



# Release Notes for Release Dovecot Pro 2.2.25.5

---

## 1. Shipped Products and Versions

Dovecot Pro 2.2.25.5

Including; Object Storage Plug-In

## 2. Important Changes and Bugs fixed since previous Public Release

### 2.1. Dovecot Pro Core

- **CHANGE:** mail-crypt-plugin upgrade
  - Upgrade mail-crypt-plugin to use the new lib-dcrypt.
- **CHANGE:** Legal Interception support for plug-in
  - Legal interception support for Utimaco interfaces.
    - Implemented Utimaco X1 server and X3 submission client protocols.
- **CHANGE:** doveadm\_api\_key should be masked in doveconf output
  - doveconf: Hide any \_api\_key
- **BUG:** Panic: Leaked t\_pop() call
  - **FIX:** Fix attachment counting
    - Return from inside T\_BEGIN/T\_END is not allowed
- **BUG:** When fscache operation fails for any reason, backend should just bypass fscache instead of failing
  - **FIX:** If fscache fails on Dovecot backend for example due to fscache partition being full, all IMAP and LMTP operations start failing. Instead fscache should just be disabled/bypassed
    - fs-fscache: Don't fail writes even if file can't be written to fscache.

- fs-fscache: fs\_prefetch() works now even when fscache isn't writable.
- **BUG:** imap-hibernate crashes or fails after un-hibernation
  - **Errors:**
    - Panic: file index-status.c: line 130 (index\_storage\_get\_open\_status): assertion failed: (status\_r->recent <= status\_r->messages)
    - Error: imap-master: Failed to import client state: Message count mismatch after handling expunges
    - Error: Message UIDs CRC32 mismatch
  - **FIX:** Fix un-hibernation
    - imap: Fixed expunge handling when un-hibernating
- **BUG:** doveadm mailbox commands segfault if sql dict quota empty
  - **FIX:** lib-dict: Discard result when callback is NULL on async call
- **BUG:** doveadm quota recalc returns a Segmentation fault with sql dict
  - **FIX:** lib-dict: Discard result when callback is NULL on async call
- **BUG:** POP3 UIDL migration fails for servers that return different mail header responses for imap and pop3
  - **FIX:** pop3-migration-plugin: Add to index after successful retry
    - Also change return value to indicate that the hash has been assigned to header.
  - **FIX:** imapc: mail\_get\_stream() shouldn't return cached hdr\_size
- **BUG:** stats: Error: FIFO input error: CONNECT: Duplicate session ID for user service imap
  - **FIX:** imap: When hibernating, wait for old imap process to cleanup before creating new ones.
- **BUG:** Metacache worker crashes after "Timeout leak"
  - **FIX:** lib-metacache: Fixed running metacache\_user\_set\_latest\_bundle() in non-main ioloop.
- **BUG:** POP3 UIDLs weren't preserved in migration
  - **FIX:** obox: mailbox\_update() shouldn't reset pop3-uidl header.
    - This broke reading migrated POP3 UIDLs.
- **BUG:** auth crashes with core if auth\_policy is enabled upon small stress test
  - **FIX:** auth-policy: Ref/unref auth request
    - If auth\_request is not referenced it can go away before HTTP response is handled.
- **BUG:** dsync crashes with SIGSEGV when pop3\_migration\_mailbox is not defined
  - **FIX:** pop3-migration: Fixed crash when not specifying pop3\_migration\_mailbox setting.

- **BUG:** Cached message size smaller than expected
  - **FIX:** zlib-plugin: Check that UID is assigned
    - When caching, code has to check whether UID is assigned to avoid reusing cache for different emails being saved since they all have UID = 0 before they are actually committed.
- **BUG:** LMTP crashes when connecting over UNIX socket for delivery when service `lmtp { user=root }` was explicitly specified
  - **FIX:** `lmtp`: Always read settings before dropping privs
    - If `lmtp` is ran explicitly as root, settings were not read.
- **BUG:** `doveadm stats dump global` gives wrong output if `auth_stats=yes`
  - **FIX:** `stats`: Fix user login counters
    - Before we would count all users twice, because the same counters would get increment in both `CONNECT` and `ADD-USER`. Now we do not increment them at all on `ADD-USER`.
- **BUG:** `dict-async` logs unnecessary "took x seconds" warnings
  - **FIX:** `quota`, `last-login`: Disable "slow dict commit" warnings
- **BUG:** `ioloop assert-crash` in certain situations
  - **FIX:** `lib`: Update `ioloop` attributes
    - With pending IO, the `ioloop` attributes still need updating, instead of just returning.
- **BUG:** Dovecot Proxy pipelines `ID` and `LOGIN` commands pre-login even if `proxy_nopipelining=y` is set
  - **FIX:** `imap-login`: Honor `nopipelining` during preauth

## 2.2. Object Storage Plug-in

- **BUG:** `doveadm force-resync '*'` fails
  - **FIX:** `obox`: Moved `mail_storage.inconsistent` to `mailbox.inconsistent`.
    - The inconsistency gets cleared when a mailbox is reopened. Most importantly this fixes `doveadm force-resync '*'`
- **BUG:** customer cannot access mail — Metadata header is missing ending line at offset 0
  - **FIX:** `fs-fscache`: If read detects a corrupted cached file, delete it.
- **BUG:** `fscache.log` not updated correctly
  - **FIX:** `fs-fscache`: After writing to `fscache`, get file's size with `fstat()` This guarantees that it won't fail with `ENOENT` and it guarantees that we add the file to `fscache.log`. This is required, because another process could have just deleted the file and removed its space from `fscache.log` even before we finished adding it there. If we didn't add it there ourself now, `fscache.log` would be inconsistent.

- **FIX:** fs-fscache: Fixed race condition between cache file size lookup and deletion.
  - The problem happened when:
    - stat() returned ENOENT for file
    - another process finished creating the cache file
    - we did fs\_delete(), which now succeeds, but fscache.log removal is donewith size=0
  - So we no longer do fs\_delete() if the size lookup returned ENOENT. This way fscache.log won't become inconsistent.
  - This also changes stat() to lstat()
- **FIX:** fs-fscache: Allow fscache.log total size to become negative.
  - This happens when processes A & B have a race condition:
    - fscache.log total size=0
    - A: create cache file size=123 (but not written to fscache.log yet)
    - B: delete cache file, removing it from fscache.log -> total size=-123
    - A: add file to fscache.log -> total size=0
- **BUG:** metacache disk space usage grows beyond metacache\_max\_space
  - **FIX:** bundle.\* files were getting leaked, which caused potentially a lot of wasted (and untracked) disk space for them: lib-metacache: Downloaded bundle files weren't always deleted.
  - **FIX:** Metacache cleaning fixes:
    - metacache: Send FLUSH instead of UPLOAD before cleaning user. UPLOAD only uploads important changes, not everything. This causes cleaning to fail.
    - metacache: Cleaning now starts flushing changed users if needed. If metacache\_upload\_interval was high, the cleaning wouldn't do any work because all the users were in "changed" state. With this change the cleaning dynamically figures out how many users need to be flushed to get enough disk space and it tells idle-uploader to do that.

### 2.3. Full Text Search Plug-in

- **BUG:** File fts-expunge-log.c: assertion failure caused an assertion crash
  - **FIX:** replace assertion crash with warning:
    - fts - replace i\_assert under \_expunge\_log\_subtract with warning (API change)
    - In particular - do not assert crash when this is seen - it has been seen on live test systems where file corruption seems to have occurred. As this can only be associated with corrupt fts indexes, seeing this error implies that the whole FTS index should be rebuilt for that user.
- **BUG:** FTS didn't work with fs-crypt
  - **FIX:** dencrypt: Allow stream prefetch

### 3. Tests

The Dovecot QA team has successfully verified all bug fixes that could be reproduced within a lab environment.

To avoid side effects, the shipped packages have gone through automated regression test on both, a Continuous Integration System and a dedicated server setup for system and integration testing.

All changes have been checked for potential side-effects and effect on behavior. Unless explicitly stated within this document, we do not expect any side-effects.