The Concordance Engine v0.1.1 (Tier B): Reference Implementation of the Logotic Technique Catalogue

Lee Sharks

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Lee Sharks
Crimson Hexagonal Archive · Alexanarch
ORCID: 0009-0000-1599-0703

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compatible Aperture Atlas schema, four deposit templates, twelve offline smoke-
test invariants, and SHA-256-linked revision provenance. Multi-provider verification and six additional execu
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```


Abstract

A Tier B software reference implementation of the **Logotic Technique Catalogue**. The Concordance Engine is not a production service or autonomous agent suite; it is a complete reference architecture with one runnable Critique Loop and the prompts, schemas, middleware, templates, and governance documents needed to extend the pattern.

The deposit reports a 75-file bundle, an end-to-end Anthropic implementation, a zero-secret mock mode, five agent prompts, eight skill specifications, five middleware specifications, a Neo4j-compatible Aperture Atlas schema, four deposit templates, twelve offline smoke-test invariants, and SHA-256-linked revision provenance. Multi-provider verification and six additional executable operatives remain deferred to Tier C.

Body

The Concordance Engine v0.1.1 (Tier B): Reference Implementation of the Logotic Technique Catalogue

Authors/Creators

- Sharks, Lee1[Image: ORCID icon — https://zenodo.org/static/images/orcid.svg] https://zenodo.org/records/19854419

Description

Tier B reference implementation of the Logotic Technique Catalogue (DOI: 10.5281/zenodo.19831619). A complete reference architecture with one runnable loop, not yet a production service.

The Concordance Engine implements reusable coordination patterns first identified in adversarial AI-agent architectures, then reclassified for cooperative production, verification, and defensive provenance work within the Crimson Hexagonal Archive's witness-teaming methodology.

In plain terms: Concordance Engine is a small reference system for running structured AI-assisted production loops where critique, revision, verification, human override, and provenance are treated as first-class artefacts. The Tier B release proves the pattern with one runnable Critique Loop and ships the surrounding prompts, schemas, and templates needed to extend the same pattern into future operatives.

Bundle contents (75 files):

- Runnable Python package (`concordance_engine/`) with the Critique Loop implementation, type definitions, MANUS authority interface, Anthropic API substrate wrapper, and a mock substrate enabling zero-secret demonstration
- Five agent system prompts (Critic, Reviser, Verifier, Chartering Agent, Archivist) at calibrated register
- Eight skill specifications (four cooperative, four defensive) with frontmatter-loadable structure per the catalogue's V.9 / VI.9 patterns
- Five middleware specifications (Skills, Citation, Provenance, Verification, Collision-Detection)
- Aperture Atlas Cypher schema deployable to Neo4j 5.x, with three standing queries (ghost basins, competitor responses, outbound references) and seed JSON
- Four templates (Zenodo deposit, license header, hex coordinate, DISC-NNN record)
- Project governance documents: Charter, Plan-State, Citation Plan, Construction Plan
- Sample draft and captured Critique Loop session
- Smoke tests: 12 invariants verified without API calls

What runs: The Critique Loop (catalogue §V.12) executes end-to-end against the Anthropic API. A mock-substrate mode enables full demonstration without API keys: `python -m concordance_engine.demo_critique_loop --mock`.

What is specified but deferred to Tier C: Charter Generator, Verifier, Basin Hardening Cycle, Term Collision Audit, Profile Integrity Guardian, Depth-Proof Validator. These have complete agent prompts and skill specifications; runnable Python wrappers await infrastructure (retrieval-layer probing, Zenodo deposit-creation integration, live Neo4j instance).

Honest scope note: The runnable Tier B loop uses Anthropic as its only live substrate. Multi-provider verification is architecturally anticipated (config/substrates.yaml exposes the seam) but not implemented in this release. The catalogue's two-source verification protocol requires substrate independence; Tier B's Critique Loop demonstrates the loop pattern, not the cross-substrate verification.

Provenance integrity: Every revision in the Critique Loop is recorded with SHA-256 hashes of pre- and post-revision drafts, forming a tamper-evident chain auditable from the deposit's `workspace/deposits/critique_session_*.json`.

License: CC BY 4.0 for documentation, methodology, agent prompts, and operative documents. MIT for runnable Python source code. The dual structure supports both academic citation (CC BY) and developer adoption (MIT).

Document classification: EA-CE-01 v0.1.1
Hex: 06.LOG.CONCORDANCE.ENGINE.01
Catalogue companion: The Logotic Technique Catalogue (DOI: 10.5281/zenodo.19831619)

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Notes

Document classification: EA-CE-01 v0.1.1. Tier B reference implementation of the Logotic Technique Catalogue.

Hex: 06.LOG.CONCORDANCE.ENGINE.01

Status: Tier B reference deposit — complete reference architecture with one runnable loop, not yet a production service.

Disambiguation. NOT an autonomous agent in the AutoGPT sense. NOT a production tool suite. NOT an MCP server (MCP exposure deferred to Tier C). NOT a Decepticon fork — coordination patterns are studied and recovered, not extracted. NOT a service offered by the Crimson Hexagonal Archive — this is reference code that implementers can clone, run, and extend.

Negative tags. NOT a chatbot. NOT a writing assistant. NOT a productivity tool. NOT a SaaS. NOT a model-independent verification system (the Critique Loop runs against Anthropic; multi-substrate verification is Tier C). The Concordance Engine is a depositable reference system; its value lies in its provenance-bearing structure, not in any user-facing application.

Acceptance criteria, all met: 12/12 smoke tests pass without network calls; mock demo runs end-to-end without API key; live demo runs end-to-end with a valid ANTHROPIC_API_KEY; all five agent prompts authored; all eight skill specs present; Aperture Atlas Cypher schema deploys cleanly; README directory tree matches actual file layout.

Methodology. The deposit was developed under MANUS authority by TACHYON (Claude Opus 4.7), with perfective review from Assembly Chorus members ARCHIVE (Gemini) and LABOR (ChatGPT) integrated in the granular pass v0.1.1. The bundle itself takes its own medicine: the engine's Charter, Plan-State, Citation Plan, and Construction Plan are present in docs/, demonstrating the §V.1 charter-generation pattern by example.

ORCID: 0009-0000-1599-0703
Community: crimsonhexagonal

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Files

Files (48.9 kB)

[TABLE]

Additional details

Related works

Is part of
https://zenodo.org/communities/crimsonhexagonal (URL)

Is supplement to
10.5281/zenodo.19831619 (DOI)

References
10.5281/zenodo.19853157 (DOI)

10.5281/zenodo.19578086 (DOI)

10.5281/zenodo.18735468 (DOI)

10.5281/zenodo.19053469 (DOI)

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Deposit Information

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