

Release Notes: IBM Aspera Faspex 4.3.1 for Linux

Product Release:

Release Notes Updated: October 9, 2019

This release of IBM Aspera Faspex 4.3.1 for Linux provides the new features, fixes, and other changes listed below.

NEW FEATURES

Out-of-File Validation

- IBM Aspera High Speed Transfer Server (HSTS) nodes configured in Faspex can integrate with IBM Aspera Validator to provide out-of-file validation on transfers. Validator can be configured to validate files on any HSTS node using regular file storage, including nodes in an Highly Available environment.

Sender Quotas

- Sender-based quotas limit the total number of bytes sent by an untrusted sender to untrusted recipients in the current rolling period. User accounts with emails in configured whitelisted domain names are exempt from the quota. Admins can configure quota limits for individual users.
- Packages sent via the API are also calculated as part of sender quotas.

Transfers

- Faspex supports retries for failed uploads to relay destinations.

Configuration

- You can set the `LiveUpdateInterval` YAML option in `faspex.yml` to control the frequency that Faspex updates lists of packages and relays.
- Added global option to prevent users from downloading a package before the transfer completes (**Server > Configuration > Transfer Options > Enable downloads during transfers**).
- You can use the `SSLCAFile` YAML option in `faspex.yml` to point Faspex to your own CA certificates instead of using the built-in certificates.
- You can set the `HideRelayInformation` YAML option in `faspex.yml` to hide relay information on the Package Information page. (CIM-1843)
- Added new email templates to Faspex to notify users when package validation fails.

API

- Faspex API now returns `transfer_request_id` as part of the session output received when using the Faspex SDK `PackageController:show` method. ()

System

- Improved page-loading speed of the File Storage tab.
- Moved Stats Collector logs to `/opt/aspera/faspex/log`.
- Renamed Faspex services to use the IBM Aspera brand.
- Faspex now supports SUSE 15.
- Updated Apache version to 2.4.39.
- Removed `TLSv1` and `TLSv1.1` from the list of supported SSL protocols.
- Removed Perl dependency for Faspex installer. (CIM-1974)
- Added AWS to supported cloud providers for cloud referencing. (CIM-2078)
- Implemented the `health_check_light` URL to pass on Faspex server status to load balancers. (CIM-2670)

BREAKING CHANGES

If you are upgrading from a previous release, the following changes in this release may require you to adjust your workflow, configuration, or usage.

- Customers using a remote database must use MySQL 5.7.x and set the `@global.sql_mode` and `@session.sql_mode` to `STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,NO_AUTO_CR` (CIM-2449)

DOCUMENTATION UPDATES

Added note to Sender Quota Overview that Faspex tracks all data usage in the current period, including data sent when sender quotas were not yet enabled.

Added information to Sender Quota Overview on Faspex's polling frequency when calculating a user's remaining available data.

Added `UseApachePortsForHttpFallback` to YAML configuration reference.

Removed unimplemented `GET /api/dropboxes/{dropbox_id}/packages/` endpoint from documentation. (CIM-2310)

Documented IBM Aspera Validator integration with Faspex.

Refreshed documentation on serving Connect locally. (CIM 2210, CIM-1964)

Removed system requirements section from the guides. For system requirements information, refer to the System Requirements section of the release notes.

Faspex HA documentation now instructs users to upgrade HST Server. (CIM-2247)

Added instructions for configuring ADFS with Faspex. (CIM-1788)

Added instructions for converting PFX certificates to PEM format. (CIM-1873)

Added instructions for using signed SAML authentication requests.

Clarified behavior of the direct upload feature for custom inboxes.

Refreshed documentation for outside submission expiration settings. (CIM-2208)

Documented response codes for the Faspex health-check page. (CIM-1842)

Added instructions for upgrading an HA environment from a version prior to Faspex 4.2.0. (CIM-2248)

Refreshed documentation on email notification template types.

Fixed error in Partition Mongrel Processes between Faspex and Cargo. (CIM-2106)

ISSUES FIXED IN THIS RELEASE

FASPX-1333 - Faspex does not account for data sent during the period in the current window when sender quotas were disabled.

FASPX-1332 - Faspex allows user-level quota overwrite when global quota is set to **Enabled**.

FASPX-1325 - The Faspex SDK client does not accept the Faspex v4 API `get_transfer_spec` controller error message format.

FASPX-1309 - The Faspex v4 API does not support requesting `transferSpecs` for specific paths.

FASPX-1306 - Faspex v4 API does not create a user when called from the Java Client SDK v3.21 using the `createUser()` function.

FASPX-1285 - Faspex v4 API does not create a user when called from the Java Client SDK v3.21 using the `createUser()` function.

FASPX-1206 - The download link for IBM Aspera Connect in the Faspex welcome email is broken. (CIM-2543)

FASPX-1106 - Package from a Faspex version before 4.0.0 are inaccessible after upgrading to Faspex 4.2.1 and later. (CIM-2359)

FASPX-1076 - The Max Length option for the text-field, metadata type does not allow entries that are equal to the max length. (CIM-2239)

FASPX-1020 - Some email notifications fail to deliver with "can't convert nil into String" error. (CIM-2093)

FASPX-966 - The `aspera_db_space_watcher` service generates world-writable PID and log files. (CIM-2081)

FASPX-965 - The `/users` endpoint response does not include user emails. (CIM-2082)

FASPX-945 - When you view a Faspex package in Drive's remote view (that is, within a file browser), if the package contains folders, you cannot open the folders. This is the case for Inbox, Sent, and Archived packages.

FASPX-944 - Running `asctl --trace faspex:setup` fails every time at the "Creating/Verifying database configuration..." step. (CIM-2044)

FASPX-911 - Some Faspex logs and temporary files were world-writable.

Note: To adopt new file permissions after upgrade, all previous logs must be modified or deleted.

(CIM-1996)

FASPX-905 - The `RecipientShareIds` field uses case-insensitive match. (CIM-1924)

FASPX-869 - Faspex does not send email notification when new users submit self-registration applications. (CIM-1898)

FASPX-858 - Faspex fails to import Active Directory user with Czech character sets. (CIM-1862)

FASPX-850 - The `MEMBER_ATTRIBUTE_REGEX` variable is missing.

FASPX-724 - When a package is sent to a workgroup with a custom inbox set up, and the **Upload directly to custom inbox** option is not selected, the transfer status page shows the transfer to the default inbox, but not the transfer to the custom inbox. If the **Upload directly to custom inbox** option is selected, the transfer status page shows the transfer to the custom inbox.

SYSTEM REQUIREMENTS

IBM Aspera High-Speed Transfer Server: 3.7.0-3.9.1 with Connect Server license

IBM Aspera Common Components: 1.1.31

IBM Aspera Connect: 3.8.0-3.9.6

Memory: 8 GB RAM

Database: MySQL 5.7 with `@global.sql_mode` and `@session.sql_mode` set to

`STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,NO_AUTO_CREATE`

Linux: RedHat 6-7, CentOS 6-7, SLES 11.4, 12.3, 15

Browsers: Internet Explorer 11, Microsoft Edge 18, Firefox 57-64, Safari 11-12, Google Chrome 64-71

(Faspex users can successfully access Faspex from any of these browsers on any OS, as long as the browser and OS are also supported by Connect)

Drag-and-Drop Support

Faspex supports the dragging and dropping of files and folders for transfer, but this support varies by platform and browser. See the table below for details on how this release of Faspex supports drag-and-drop in your environment:

Browser	Windows Client	Mac OS X Client	Linux Client
Firefox	Files and folders	Files and folders	Drag-and-drop not supported
Chrome	Files and folders	Files and folders	Drag-and-drop not supported

Browser	Windows Client	Mac OS X Client	Linux Client
IE 11	Files	N/A	N/A
Edge	Drag-and-drop not supported	N/A	N/A
Safari	N/A	Files and folders	N/A

KNOWN ISSUES

Transfers

- FASPX-1216 - Transfers of folders with a space at the end of the folder name fail with "No such file or directory" error. (CIM-2559)
- FASPX-847 - When Faspex uses a node running High-Speed Transfer Server version 3.8.0, if a package is created from a remote source with "enable linking" selected and the package is a symbolic link, then the package size that is reported is the size of the symbolic link, not the symbolic link's target. (CIM-1267)
- FASPX-352 - Faspex transfers cannot be resumed if the Connect is closed and relaunched, even after restarting the web page and the Connect Plug-In. (CIM-632)

Sender Quotas

- FASPX-1237 - Sender quotas do not take into account uploads made using symlinks or cloud referencing.

HTTP Gateway

- FASPX-777 - Files with Unicode characters in their file names uploaded using HTTP gateway are corrupted on download and are 0 KB.
- FASPX-635 - When a user downloads a package with two or more files using the HTTP Gateway service, Faspex reports the package as partially downloaded. If package storage expiration options relying on package download confirmation were enabled for the package, Faspex does not count the partial download as download confirmation and will not delete the files. **Workaround:** Delete packages manually after all users or any user downloads the package.

System

- FASPX-983 - In specific cases, handling Stats Collector exceptions prevents Faspex from updating transfers in tables and from sending email notifications about those transfers. **Workaround:** See Troubleshooting Faspex: Resetting Stats Collector Database. (CIM-2075)
- FASPX-375 - SUSE 11 UI installation for Faspex and Common fails when using the UI to install. **Workaround:** Install using the command line and the rpm -Uvh command.

PRODUCT SUPPORT

For online support, go to the IBM Aspera Support site at <https://www.ibm.com/mysupport/>. To open a support case, log in with your IBMid or set up a new IBMid account.