

Fix 6 / Unlock PDF

Gate A Production Test Report

Test date: September 29, 2026 UTC

Production commit: 5adbbb2a717f65af4e4ba1d47511cca6421a10f9

Runtime: PyMuPDF 1.26.7

Purpose

Document the observed production behavior used as evidence for the public Unlock PDF page. The tests used synthetic PDFs and the live upload, Unlock PDF API, BullMQ worker, job-status API, and public download route.

Authorization observations

Job 720: valid user/open password on an encrypted PDF without restrictive owner permissions completed. The worker reported authorization=user-unrestricted.

Job 721: a permissions-only PDF supplied with an arbitrary wrong password failed as required.

Job 722: a PDF with restrictive owner permissions supplied only with its user password failed and required the owner password.

Job 723: the same restricted PDF supplied with the owner password completed. The downloaded output reopened without a password and reported unrestricted permissions.

Output and structure checks

The downloaded job 720 output reopened without a password, reported no encryption, retained two pages, retained page rotations of 0 and 90 degrees, retained selected document metadata, and retained the embedded attachment from the synthetic source.

These observations describe the controlled synthetic sample. They are not a guarantee that every PDF structure, viewer, encryption configuration, form, annotation, accessibility feature, or attachment will behave identically.

Password handling

Unlock PDF is not a zero-knowledge design. The password must reach the server so the source PDF can be authenticated. For jobs 720 through 723, persisted BullMQ job data was checked after worker claim and showed passwordRedacted=true with no plaintext password field. The worker passes the in-memory password to Python through standard input rather than a command-line argument.

File retention

Uploaded PDFs and generated outputs become eligible for scheduled cleanup after 60 minutes. The janitor runs on a five-minute interval, so deletion is not guaranteed at the exact 60-minute mark.

Live acceptance hashes

Open-password source SHA-256:

62ec133fb9079ad4f2f2f270fb6b2603bc58342d486ce8b61a2d065d25e78393

Job 720 unlocked output SHA-256:

c4ee573b40be9e0e4ba979d1d5611d2c8a0f3a3ff5d2e792eedceada667f7a65

Restricted source SHA-256:

11fc8c956531bb411f54c86c4735d382b375b41dd7649a5b76ec6705735981dd

Job 723 owner-authorized output SHA-256:

02c94799c6d6d385a276e45303d786451c9928afb80a1bd4474ce4ef3c0d11

Gate A acceptance summary SHA-256:

fd5a55b666ca6c765ca96c4a03d40ad5f7447c194d0e65cf7c16999331af01ea

What this test does not claim

This report does not claim zero-knowledge processing, exact 60-minute deletion, universal structure preservation, password recovery, password cracking, batch processing, legal or regulatory compliance, or that every PDF can be safely rewritten.

Signed and already-unlocked files

The hardened worker refuses PDFs containing a digital-signature indicator because rewriting a signed PDF can invalidate the signature. It also refuses already-unencrypted PDFs instead of producing a redundant copy.

Synthetic test password

The published encrypted synthetic source uses the test user/open password: user-open-2026. This password is intentionally public evidence and must not be reused for real documents.

Review note

Keep the original encrypted PDF until the unlocked copy has been opened and reviewed. Verify page count, rotations, forms, links, annotations, attachments, metadata, accessibility, and other structures relevant to the workflow.