the installation process and the directions in the next section should be followed.

SQL LiteSpeed Installation Process

The SQL LiteSpeed installation process can be completed in less than 5 minutes by following the prescribed directions:

1. Stop all Windows based applications including virus protection packages, but do not stop Windows based services such as SQL Server. Ensure all instances of SQL Server which require the installation are running prior to proceeding.
2. Copy the SQL LiteSpeed executable file (SLSFull32.exe or SLSEval32.exe) to the local server on a volume with a minimum of 5 MB of free space. In Windows Explorer double click on the SQL LiteSpeed executable file.



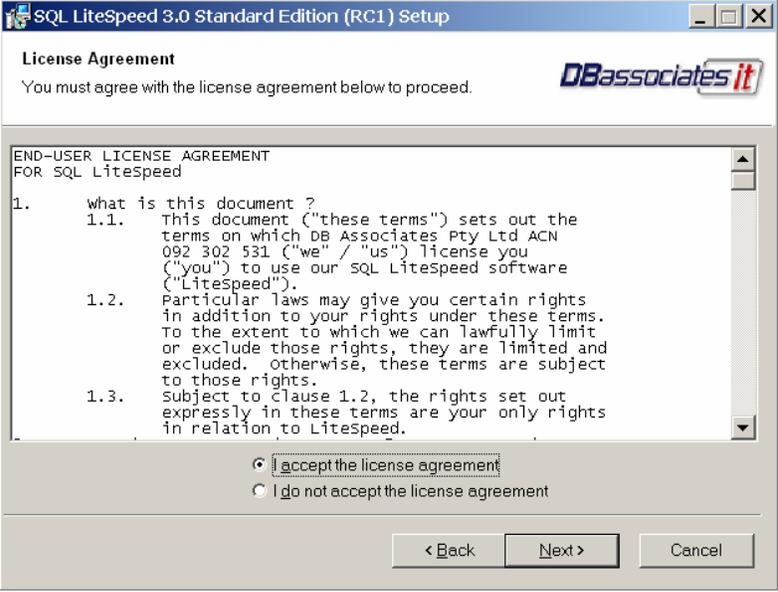
*** Note *** - For SQL Server Clustered installations copy the executable file (SLSFull32.exe or SLSEval32.exe) to a non-shared drive available to the physical node on which you are installing. This drive should exist on all physical nodes of the cluster i.e. C:\Program Files\.... Then run the

executable on one of the physical nodes of the cluster only, but do not run the SQL LiteSpeed installation on the virtual server. The SQL LiteSpeed installation program will enumerate all virtual servers and SQL Instances and automatically configure all nodes of the cluster for failover.

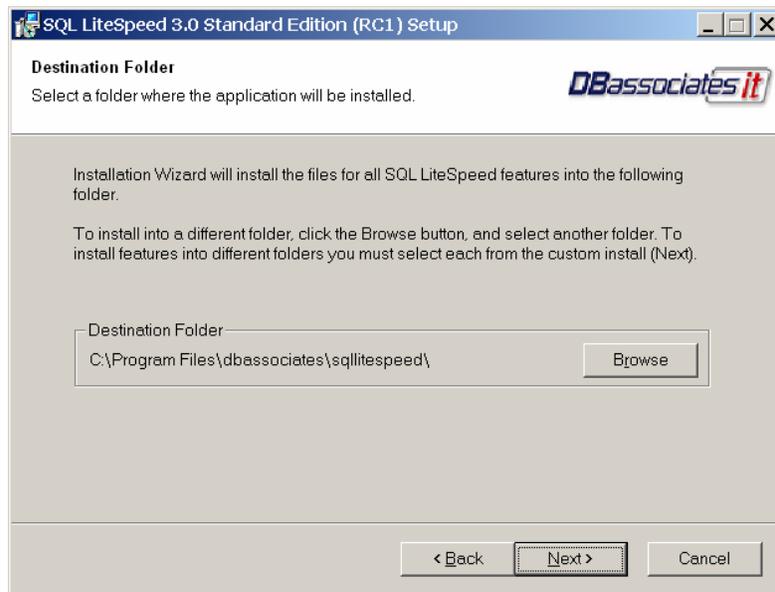
- 3. **Welcome to the SQL LiteSpeed Installation Wizard** – After double clicking on the SQL LiteSpeed 3.0 executable file the 'Welcome' screen will appear, once the items are read click the 'Next' button to proceed.



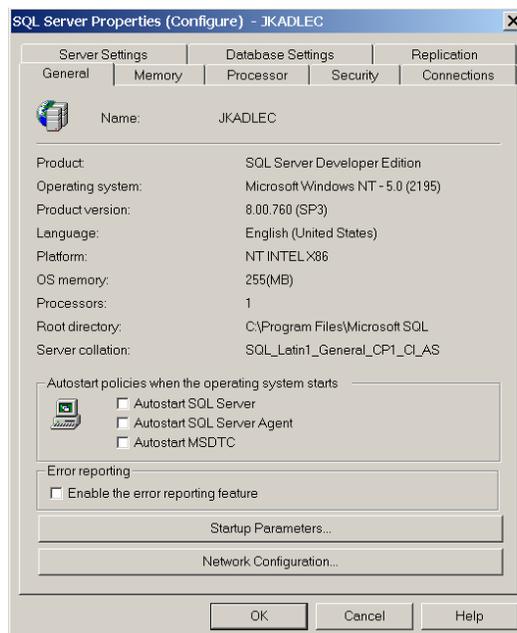
- 4. **License Agreement** – Read the End-User License Agreement by clicking in the main text and pressing 'Page Down' or by clicking on the down arrow on the bottom right of the screen. Once you have reviewed the License Agreement, click on the 'I accept the license agreement' radio button and the 'Next' button will become highlighted. Once the 'Next' button is highlighted, click this button to proceed to the next step.



- 5. **Destination Folder** – The default directory for SQL LiteSpeed is *C:\Program Files\dbassociates\sqlitespeed*. The recommendation is to install SQL LiteSpeed on the same volume where the SQL Server Program Files are installed.

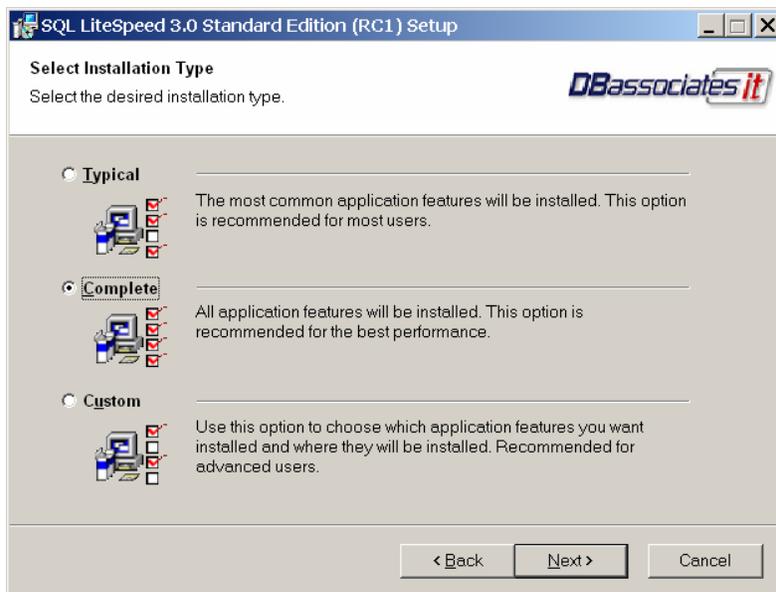


*** Note *** - To determine where the SQL Server Program Files are installed, navigate to SQL Server Enterprise Manager and right click on the server name, select 'Properties' and the SQL Server Properties screen will appear. On the 'General' tab review the drive for the root directory i.e. *C:\Program Files\Microsoft SQL Server*.

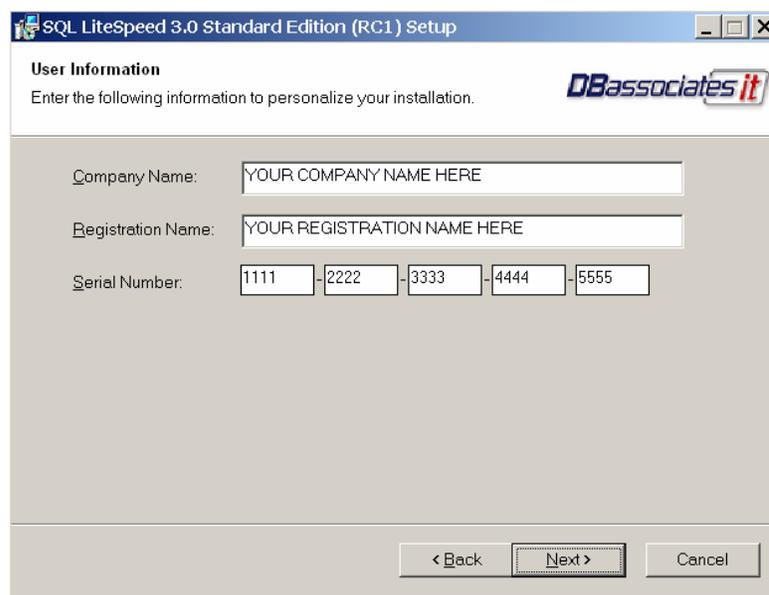


*** Note *** - For SQL Server Clustered installations select a non-shared drive available to the physical node on which you are installing. This drive should exist on all physical nodes of the cluster i.e. *C:\Program Files\...*

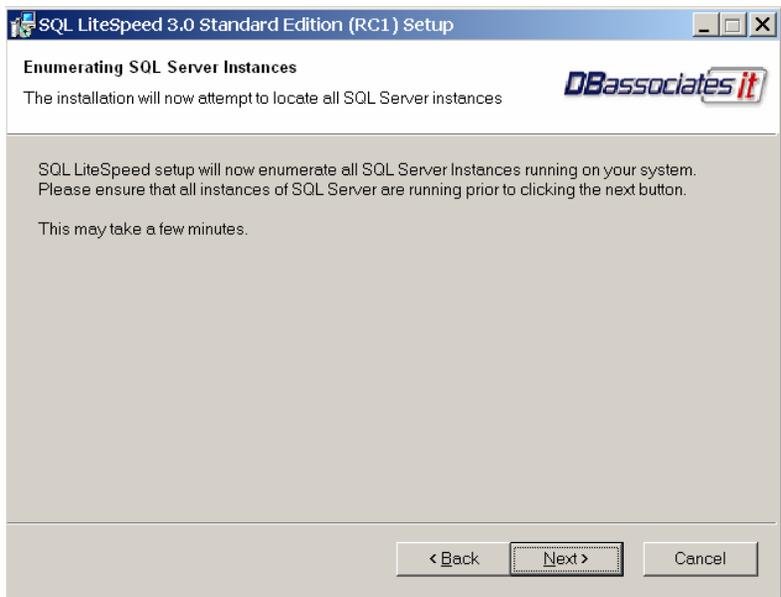
- Installation Type** – Select the appropriate installation type i.e. ‘Typical’, ‘Complete’ or ‘Custom’. To install all of the SQL LiteSpeed 3.0 features select the ‘Complete’ option and then press the ‘Next’ button to proceed.



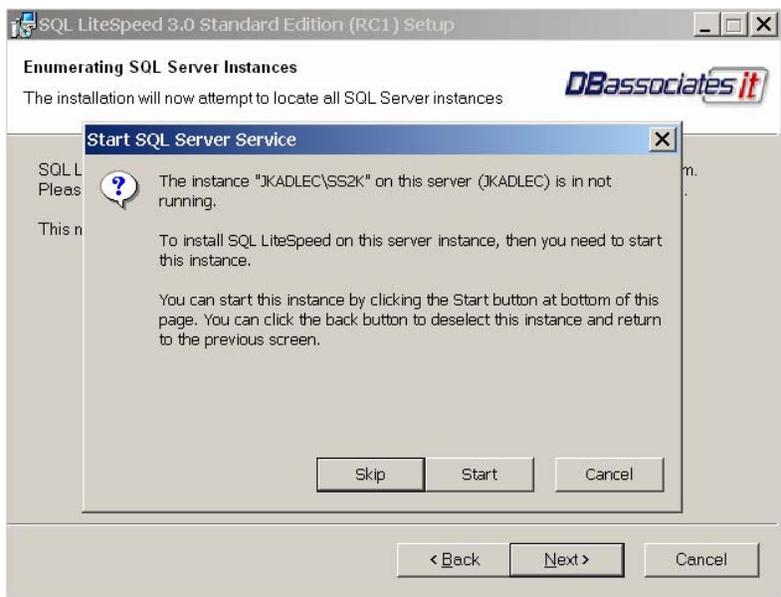
- License Key** – Enter the ‘Company Name’, ‘Registration Name’ and ‘Serial Number’ obtained from your web based account at www.dbassociatesit.com. If you have an issue with your license key, open a case with DBAssociatesIT support on your web based account.



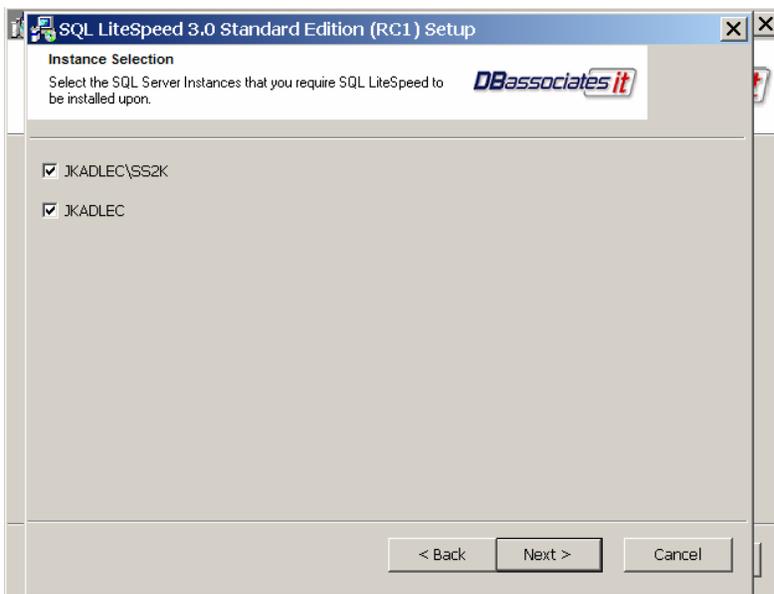
- 8. **Enumerating SQL Server Instances** - SQL LiteSpeed will identify all of the instances that are currently running on the particular SQL Server and provide the Server Name\Instance Name for your selection.



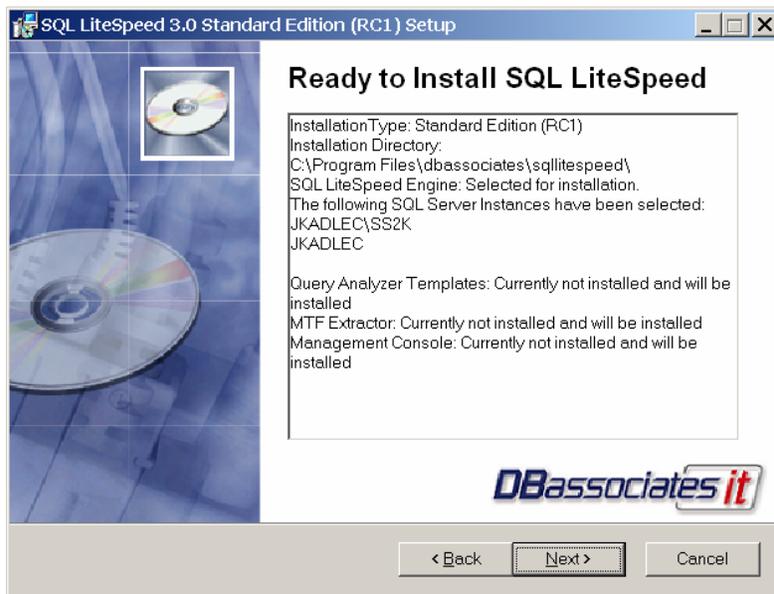
*** Note *** - If a SQL Server instance is not started, the SQL LiteSpeed installation program will detect that a SQL Server instance is installed, but not started and provide options to address during the installation. The 'Start SQL Server Service' screen will appear providing an opportunity to 'Skip' the instance and not install SQL LiteSpeed or 'Start' the instance to proceed with the installation. Since SQL LiteSpeed is licensed per CPU, it is recommended to install the software on all instances.



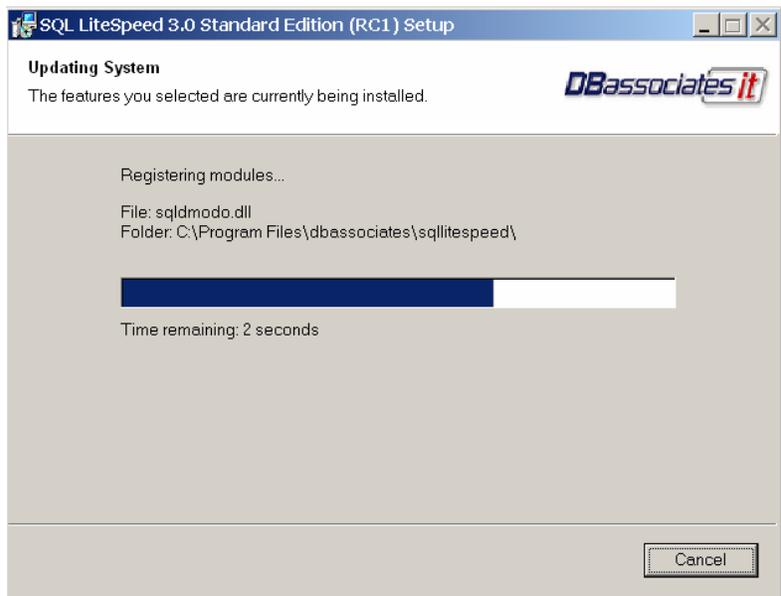
- 9. **SQL Server Instances** – Once SQL LiteSpeed has enumerated all of the SQL Server instances, review the list and select the instances where SQL LiteSpeed should be installed. This can be accomplished by clicking the appropriate check boxes to select the needed SQL Servers where SQL LiteSpeed will be installed.



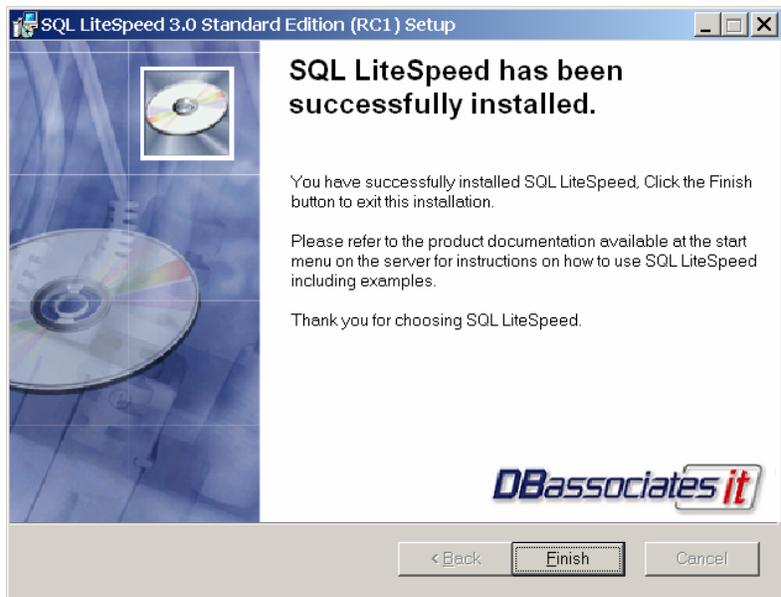
- 10. **Confirmation Screen** – The final step prior to installation will list the following items: Installation Type, Installation Directory, SQL Server Instances, Query Analyzer Templates, MTF Extractor and Management Console. If one of these selections is incorrect, click the 'Back' button to the appropriate screen for the correction; else click the 'Next' button to proceed with the installation.



11. **Installation** – SQL LiteSpeed will install all of the components as prescribed in the previous screen.



12. **Completion** – The SQL LiteSpeed installation is complete! Click the 'Finish' button to return to your desktop. No reboot is needed to complete the installation. Proceed to the Post Installation Steps and Additional Information sections in this document for valuable information.



Post Installation Steps

Below outlines recommendations following the SQL LiteSpeed 3.0 installation

- ◆ Verify the SQL LiteSpeed installation by navigating to the file system directory i.e. *C:\Program Files\dbassociates\sqlitespeed* and in SQL Server by verifying that the SQL LiteSpeed extended stored procedures (xp's) exist in the master database such as: *xp_backup_database*, *xp_backup_log*, *xp_restore_database*, *xp_restore_log*, *xp_restore_filelistonly*, *xp_restore_headeronly*, *xp_restore_verifyonly*, *xp_restore_checkpassword*, *xp_memory_size* and *xp_sqlitespeed_version*
- ◆ Execute *exec xp_sqlitespeed_version* in Query Analyzer for the SQL LiteSpeed version
 - The result set should be -

Product Name	SQL LiteSpeed
Product Version	3.0.xxx.0
Registered Name	YOUR COMPANY NAME
Serial Number	11112222333344445555
SQL Server version	Developer Edition
Number of CPU's	Unlimited
Encryption Support	Yes
- ◆ Note that the SQL LiteSpeed Log Files by default are stored at *C:\Program Files\DBAssociates\SQLLiteSpeed\logs*
- ◆ Execute preliminary backup and restore operations to validate the expected functionality

Resources

1. SQL LiteSpeed 3.0 Online Help – DBAssociatesIT – Access 09.01.2003
2. *Backup and Restore – Back to Basics with SQL LiteSpeed* – Greg Robidoux – Edgewood Solutions - www.edgewoodsolutions.com/resources/BackupAndRestoreLiteSpeed.asp – Access 09.01.2003
3. *Integrating SQL LiteSpeed in your existing Backup Infrastructure* – Jeremy Kadlec – Edgewood Solutions - www.edgewoodsolutions.com/resources/IntegratingSQLLiteSpeed.asp – Access 09.01.2003
4. *Spotlight - SQL LiteSpeed Return on Investment* – Greg Robidoux – Edgewood Solutions - www.edgewoodsolutions.com/resources/LiteSpeedROI.asp – Access 09.01.2003
5. www.DBAssociatesIT.com – DBAssociatesIT - Access 09.01.2003

Additional Information

For additional information about SQL LiteSpeed contact Craig Allen of Edgewood Solutions at 1.888.788.2444 or email Craig at craiga@edgewoodsolutions.com. Visit the following URLs for additional information:

- ◆ Download a SQL LiteSpeed Trial – www.edgewoodsolutions.com/partners/dbassociates.asp
- ◆ *Backup and Restore – Back to Basics with SQL LiteSpeed* – www.edgewoodsolutions.com/resources/BackupAndRestoreLiteSpeed.asp
- ◆ *Integrating SQL LiteSpeed in your existing Backup Infrastructure* - www.edgewoodsolutions.com/resources/IntegratingSQLLiteSpeed.asp
- ◆ *Spotlight - SQL LiteSpeed Return on Investment* - www.edgewoodsolutions.com/resources/LiteSpeedROI.asp
- ◆ *The SQL Server Storage Stomper = SQL LiteSpeed* - www.edgewoodsolutions.com/resources/LiteSpeedStorageStomper.asp
- ◆ *SQL LiteSpeed 3.0 Best Practices* - www.edgewoodsolutions.com/resources/articles.asp
- ◆ DBAssociatesIT the maker of SQL LiteSpeed - www.dbassociatesit.com
- ◆ Stay tuned for *SQL LiteSpeed 3.0 Best Practices, Alert! Alert! Alert! Backup and Restore - Baby!!!* and *The SQL LiteSpeed 3.0 Step-By-Step Guide* at www.edgewoodsolutions.com in the October 2003 time frame

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Jeremy Kadlec is the Principal Database Engineer at Edgewood Solutions, (www.edgewoodsolutions.com) a technology services company delivering full spectrum Microsoft SQL Server Services on the east coast of the United States primarily in the Washington DC and Boston areas. He is also the author of the *Start to Finish Guide to IT Project Management* (<http://www.edgewoodsolutions.com/services/ebookProjectManagement.asp>). Jeremy can be reached at 410.591.4683 or jeremyk@edgewoodsolutions.com.

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