

Core Emotion Framework (CEF): Phase 4 Master Index

Canonical Index of All Phase-4 Documents, Dependencies, and Architecture
Version 1.0 — Finalized

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Status: Phase-4 Completion Document

0. Purpose

The Phase-4 Master Index provides:

- a complete list of all Phase-4 documents
- the canonical dependency graph
- the architectural relationships between TS-Series, EL-Series, and computational layers
- the publication-ready structure of the CEF canon
- the formal declaration that Phase 4 is complete (pending KG ingestion of EL-1 v1.0)

This index introduces **no new emotional constructs**.

It is a structural, integrative, and archival document.

1. Phase-4 Overview

Phase 4 establishes the **computational and semantic foundation** of the CEF:

- full computational ontology
- full reasoning engine
- full knowledge graph architecture

- full population & integration pipeline
- full English emotional lexicon (500 terms)
- canonical overview document (TS-0)

Phase 4 transforms the CEF from a conceptual model into a **machine-operational emotional architecture**.

2. TS-Series Documents Completed in Phase 4

TS-0 — Canon Overview Document

Defines the structure, purpose, and dependencies of the entire canon.

TS-18 — Computational Ontology

Defines all entities, relations, parameters, and constraints.

Appendices:

- A: JSON-LD Schema
- B: RDF/OWL Classes
- C: Node/Edge List
- D: Validation Rules
- E: Validated Instances

TS-19 — Reasoning Engine Architecture

Defines inference logic and computational reasoning.

Appendices:

- A: Inference Ruleset
- B: Reasoning Engine Pseudocode
- C: Inference Walkthroughs

TS-20 — Knowledge Graph Architecture

Defines the graph structure, node/edge families, and constraints.

Appendices:

- A: Serialization Formats
- B: Query Language Specification

- C: Graph Validation Rules

TS-21 — Population & Integration Specification

Defines ingestion, normalization, instantiation, inference enrichment, and update validation.

Appendices:

- A: Population Pipeline Pseudocode
 - B: Integration Examples
 - C: Update Validation Rules
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3. EL-Series Documents Completed in Phase 4

EL-1 — Core English Emotional Lexicon

A complete, drift-free, TS-6-aligned emotional lexicon.

Versions included in Phase 4:

- v0.1 — 10-term seed lexicon
- v0.2 — 50-term expanded lexicon
- v0.3 — 120-term lexicon
- v0.4 — 200-term lexicon
- v1.0 — 500-term full lexicon (canonical edition)

All versions are cumulative and historically stable.

4. Canonical Dependency Graph

Foundational Architecture (TS-1 → TS-11)

Defines operators, facets, centers, transitions, modulation, and structural rules.

Dynamic Architecture (TS-12 → TS-17)

Defines stability, prediction, load dynamics, flow dynamics, plasticity, governance.

Computational Architecture (TS-18 → TS-21)

Defines ontology → reasoning → graph → population.

Semantic Architecture (EL-Series)

Defines lexical mapping to facets and operators.

Integrative Layer (TS-0 + Master Index)

Defines the canon's structure and publication map.

5. Publication Map

TS-Series (Complete through TS-21)

All documents from TS-0 through TS-21 are finalized.

EL-Series (Volume 1 Complete)

EL-1 v1.0 is complete and ready for KG ingestion.

Computational Artifacts

- JSON-LD context
- RDF/OWL ontology
- KG schema
- validation rules
- example instances

Practitioner Manuals (PM-Series)

Not part of Phase 4, but fully supported by Phase-4 outputs.

6. Phase-4 Completion Criteria

Phase 4 is considered **complete** when all of the following are true:

A. TS-18 → TS-21 are complete

✓ Completed

B. EL-1 v1.0 is complete

✓ Completed

C. TS-0 is complete

✓ Completed

D. Phase-4 Master Index is complete

✓ Completed (this document)

E. EL-1 v1.0 is ingested into the CEF-KG

☐ **Pending — final operational step**

This is the *only* remaining action.

7. Final Step Before Phase 5

Integrate EL-1 v1.0 into the Knowledge Graph (TS-21 final step)

This involves:

- creating 500 LexicalEntry nodes
- mapping each to a facet via mapsToFacet
- attaching symbolicRepresentation
- attaching vectorRepresentation
- attaching metadata
- validating the graph
- storing the updated KG

Once this is done:

Phase 4 = 100% complete.

8. Canonical Status

The Phase-4 Master Index is the authoritative structural summary of all Phase-4 outputs.

It is subordinate only to:

- Core Essence Document
- TS-0

And it governs:

- TS-1 → TS-21
- EL-1 v1.0
- all computational appendices
