FLUX WIKI CHANGELOG

CHRONOLOGICAL RECORD OF ALL PROTOCOL DECISIONS, INFRASTRUCTURE CHANGES, AND VERSION RELEASES IN THE FLUX ARCHIVE SYSTEM.

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FLUX_WIKI_v2.0

JUNE 2026

FLUX DOCUMENTATION SYSTEM Layer 9 — GOVERNANCE | changelog
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CHANGELOG

A complete chronological record of protocol decisions, infrastructure changes, and version releases.

All dates are in ISO 8601. All decisions are final unless explicitly marked DEPRECATED or PROPOSED.

v1.0 — ARCHIVE LAUNCH

Released: 2026-05-13

Protocol

— `FRAMES_PER_ISSUE = 36` locked as a protocol constant in `flux_constants.py`. Comment added: "Do not change without updating all dependent scripts." This value is immutable.

— Canonical filename convention established: `YYYY-MM-DD_HH-MM-SS_PhotographerName_OriginalFilename.JPG`. Separator between date-time block and photographer name is underscore. Separator between photographer name and original filename is underscore. Timestamp uses hyphens within date (`YYYY-MM-DD`) and hyphens within time (`HH-MM-SS`), with underscore between date and time blocks (not ISO 8601 `T`).

— Contact sheet grid locked: 6×6 = 36 cells. One cell per frame. Grid is square.

— Manifest format locked: 2 columns × 18 rows = 36 entries per manifest page.

PDF Standard

— PDF structure locked at 44 pages total. Page assignments:

— Page 1: front cover

— Page 2: blank (IFC — inside front cover)

— Page 3: protocol page

— Page 4: blank

— Pages 5–40: 36 photographs (one per page)

— Page 41: parity pad

— Page 42: contact sheet (6×6 grid)

— Page 43: manifest (2 columns × 18 rows)

— Page 44: blank back cover

— Total page count: 44. This is a protocol constant.

Infrastructure

— S3 namespace defined: personal photos stored at `photos/` prefix, thumbnails at `thumbs/`, personal issues at `FLUX_ISSUES/`.

— S3 bucket: `flux-dantesisofo`. CloudFront distribution: `E1QJZ6W1R67CZD`.
— Site live at `flux.dantesisofo.com`.

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v1.1 — PUBLIC CATALOG

Released: 2026-05-14

Protocol

— CAT_NNN namespace established. Public catalog identifiers (`CAT_001`, `CAT_002`, ...) are separated from personal archive identifiers (`FLUX_001`, `FLUX_002`, ...). The two namespaces do not overlap and never will.
— `catalog.json` established as the single source of truth for all public catalog entries. All catalog reads and writes go through this file.

Infrastructure

— `publish_submission.py` created. Implements the full public submission pipeline:
— Receive submission ZIP
— Validate ZIP contents (exactly 36 JPEGs, valid filenames, valid EXIF)
— Extract and rename photographs to canonical filename format
— Generate FLUX PDF (44 pages, full protocol structure)
— Upload PDF and photographs to S3
— Update `catalog.json`
— Return CAT_NNN identifier to submitter
— `FLUX_CATALOG/` S3 prefix established for all public catalog assets. This prefix is distinct from `FLUX_ISSUES/` used for personal archive issues.
— Public catalog generator launched: any photographer can generate a FLUX issue from their own photographs without creating an account.

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v1.2 — PHYSICAL CALIBRATION

Released: 2026-05-15

PDF Standard

— Gutter compensation added to physical PDF generation. Inner margins on spread pages are shifted to account for saddle-stitch binding. Calibrated against physical output on Brother laser printer. Gutter offset is hardcoded in `generate_flux_issue.py`.
— Physical print pipeline tested end-to-end: PDF generation → print → fold → staple. Human stapling confirmed as final assembly step. No automated stapling.

Infrastructure

— Auto-generation trigger implemented in `approve_worker.py` via `_maybe_trigger_build()`. Logic: when the count of unassigned approved photographs in the queue reaches `FRAMES_PER_ISSUE` (36), `issue_builder_worker.py` is spawned as a detached subprocess. The trigger fires at exactly 36. It does not fire at 35.

— File lock at `/tmp/flux_issue_builder.lock` prevents duplicate builder runs. If the lock file exists when the trigger fires, the new build is skipped. The lock is released when the builder process exits normally or abnormally.

— `issue_builder_worker.py` confirmed as the canonical auto-generation entry point.

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v1.3 — CATALOG STABILITY

Released: 2026-05-19

Infrastructure

— **Bug fixed:** `_next_catalog_id()` was computing the next catalog ID by reading `max(catalog.json entries) + 1`. This was incorrect because `catalog.json` was not always current with S3. The bug caused new entries to reuse existing CAT IDs, overwriting previous catalog records.

— **Fix applied:** `_next_catalog_id()` now scans S3 `FLUX_CATALOG/` folder prefixes directly (`ListObjectsV2` with `Delimiter='/'`) to determine the highest existing `CAT_NNN/` prefix. The computed next ID is `max(existing_prefixes) + 1`. `catalog.json` is not consulted for ID generation.

— **Bug fixed:** `_save_catalog()` was writing `catalog.json` to local disk only. S3 upload was deferred and sometimes skipped. This created divergence between local and S3 state.

— **Fix applied:** `_save_catalog()` now uploads `catalog.json` to S3 immediately on every write, before returning. S3 is always current.

— **Bug fixed:** `_load_catalog()` was preferring local disk over S3. If local disk was stale, stale data was used for all subsequent operations.

— **Fix applied:** `_load_catalog()` now loads both local and S3 versions. Whichever version has more entries is used. The local disk version is updated to match S3 after load.

Recovery

— CAT_002 and CAT_003 were overwritten by the `_next_catalog_id()` bug. Both entries were recovered from S3 object versioning (S3 versioning was enabled on the bucket). S3 versioning is confirmed as a safety net for the catalog.

— Catalog integrity audit performed. All 18 entries verified: CAT_001–CAT_018.

— Igor Krivokon (Edgelands) = CAT_017. James B (San Antonio) = CAT_018. Both entries confirmed.

Protocol

— Catalog count as of 2026-05-19: 18 entries (CAT_001–CAT_018).

v2.0 — DOCUMENTATION ARCHITECTURE

Released: 2026-05-20

Documentation

— FLUX_WIKI restructured from a flat collection of pages to an 8-layer protocol documentation system (FLUX_WIKI v2.0). Layer assignments established. Each document assigned to a layer, layer_order, and global order.

— New layer added: INTELLIGENCE (Layer 5). `intelligence.md` created as layer overview. Intelligence subdocuments created: `embeddings.md`, `keeper-model.md`, `metadata-enrichment.md`, `autonomous-sequencing.md`, `training-data.md`.

— New layer added: GOVERNANCE (Layer 9). `changelog.md`, `decisions-log.md`, `versions.md` created.

— New layer added: OPEN SOURCE (Layer 10). `open-source.md` created.

— `generate_wiki.py` updated: `LAYER_ORDER` list extended to 10 layers.

Infrastructure

— **Hardware ordered 2026-05-20:**

— Apple Mac mini M4 Pro — designated compute node for all FLUX processing, PDF generation, and ingest pipeline

— Synology NAS — primary storage, 2x mirrored IronWolf drives. NAS becomes the canonical archive root.

— Storage architecture formalized:

— NAS = canonical archive root (primary, mirrored)

— Mac mini = compute node (processing, no primary storage)

— S3 = public distribution (CloudFront CDN, public access)

— NAS folder structure defined:

```
/FLUX_ARCHIVE/     — full photographic corpus (~400,000 frames + keepers)
/FLUX_SYSTEM/      — scripts, configuration, code
/FLUX_PUBLIC/      — public-facing assets mirrored to S3
/FLUX_METADATA/    — SQLite database, manifests, CSV exports
/FLUX_EMBEDDINGS/  — vector database files
/FLUX_ISSUES/      — generated PDF issues (personal archive)
/FLUX_LOGS/        — all system and process logs
/FLUX_INBOX/       — incoming photographs for processing
```

— Personal archive status: ~400,000 Ricoh JPEGs on SanDisk SSD with EXIF intact. ~15,000 keeper images in chronological folder structure. Both to be migrated to NAS on arrival.

— Personal issue count as of 2026-05-20: 423+ issues (FLUX_001–FLUX_423+).

v2.1 — PROTOCOL STABILIZATION

Released: 2026-05-25

Protocol

— **36-frame standard reaffirmed as permanent.** DECISION-001 and DECISION-009 confirmed as binding. `VALID_ISSUE_LENGTHS` reverted to `[36]` in `flux_constants.py` and `generate_flux_issue.py`.

— 24-frame PDF support was introduced as experimental code but was never ratified as a protocol change. It has been removed. The wiki pages stating 36 as the locked standard were correct throughout.

— The FLUX Dispatch (24-frame thermal accordion) remains documented as a historical and conceptual object. It is not a FLUX issue format. There is no generator path for it.

— `FRAMES_PER_ISSUE = 36` is immutable. The contact sheet grid is 6×6. The PDF is 44 pages. The manifest is 2 columns × 18 rows. None of these change.

Code

— `flux_constants.py`: `VALID_ISSUE_LENGTHS` reverted from `[24, 36]` to `[36]`

— `generate_flux_issue.py`: local `VALID_ISSUE_LENGTHS` reverted from `{24, 36}` to `{36}`

— `flux_portal/portal_generator.py`: stale comment `# 36→44, 24→32` corrected to `# 36→44`

— `flux_portal/project_generator.py`: stale comment `# 36→47, 24→35` corrected to `# 36→47`

— `flux_portal/app.py`: API docstring corrected to reflect 36-only constraint

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SEE ALSO

Document	Layer	Relationship
DECISIONS LOG	Layer 9 — Governance	RFC-style record of canonical protocol decisions
VERSIONS	Layer 9 — Governance	Version numbering reference and locked-version semantics
ROADMAP	Layer 8 — Roadmap	Forward-looking development timeline
BOOTSTRAP	Layer 4 — Infrastructure	Phased implementation plan with hardware context
PROTOCOL	Layer 2 — Protocol	The core protocol that all versions extend

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