

LiteSpeed[®] for SQL Server[®] 8.9.8

Release Notes

September 2023

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

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About this release

LiteSpeed for SQL Server, or LiteSpeed, is a fast and flexible backup and recovery solution that allows DBAs to easily maintain complete control over the backup and recovery process. Its low-impact, high-performance compression and encryption technology enables users to reduce storage costs and protect data, while improving both backup and disaster recovery times. With the improved compression and LiteSpeed's Fast Compression technology, LiteSpeed for SQL Server can further reduce disk space and backup time up to another 85% over traditional, compressed full backup solutions. The result is a unique backup and recovery approach, unmatched in flexibility, that greatly reduces backup times, creates a significantly smaller storage footprint, and maintains a high level of recoverability.

- LiteSpeed 8.9.8 is a minor release,

- with new features and functionality. See [New features](#) and [Enhancements](#).

Key Benefits

- Store database backups directly into the following cloud platforms: Microsoft Azure Blob storage, Amazon S3, Google Storage and S3 Compatible Storage
- Reduce storage requirements to save valuable disk space with Fast Compression (reduce storage and improve backup times up to 85% over traditional full backup solutions)
- Optimize use of available server resources with LiteSpeed's Adaptive Compression
- Reduce backup times to improve maintenance windows
- Reduce restore times to avoid excessive downtime
- Automate backup testing and running database consistency checks using Automated Restore
- Easily configure backup jobs and maintenance plans on multiple instances by deploying LiteSpeed Backup Templates
- Easily configure and monitor Log Shipping using the Create LiteSpeed Log Shipping Plan Wizard and Monitoring tab in the LiteSpeed UI Console
- Recover data and schema from backups using LiteSpeed's Object Level Recovery
- Undo critical transactions using LiteSpeed's Transaction Log Reader
- View backup performance across the enterprise using LiteSpeed's centralized reporting repository
- Easily manage SQL Agent jobs across multiple servers using LiteSpeed's Job Manager
- Easily configure maintenance plans across the enterprise using LiteSpeed's Maintenance Plan Designer
- Easily configure backups cleanup rules with Smart Cleanup Policies
- Leverage LiteSpeed's advanced engine tuning, including CPU Affinity, CPU Throttling, and Threading options
- Analyze your environment for best backup performance and identify bottlenecks using LiteSpeed's Backup Analyzer
- Eight highly optimized levels of compression
- Secure data using backup encryption up to AES-256

New features

New features in LiteSpeed 8.9.8:

- **An automatic process that can delete the logs files every n days** is added under Support menu item LiteSpeed Logging when the user right-clicks on a server in the server explorer tree. To enable Automatically delete log files older than the user needs to check one of the Enable checkboxes and then check the Automatically delete log files older than box and type into a numeric box number the desired number of days. Since LiteSpeed Logging option can create many log files, log files will be deleted after that number of days from the location of log files from Log file path set in the same form to free up the drive

- The argument **@Disconnect Users** is added when specifying backup options in **Create LiteSpeed Log Shipping Plan Wizard** to disconnect users while performing restore to the subscribers. This option can be checked only if **Perform full backup and then restore to initialize subscriber(s)** is also checked. If **Perform full backup and then restore to initialize subscriber(s)** is unchecked this option would be disabled and unchecked. If the option **Disconnect users when restoring full backup** was checked in the backup options tab, the script that is generated in the final step of the wizard will contain `@DisconnectUsers = 1` for the `xp_restore_database` procedure
- **The wildcard validation for the databases in the Backup Template Deployment wizard** is added under the Deploy step in order to mark the servers which don't match the given criteria. After setting a wildcard on the Select Databases step in the Backup Template Wizard, on the Select Instances step the Servers which don't contain a database with a wildcard expression would turn red.
- **The mirror option under the Backup options in the Log shipping** is added in order to copy the backup file from the original location to the defined mirror location. After selecting the checkbox and entering the mirror path by typing the path or browsing from the Backup Location dialog, clicking Next would validate the path. In the Job Manager results can be: Success if both backup and mirroring operations succeed, Warning if the mirroring operation fails, or Error if both backup and mirroring operations fail.
- **Sync local and central activities** is added in order to run synchronization between local and central repositories for one or more servers. **Configure LiteSpeed local and central synchronization** is opened after right-clicking on a specific server or all servers in Backup Manager only and selecting an option **Sync local and central activities**. Server instances, procedures, type of activity to be sync and period can be chosen. There is an option to preview the script by selecting the **View T-SQL** option. After the run is deployed popup window will be shown, showing the **Executing action** and Execution succeeded message. During the synchronization process, LiteSpeed Console is not accessible until the action is complete.
- **Reversing Log Shipping Plan Roles Procedures** are enabled in order to create a functioning log shipping plan without creating a full backup. LiteSpeed will perform steps that ensure the synchronicity between the two databases during the change role process by killing connections, disabling Log Shipping jobs, and creating a final tlog backup and restore before switching roles. A new feature will only work if Change Roles is being used to change roles of databases that are already involved in the same Log Shipping Plan and the two databases are synchronous to begin with. This feature can be used during the Change Role Wizard by first unchecking the Perform full backup and then restore to initialize subscriber(s) checkbox, and then checking the Continue shipping logs without full backup checkbox. The latter checkbox will be added as part of this feature and will not be visible unless the former checkbox is unchecked. Clicking the latter checkbox will produce a warning message box. The original feature is completely preserved.
- **Support for SQL Server 2022**

For more details please visit the following links:

- [Enhancements](#)
- [Resolved issues](#)

Enhancements

The following is a list of enhancements implemented in LiteSpeed 8.9.8.

Table 1: General enhancements

Enhancement	Issue ID
Automatically delete log files older than 'n' days option is added under the LiteSpeed Logging	LS-2358

Enhancement	Issue ID
window	
Disconnect users when restoring full backup option is added under the Backup options step in the Create Log shipping Plan Wizard window	LS-2376
The wildcard validation for the databases is added in the Backup Template Deployment wizard under the Deploy step	LS-2355
The mirror option is added under the Backup options step in the Create Log shipping Plan Wizard	LS-2359
Synchronize local and central activities option is added in the context menu of SQL Server tree in Backup Manager which to delete duplicate data in local and central repositories	LS-2329
Reversing Log Shipping plan roles procedures without performing a full backup option is added under the Backup options step in the Log Shipping Plan	LS-2322
Parameter CloudProxyBufferSize is added in LiteSpeedSettings.ini file under the [litespeed] section	LS-2349
Load databases from all instances at once option is added under the Backup Manager section	LS-2434
Logging for Cloud Proxy while using Amazon S3 Cloud Storage is implemented	LS-2432

Deprecated features

The following is a list of features that are no longer supported starting with LiteSpeed 8.9.8.

Table 2: Features that are no longer supported

Features	Issue ID
The QuestKey is deprecated in newer versions of LiteSpeed. Visit https://support.quest.com/contact-us/licensing to acquire a new license key	LS-2427
Extended stored procedure xp_memory_size marked as deprecated. It will be removed from the product with version 9.0.	LS-1406, LS-1762

Resolved Issues

In LiteSpeed 8.9.8

The following is a list of issues addressed in release 8.9.8

Resolved Issue	Issue ID
"Error occurred. Cannot find column [DatabaseName]" error is encountered when switching to LiteSpeed Activity tab	LS-2417
"The passwords entered do not match" popup window is not shown when the wrong or non-	LS-2431

Resolved Issue	Issue ID
matching password is set under the Compression step in the Backup Template Wizard	
"Object of type 'System.Int32' cannot be converted to type 'System.Nullable`1[System.UInt64]'" error is encountered when Processor affinity is manually set in the Advanced Options and Backup Template is deployed	LS-2430
"Incorrect syntax near the keyword 'values', Incorrect syntax near the keyword 'as'" error is encountered when SQLServers (Central) Reports tab in the application is clicked while using SQL Server 2005	LS-2383
Subfolders can be added with the same name under the Backup location window in the Backup Template Wizard window	LS-2366
Performance is decreased when using LiteSpeed GUI Console with the Search feature implemented	LS-2433
Backup is failing when backing up a database with a filename containing spaces to S3 Compatible Storage (Nutanix)	LS-2481

In LiteSpeed 8.9.7

The following is a list of issues addressed in release 8.9.7

Resolved Issue	Issue ID
SQL Server activities between LiteSpeedCentral and LiteSpeedLocal SQL databases across all imported SQL Servers are not synchronized	LS-2348
"List of Objects in cloud exception: The remote name could not be resolved: 'blob.core.windows.net'" error is encountered when GovCloud (US) Region is checked under the Amazon S3 storage and the backup process is run	LS-2428
The automated job is failing when the database is in the exclusive mode	LS-2338
"Invalid parameter detected" error is encountered when '%' character is used in an extended stored procedure parameter	LS-2332
The Object level recovery feature restores only partial data from the cloud Amazon S3 for tables over 1 GB in size using the direct mode or bulk insert option	LS-2335
"Transaction (Process ID) was deadlocked on lock resources with another process and has been chosen as the deadlock victim" error is encountered when parallel backups are performed	LS-2339
Reduced console freezes when working with a large number of activity statistic events	LS-2345
Enterprise Console is reverting display Instance name changes when synchronizing activities	LS-2330
"Error code 1205: Transaction (Process ID 782) was deadlocked on lock communication buffer resources with another process and has been chosen as the deadlock victim" error is encountered when the deadlock occurs on the msdb database entry during the backup process	LS-2350
"Not enough space for ending backup" error is encountered when backing up to Nimble storage resulting in the incorrect termination of backup	LS-2351
Smart Cleanup fails to delete the backups from the location if the variable %TYPE% is used in the @Locations parameter	LS-2297
"Header info is empty. Check SQL Server works properly." error is encountered when SLSRecast is run via CLI	LS-2346

Resolved Issue	Issue ID
The stored procedure for reverting display Instance name changes in the Enterprise Console when synchronizing activities is not being installed during remote deployment	LS-2349
"Cannot assign a default value to a local variable" error is encountered when configuring the instances in the LiteSpeed Configuration Instance Wizard window while using SQL Server 2005	LS-2365
"Target database is dropped" error is encountered when the xp_restore_automated procedure is run to restore a database from an older SQL Server version to a newer one	LS-2363
"SELECT" statements on the msdb databases are now performed with "WITH (NO LOCK)" hint during the backup process	LS-2375
"Error code 1205: Transaction (Process ID) was deadlocked on lock communication buffer resources with another process and has been chosen as the deadlock victim" error is encountered when the deadlock occurs on the LiteSpeedLocal, LiteSpeedCentral and msdb databases entry during the backup process	LS-2381
The warning message "Optimization for OLR is skipped" is now is shown in the LiteSpeed Activity tab when the backup process is successfully finished while the OLR map is skipped due to insufficient storage space	LS-2374
"Specified backup should be a Full Database backup type" error is encountered when using Object Level Recovery with 100 and more data files in the SQL backup database	LS-2377

In LiteSpeed 8.9.5

The following is a list of issues addressed in release 8.9.5

Resolved Issue	Issue ID
LiteSpeed does not crash when requests notification operators list in the deployment wizard.	LS-1795
Fast compression does not reset FC sequence to "F0" after any normal full backup if database name has "".	LS-2127
Maintenance plans do not report formatting is incorrect anymore.	LS-2141
Help files now include the minimum AWS permissions requirements.	LS-2151
MSDB updated when a verify fails at the end of a backup.	LS-2155
Automated striping options takes to account a filestream size.	LS-2163
Maintenance plans do not report "Invalid pointer operation" anymore.	LS-2167
Cloud parameters partsize and parallel uploads are now supported in the backup maintenance plan.	LS-2262
LiteSpeed deletes record about backup in msdb database in case of a failed write to disk operation.	LS-2283

In LiteSpeed 8.9.1

The following is a list of issues addressed in release 8.9.1

Resolved Issue	Issue ID
Tlog backups do not hang sporadically anymore.	LS-1983
Smart Cleanup resources usage significantly decreased.	LS-1980, LS-1981
Backup Analyzer now shows a warning message if the data sample size too low.	LS-1083
Console now may recognize AlwaysOn Group Listener used as a central repository.	LS-1643
Backup to cloud performance has been optimized.	LS-1892
Tlog backups do not fail with the error "The connection is no longer usable..." anymore.	LS-1893
Restore_headeronly stored procedure performance has been optimized for Cloud storage.	LS-1896
Maintenance plans do not hang anymore in case of Cloud storage.	LS-1932
Core correctly handle Access denied error in case of IAM authentication.	LS-1960
Smart Cleanup now correctly handles non-immediate deletions of Cloud storages.	LS-2001, LS-2028
LiteSpeed now correctly calculates CloudPartSize and CloudParallelUpload parameters for large and very large databases.	LS-2009
LiteSpeed does not leave a database in restoring state after restore anymore.	LS-2029
LiteSpeed now uses nolock option for queries to TempDB tables.	LS-1978
Auto-filters disabled for the LiteSpeed Activity tab.	LS-1927
Restore process now able to use LSM file from the backup file.	LS-1712

In LiteSpeed 8.9

The following is a list of issues addressed in release 8.9

Resolved Issue	Issue ID
Log Shipping restore job now fails in case of the first tlog backup was not found.	LS-1401
The AG-related SELECT statement now runs only once.	LS-1033
The updating license key procedure described in the help file.	LS-1232
Fast Compression now takes into account Sql Server native differential backups.	LS-1416
A cluster uninstall script now deletes empty Quest Software folder in Program Files.	LS-1450
Automated restore now takes into account t-log backups created during a full backup.	LS-1452
Maintenance plans now correctly apply the "Order selected databases" option.	LS-1522
Automated restore now correctly sorts backup files	LS-1533
Maintenance plans do not fail now with "session expired"	LS-1569
TDE compressed backups now supports starting SQL Server 2016 SP2 CU8, SQL Server 2017 CU16 and SQL Server 2019 RTM versions	LS-1584, LS-1585

Resolved Issue	Issue ID
Log reader now does not hang on large backups.	LS-1592
LiteSpeed now works with Amazon Web Services IAM Roles as expected.	LS-1603
LiteSpeed now correctly calculates the cloud automatic stripping option.	LS-1628
LiteSpeed now supports the pound symbol in Sql Server passwords where allowed.	LS-1630
LiteSpeed now supports the creation of subfolders for encrypted objects in the Amazon Web Services cloud.	LS-1651

In LiteSpeed 8.8

The following is a list of issues addressed in release 8.8

Resolved Issue	Issue ID
Corrected a problem on restoring on old backup to source database. Automated restore used to incorrectly choose older backups with a higher LSN number that newer backups created after the restore.	LS-514
Corrected a problem where DCR backup files larger than 4GB with Verify option turned on failed.	LS-924
Corrected a problem behind error on upgrade of server during upgrade of LiteSpeed Local 'Latin1_General_100_CS_AS_KS_WS_SC'	LS-982
Cloud browsing performance has been improved in maintenance plans. This is specifically related to the time taken to complete backup jobs when cleanup is enabled.	LS-1000
Corrected a display problem, when a backup or restore verify ran for a longer period of time it showed up in the console as failed but was still running in the background.. The central repository is now updated in real time with progress percentage of restore.	LS-1027
Corrected a problem where OLR failed to start when processing more than 200 TLOG backups.	LS-1030
TSM Issue "Error in conversion TSMEstimatedSize" has been fixed.	LS-1035
Issue related to TSM server generates too many TSM database transactions has been fixed.	LS-1036
Issue "Template was not deployed. Installed LiteSpeed version (8.6.1.36) does not support Azure Blob Storage." when deploying the template has been fixed.	LS-1037
The help files have been updated to include always on group support in SQL Server 2014 and SQL Server 2016.	LS-1123
Log shipping jobs do not check contiguous memory before executing any more.	LS-1127
The option to "Force a full backup if one has not been created" is now applied in the case where a database name does not match the logical name of the MDF file.	LS-1150
xp_restore_verifyonly now reports compression level or adaptive compression mode	LS-1187
Overlapped write has been disabled by default for network storage since it generates too many issues with non-compatible windows storage.	LS-1197
The ability to add / hide copy-only full backups from a selection has been added to Intellirestore	LS-1207
Fast compression template job now records failed backups to Litespeed activity.	LS-1220

Resolved Issue	Issue ID
Fast compression maintenance plans now support variable "%TYPE%".	LS-1246
Litepseed now sets maximum striping/CloudPartSize values for backups to cloud databases that cannot be read.	LS-1262
Improve stability of a backup transfer process to Amazon cloud.	LS-1289
Disable OLRMAP option for TLOGS in Backup Templates.	LS-1296
Backup wizard no longer ignores "Use SSL" setting for Microsoft Azure.	LS-1340

In LiteSpeed 8.7.1

The following is a list of issues addressed in release 8.7.1

Table 3: Core issues

Resolved Issue	Issue ID
Corrected a problem where Log shipping calls to check memory should not crash server or consume up server resources.	LS-1127
Corrected a problem behind a Delete File error on backup to Google Storage for files containing special symbols, slashes or spaces including files in subfolders.	LS-1320
With tlog backups, changed the default setting for the option "Optimize Object Level Recovery speed" to off as in some cases there is more difficulty with its usage than profit.	LS-1222
Corrected a display problem, when a backup or restore verify ran for a longer period of time it showed up in the console as failed but was still running in the background.	LS-1027
Litepseed now sets maximum striping/CloudPartSize values for backups to cloud databases that cannot be read.	LS-1262
The LiteSpeed activity page now records successful and failed fast compression backups.	LS-1220
Fast Compression now shows all messages in the logs, not just messages from the last database.	LS-1218
Fast Compression backups no longer backup databases in STANDBY mode.	LS-1236
OLR is now able to execute requests to process more than 200 TLOG backups.	LS-1030 CSR 4369943
LiteSpeed now locks backup files during regular backup full / differential / TLOG / fast compression.	LS-1194
LiteSpeed now includes logging and retries into the CloudProxy where it checks for bucket existence and requests a bucket's region	LS-1161

In LiteSpeed 8.7

The following is a list of issues addressed in release 8.7

Table 4: Core issues

Resolved Issue	Issue ID
The Instance configuration wizard now allows you to edit the instance name at the SQL Instances step. Ctrl+Left Click on an empty place near the "use the same login ..." check box.	LS-552
When the console is setup to use "central" view, refresh now correctly updates the list of registered SQL Servers.	LS-570
Automated restore now reports the correct message for a dropped database..	LS-576
The Database tab at the instance level now shows the last backup for all databases.	LS-580
LiteSpeed Core is now able to correctly read files with non-standard sector sizes from storage.	LS-643
LiteSpeed now handles license information from old license types (License types used by LiteSpeed versions prior to 8.6).	LS-646 LS-647 LS-649 LS-780
Instance configuration now allows the SQL name to include a port number.	LS-656
Multi-database Fast Compression now correctly works with the %DATABASENAME% parameter.	LS-708
Maintenance Plans can now run backups without an additional call to xp_restore_headeronly	LS-721
On upgrade LiteSpeed is now able to correctly handle the old license type (License types used by LiteSpeed versions prior to 8.6).	LS-780
Corrected an issue where Automated Restore ran with no results.	LS-819
Symbol "]" is now allowed in the database name in backup Maintenance Plans.	LS-823
Symbol "{" is now allowed in OLR scripts..	LS-845
"Always on availability group" options are now disabled when "System Databases" is selected in Maintenance Plans.	LS-854
Remote Deploy now supports TLS 1.2 automated provider selection.	LS-855
Backup Template jobs now produce an error when the backup path option is selected and not used.	LS-871
LiteSpeed Core now works correctly on receipt of unexpected errors from the SQL Server.	LS-890
Browsing for a backup location on windows 2016 no longer results the error "Arithmetic operation resulted in an overflow."	LS-904
The LiteSpeed Console now reports the server as registered when the native Log Shipping plan includes a server port number in "name".	LS-186
The Log Shipping wizard now uses the port number of a registered SQL Server instance.	LS-897
Fast Compression smart cleanup tasks are now able to delete files in the case of locked files.	LS-903 LS-820

In LiteSpeed 8.6.1

The following is a list of issues addressed in release 8.6.1.

Table 5: Core issues

Resolved Issue	Issue ID
Handling of the error "The process cannot access the file because it is being used by another process" in maintenance plans has been improved.	LS-721
Fast Compression backup for multiple databases now supports the %DATABASENAME% variable.	LS-708
LiteSpeed core work with different drive sector sizes has been improved.	LS-643, LS-649
Smart cleanup is able to work with a larger number of files now.	LS-644
License verification is now optimized for old format keys (prior to version 8.6).	LS-646, LS-647
The Instance Configuration Wizard now allows you to set a port number for SQL Server instances on non-standard ports.	LS-656

In LiteSpeed 8.6.0

The following is a list of issues addressed in release 8.6.0.

Table 6: Core issues

Resolved Issue	Issue ID
Errors "Database 'name' is invalid: not found" may occur during smart cleanup process on fast computers	LS-293
Cloud buckets browsing may fail with error "List of Objects in cloud exception: The remote server returned an error: (404) Not Found" in case of a lot of cloud objects	LS-369
Automated restore does not show error in case of drop database operation fail	LS-207
Automated restore may fail drop database if the database in use by other connection	LS-214
Backups executed with depreciating @LSECompatible=1 parameter can't be restored.	LS-323
Backup performance slow due to the running of unneeded T SQL statement.	LS-384
Automated restore changes file names and extension for secondary data files	LS-483
Backup of AG secondary replica fails if the replica is not set to be readable.	LS-498

Table 7: Log Reader issues

Resolved Issue	Issue ID
Log reader may fail when reading large log files because it could not use all available RAM on the machine	LS-6

Table 8: OLR issues

Resolved Issue	Issue ID
OLR should support sparse columns	LS-258

Table 9: Job Manager issues

Resolved Issue	Issue ID
Job Manager may raise an error in case of adding job step to a job.	LS-446

Table 10: Backup Template issues

Resolved Issue	Issue ID
Template deployment may move registered instances to the "unregistered instances" category	LS-448

Table 11: Console issues

Resolved Issue	Issue ID
The user interface console displays an incorrect message if the central repository instance is setup with a port number	LS-503

Table 12: Maintenance Plan issues

Resolved Issue	Issue ID
Maintenance plans create but do not drop temp tables.	LS-516
Maintenance plans may fail with error "Access violation at address 00511475 in module 'sqlservr.exe'. Read of address 7FFD5DF6" during fast compression with smart cleanup plan execution in some cases.	LS-521

In LiteSpeed 8.5

The following is a list of issues addressed in release 8.5.

Table 13: Backup and Restore resolved issues

Resolved Issue	Issue ID
Performance issue related to mirrored backups resolved	115926
Issue with hanging backups on high load systems resolved	119546 119800
LiteSpeed install on windows 2012/2016 servers does not need NET 3.5 any more	119868
"Provider" parameter added to LS Core ini file	119658

Table 14: Fast Compression resolved issues

Resolved Issue	Issue ID
Number of threads from LiteSpeed defaults correctly applied in Fast Compression	119711
Escalation events do not raise error status for backup	119780
Fast Compression can figure out special cases caused by SmartCleanup	119735

Table 15: Remote Deploy resolved issues

Resolved Issue	Issue ID
Remote deploy wizard opens normally on all systems	119799

Table 16: OLR resolved issues

Resolved Issue	Issue ID
Filtered Index is supported	119598
NTEXT, TEXT, IMAGE types can be restored via Direct Mode	119724

Table 17: Maintenance plans resolved issues

Resolved Issue	Issue ID
Maintenance plan reports can be emailed in all cases	119476
Striped backups can be deleted from cloud with “delete files older then” option	119689

Table 18: Instance Configuration Wizard resolved issues

Resolved Issue	Issue ID
AlwaysOn Group listener can be used for the central repository connection	119600 119596

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 19: Version compatibility known issues

Known Issue	Issue ID
Database backups created with LiteSpeed Version 8.x cannot be restored using older versions of LiteSpeed. However, backups created with previous versions of LiteSpeed can be restored with LiteSpeed 8.2.	N/A

Table 20: Installation known issues

Known Issue	Issue ID
LiteSpeed Console is installed, even if it not selected with the 32-bit installer.	LS-1841

Table 21: Console known issues

Known Issue	Issue ID
On Windows 8.1, console logging cannot be enabled when UAC is enabled. The workaround is to run LiteSpeed with the “Run as Administrator” option to enable console logging.	113540

Table 22: Backup and restore known issues

Known Issue	Issue ID
Mirroring is not supported for TSM backups.	49305
LiteSpeed incorrectly writes successful backup details to the SQL Server error log or event viewer if DBCC TRACEON (3226) is run with the backup. These details are not written for a native backup.	38972
On using LiteSpeed Automated Restore to restore an old backup to the source database, automated restore chooses older backups with a higher LSN number in preference to newer backups created after the restore. Workaround: Remove all the backups from old the database (created before the restore) from the backup folders scanned by Automated Restore.	LS-514

Table 23: Activity logging known issues

Known Issue	Issue ID
NT AUTHORITY\SYSTEM account must be added to the sysadmin server role on the local instances of SQL Server 2012 or higher in this very rare scenario: <ul style="list-style-type: none">• The central repository is on the same server as the Local repository and• You selected Local System on the Service Account wizard page of the Instance Configuration Wizard and• You selected to use Windows authentication for the repositories.	104669

Otherwise, the local instance will not report to the central repository.

Workaround: Instead of adding NT AUTHORITY\SYSTEM account to the sysadmin server role, you can either provide a Windows domain account on the Service Account wizard page or use SQL Server Authentication for the local and central repositories.

Table 24: Backup Analyzer known issues

Known Issue	Issue ID
The LiteSpeed Backup Analyzer backs up the requested amount of data for analysis and then automatically aborts the backup process. This generates VDI error messages in the LiteSpeed SQL Server error log. Please ignore them.	79697
Backup Analyzer shows success empty results in case of failed connection to a cloud.	LS-2012

Table 25: Log shipping known issues

Known Issue	Issue ID
The publisher and subscriber servers must have the same version of LiteSpeed.	52230
In the native SQL Server 2000 log shipping plans, if the monitoring server is not the same as the subscriber server, information about the restore time is based on the restore job history and may be different from the actual restore time.	98644
On uninstall of LiteSpeed 8.1 followed by install of a modern LiteSpeed, logshipping jobs do not point to the new executable path. Workaround: At the logshipping module, select the plan and right-click on its name. Click convert to LiteSpeed plan.	LS-1286

Table 26: Maintenance plans known issues

Known Issue	Issue ID
Legacy native plans on SQL Server 2008 may fail due to Microsoft backward compatibility issue. See http://support.microsoft.com/kb/955626 .	60281
LiteSpeed does not support regular expressions with the IgnoreCase option. To ignore case, use ([Aa][Bb][Cc]) instead of (?i:abc).	94513
.Net Framework 4.5 has an UI issue: editable fields may show incorrect values. It applies to Maintenance Plans. Solution: upgrade .Net Framework to 4.5.2 version.	LS-1844

Table 27: Log Reader known issues

Known Issue	Issue ID
User information displays only for operations in sessions that are currently active. The online log and backups do not contain user information and only contain the SPID for the transaction.	37112
Log Reader does not support row-level and page-level compression.	N/A

Table 28: Object Level Recovery known issues

Known Issue	Issue ID
Restore of a table with default values after adding a NOT NULL column to the existing table will result in an error in the case of using Direct Mode (the issue is related to SQL Server 2012 and higher). Workaround: use Bulk Insert recovery mode.	119733

If there is data of variant type with size > 7991 in the table data, recovery using Bulk Insert will result in a BCP internal error: " The column is too long in the data file for...". Workaround: use Direct Mode for data recovery.

119732

System Requirements

Before installing LiteSpeed 8.9.8, ensure that your system meets the following minimum hardware and software requirements.

Hardware Requirements

Table 29: List of hardware requirements

Requirements	Details
Processor	Follow the recommendations for the SQL Server version used.
Disk Space	500 MB of disk space for installation NOTE: The disk space required may vary based on options selected during installation.
Memory	Follow the recommendations for the SQL Server version used. NOTE: The memory required may vary based on the following: <ul style="list-style-type: none"> • Applications that are running on your system • Size and complexity of the database • Amount of database activity • Number of concurrent users accessing the database
Monitor	Monitor with a minimum resolution of 1600 x 1024

Software Requirements

Table 30: List of software requirements

Requirements	Details
Operating System	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 Core 2008 R2 Microsoft Windows Server 2012 64-bit (x64) (All Service Packs) Microsoft Windows Server Core 2012 Microsoft Windows Server 2012 R2 64-bit (x64) (All Service Packs) Microsoft Windows Server Core 2012 R2

Requirements	Details
	<p>Microsoft Windows Server 2016 64-bit (x64) (All Service Packs)</p> <p>Microsoft Windows Server Core 2016</p> <p>Microsoft Windows Server 2019 64-bit (x64) (All Service Packs)</p> <p>Microsoft Windows Server 2022 64-bit (x64) (All Service Packs)</p> <p>Microsoft Windows 7 32-bit and 64-bit (x64) (All Service Packs)</p> <p>Microsoft Windows 8 32-bit and 64-bit (x64) (All Service Packs)</p> <p>Microsoft Windows 8.1 32-bit and 64-bit (x64) (All Service Packs)</p> <p>Microsoft Windows 10 32-bit and 64-bit (x64) (All Service Packs)</p> <p>Microsoft Windows 11 64-bit (x64) (All Service Packs)</p>
Database Software	<p>SQL Server 2005 32-bit and 64-bit (x64) (All Service Packs)</p> <p>SQL Server 2008 32-bit and 64-bit (x64) (All Service Packs)</p> <p>SQL Server 2008 R2 32-bit and 64-bit (x64) (All Service Packs)</p> <p>SQL Server 2012 32-bit and 64-bit (x64) (All Service Packs)</p> <p>SQL Server 2014 32-bit and 64-bit (x64) (All Service Packs)</p> <p>SQL Server 2016 64-bit (x64) (All Service Packs)</p> <p>SQL Server 2017 64-bit (x64) (All Service Packs) when hosted on a Windows operating system.</p> <p>SQL Server 2019 64-bit (x64) (All Service Packs) when hosted on a Windows operating system.</p> <p>SQL Server 2022 64-bit (x64) (tolerant support) when hosted on a Windows operating system.</p> <p>NOTE: Compressed backups for TDE databases supported starting following versions: SQL Server 2016 SP2 CU8, SQL Server 2017 CU16, SQL Server 2019</p>
Additional Software	<p>.Net Framework 4.5.2 installed before you install the LiteSpeed UI Console and LiteSpeed Core Cloud Components.</p> <p>.Net Framework 3.5 required with SQL Server 2005, 2008 and 2008R2.</p> <p>If using IBM Spectrum Protect™ (Tivoli Storage Manager - TSM), the TSM API and Backup/Archive Client version 5.3 or later should be installed.</p> <p>Microsoft Edge or equivalent internet browser program. (The latest versions of internet browsers are recommended to use)</p> <p>Adobe Reader or any equivalent program that can open/view PDF guides.</p>

Supported Cluster Requirements

- Windows Server 2008 Failover Cluster
- Windows Server 2008 R2 Failover Cluster
- Windows Server 2012 Failover Cluster
- Windows Server 2012 R2 Failover Cluster
- Windows Server 2016 Failover Cluster
- Windows Server 2017 Failover Cluster
- Windows Server 2019 Failover Cluster

- HP PolyServe Matrix Sever 3.6.1
- Veritas Storage Foundation HA for Windows 5.0

Supported Deduplication Storage Appliances

LiteSpeed has been tested on Dell DR, EMC Data Domain, EMC ECS, PureStorage, and ExaGrid storage appliances.

VMware and Hyper-V Environments

LiteSpeed has been tested and is certified to work under VMware and Hyper-V environments.

Upgrade and Compatibility

For information about registering LiteSpeed and for upgrade instructions, please see the *LiteSpeed Installation Guide*.

Note that from LiteSpeed 8.5 the default install file path has changed. On upgrade the install file path will not change automatically. You can change the file path during the upgrade process: Browse "Folder name".

Repository Compatibility

If receiving the message "The version of the <RepositoryDatabaseName> on server <ServerName> is greater than the version of this release of LiteSpeed for SQL Server", please see the online Help topic "Upgrade Repositories". The message is an indication that the statistics agent on the older server does not match the newer version of LiteSpeed and must be upgraded.

In addition, there are special considerations if you are upgrading from LiteSpeed 4.x. Review the following before upgrading from LiteSpeed 4.x to LiteSpeed 5.0 or later.

Maintenance Plans

LiteSpeed 5.x and later do not support SSMS plug-in functionality. However, the LiteSpeed UI Console allows you to read SSMS plug-in maintenance plans and upgrade them to SSIS LiteSpeed maintenance plans.

Log Shipping

The SQL Server versions supported for log shipping depend upon the LiteSpeed release:

SQL Server	7.x	8.0-8.6.0	8.6.1-8.8	8.9-8.9.7
2005	•	•	•	•
2008 / R2	•	•	•	•

SQL Server	7.x	8.0-8.6.0	8.6.1-8.8	8.9-8.9.7
2012	•	•	•	•
2014	•	•	•	•
2016		•	•	•
2017			•	•
2019				•

Product licensing

For existing customers:

- If you purchased LiteSpeed and received your new license, enter the License Key during the installation or register LiteSpeed later. The license is updated per server not per instance.
- 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>.

Installation instructions

Double-click on the appropriate installer (.msi file) and follow the on-screen directions.

- LiteSpeed.msi–32-bit installer
- LiteSpeed-x64.msi–64-bit installer

See the LiteSpeed *Installation Guide* for full details on installing LiteSpeed. The *Installation Guide* is located on the product web site and the Quest Support Portal.

Note: It is required that .Net 4.5 is installed before installing LiteSpeed Console and LiteSpeed Core Cloud Components.

More resources

Additional information is available from the following:

- [Online product documentation](#)
- [Database Performance Monitoring Community](#)

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. It supports simultaneous operation with multilingual data. 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.

This release has the following known capabilities or limitations: Note: Litespeed for SQL Server 4.8.4 has been localized in Japanese. 5.0 & more recent releases are English only versions.

About us

We are more than just a name

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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.

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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:

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- 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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