

# LiteSpeed<sup>®</sup> Engine for SQL Server 2.0.3

## Release Notes

January 2017

These release notes provide information about the LiteSpeed Engine for SQL Server release.

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## About LiteSpeed Engine 2.0.3

LiteSpeed Engine for SQL Server is a complementary technology to LiteSpeed for SQL Server product. LiteSpeed Engine for SQL Server allows seamless data compression and encryption without having to modify existing SQL scripts.

By providing LiteSpeed's compression and encryption functionality in a driver based solution, users can continue using native or third party backup tools, while getting the full advantage and flexibility of LiteSpeed's time and space saving features.

The LiteSpeed Engine solution consists of two parts, which are both installed by default:

- **File driver component**—This does the actual work of compressing and optionally encrypting your SQL Server database backups. It works by intercepting the backup file stream and compressing the results

before reaching the actual physical disk. If restoring a database, the operation is reversed – the file stream is decompressed before reaching SQL Server.

- **Configuration Editor**—This is a UI application that, among other things, allows you to determine what SQL Server backup files (based on their extension) are going to be compressed and/or encrypted.

Once installed and configured, the driver will work transparently in the background, compressing and decompressing and optionally encrypting and de-encrypting your SQL Server backups and restores.

## New Features

### Extensions

Added support for ANSI, UTF-16LE, and UTF-16BE.

### Compression Levels

New and improved database backup compression algorithms that offer even better CPU usage and compression characteristics. See the User Guide for more information about the compression levels.

### Scan Available Drives

LiteSpeed Engine automatically scans and hooks available drives on startup. Now, if a cluster drive failed over or a USB drive was added since startup, you can manually rescan the disk devices using the new **File | Driver Management | Rescan Drives** option to be able to do compressed backups to these drives.

### View Driver Status

Now you can view the LiteSpeed engine status in the Configuration Editor status bar and in the file menu (**File | Driver Management | Driver Status**). New Driver Status dialog allows you to stop and start the driver and configure tracing options.

### Clear Trace Log

When driver tracing is enabled, trace information for multiple activities continuously appends. You can now easily clear the log by selecting **File | Driver management | View driver tracing** and clicking **Clear**. Also, you can click **Refresh** to see the latest log entries.

## Resolved Issues

The following is addressed and implemented in LiteSpeed Engine 2.0.3.

**Table 1: UI resolved issue**

| <b>Resolved Issue</b>   | <b>Issue ID</b> |
|---|-----------------|
| "Object reference not set to an instance of an object" error can be generated when the LiteSpeed Engine Configuration Editor is closed. | ST103460        |

The following is addressed and implemented in LiteSpeed Engine 2.0.2.

**Table 2: Restore resolved issue**

| <b>Resolved Issue</b>  | <b>Issue ID</b> |
|--|-----------------|
| In certain cases, LiteSpeed Engine for SQL Server may return an error or possibly cause a system fault during a restore operation when the backup is larger than 4 GB. | ST81145         |

The following is addressed and implemented in LiteSpeed Engine 2.0.1.

**Table 3: Restore resolved issue**

| <b>Resolved Issue</b>  | <b>Issue ID</b> |
|--|-----------------|
| LiteSpeed Engine 1.1 backup cannot be restored with LiteSpeed Engine 2.0, if the index embedded within the backup contains more than 3300 entries. | ST79890         |

The following is a list of issues addressed and enhancements implemented in LiteSpeed Engine 2.0.0.

**Table 4: Various resolved issues**

| <b>Resolved Issue</b>   | <b>Issue ID</b> |
|---|-----------------|
| General - Removable backup media is not supported.                          | N/A             |
| General - LiteSpeed Engine cannot restore LiteSpeed for SQL Server backups. | ST68737         |
| Extensions - Backup file extensions can now contain Unicode characters.     | ST69591         |
| Driver Tracing - Add the Rescan Drives option results to the trace log.     | ST77795         |
| Support Bundle - Support Bundle sometimes cannot be unzipped using WinZip.  | ST69196         |

## Known Issues

The following is a list of issues, including those attributed to third-party products, known to exist at the time of release.

**Table 5: General known issues**

| Known Issue   | Issue ID |
|---|----------|
| LiteSpeed Engine is not cluster aware. It should be installed on a local drive only.  | ST78492  |
| When working with disks utilizing sector sizes other than 512-byte, LiteSpeed Engine cannot not take advantage of sector aligned file I/O. Users may witness a performance decrease in LiteSpeed Engine as a result of using disks that are of a different sector size. | ST68054  |

**Table 6: Uninstall known issues**

| Known Issue   | Issue ID |
|---|----------|
| Uninstall - After uninstalling LiteSpeed Engine for SQL Server, the server should be re-booted. | N/A      |

# System Requirements

Before installing the LiteSpeed Engine, ensure that your system meets the following minimum hardware and software requirements.

## Hardware Requirements

**Table 7: Hardware requirements**

|            |   |
|------------|---|
| Processor  | Follow the recommendations for the SQL Server version used.   |
| Disk Space | 250 MB of disk space for installation<br><b>Note:</b> The disk space required may vary based on options selected during installation.   |
| Memory     | Follow the recommendations for the SQL Server version used.<br><b>Note:</b> The memory required may vary based on the following: <ul style="list-style-type: none"><li>• Applications that are running on your system</li><li>• Size and complexity of the database</li><li>• Amount of database activity</li><li>• Number of concurrent users accessing the database</li></ul> |
| Monitor    | SVGA with a minimum resolution of 1024x768  |

# Software Requirements

**Table 8: Software requirements**

|   |   |
|---|---|
| Operating System  | Microsoft Windows Server 2003 32-bit and 64-bit (x64) (All Service Packs)                           |
|   | Microsoft Windows Server 2003 R2 32-bit and 64-bit (x64) (All Service Packs)                        |
|   | Microsoft Windows Server 2008 32-bit and 64-bit (x64) (All Service Packs)                           |
|   | Microsoft Windows Server 2008 R2 64-bit (x64) (All Service Packs)                                   |
|   | Microsoft Windows Server 2012 64-bit (x64) (All Service Packs)                                      |
|   | Microsoft Windows Server 2012 R2 64-bit (x64) (All Service Packs)                                   |
|   | Microsoft Windows XP 32-bit and 64-bit (x64) (All Service Packs)                                    |
|   | Microsoft Windows Vista 32-bit and 64-bit (x64) (All Service Packs)                                 |
|   | Microsoft Windows 7 32-bit and 64-bit (x64) (All Service Packs)                                     |
|   | Microsoft Windows 8 32-bit and 64-bit (x64) (All Service Packs)                                     |
| Microsoft Windows 8.1 32-bit and 64-bit (x64) (All Service Packs) |   |
| Database Software   | SQL Server 2000 32-bit and 64-bit (All Service Packs)   |
|   | SQL Server 2005 32-bit and 64-bit (x64) (All Service Packs)   |
|   | SQL Server 2008 32-bit and 64-bit (x64) (All Service Packs)   |
|   | SQL Server 2008 R2 32-bit and 64-bit (x64) (All Service Packs)                                      |
|   | SQL Server 2012 32-bit and 64-bit (x64) (All Service Packs)   |
|   | SQL Server 2014 32-bit and 64-bit (x64) (All Service Packs)   |
| Additional Software   | .Net Framework 2.0 or above installed before you install the LiteSpeed Engine Configuration Editor. |
|   | Adobe Reader 8 to view the User guide.  |

## Upgrade and Compatibility

This version of LiteSpeed Engine for SQL Server supports automatic upgrade from the previous versions. Run the LiteSpeed Engine 2.0.3 installer. It will uninstall the previous version automatically and prompt for a reboot. Reboot the computer and complete installation. If it does not start back up after rebooting, you should manually run the installer.

## Product Licensing

### For existing customers:

- If you purchased LiteSpeed and received your new license, enter the License Key and Site Message value during the installation or register LiteSpeed later.

- If you purchased LiteSpeed but have not received your new LiteSpeed license, please go to <https://support.quest.com/contact-support> and request your upgrade.
- If you have any other licensing questions related to your purchase, please go to <https://support.quest.com/contact-support>.

**For trial customers:**

- If you want to purchase LiteSpeed or require a trial extension, please contact your sales representative or open <https://support.quest.com/contact-support>.

# Getting Started

## Contents of the Release Package

The LiteSpeed Engine release package contains the following products:

1. LiteSpeed Engine for SQL Server version 2.0.3
2. Product Documentation, including:
  - User Guide
  - Release Notes

## Installation Instructions

Double-click on the installer and follow the on-screen directions. See the LiteSpeed Engine User Guide for full details on installing LiteSpeed Engine.

## Globalization

This section contains information about installing and operating this product in non-English configurations, such as those needed by customers outside of North America. This section does not replace the materials about supported platforms and configurations found elsewhere in the product documentation.

This release is Unicode-enabled and supports any character set. In this release, all product components should be configured to use the same or compatible character encodings and should be installed to use the same locale and regional options. This release is targeted to support operations in the following regions: North America, Western Europe and Latin America, Central and Eastern Europe, Far-East Asia, Japan.

# About us

## We are more than just a name

We are on a quest to make your information technology work harder for you. That is why we build community-driven software solutions that help you spend less time on IT administration and more time on business innovation. We help you modernize your data center, get you to the cloud quicker and provide the expertise, security and accessibility you need to grow your data-driven business. Combined with Quest's invitation to the global community to be a part of its innovation, and our firm commitment to ensuring customer satisfaction, we continue to deliver solutions that have a real impact on our customers today and leave a legacy we are proud of. We are challenging the status quo by transforming into a new software company. And as your partner, we work tirelessly to make sure your information technology is designed for you and by you. This is our mission, and we are in this together. Welcome to a new Quest. You are invited to Join the Innovation.

## Our brand, our vision. Together.

Our logo reflects our story: innovation, community and support. An important part of this story begins with the letter Q. It is a perfect circle, representing our commitment to technological precision and strength. The space in the Q itself symbolizes our need to add the missing piece — you — to the community, to the new Quest.

## Contacting Quest

For sales or other inquiries, visit [www.quest.com/company/contact-us.aspx](http://www.quest.com/company/contact-us.aspx) or call +1 949 754-8000.

## Technical support resources

Technical support is available to Quest customers with a valid maintenance contract and customers who have trial versions. You can access the Quest Support Portal at <https://support.quest.com>.

The Support Portal provides self-help tools you can use to solve problems quickly and independently, 24 hours a day, 365 days a year. The Support Portal enables you to:

- Submit and manage a Service Request
- View Knowledge Base articles
- Sign up for product notifications
- Download software and technical documentation
- View how-to-videos
- Engage in community discussions
- Chat with support engineers online
- View services to assist you with your product

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## Legend

-  **WARNING:** A WARNING icon indicates a potential for property damage, personal injury, or death.
-  **CAUTION:** A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.
-  **IMPORTANT, NOTE, TIP, MOBILE, or VIDEO:** An information icon indicates supporting information.

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