

Regulatory Submission Packet Integrity and Publication Framework

Overview

This document defines the structural and cryptographic integrity strategy for the suite of repositories supporting the Micron regulatory evidence system. The core deliverable, currently represented by the `submission-packet` repository, is the formal, self-contained output of a broader development and evidence curation ecosystem composed of several cooperating Git repositories. The framework is designed to be cryptographically verifiable, version-controlled, and suitable for direct delivery to regulatory or legal authorities (e.g., SEC, EEOC, DOL).

System of Repositories

1. `micron-casefile`

- **Purpose:** Primary coordination layer
- **Contains:** Submodules (e.g., `submission-packet`, `emails-private`, `addenda-private`)
- **Functionality:** Top-level scripts for SHA-256 digests, submodule SHA capture, and repo meta integrity

2. `micron-casefile-builder`

- **Purpose:** Build and composition environment
- **Contains:** `submission-packet` as a submodule
- **Functionality:** Converts SoT `.odt` files under `build/` into formal PDFs, populates `submission-packet/`

3. `submission-packet`

- **Purpose:** Finalized, immutable regulatory/legal artifact
- **Structure:**

```
submission-packet/  
├─ 01_Cover_Statement.pdf  
├─ 02_Addendum_SeaphAntelmi.pdf  
├─ ...  
├─ E1/ E2/ ...  
└─ Makefile, gen-sha256-evidence.sh
```

- **Submodules:** None

- **Verification tooling:** Embedded Makefile and SHA-256 validation utilities

SHA-256 Strategy

Scope

SHA-256 hashes are used to: 1. **Fingerprint the repository** (current HEAD commit) 2. **Track file-level integrity** (via `sha256sum`) 3. **Capture submodule SHAs** from the container repository 4. **Sign results using GPG** for cryptographic authenticity

File Outputs

In `micron-casefile/`: - `hashes/repo_sha256_hashes.txt` - HEAD SHA - submodule SHAs - optional hash of `.gitmodules` - `hashes/files_sha256_hashes.txt` - SHA for all tracked files (excluding history) - `hashes/exhibits_sha256_hashes.txt` - SHA for all files under `submission-packet/` - GPG signatures: `.asc` files for each of the above

Source of Truth

- `submission-packet/` **is authoritative** once populated.
- Source `.odt` assets in `micron-casefile-builder/` are used to derive PDFs, but only the PDFs and folder hierarchy in `submission-packet/` are part of the regulatory payload.

Validation Tools

1. `submission-packet/Makefile`

Provides targets: - `make` or `make help`: Shows usage - `make hash`: Generates SHA-256 digests for all files - `make sign`: Signs hash file with configured GPG key - `make verify`: Verifies hash integrity against regenerated hashes - `make clean`: Removes hash and signature artifacts

2. `micron-casefile/gen-sha256-top-level.sh`

Captures HEAD commit, submodule states, and hashes the `.gitmodules` file. This validates repo-level integrity and allows a complete fingerprinting of state.

Directory Strategy

Current

- `submission-packet/` represents a **single regulatory body** (e.g., SEC).

Future-Proofing Option A: Directories Inside

```
submission-packet/
├── SEC/
```

```
|— DOL/  
|— EEOC/
```

Future-Proofing Option B: Dedicated Directory

```
_submission_packets/  
|— SEC/  
|— EEOC/  
|— DOL/
```

Each of these could become submodules if independently released.

Recommended Practices

- Always GPG sign hash files.
- Ensure `submission-packet`'s Makefile and top-level tooling produce reproducible outputs.
- Use the SHA files and their `.asc` signatures as the external verifiability backbone.
- Do not hash `.git` or submodule internals unintentionally.

Example Verification Workflow

```
cd submission-packet  
make clean  
make hash  
make sign  
make verify # Ensures everything matches
```

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Wolfmind IP and Integrity Protection Template

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Conclusion

This SHA-256 and repository topology strategy ensures: - Cryptographic auditability - Source and artifact separation - Transparent submodule tracking - Clear regulatory deliverable packaging

It is extensible, robust, and tailored for a multi-agency, multi-phase compliance pipeline.