

Core 7 Architecture & Orchestration Audit

Comprehensive audit compiled from the inspected Runtime-C/Core7 filesystem, sandbox runs, factory manuals, worker prompts, stage tooling, reports, and architecture artifacts.

Executive Overview

Core7 functions as the orchestration layer responsible for coordinating multi-worker generation, validation, merge, regression review, promotion, and publication. It sits above the worker lanes and below Runtime-C scheduling.

EILA OS
POWERED BY
CORE 7
AGENTIC CORE ENGINE

Core7 is the advanced intelligence engine at the heart of EILA OS. Seven specialized agents operate in perfect harmony to perceive, reason, act, and evolve—relentlessly optimizing every outcome.

CORE 7 ARCHITECTURE

XYZ LABS
THE FUTURE WAS LAST WEEK.

BUILT FOR AUTONOMY

- Seamless Multi-Agent Coordination
- Real-Time Adaptation & Learning
- Parallel Execution Across All Systems
- Self-Optimizing & Self-Healing
- Secure. Private. Uncompromising.

01 SENTINEL
Perception Agent

Ingests and interprets real-time data from all sources. Detects patterns, anomalies, and opportunities.

02 ANALYTIC
Reasoning Agent

Deep analysis engine that reasons across context, identifies relationships, and derives insights.

03 STRATEGIST
Planning Agent

Decomposes goals into actionable strategies. Simulates outcomes and allocates optimal resources.

04 EXECUTOR
Execution Agent

Carries out actions across all systems with precision, speed, and reliability.

05 ADAPT
Learning Agent

Continuously learns from results. Refines models and strategies to improve over time.

06 WATCHTOWER
Monitoring Agent

Monitors all systems, agents, and external conditions. Triggers alerts and ensures optimal performance.

07 EVO
Adaptation Agent

Monitors the environment and system state. Reconfigures strategies and agent behavior in real-time to ensure resilience and edge.

INTEGRATED WITH EILA OS

The operating system for autonomous intelligence.

OVERSIGHT. INTELLIGENCE. CONTROL.

CORE7 SYSTEM SPECS

AGENTS	7 Core Agents
ARCHITECTURE	Parallel Multi-Agent
EXECUTION	Asynchronous
LEARNING	Continuous
MEMORY	Vector + Graph
CONTEXT WINDOW	Unlimited*
UPTIME	24/7 Autonomous
STATUS	OPERATIONAL

CORE7 CAPABILITIES

- Autonomous Decision Making
- Multi-Agent Collaboration
- Real-Time Data Processing
- Predictive Analytics
- Automated Execution
- Self-Optimizing Systems
- Continuous Learning Loop

HOW CORE7 WORKS

- SENTINEL gathers data from all inputs.
- ANALYTIC reasons and generates insights.
- STRATEGIST builds optimal plans.
- EXECUTOR acts with precision.
- WATCHTOWER monitors and validates.
- ADAPT learns and improves.
- EVO evolves the system for the future.

SEVEN AGENTS. ONE PURPOSE. TOTAL AUTONOMY.

TECH STACK

- LangDB (On Base) Vector Search & AI Memory
- SQL Structured Data Layer
- Edge Graphs Relationship & Flow Mapping
- SuperBase Real-Time Backend & Auth
- On-Chain Integration Multi-Network Connectivity

PERFORMANCE OVERVIEW

- DECISION LATENCY < 120ms
- ACCURACY RATE 98.7%
- TASK SUCCESS RATE 99.3%
- SYSTEM EFFICIENCY 96.2%

OVERSIGHT
Real-Time Analysis Across All Systems

INTELLIGENCE
Real-Time Analysis, Infinite Context

CONTROL
Determines, Automates, Executes

EVOLVE
Learn, Adapt, Improve, Evolve

SECURE
Privacy by Design, Zero Compromise

EILA OS
POWERED BY CORE 7

Primary Responsibilities

- Coordinate six specialized workers (WA–WF).
- Maintain deterministic build execution.
- Collect worker packets.
- Merge outputs.
- Produce proof artifacts.
- Execute regression and quality gates.
- Promote approved product families.
- Maintain reports and finalized products.

Worker Roles

Observed worker ecosystem:

WA: HTML generation

WB: CSS generation

WC: JavaScript generation

WD: Product Manifest generation

WE: Regression Proof

WF: Operator Review

These correspond directly with the inspected manuals and prompt files.

Filesystem Layout

Observed directories include:

- finalized/
- finalized/reports/
- finalized/reviewed-products/
- indexes/
- sandbox/
- sandbox/candidates/
- sandbox/reports/

Candidate Workspace System

Inspection revealed dozens of timestamped candidate workspaces including smoke tests, validation runs, restaurant demos, CRM shells, SQL demonstrations, and deterministic validation projects. Each candidate has a corresponding JSON report preserved under sandbox/reports.

Observed Build Types

Examples include:

- Betty's Buns Bakery
- Big Balls Bowling
- Bob's Burgers
- Billy's Roast Beef
- Tony's Tacos
- Sally's Salon
- Two Guys Grill

- SQL City
- Factory SQL
- Switchboard CRM Shell
- Operator UI
- Smoke Tests
- Core7 Validation

Execution Flow

1. Buildsheet accepted.
2. Runtime-C resolves Pod.
3. Core7 coordinates worker execution.
4. WA-WF produce artifacts.
5. Streams and receipts recorded.
6. Merge performed.
7. Regression and quality validation.
8. Reports finalized.
9. Promotion into reviewed products.

Evidence Generated

Observed evidence includes worker packets, stream logs, prompts, LLM receipts, telemetry, lineage, merge reports, manifests, operator review cards, regression proof, TPS reports, metrics, and final artifacts.

Integration With Runtime-C

Core7 interacts closely with runtime-c-runner, runtime-c-finalize-merge, runtime-c-core7-review, runtime-c-promote-family, quality gates, telemetry writers, and publication tools.

Strengths

Deterministic execution, isolated candidate workspaces, preserved audit trail, reproducible outputs, modular worker specialization, artifact traceability, structured reporting.

Technical Debt

Inspection indicates duplicated historical snapshots, quarantine copies, legacy paths, multiple generations of build tooling, and opportunities to consolidate authority and reduce storage footprint.

Recommended Future Work

Generate architecture DAGs, normalize filesystem roots, document every worker packet format, map every tool dependency, separate production and archive content, create release bundles, and build automated architectural documentation.

Worker Matrix

Worker	Primary Output	Evidence
WA	HTML	PROMPT_WA, LLM_RECEIPT_WA, WA.jsonl
WB	CSS	PROMPT_WB, LLM_RECEIPT_WB, WB.jsonl
WC	JavaScript	PROMPT_WC, LLM_RECEIPT_WC, WC.jsonl
WD	Product Manifest	PROMPT_WD, Receipt, Manifest
WE	Regression Proof	Regression documentation
WF	Operator Review	Operator review card

Overall Assessment

Based on the inspected filesystem, Core7 is substantially more than a review script. It serves as a production coordination and validation layer tying together Runtime-C execution, multi-worker generation, merge, proof production, regression analysis, and promotion. The preserved candidate history and reporting structure indicate a design optimized for reproducibility and auditability.