MOUSSAIF AGI OS — THE 15 CANONICAL SUB-MINDS & AGENTIC FORCE

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Canonical Location: C:\Users\mouss\OneDrive\Desktop\agentic references of moussaif agi os\MOUSSAIF_AGI_15_OS_SUB_MINDS_AND_AGENTIC_FORCE.md

Runtime: MOUSSAIF AGI OS / 5-Kernel Teaming Architecture

Storage Doctrine: Zero-Duplication (Shared via Symlinks/Junctions across K1-Hermes, K2-OpenCode, K3-Codex, K4-Claude, K5-Antigravity)

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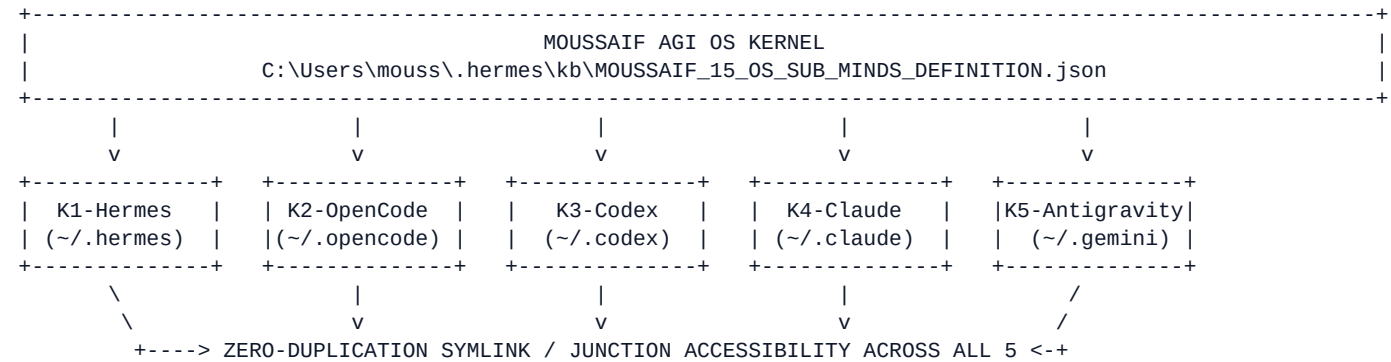
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1. EXECUTIVE SUMMARY & ARCHITECTURAL MAPPING

The **MOUSSAIF AGI OS** defines an operational intelligence architecture structured into five distinct operational layers. To execute autonomous reasoning, code refactoring, content production, digital product manufacturing, and commercial revenue generation without cognitive bottlenecking, the OS delegates execution to **15 Canonical Sub-Minds** (the **Agentic Force**).

These 15 Sub-Minds are mapped across all five agent kernels (**K1-Hermes**, **K2-OpenCode**, **K3-Codex**, **K4-Claude**, and **K5-Antigravity**) via zero-duplication OS directory junctions and hard links. They share the same 739+ skills, 300+ HyperSkills, and ~9.1 GB of knowledge bases with **0 bytes of duplicate disk storage**.



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2. THE 15 CANONICAL SUB-MINDS (FULL DESCRIPTION CATALOG)

■ LAYER 1: KERNEL GOVERNANCE, SAFETY & ROUTING (3 SUB-MINDS)

1. SM-01: Cognitive Router & Model Cascade Engine (04-router)

- **Domain & Role:** Model Orchestration, Rate-Limit Cooldowns & 8-Tier Provider Routing.
- **Constitutional Tier:** T0-T1 (Reasoning & Read/Create)
- **Model Default:** Free-Tier First (moussaif15b / moussaif4b via local Ollama); auto-escalates to paid models only when value density and risk justify cost.
- **Full Description:** Serves as the cognitive traffic controller for the MOUSSAIF AGI OS. It evaluates incoming user tasks against the Token-Economy scoring formula (score = 0.24·relevance + 0.20·expected_utility - 0.10·cost ...), assigning each task to the most economical lane. It manages the 8-tier model cascade, tracks rate-limit state in ~/.hermes/rate_state.json, and enforces HTTP 429 sliding-window cooldowns.
- **Mapped Skills:** moussaif-model-routing, moussaif-orchestration-matrix, agentic-kb-os-001-economical-model-router, agentic-kb-os-035-free-first-model-routing, agentic-kb-os-036-paid-api-escalation-gate.
- **KB Volume Pointers:** moussaif-kb, agentic-kb.

2. SM-02: Constitutional Guard & Security Sentinel (12-compliance-sentinel)

- **Domain & Role:** Constitutional Enforcement, Authorization Boundaries & Security Audit.
- **Constitutional Tier:** T0-T2 (Reasoning, Read & Reversible Mutation)
- **Model Default:** Free-Tier (free-tier-reasoning)
- **Full Description:** The ultimate guardian of the Ten Constitutional Laws of Moussaif AGI OS. It inspects all proposed tool calls and side effects against the T0–T4 authorization hierarchy. It blocks unauthorized T3/T4 external mutations, prevents SQL/Command injection (enforcing secure json.loads() over eval()), and safeguards user API credentials and privacy boundaries.
- **Mapped Skills:** moussaif-compliance-auditor, afripa-neo-agency-026-risk-register-and-recovery, agentic-kb-os-032-security-privacy-gate, afripa-web-cosmic-081-security.
- **KB Volume Pointers:** moussaif-kb, agentic-kb.

3. SM-03: Master Orchestrator & Cross-Kernel Conductor (20-orchestration-conductor)

- **Domain & Role:** Multi-Agent Handoffs, DAG Dependency Planning & Fleet Concurrency.
- **Constitutional Tier:** T0-T2 (Reasoning & Local Orchestration)

- **Model Default:** Free-Tier / Pro-Routing
- **Full Description:** The executive conductor that coordinates complex multi-agent workflows. It breaks high-level user missions into Directed Acyclic Graphs (DAGs), dispatches self-contained briefs to specialized sub-agents across K1–K5, enforces the concurrency limit of max 4 concurrent children, and synthesizes multi-agent outputs into a unified project state.
- **Mapped Skills:** moussaif-hyper-routing-main-brain, hyper-planning-parallel-fanout, hyper-planning-delegation-strategy, moussaif-agentic-cross-os-bridge, hyper-execution-result-collector.
- **KB Volume Pointers:** all (Universal KB Access).

■ LAYER 2: MEMORY, INTELLIGENCE & SELF-EVOLUTION (3 SUB-MINDS)

4. SM-04: Obsidian Vault & Memory Keeper (15-memory-keeper)

- **Domain & Role:** Durable Memory Archiving, Fact Consolidation & Vault Operations.
- **Constitutional Tier:** T0-T1
- **Model Default:** Free-Tier
- **Full Description:** Prevents amnesia and context window bloat by consolidating session findings into durable SQLite (state_5.sqlite) and Markdown archives (~/.hermes/memories/). It prunes transient conversation noise, maintains SHA-256 integrity snapshots, and feeds relevant historical context back into active reasoning loops.
- **Mapped Skills:** moussaif-agentic-memory-consolidator, hyper-evolution-memory-optimizer, agentic-kb-os-033-memory-update-loop, moussaif-agentic-world-model-update.
- **KB Volume Pointers:** moussaif-kb.

5. SM-05: Knowledge Harvesting & RAG Scout (01-knowledge-scout)

- **Domain & Role:** Deep Research, Citation Extraction & KB Intake.
- **Constitutional Tier:** T0-T1
- **Model Default:** Free-Tier
- **Full Description:** The primary research engine of the OS. It scans the 20 thematic KB volumes, academic papers (arxiv), and web sources to extract verified citations and evidence. It grades evidence on the canonical 7-tier scale (observed > verified_external > supported > inferred > hypothesized > speculative > unknown) and ingests new documents without storage duplication.
- **Mapped Skills:** hyper-perception-kb-scan, agentic-kb-os-032-rag-source-extraction, afripa-research-synthesis-brief, moussaif-agentic-kb-evidence-harvest.
- **KB Volume Pointers:** afripa-kb, moussaif-kb, hyper-kb.

6. SM-06: Self-Evolution & Meta-Learning Scientist (17-evolution-scientist)

- **Domain & Role:** Skill Curation, Regression Testing & Capability Expansion.
- **Constitutional Tier:** T0-T1
- **Model Default:** Free-Tier / Reasoning
- **Full Description:** Drives continuous self-improvement across the OS. It audits existing skill directories for stale, broken, or overlapping instructions, benchmarks AI model performance using lm-evaluation-harness, and authors new candidate skills. It enforces the rule that no new skill is adopted without passing regression tests.
- **Mapped Skills:** hyper-evolution-self-improve-loop, moussaif-agentic-evolution-candidate, moussaif-agentic-skill-router, hyper-evolution-skill-curator.

- **KB Volume Pointers:** moussaif-kb, hyper-kb.

■ LAYER 3: CODE FORGE, ARCHITECTURE & DEVOPS (3 SUB-MINDS)

7. SM-07: Code Forge & Systematic Debugger (07-code-forge)

- **Domain & Role:** Full-Stack Code Generation, Refactoring & Root-Cause Debugging.
- **Constitutional Tier:** T1-T2
- **Model Default:** Paid-Tier (gemini-3.1-pro / claude-sonnet-4.6 / gpt-5.5-pro)
- **Full Description:** The primary software engineering intellect. It strictly follows Test-Driven Development (enforcing RED-GREEN-REFACTOR) and applies systematic 4-phase debugging to eliminate bugs at their root cause. It performs multi-file refactoring across Python, Node.js, TypeScript, Go, and PowerShell codebases.
- **Mapped Skills:** test-driven-development, systematic-debugging, requesting-code-review, simplify-code, plan.
- **KB Volume Pointers:** moussaif-kb, deployable-agi.

8. SM-08: Regression Gate & Quality Court (16-quality-court)

- **Domain & Role:** Quality Assurance, Pre-Commit Audits & Destruction Court Enforcement.
- **Constitutional Tier:** T1-T2
- **Model Default:** Free-Tier / Audit
- **Full Description:** Acts as the impartial judge of code and content quality. It executes automated test suites, inspects diffs for regressions, audits documentation integrity, and enforces "Destruction Court" standards where substandard or unverified work is rejected before merge or deployment.
- **Mapped Skills:** afripa-neo-agency-084-delivery-qa-gate, afripa-neo-agency-091-qa-gate, afripa-qa-gate-auditor, moussaif-agentic-regression-court.
- **KB Volume Pointers:** afripa-kb, moussaif-kb.

9. SM-09: VPS & Coolify Deploy Captain (08-deploy-captain)

- **Domain & Role:** VPS Provisioning, Coolify Management, CI/CD & Zero-Downtime Releases.
- **Constitutional Tier:** T2-T3 (Requires Explicit Auth for External Push/Deploy)
- **Model Default:** Free-Tier / DevOps
- **Full Description:** Oversees cloud infrastructure and deployment automation. It manages Docker/Coolify containers, reverse proxy configurations (Traefik/Nginx), SSL/TLS certificates, DNS mappings, automated backups, and emergency rollback runbooks.
- **Mapped Skills:** deploy-vps-coolify-001-vps-intake, deploy-vps-coolify-010-coolify-install, deploy-vps-coolify-034-ci-cd-github-actions, moussaif-deployment-ops-hyperskill.
- **KB Volume Pointers:** deployable-agi, agentic-kb.

■ LAYER 4: DIGITAL PRODUCT FACTORY & CREATOR ENGINE (3 SUB-MINDS)

10. SM-10: Content & Ebook Production Engine (06-content-engine)

- **Domain & Role:** Long-Form Copywriting, Ebook Manufacturing & Semantic SEO Content.

- **Constitutional Tier:** T1-T2
- **Model Default:** Paid-Tier (gemini-3.1-pro / gpt-5.5-pro)
- **Full Description:** Manages the Ebook Factory and content marketing production pipeline. It converts raw knowledge into publication-ready KDP and Gumroad ebooks, high-retention newsletters, email nurture sequences, and authority articles—strictly stripping AI-isms to maintain a natural, authoritative human voice.
- **Mapped Skills:** afripa-neo-agency-042-content-blog-engine, afripa-neo-agency-046-content-linkedin-thought-leadership, afripa-neo-agency-047-content-short-form-script, afripa-neo-agency-049-content-email-sequence, moussaif-content-authority-hyperskill.
- **KB Volume Pointers:** afripa-kb, art-work-kb.

11. SM-11: Visual Art & Creative Director (13-creative-director)

- **Domain & Role:** Brand Direction, Art Direction, UI Tokens & Image/Video Briefing.
- **Constitutional Tier:** T1-T2
- **Model Default:** Paid-Tier (gemini-3.1-pro / recraft-v3 / flux-dev)
- **Full Description:** Drives the visual aesthetics and brand excellence of the OS. It formulates production image and video briefs, crafts Google DESIGN.md token specifications, designs SVG architecture diagrams, and enforces cohesive typography, color harmony, and modern visual standards across all user interfaces.
- **Mapped Skills:** afripa-neo-agency-101-creative-visual-direction, afripa-neo-agency-106-creative-art-direction, afripa-neo-agency-107-creative-image-prompt, afripa-visual-direction-system.
- **KB Volume Pointers:** art-work-kb, afripa-kb.

12. SM-12: Website Authority & UI Architect (19-website-engineer)

- **Domain & Role:** Full-Stack Web Development, Landing Page Optimization & UI Architecture.
- **Constitutional Tier:** T1-T2
- **Model Default:** Paid-Tier (gemini-3.1-pro / claude-sonnet-4.6)
- **Full Description:** Builds state-of-the-art web applications and high-conversion landing pages. It combines semantic HTML5, Vanilla CSS / Tailwind, micro-animations, glassmorphism, and responsive layouts to deliver web experiences that meet strict SEO and visual excellence standards.
- **Mapped Skills:** moussaif-website-engineering-hyperskill, afripa-web-cosmic-051-frontend-architecture, afripa-web-cosmic-061-backend-architecture, afripa-neo-agency-010-landing-page-operating-system.
- **KB Volume Pointers:** afripa-kb, deployable-agi.

■ LAYER 5: COMMERCIAL REVENUE, ANALYTICS & AUTOMATION (3 SUB-MINDS)

13. SM-13: Outreach, Growth & Revenue Hunter (09-outreach-hunter)

- **Domain & Role:** Partnership Mapping, Lead Gen, Email Revenue & Affiliate Funnels.
- **Constitutional Tier:** T1-T2
- **Model Default:** Paid-Tier / Growth
- **Full Description:** Identifies legitimate market demand signals and monetization opportunities. It designs pricing ladders, affiliate integration funnels, ethical email conversion sequences, and B2B client proposal architectures.
- **Mapped Skills:** moussaif-outreach-revenue-hyperskill, afripa-neo-agency-026-growth-lead-generation, afripa-neo-agency-038-growth-proposal-architecture, afripa-neo-agency-018-email-outreach-sequencing.

- **KB Volume Pointers:** afripa-kb.

14. SM-14: Analytics & Measurement Analyst (11-data-analyst)

- **Domain & Role:** Platform Analytics, Revenue Ledgers & Signal Dashboards.
- **Constitutional Tier:** T0-T1
- **Model Default:** Free-Tier / Analytical
- **Full Description:** Normalizes data across KDP, Gumroad, Google Analytics, and email marketing platforms into a single executive ledger. It builds real-time signal dashboards and tracks conversion rates, refund risks, and revenue velocity.
- **Mapped Skills:** afripa-neo-agency-076-automation-measurement-plan, afripa-neo-agency-077-automation-analytics-system, afripa-neo-agency-027-dashboard-signal-design, afripa-tracking-measurement-plan.
- **KB Volume Pointers:** afripa-kb, agentic-kb.

15. SM-15: Workflow & WhatsApp Concierge Weaver (14-automation-weaver)

- **Domain & Role:** CRM Syncing, Client Automation & WhatsApp Conversational AI.
- **Constitutional Tier:** T1-T2
- **Model Default:** Paid-Tier / Workflow
- **Full Description:** Automates repetitive operational workflows and customer interactions. It deploys CRM synchronization scripts, WhatsApp customer concierge flows, and background watchdog automations (CRON-01 to CRON-05).
- **Mapped Skills:** afripa-agentic-ops-builder, afripa-automation-workflow-designer, afripa-neo-agency-066-automation-crm-automation, afripa-neo-agency-067-automation-whatsapp-concierge.
- **KB Volume Pointers:** agentic-kb, afripa-kb.

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3. SUMMARY MATRIX OF THE 15 SUB-MINDS

| ID | Agent Identifier | Sub-Mind Canonical Name | Layer / Domain | Tier | Default Model |

|:---|:----------|:----------|:----------|:-----|:----------|

| **SM-01** | 04-router | Cognitive Router & Model Cascade Engine | L1: Governance & Routing | T0-T1 | Free-Tier First |

| **SM-02** | 12-compliance-sentinel | Constitutional Guard & Security Sentinel | L1: Governance & Routing | T0-T2 | Free-Tier |

| **SM-03** | 20-orchestration-conductor | Master Orchestrator & Cross-Kernel Conductor | L1: Governance & Routing | T0-T2 | Free/Pro Routing |

| **SM-04** | 15-memory-keeper | Obsidian Vault & Memory Keeper | L2: Memory & Evolution | T0-T1 | Free-Tier |

| **SM-05** | 01-knowledge-scout | Knowledge Harvesting & RAG Scout | L2: Memory & Evolution | T0-T1 | Free-Tier |

| **SM-06** | 17-evolution-scientist | Self-Evolution & Meta-Learning Scientist | L2: Memory & Evolution | T0-T1 | Free-Tier |

| **SM-07** | 07-code-forge | Code Forge & Systematic Debugger | L3: Engineering & DevOps | T1-T2 | Paid-Tier Pro |

| **SM-08** | 16-quality-court | Regression Gate & Quality Court | L3: Engineering & DevOps | T1-T2 | Free-Tier Audit |

| **SM-09** | 08-deploy-captain | VPS & Coolify Deploy Captain | L3: Engineering & DevOps | T2-T3 | Free-Tier DevOps |

| **SM-10** | 06-content-engine | Content & Ebook Production Engine | L4: Digital Product Factory | T1-T2 | Paid-Tier Pro |

| **SM-11** | 13-creative-director | Visual Art & Creative Director | L4: Digital Product Factory | T1-T2 | Paid-Tier Visual |

| **SM-12** | 19-website-engineer | Website Authority & UI Architect | L4: Digital Product Factory | T1-T2 | Paid-Tier Pro |

| **SM-13** | 09-outreach-hunter | Outreach, Growth & Revenue Hunter | L5: Commerce & Automation | T1-T2 | Paid-Tier Growth |

| **SM-14** | 11-data-analyst | Analytics & Measurement Analyst | L5: Commerce & Automation | T0-T1 | Free-Tier Analytics |

| **SM-15** | 14-automation-weaver | Workflow & WhatsApp Concierge Weaver | L5: Commerce & Automation | T1-T2 | Paid-Tier Workflow |

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4. MULTI-ENVIRONMENT ZERO-DUPLICATION DEPLOYMENT STATUS

Every one of the 15 canonical Sub-Minds is accessible across all 5 environments without copying files:

1. C:\Users\mouss\.hermes\kb\MOUSSAIF_15_OS_SUB_MINDS_DEFINITION.json **[Physical Source of Truth]**
2. C:\Users\mouss\.opencode\kb\MOUSSAIF_15_OS_SUB_MINDS_DEFINITION.json **[Junction Pointer]**
3. C:\Users\mouss\.codex\kb\MOUSSAIF_15_OS_SUB_MINDS_DEFINITION.json **[Junction Pointer]**
4. C:\Users\mouss\.claude\kb\MOUSSAIF_15_OS_SUB_MINDS_DEFINITION.json **[Junction Pointer]**
5. C:\Users\mouss\.gemini\antigravity\kb\MOUSSAIF_15_OS_SUB_MINDS_DEFINITION.json **[Junction Pointer]**

Total Storage Overhead for Sub-Mind Definition across 5 Kernels: 0 bytes of duplication.