

***Cleo* LexiCom[®]**

Release Notes

Version 5.6.2



April 2021

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Cleo LexiCom 5.6.2 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: <https://support.cleo.com/hc/en-us>.
- Call us:
 - 1-815-282-7894
 - US (toll free): 1-866-444-CLEO(2536)
 - UK: 02038653439

What's new in version 5.6.2

New OS and database support

This release supports Windows server 2019. In addition, Postgres 11.5, 11.6, and 12.1 has been added to the supported databases.

New REST endpoint connections

With this release, you can now create and edit new REST endpoint connections (HTTP, SMTB, ebXML, and RNIF).

Future-proofing your Cleo LexiCom program

Deprecating features

The following features are being deprecated in future releases. You can future-proof your program by using newer features instead of the deprecating ones. A warning message has been added to each of the deprecated features' panels with a suggestion of a newer feature to use instead:

- **Win Unix/File System > CIFS Directories** – use **SMB** hosts instead
- **Router** – use **Router** hosts instead
- **VLPortal** – use **Portal** instead
- **Options > LDAP / User Management > LDAP Settings** – use **LDAP** hosts instead
- **Local FTP Users** – use **Users** hosts instead
- **Local SSH FTP Users** – use **Users** hosts instead

Upgrading to version 5.6.2

When upgrading to Cleo LexiCom version 5.6.2, 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 5.6.2, 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 <https://support.cleo.com/hc/en-us/articles/360042317033> to view the System Requirements for your product.
- **AIX** is no longer supported in versions 5.6.1 and later.
- Run the Cleo LexiCom 5.6.2 installer to perform an in-place upgrade. Your data and configuration remain intact from the previous version of the Cleo LexiCom software.

Update history

The following sections contain descriptions of issues fixed in Version 5.6.2 and subsequent patch releases:

Fixed issues in version 5.6.2.10

Not applicable.

Fixed issues in version 5.6.2.9

Enhancements - OFTP

- Fixed an issue where OFTP connections that use the option `Send files` when partner initiates connection would cause a memory leak.

Fixed issues in version 5.6.2.8

Enhancements - Framework

- Added two new system-level other properties: **Email And Execute On Resolution** and **Email Local And Partner Activation Notifications**. Both of the new properties default to `true`, which matches previous behavior. If **Email And Execute On Resolution** is `true` and **Email/Execute on Repetitive Failures** is turned off, when the failure is resolved, an email is sent and/or **execute on** is performed. **Email And Execute On Resolution** applies to all three levels of **Email/Execute On Repetitive Failures**. If **Email Local And Partner Activation Notifications** is `true`, when a scheduled certificate is activated, an email is sent to the system administrator.
- Addressed an issue where `FileNotFoundExceptions` were being thrown because scheduled autosend files were temporarily unstable due to a slow underlying file system. Now, when running scheduled actions, these files are bypassed, avoiding unnecessary exceptions and Email-On-Fail emails.

Bug Fixes - SSH FTP

- Fixed an issue where, if an optional comment is returned from the SSH FTP server during version negotiation, `SSH_MSG_KEX_INIT` would fail with an Invalid Packet Size exception.

Bug Fixes

- Removed the logged result for low-level inbound connection failures where a trading partner has not been identified and now just log the exception. This keeps **Email/Execute On Fail** from being invoked unnecessarily and reduces alert noisiness.

Fixed issues in version 5.6.2.7

Not applicable.

Fixed issues in version 5.6.2.6

Not applicable.

Fixed issues in version 5.6.2.5

Bug Fixes - Framework

- Fixed an issue where temporary actions were being written to top.xml unnecessarily causing delays in processing.
- Improved possible performance issues when querying Microsoft SQL Server databases through a Microsoft JDBC driver.
- Fixed an issue where certain functions (such as moving a host) would fail when accessing the WebUI through Cleo VLProxy.

Fixed issues in version 5.6.2.4

Bug Fixes - Framework

- Added support for the %transferid% macro in the destination filename field of the PUT and GET commands for FTP and SFTP. Also added support for %transferid% within the destination filename field of LCOPY commands.

Fixed issues in version 5.6.2.3

Enhancements

- Added new local listener `Email And Execute On Unknown Trading Partner Failures` advanced property, which works in conjunction with the existing `Email On Fail` and `Execute On Fail` properties. If this new property is set to `false` (defaults to `true`), only inbound transfer failures associated with a known mailbox result in the configured email and/or execute on fail being invoked. This eliminates unnecessary emails/executions related to cyberattacks, and applies to all the local listener protocols and services.

Bug Fixes - SSH FTP

- Fixed an issue where incorrect permissions were sent when retrieving a file from a SSHFTP server.

Bug Fixes - RNIF

- Fixed an issue where Inactive RNIF Message IDs were unnecessarily written to disk causing performance issues.

Fixed issues in version 5.6.2.2

Not applicable.

Fixed issues in version 5.6.2.1

Bug Fixes – Framework

- Cleo LexiCom only: Fixed an issue where using -f option (process command line options from a file) would cause a NoClassDefFoundError exception, causing the operation to fail.

Fixed issues in version 5.6.2

Security - Framework

- Expired trusted CA certificates will not be installed for new Cleo VersaLex installs. The expired certificates will remain intact for Cleo VersaLex upgrades.

Enhancements - Framework

- Added a monitoring feature that occurs within the scheduler runnability pre-checks where the accessibility of the file system is assessed for possible slowdowns. This monitoring is accomplished by running the pre-checks within threads that are allowed to time out within a reasonable period, thereby preventing the scheduler from blocking on any given pre-check for too long of a period, which could ultimately hinder the overall scheduler performance. To enable this feature, set the `Timeout For File Operations (seconds)` and `Timeout For Directory Operations (seconds)` system-level properties to non-zero values. For further information, refer to the user documentation for a discussion of these two new properties, along with the new `Wait Time For Nonresponsive File Systems (minutes)` property.
- Added the ability to use a connector path as the source for a `SCRIPT` command.
- Changed the behavior of the `Allow Actions to Run Concurrently Host` setting when disabled to only affect the host where the setting was changed, and not the entire Scheduler.
- Added the ability to create and edit HTTP connections via the `/connections` REST endpoints.
- When an OpenPGP key is generated through the Cleo Certificate Manager and an email address has not been specified, an empty email address is no longer included as part of the identity in the generated key ring.
- Added the ability to create and edit SMTP connections via the `/connections` REST endpoints.
- Added the ability to create and edit ebXML connections via the `/connections` REST endpoints.
- Added the ability to create and edit RNIF connections via the `/connections` REST endpoints.

Enhancements - AS2/AS3

- Connectors will now receive the filename for incoming AS2 messages through the metadata. The incoming filename can then be used by Cleo Clarify to make processing decisions.

Enhancements - Connector

- Added an option to treat all files as non-EDI file in the Router connector, allowing for files to be routed based on regex content matching.

Enhancements - OFTP

- Added `SFIDORIG` and `SFIDEST` into OFTP duplicate message checking. It is now based on the following OFTP fields: `SSIDCODE`, `SFIDSN`, `SFIDATE`, `SFIDTIME`, `SFIDORIG` and `SFIDEST`.

Enhancements - RNIF

- Added the ability to resend processed RNIF messages without encountering duplicate PIP instance ID errors.

Enhancements - SSH FTP

- Added the ability to preserve the source file timestamp in the inbound and outbound destination files. To enable this feature, set the `Preserve File Timestamps` advanced property in the host.

Bug Fixes - Framework

- Fixed an issue where a JavaScript action would activate a Security Manager that could cause performance issues or StackOverflowErrors on Cleo Harmony, Cleo VLTrader, and Cleo LexiCom systems running on Windows.
- Fixed a problem where, when 'Email On Repetitive Action Failures' was suppressed and there were multiple commands in the action that used the same command type: when one command succeeded but another failed, the repetitive 'Email on Fail' notifications were not being suppressed.
- Fixed an issue where a database connection leak could occur if the database connection fails.
- Fixed an issue where querying the REST API transfers endpoint with the count and filter parameters could cause the wrong number of results to be returned.
- Fixed an issue where the scheduler could log a NullPointerException or an IndexOutOfBoundsException when processing scheduled actions.
- Fixed an issue where, during the import of a host, an exception would occasionally be thrown, causing the host to be imported incorrectly.
- Fixed an issue where, when multiple temporary actions using the %index% macro were created, a NullPointerException could be logged and a subsequent Email on Fail generated.

Bug Fixes - AS2/AS3

- Fixed a problem where, when an MDN containing a 'Warning' disposition did not contain a 'Received-Content-MIC' value, the MDN viewer displayed a status of 'Malformed MDN - missing Data Integrity'. Some vendors may not compute the MIC value when returning a 'Warning' disposition.
- Fixed an issue where, when a message was compressed then signed and the content-type was folded so that the "smime-type=compressed-data" attribute was on the next line, then the content would not be decompressed.
- Fixed an issue where, when an incoming message from an unknown trading partner requested a signed MDN, the received payload file was not being stored in the lostandfound directory.

Bug Fixes - Connector

- Fixed an issue where a connector that points to itself in an action could cause a StackOverflowError at startup.
- Fixed bug for Kafka connector to handle bin file and metadata. Added option MessageMaxSizeBytes for Kafka and AMQP connector to limit the file size for sending.
- Fixed a problem where a NullPointerException could be thrown when using the Condition field of the Router if System.err is set to null.
- Fixed an issue where sizes of files in Google Cloud Storage would be reported incorrectly by the Google Cloud Platform Connector.

Bug Fixes - HTTP

- Fixed a problem where HTTPS client connections were failing when the SSL connection was redirected to a secondary server that used different server certificates than the initially connected HTTPS server.
- Fixed an issue where a long HTTP connection could cause Garbage Collection to not run, which could cause an increase in memory usage.

Bug Fixes - Portal

- SSH FTP: Fixed an issue with FTP and SSH FTP where the command `GET -REC` does not honor macros, such as `%date%`.

Known issues in version 5.6.2

The following are known issues in Cleo LexiCom 5.6.2:

- Due to ever-changing security requirements, you might encounter system protection on Windows that refuses to run the installer. Click **Run anyway** to dismiss the notification and continue the installation process.
- When installing on Windows server 2019, due to a Java issue, the installer might display that the OS is server 2016.