



## **Release Notes**

**Version 5.8**



September 2023

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## Cleo LexiCom 5.8 Release Notes

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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

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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 5.8

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### General Enhancements

- **New REST API-based import for P12 certificates** – Enhanced endpoint now allows importing certificates.
- **New three-level support for nested ExecuteOn commands** – Commands are now supported up to three levels.
- **New Advanced Users property for Archive Nested Subdirectories** – Archive file transfers to the user and system sent/received boxes.
- **Enhanced change HTTP status code return** – Ability to control the status return code when basic authentication is disabled
- **Enhanced report generation** – Go beyond the UI grid to access file path transfer information

### Security Updates and Enhancements

- Upgraded to the latest version of log4j v2
- New SFTP algorithms and MQ SSL cipher specs
- New Admin-user level configuration to control accessibility to host visibility
- Enable Explicit AUTH Required setting for FTP
- Ensure paths in filenames on incoming requests are ignored for AS2, ebMS, RNIF, and SMTP protocols that do not support paths
- Removed the default OSGi HTTP listening port 8181

### Additional Enhancements and Fixes

- New support for MySQL 8
- Enhanced ability to execute post processing commands after a file is written
- Enhanced ebMS to modify the format of the Content-Id header and new advanced property setting
- Enhanced Message Queuing support for MQ SSL cipher specs
- Enhanced ebMS (ebMXL) configuration and advanced property settings with new Allow Incoming Request With Missing Role Element property.
- Enhanced HTTP with new Save Error Response Content On Put Plus Get advanced property setting
- Updated support for multiple SFTP client and server-side algorithms.
- Updated outbound AS4 signed messages with multiple attachments now orders digest messages the same as the attachments.
- Improved performance of SSH FTP directory listings for Linux
- Improved performance of SMB connector
- Improved S3 UI performance on startup

## Upgrading to version 5.8

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When upgrading to Cleo LexiCom version 5.8, 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 5.8, as it requires greater resources than earlier versions. All new installs must be 64-bit. Visit [Cleo LexiCom 5.8 System Requirements](#) to view the System Requirements for your product.
- Run the Cleo LexiCom 5.8 installer to perform an in-place upgrade. Your data and configuration remain intact from the previous version of the Cleo LexiCom software.

# Update history

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The following sections contain descriptions of issues fixed in Version 5.8:

## Fixed issues in version 5.8

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### Security - Framework

- VersaLex now ensures that any paths in filenames on incoming requests are ignored for protocols that do not support paths, including AS2, ebMS, RNIF, and SMTP.
- For the main VersaLex process, upgraded log4j v1 to the latest version of log4j v2.

### Enhancements - Framework

- Cleo LexiCom only: LexiCom now supports running natively on IBM iSeries (AS/400) V7R4.
- Added a new property called "Accessing raw payload from transfer reports requires Host permissions" to Administrator User configuration. Setting this property to "false" allows users with the ability to view transfer reports (but without the ability to view hosts) to view or email raw payload. By default, this is set to "true" to replicate current functionality.
- When sending bundled Database Payload, added the ability for each file to use additional properties only when explicitly set in the VLOutgoingProperties table. All other settings use the defaults from the host, mailbox, or action. To enable this, set 'Clear.Set.Properties' to 'True' in the VLOutgoingProperties table for each file.
- Added the ability to change the HTTP status code returned when 'Disable Basic Access Authentication for REST API Requests' is turned on.
- Nested ExecuteOn... commands are now supported up to three levels. An example would be an ExecuteOnFail from a failure result of an ExecuteOnCheckConditionsMet (this would be two levels).
- The Generate Report option in the admin web UI Transfers page would previously include only the information viewable from the UI grid. Now all available transfer information, such as file path, is included in the generated report. Also, a report generated from classic mode specifically now includes the file path if it is enabled in the user's group.
- Added the ability to import a P12 certificate through the REST API.
- Improved performance renaming/moving files within the same connector.

### Enhancements - HTTP

- Added a new HTTP 'Save Error Response Content On Put Plus Get' advanced property, which when set on causes the response content from a PUT+GET command request to be saved to the inbox even on error responses.

### Enhancements - SSH FTP

- Added an option to SSHFTP Client host named 'Ignore STAT Errors' which will ignore any FXP\_STAT errors when opening a directory.
- Added system options for limiting client-side SSH FTP cipher, key exchange, mac, and public key algorithms for all client connections. Go to Administration>System>Other in the admin web UI and filter on Protocols to configure regular expressions for each algorithm.
- All negotiated algorithms are now logged at the beginning of each SFTP client and server session.

- Added support for the following SFTP algorithms: Public Key: ecdsa-sha2-nistp256, ecdsa-sha2-nistp384, ecdsa-sha2-nistp521, Key Exchange: ecdh-sha2-nistp256, ecdh-sha2-nistp384, ecdh-sha2-nistp521, and MAC: hmac-sha2-512, hmac-sha2-256-96, hmac-sha2-512-96. The new Public Key algorithms are available on the client side only, while the new Key Exchange and MAC algorithms are available on both client and server side (although server side only applies to VLTrader and Harmony). The new Key Exchange algorithms are not available in FIPS mode.

### **Enhancements - ebMS**

- Added an option to ebXML to modify the format of the Content-Id header.
- Added new ebMS "Allow Incoming Request With Missing Role Element" advanced property, which when enabled allows an incoming request without a role element value to be processed if it otherwise matches a configured ebMS mailbox.

### **Enhancements - OFTP**

- Added a new OFTP host advanced property "Allow Duplicate SFIDs". Setting this property to True allows files with duplicate SFIDs to be accepted and simply log a message if a duplicate is received.
- Added support for configuring EERP timeouts and resends at the OFTP host level through two new advanced properties: 'Async EERP Timeout (minutes)' and 'Async EERP Resends'. If these values are changed from default, they override the values set in the Local Listener. The REST API has been updated with these new properties and the OFTP property 'outgoing.signEerp' was moved to 'outgoing.receipt.sign'.

### **Enhancements - MQ**

- Added support for the following MQ SSL cipher specs: ECDHE\_RSA\_AES\_128\_GCM\_SHA256 and TLS\_AES\_256\_GCM\_SHA384.

### **Enhancements - SMTP**

- Added the ability to configure individual SMTP Proxies to use Start TLS via the property 'Use Start TLS' in the proxy configuration screen. This property defaults to 'True' to match existing functionality.

### **Enhancements - S3**

- Added support for cross-account access using AWS's AssumeRole feature in the S3 Connector.
- Added new S3 connector property, AccessControlList (ACL), for cross-account use. This new property applies the selected ACL permissions on objects PUT to a bucket.

### **Bug Fixes - Framework**

- Fixed an issue where cloning a connector host that has a 'System Scheme Name' defined would break directories using the original connector's 'System Scheme Name'.
- Fixed an issue where failed DocumentDB events on disk could be attempted continuously. These events are now moved to a subfolder to allow for investigation and corrective action
- Fixed an issue where api/resourceFolders endpoint would fail after a change was made to a host through the command line. This would impact the WebUI displaying the hosts.
- Upgraded BouncyCastle library to 1.70 and upgraded JCIFS-NG library to 2.17.
- Fixed a bug where placing & or && after LREPLACE or LDELETE commands would cause the action to fail when run through the REST API.
- Fixed an issue where generating a User certificate with a DSA key would fail.
- Fixed an issue, introduced in 5.7.0.0, where importing a User certificate with a DSA key would fail.



- Fixed an issue where connecting to the WebUI through a HTTP/s port with FIPS mode enabled would cause the web browser to report a cipher error and prevent the page from loading.
- Fixed an issue where updating a host's certificate through REST API would set the host to 'Not Ready' when the certificate is a PGP key-generated certificate.

### **Bug Fixes - AS2**

- Fixed an issue where, if the AS2 Receipt-Delivery-Option header contained a username:password in the URL, it would fail to send the MDN to the trading partner.

### **Bug Fixes - FTP**

- Fixed a problem where, if the FTP AUTH TLS command (or variant) should throw an exception and command retries are in effect, the command would not be re-invoked.
- Fixed an FTPs Active mode issue introduced in 5.7.0.0 where, when the 'SSL Maximum Protocol Version' was set below the new maximum of 'TLS 1.3', it would fail to find an open data port in the specified range or it would fail in SSL negotiation.

### **Bug Fixes - HTTP**

- Fixed an issue where SSL connections could fail with a NullPointerException when SSL Debug was enabled.

### **Bug Fixes - SSH FTP**

- Fixed a potential SFTP server problem where a file stat request would not return a response. This could occur after a file upload, if a file stat request from a client occurred at the same time that the file was deleted or moved by the server.
- Fixed an issue where, if the trading partner's SSH server prematurely closed a client connection during the initial protocol version negotiation, the result could be excessive CPU usage up to the configured connection timeout.
- Cleo Harmony and Cleo VLTrader only: Fixed an issue introduced in 5.6.2.8 where a zero-byte file uploaded through SFTP would not be written to disk.

### **Bug Fixes - Portal**

- Cleo Harmony and Cleo VLTrader only: Fixed an issue with SAML authentication where IDP-initiated login would sometimes fail when using a Chromium-based browser.
- Cleo Harmony and Cleo VLTrader only: Fixed an issue where a user password change through Cleo Portal could be lost if an admin was updating the user's mailbox at the same time.

### **Bug Fixes - File**

- Cleo Harmony and Cleo VLTrader only: In the File connector, for Windows, the DIR command no longer shows inaccessible directories.

### **Bug Fixes - SMB**

- Cleo Harmony and Cleo VLTrader only: Fixed a small memory leak in the SMB connector when sending or receiving an SMB file.
- Cleo Harmony and Cleo VLTrader only: Fixed an issue where the SMB connector would fail when connecting to AS400 IFS SMB shares with the following error: "TreeID is invalid".

- Cleo Harmony and Cleo VLTrader only: Fixed a bug where VersaLex would not start up if FIPS was enabled due to an issue with the SMB connector. Also, fixed an issue with the SMB connector connecting to shares in FIPS mode.

#### **Bug Fixes - AzureBlob**

- Fixed a bug where SFTP transfers would hang if the file was an AzureBlob and the client tried to set the file time.
- Fixed an issue where users would not be able to CD into a subdirectory of an Azure Blob connector when the Azure Blob container was set up as Data Lake Storage.

## Fixed issues in version 5.8.0.1

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### Enhancements - Framework

- Added support for getting/setting all applicable connector host advanced properties through the REST API.

### Enhancements - Portal

- Added support for getting/setting all applicable connector host advanced properties through the REST API.

### Bug Fixes - Framework

- Fixed an issue where the WebUI would fail to launch after a Javascript action was run on Windows.
- Fixed an issue where user mailboxes using LDAP connectors were sometimes counting an extra user against the license. This could potentially cause some licensed mailboxes to be automatically disabled.
- Fixed an issue where the DocumentDB would not start correctly if the system did not have access to the internet. Also, fixed an issue where spaces in the directory path for VersaLex on Windows would cause the DocumentDB to not start.
- Fixed a problem when generating an X509 certificate with or from an OpenPGP keyring where the master key expiration was not being set.
- Fixed a problem when re-receiving a transfer that was locally packaged where the content would be locally packaged a second time (i.e. double encrypted).
- Fixed an issue where including non-ASCII characters in the VLTransfers.ResultText database field could cause the value to be too large for the database. All entries are now truncated to the correct length regardless of included chars.

### Bug Fixes - SSH FTP

- Fixed a problem during diffie-hellman-group-exchange-sha256 key exchange where VersaLex was incorrectly ignoring a reply message, causing the next message read to be unexpected and resulting in an InvalidMessageException.

### Bug Fixes - S3

- Fixed an issue that could cause a BadDigest when uploading files from the S3 connector if the incoming buffer is not divisible by 1024 bytes.

### Security - Framework

- Fixed an issue where clients were able to negotiate elliptical curve ciphers outside of the VersaLex Local Listener settings. Also removed deprecated named elliptical curves from the Local Listener according to RFC 8422. Lastly, VersaLex now honors the existing Local Listener advanced property "SSL Ignore Client Cipher Preference Order" for elliptical curve ciphers as well. Note: VLProxy 3.10.0.1 is required if using VLProxy.

## Fixed issues in version 5.8.0.2

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### Enhancements - SSH FTP

- Added support for ECDSA and Ed25519 algorithms during SFTP key authentication for both client and server connections. ECDSA and Ed25519 keys can be imported or generated, but note that these can only be used with SFTP. Ed25519 is not supported in FIPS mode. Note: VLProxy 3.10.0.2 is required if using VLProxy.

### Bug Fixes - Framework

- Fixed an issue where 'System Scheme Name' property on a connector host would be cleared when syncing to another node.
- Fixed a problem where ExecuteOn for a specific mailbox was being limited to three concurrent execution threads (e.g. ExecuteOnSuccessfulReceive for a user mailbox).

## **Fixed issues in version 5.8.0.3**

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No updates for Cleo LexiCom in this patch release.

## Fixed issues in version 5.8.0.4

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### Enhancements - SSH FTP

- On the SFTP client side, added support for the ssh-ed25519 public key algorithm. This algorithm is not supported in FIPS mode.

## Fixed issues in version 5.8.0.5

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### Enhancements - SSH FTP

- On both the SFTP client and server sides, added support for the rsa-sha2-256 and rsa-sha2-512 public key algorithms. Note: VLProxy 3.10.0.3 is required if using VLProxy.

## Fixed issues in version 5.8.0.6

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### Bug Fixes - Framework

- Fixed an issue where OpenPGP unpackaging could fail depending on the packaged file size.

### Bug Fixes - SSHFTP

- Fixed a problem where a valid regular expression configured for one of the system level Client SSH FTP Pattern properties could cause no client algorithms to be listed at runtime depending on which algorithms match the regular expression.



## Fixed issues in version 5.8.0.7

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### Bug Fixes - Framework

- Fixed an issue where a CA store certificate that was previously browsed and selected for configuration (e.g. OpenPGP encryption/signature verification certificate) was not being properly re-selected for the same configuration when re-browsing.

## Fixed issues in version 5.8.0.8

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### Enhancements - Framework

- Removed a warning message that would appear when sending bundled Database Payload and setting the property 'Clear.Set.Properties' in the VLOutgoingProperties table.

## **Fixed issues in version 5.8.0.9**

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No updates for Cleo LexiCom in this patch release.

## Fixed issues in version 5.8.0.10

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### Enhancements - RNIF

- Added support for CIDX (Chemical Industry Data eXchange). CIDX can be enabled in an RNIF host by selecting 'RNIF Version' v1.1 and selecting the 'CIDX' checkbox. A new 'Incoming content format', MIME, has been added which will store the incoming MIME data instead of just the service content. A new Advanced property, Save Received Ack As Payload, has also been added. Enabling this property will copy the Received Ack into the Inbox and Receivedbox.



**Note:** VLProxy 3.10.0.7 is required if using VLProxy.