

***Cleo* LexiCom[®]**

Release Notes

Version 5.6



April 2019

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Cleo LexiCom v5.6 Release Notes

Cleo LexiCom software provides you with a wide variety and combination of file transfer capabilities that allow you to initiate transfers, control your transfers and environment, monitor your file transfer activities, and take actions as appropriate based on your file transfer activities.

Cleo VersaLex is the platform that powers the Cleo family of Secure Data Integration (SDI) products—The Cleo LexiCom® product is a desktop-based client solution for communication with major trading networks. The Cleo VLTrader® product is a server-level solution designed to meet the needs of mid-enterprise organizations. The Cleo Harmony® product is tailored for large enterprise needs. Enterprise capabilities include system monitoring, enhanced business-level dashboards, VLTracker, SNMP traps, dynamic blacklisting, and whitelisting.

Cleo Technical Support

Standard Cleo Technical Support is available from 7am - 7pm CST, Monday through Friday. Support availability might differ depending on your support package.

Training and a support subscription are required to work with a Cleo technical support analyst for all products, except Cleo LexiCom.

When contacting the Cleo support team, have your contact information, the name of product you are calling about, and your serial number, if available. During the support process we may request additional information (for example, a support bundle) that will vary depending on the type of request or issue.

Requests are handled on a callback basis in the order they are received. The Cleo support answering service or web form will collect your information and your request will be placed in our callback queue.

To contact Cleo Technical Support:

- Use the request form at: <http://www.cleo.com/support/request.php>.
- Call us:
 - 1-815-282-7894
 - US (toll free): 1-866-444-CLEO(2536)
 - UK: 02038653439

What's new in release 5.6

Framework enhancements

There have been several enhancements to the framework of the VersaLex product family, including security and performance enhancements. See [Fixed issues in version 5.6.0.0](#) on page 7 for more information.

Upgrading to version 5.6

When upgrading to Cleo LexiCom version 5.6, Cleo recommends the following:

- Back up your configuration using the Export functionality. In the web UI, go to **Administration > System > Export**. In the native UI, go to **File > Export**. Performing an Export will save your data in a format that you can import using the Cleo LexiCom Import functionality should the need arise.
- Make sure your system meets the system requirements for Cleo LexiCom version 5.6, as it requires greater resources than earlier versions. 64-bit operating systems are strongly recommended. 32-bit operating systems are supported only for existing customers. All new installs must be 64-bit. Visit <http://www.cleo.com/supportportal> and click the **System Requirements** link for your product.
- Run the Cleo LexiCom 5.6 installer to perform an in-place upgrade. Your data and configuration remain intact from the previous version of the Cleo LexiCom software.

Upgrade considerations

There are some upgrades made available in version 5.6 that can affect your system in ways you might not anticipate and that you should be aware of.

ThirdParty database driver .jars removed

The `.../lib/seureshare/mysql-connector-java-5.1.25.bin.jar` and `.../lib/seureshare/sqljdbc4.jar` jars have been removed from the product. While they should not have been used, these files could connect to the configured enterprise database. To ensure enterprise database connectivity, make sure you have the correct JDBC driver .jar for the database in the `.../lib/ext/` directory.

VLIncoming database table size changed

The database payload **VLIncoming.FileName** column size has been increased from 100 to 255.

Update history

The following sections contain descriptions of issues fixed in Version 5.6 and subsequent patch releases:

Fixed issues in version 5.6.0.0

The following issues are fixed in Version 5.6.0.0:

Enhancements – Framework

- Reduced the number of times the file system is accessed when resolving a unique filename to increase performance on file systems with high latency.
- When a 'New License is available' email is generated, the email now contains all the differences between the active and available license.
- The %date% macro is now supported in default inbox/outbox/sentbox/receivedbox directories defined under the host **General** tabs and the sentbox and receivedbox archive directories defined under the local user host **General** tabs. Be careful using the %date% macro in the default outbox because files in the date-stamped outbox subdirectory will not be sent if the send action occurs after midnight. Likewise, archiving entries in the sentbox, receivedbox, sentbox archive and receivedbox archive date-stamped directories will only occur for the current date.
- Improved speed of inbound and outbound PGP and XML encryption (**Packaging** tab) by increasing buffer size from 1KB to 8KB.
- LexiCom is now supported on IBM i7.3 (AS/400 V7R3). For further information on installation and setup, see the AS/400 Setup and Installation section in the Cleo LexiCom User Guide.
- Added more debug logging when exceptions occur while the UI is attempting to add a host.
- Added the ability to export CA certificates that contain an OpenPGP or SSH FTP public key.

Enhancements – HTTP

- Added the capability to output specific headers in response to invalid resource paths. Specifying [ALWAYS] at the end of a Web Browser Response Header will include that header in cases where the resource path is invalid. Note: Cleo VLProxy 3.7.0.8 or later is required if using Cleo VLProxy.

Enhancements – AS2/AS3

- Added support for the RSASSA-PSS signature algorithm and RSAES-OAEP key encryption algorithm. These new algorithms can be configured through the new **Signature Algorithm** and **Key Algorithm** fields in the **AS2** and **AS3** mailbox panels and the **Local FTP User AS3** panel.

Enhancements – OFTP

- Added a new Advanced property, **Fixed Record Length From OFTP**, that, if set, causes EOL characters to be inserted while receiving a file based on the SFIDLRECL value. Note: In order for this property to take effect, the following must be true: **Fixed Record EOL Characters** must be specified, **Fixed Record Incoming Insert EOL** must be enabled, and a fixed SFIDFMT format with a positive SFIDLRECL value must be requested by the OFTP trading partner.

Enhancements – MQ

- Added the option to use a default Queue Manager for MQ hosts.

Enhancements – Connector

- Added source deletion monitoring feature to connector hosts.
- Added a System Public property for connectors that permits access to a connector from any folder branch.

Bug Fixes – Framework

- Fixed an issue where VersaLex would fail to startup if **Authorized Roots** was enabled and a connector used itself as a host directory (for example, inbox or outbox).
- Removing a host folder from one node now removes it from all other nodes in the synchronization pool.
- Fixed an issue where a `Custom LexiComOutgoing Thread Class` would not execute properly if VersaLex was running as a service or daemon.
- Added missing documentation in the User Guide for the `-b` (backup) command line option.
- Fixed a problem where mailboxes configured to authenticate using Connector Host authentication were unable to login correctly. This problem was introduced in patch 5.5.0.7.
- Fixed a problem that could cause deadlocks to occur, for example, suspended AS2 actions and suspended scheduler processing. This problem was introduced in patch 5.5.0.7.
- Updated the Event Logs' advanced Event Type filter dialog box to fix an issue where response errors were not filtered correctly.
- Fixed an issue where breadcrumbs were not being populated appropriately when displaying Administration User Management features.
- Fixed an issue where using inline filtering could leave the page in an invalid state.
- Fixed an issue where synchronization over HTTP/s could cause performance related issues when there are more than several thousand CA certificates loaded.
- Fixed an issue where an `Access is Denied` error was being logged on startup while attempting to read the host files.
- Fixed an issue where a store-and-forward file could remain on the active IO list, causing the trading partner to see an error if the file is resent very quickly (within a few seconds).
- Updated expired test.cleo.com SSL and signing/encryption certificate used for Support Bundles and Cleo System Test hosts.
- Fixed an issue in the UI where the user was blocked from updating a host Inbox/Outbox/Sentbox/Receivedbox setting from an invalid path to a valid path value. This was most often seen when using URI values for the Inbox/Outbox values.
- Fixed an issue where certain scheduled items could throw a `NullPointerException` when run on a slave node of a cluster. This would only occur for actions that were not scheduled for autosend. Furthermore, this problem would not block the action from ultimately running, as the master node would recover and run the action.
- Fixed an issue where a remote user would not be able to log in after the host was deleted outside the product and imported again using the same name with a different combination of uppercase and lowercase characters.
- Fixed an issue where an action would get scheduled twice if a host was imported with the same alias as an existing host, but using a different combination of uppercase and lowercase characters.
- Fixed an issue where, when you tried to change the case of any character in a host name from uppercase to lowercase or vice versa, a hidden window would open and cause the service to become locked.
- Fixed an issue where the software update function would not use proxies other than the system default as a forward proxy, even if they are available.
- Fixed a problem where a native AS/400 sign-on dialog box could unexpectedly be displayed on the user's computer.
- Changed method for passing stable files lists to scheduled autosend actions, making the process more reliable.
- Fixed a problem where, when running natively on the AS/400 and using the **Browse** button to select a new certificate, a dialog box would be displayed incorrectly stating that the certificate was a duplicate.

- Fixed a problem where the %sourcefile% macro was not resolving in the Execute On Successful Copy command.
- Fixed a problem that caused a PUT command to erroneously delete the source when a preceding PUT -DEL command failed during its source deletion phase.
- Fixed a problem where downloading an installer through software update would fail at the end of the download with an EOFException.
- Improved appearance of pointer when hovering over a selectable table row.

Bug Fixes – FTP

- Fixed a problem where the Source.Directory property was not being included as part of the properties that can be retrieved through the Java API's ILexiComIncoming interface.

Bug Fixes – AS2/AS3

- Fixed an issue where VLTransfers will show 'In Progress' transfers when receiving a CEM request or response.
- Fixed an issue where, when embedded '@' characters were included in the host and/or mailbox alias, the host and mailbox names would be displayed incorrectly in the MDN panel and resends after an asynchronous MDN timeout (AS2 only) would fail.
- AS2 Only: Fixed an issue where, when using PGP or XML packaging on an AS2 outbound stream and an IOException occurred, the connection would hang indefinitely.
- Fixed a problem where a large, AS2 compressed message containing 'compressed' in the source file name could not be successfully decompressed.

Bug Fixes – ebMS

- Fixed an issue where, when embedded '@' characters were included in the host and/or mailbox alias, the host and mailbox names would be displayed incorrectly in the Acks panel.
- Fixed an issue where, when sending database payload using HTTP/s through Cleo VLProxy, the action would hang indefinitely if the connection to the remote host could not be made.

Bug Fixes – SSH FTP

- Fixed a problem where the Source.Directory property was not being included as part of the properties that can be retrieved through the Java API's ILexiComIncoming interface.

Bug Fixes – OFTP

- Fixed an issue in which, when an OFTP trading partner was sending to a VersaLex OFTP 'Server Only' host but disconnected before the host sent all its files to the trading partner, a NullPointerException was being thrown while the host attempted to re-establish the connection.
- Fixed a problem where back-to-back CD requests should be allowed following an EFPA(Speaker=Yes) request, as per RFC 5024 Section 3.3.4.2 Rule 4.
- Fixed a problem where if the server successfully received a file but the client sent an ESID right after the transfer finished, the transfer was not being marked as completed.
- When VersaLex returns an OFTP EERP or NERP, now in all cases a hash value is only included if either the EERP or NERP is signed or if the '**Always Include EERP Hash**' advanced property is on.

Bug Fixes – SMTP

- Fixed a problem with SMTP where the string `null` was preceding the source file string when using a `%sourcefilebase%` macro in the **Subject** field. This condition would only occur when the message also contained "Inline" text.

Bug Fixes – WS

- Fixed an issue where if the `%index%` macro was used in a WS action, the UI and service/daemon would lock up. Also fixed an issue for all host types where the index would be incremented erroneously when validating the commands of the action.

Bug Fixes – Connector

- Fixed an issue that could cause duplicate Connector send actions to be executed when receiving a SFTP transfer with inbound decryption.
- Fixed an issue where a '%' followed by a hexadecimal value in an action name could result in an exception or incorrect values in the database when using `'LogTransfersForPutAndGet=%this%'` in a URI path.

Bug Fixes – HSP

- The HSP server is now more resilient when an unexpected exception occurs. Previously, this would cause an HSP session to not be properly closed, leaving the destination file in a locked state and not allowing a retry attempt from the trading partner.
- Fixed an issue with HSP where the transfer would fail if the inbox on the receiver was using a Connector Host.

Security – Framework

- Access tokens in URL query strings are no longer accepted as valid authorization for any endpoints except `/files` and `/folders` GET requests.

Known issues in version 5.6

The following are known issues in Cleo LexiCom 5.6:

- There is an issue with the addition of new `Signature Algorithm` and `Digest Algorithm` entries in the informational section of the MDN. If these values are not included in a trading partner's signature, the message, `ERROR: MDN archival failure! - java.lang.NullPointerException`, is logged and is followed by a stack trace. It does not cause the signature to fail, however. In addition, it will not generate an `Email On Fail` because the `Result` is a success. On upgrade to version 5.6.0.0, this error might occur, but only appears to occur in conjunction with a small number products that do not include the new `Signature Algorithm` and `Digest Algorithm` entries.