MOUSSAIF AGI OS — MASTER COMPREHENSIVE ARCHITECTURE & DEPLOYMENTS MEGA REPORT

The Authoritative 0-Loss Technical Compendium of Kernel Layers, Sub-Minds, Hyperloops, Skills, and Universal Project Synchronization across K1-K5 — Generated on July 27, 2026

> **0-Loss High-Density Architecture Doctrine:** This Master Comprehensive Compendium combines all historical and recent component overviews, architecture layers, agent definitions, hyperloop runbooks, skill catalogs, and deployment manifests into one authoritative reference. Formatted with high-density tables for maximum precision, zero word-fluff, and zero information loss.

1. The 5-Kernel Teaming System & Zero-Duplication Storage Architecture

The MOUSSAIF AGI OS operates across 5 independent runtime kernels linked to a canonical physical storage root at `C:/Users/mouss/.hermes` via Windows NTFS Junctions (`mklink /J`). This guarantees **0 bytes of duplicate storage overhead** while enabling real-time cross-kernel state synchronization.

Kernel ID	Runtime Name	Physical / Junction Path	Primary Engine / Model	System Role & Responsibility
K1-Hermes	Master Orchestrator	`C:/Users/mouss/.hermes` (CANONICAL ROOT)	Ollama / `moussaif15b` / GPT-5.5 Pro	Master task dispatch, cron scheduling, KB indexing, skill evolution, & memory ledger.
K2-OpenCode	Implementation Engine	`C:/Users/mouss/.opencode` (NTFS Junctions)	GPT-5.5 Pro / OpenCode CLI	Fast full-stack implementation, multi-file editing, terminal execution, diff analysis.
K3-Codex	Git & Automation Engine	`C:/Users/mouss/.codex` (NTFS Junctions)	OpenAI Codex CLI / stdio bridge	Automated PR reviews, TDD test loops, CI/CD repair, branch management.
K4-Claude	QA & Documentation Gate	`C:/Users/mouss/.claude` (NTFS Junctions)	Claude Code CLI / ACP bridge	Deep reasoning, architectural documentation, QA Destruction Court verification.
K5-Antigravity	Agentic Coding Studio	`C:/Users/mouss/.gemini/antigravity` (NTFS)	Gemini 3.1 Pro High (AI Pro)	Complex web/UI app generation, multi-repo refactoring, visual design systems.

2. Complete 5-Layer OS Stack Architecture

Layer #	Layer Name	Core Components & Paths	Functional Role & Quality Gates
Layer 1	**Constitutional & Kernel Router Layer**	`~/.hermes/kb/antigravity-os-kernel.md` `~/.hermes/kb/gateway-bridge-os.md`	Enforces T0–T4 Authorization Tiers, FATTAH Reasoning Loop, and port 8443 local Gateway routing.
Layer 2	**Knowledge Base (HyperKB) Layer**	`~/.hermes/kb/` (23 Core KBs + 400MB Global KB) `AFRIPA KB/` (Desktop Root)	Durable state-of-the-art doctrine, intent signals, deliverability rules, marketing supremacy, and pricing math.
Layer 3	**Skills & HyperSkills Layer**	`~/.hermes/skills/` (739+ Core Skills, 300 HyperSkills, 40 Gap Skills)	Modular step-by-step procedures with YAML frontmatter, input/output validators, and anti-slop filters.
Layer 4	**Hyperloops Orchestration Layer**	`~/.hermes/hyperloops/` **115 Canonical Hyperloops (HL-01 to HL-115)**	End-to-end 5-phase operational runbooks combining KBs, Skills, and Agents into autonomous pipelines.
Layer 5	**Sub-Mind Agentic Force Layer**	`~/.hermes/agents/` **19 Canonical Sub-Mind Agents**	Specialized autonomous agent definitions with explicit role prompts, authorization tiers, and tool bindings.

3. The 19 Canonical Sub-Mind Agents (Complete Roster & Specs)

Every Sub-Mind Agent is defined in `C:/Users/mouss/.hermes/agents/<name>.md` and mirrored across all 5 kernels. All 19 agents have been upgraded with **Universal Project Path Awareness** and **Smart Skill Visibility**.

ID	Agent Identifier (`name`)	Domain Responsibility & Role	Model	Auth Tier
AG-01	`moussaif-orchestrator`	Master System Orchestrator & AGI Kernel Router across K1-K5	gpt-5.5-pro	T1-T2
AG-02	`moussaif-agent-coding`	Full-Stack Software Engineering, TDD & Architecture Lead	gpt-5.5-pro	T1-T2
AG-03	`moussaif-agent-research`	Deep Intelligence, Market Research & Opportunity Signal Scout	gpt-5.5-pro	T0-T1
AG-04	`moussaif-agent-content`	Copywriting, Ebook Production, Email Sequences & SEO Lead	gpt-5.5-pro	T1-T2
AG-05	`moussaif-agent-qa`	Destruction Court QA Judge & Zero-Slop Compliance Auditor	gpt-5.5-pro	T0-T1
AG-06	`moussaif-agent-devops`	Coolify VPS, CI/CD, DNS, TLS & Infrastructure Engineer	gpt-5.5-pro	T1-T3
AG-07	`moussaif-agent-data`	Data Science, SQL Analytics, ROI Modeling & CAC/LTV Lead	gpt-5.5-pro	T1-T2
AG-08	`moussaif-agent-creative`	Brand Design, UI/UX Systems, Image & Video Prompt Engineer	gpt-5.5-pro	T1-T2
AG-09	`moussaif-agent-strategy`	Business Architecture, Pricing Ladders, Funnel & GTM Lead	gpt-5.5-pro	T0-T1
AG-10	`moussaif-agent-memory`	Obsidian Vault, Memory Consolidation & KB Curating Lead	gpt-5.5-pro	T1-T2
AG-11	`moussaif-agent-router`	Economical Model Selection & Provider Rate-Limit Arbitrator	gpt-5.5-pro	T0-T1
AG-12	`moussaif-agent-evolution`	Self-Improvement Loop, Regression Court & Skill Factory Architect	gpt-5.5-pro	T1-T2
AG-13	`moussaif-agent-crisis`	Incident Response, Rollback & Disaster Recovery Commander	gpt-5.5-pro	T1-T3
AG-14	`moussaif-compliance-auditor`	SOC2, GDPR, CAN-SPAM, HIPAA & Regulatory Compliance Auditor	gpt-5.5-pro	T0-T1
AG-15	`moussaif-smart-contract-auditor`	Smart Contract Security, Gas Optimization & DeFi Auditor	gpt-5.5-pro	T1-T2
AG-OR-01	`outreach-prospector`	Omnichannel Prospecting & Intent-Signal Qualification Scout	gpt-5.5-pro	T0-T1
AG-OR-02	`outreach-sequencer`	Hyper-Personalized Multi-Touch Sequencer across 5 Channels	gpt-5.5-pro	T1-T2
AG-OR-03	`outreach-concierge`	Autonomous Follow-Up & Objection-Resolution Concierge	gpt-5.5-pro	T1-T2
AG-OR-04	`outreach-closer`	Enterprise Deal-Closing, MAP & Contract Negotiator	gpt-5.5-pro	T1-T2

4. Complete 115 Canonical Hyperloops Roster (HL-01 to HL-115)

The MOUSSAIF AGI OS maintains exactly 115 canonical operational runbooks across 4 specialized domain suites:

Suite Name & Range	Hyperloop Count	Representative Runbooks & Domains	Primary Quality Gate
Core System Hyperloops `HL-01` to `HL-50`	50 Hyperloops	Autonomous coding, TDD loops, debugging, memory consolidation, KB deployment, Coolify VPS staging/production.	TDD Red-Green-Refactor & 4-Phase Debugging
General Masterclass Suite `HL-51` to `HL-90`	40 Hyperloops	Brand UI supremacy, enterprise SOC2 audit, full-stack microservices, smart contract audit, legal contract drafting.	Destruction Court QA Judge (7-Tier Matrix)
Super-Intelligence Marketing `HL-91` to `HL-100`	10 Hyperloops	Algorithmic attention arbitrage, neuro-conversion science, programmatic SEO dominance, CAC/LTV economics.	0-Slop Copywriting & 100-Point Value Audit
Omnichannel Outreach & Closing `HL-101` to `HL-115`	15 Hyperloops	Intent-signal scraping, cold email deliverability (SPF/DKIM/DMARC), LinkedIn InMail, X DMs, WhatsApp concierge, Loom audits, MAP closing.	CAN-SPAM / GDPR Compliance & Spam-Trigger Ban

5. Complete Skills & Gap Skills Catalog (1,050+ Skills Total)

The OS skill layer is organized into 4 major collections within `C:/Users/mouss/.hermes/skills/`:

Collection Name	Count	Naming Prefix	Key Technical Functions
Core OS & External Skills	739+ Skills	`agentic-kb-os-*` `afripa-brand-system-*`	Model routing, image/video generation, Canva/Netlify ops, GitHub PR workflows, Obsidian vault management.
300 HyperSkills Catalog	300 Skills	`moussaif-*` `hyper-*`	Advanced hyper-cognition, multi-agent DAG planning, sensor fusion, causal inference, and compliance auditing.
30 General Masterclass Gap Skills	30 Skills	`moussaif-gap-01..30`	Zero-slop human voice enforcer, T0-T4 gatekeeper, 7-tier evidence grading, 4-phase debugger, Coolify zero-downtime.
10 Project-Essential Gap Skills	10 Skills	`moussaif-gap-31..40`	Universal project scanner, Beyond AI sync, AFRIPA Neo Agency delivery, OneDrive conflict resolver, cross-kernel synchronizer.

6. Universal Project Visibility & Filesystem Junction Map (~/.hermes/projects/)

All 19 Sub-Mind Agents can natively read, inspect, and build across the user's entire project footprint without path errors or duplication through canonical NTFS Junctions in `~/.hermes/projects/` (mirrored across K1-K5):

Junction Name (`projects/`)	Physical Filesystem Target Path	Project Scope & Content Index
`beyond-ai-era-local`	`C:/Users/mouss/Documents/Projects/beyond-ai-era`	Beyond AI Era local development repo, apps, and codebase.
`afripa-neo-agency`	`C:/Users/mouss/OneDrive/Documents/Brands_Projects_BACKUP/AFRIPA_MEDIA_NEO_AGENCY`	AFRIPA Media Service Neo Agency client funnels, email outreach OS, and media assets.
`afripa-kb-desktop`	`C:/Users/mouss/OneDrive/Desktop/AFRIPA KB`	AFRIPA Master Knowledge Base, agency deliverables, and cyber defense systems.
`moussaif-global-kb-400mb`	`C:/Users/mouss/OneDrive/Desktop/MOUSSAIF_GLOBAL_KB_400MB`	400MB MOUSSAIF Global KB, operations QA, and brand templates.

Junction Name (`projects/`)	Physical Filesystem Target Path	Project Scope & Content Index
`brands-projects`	`C:/Users/mouss/OneDrive/Documents/Brands_Projects`	Active client brand project folders and Value Hub Neo Agency OS.
`brands-projects-backup`	`C:/Users/mouss/OneDrive/Documents/Brands_Projects_BACKUP`	Comprehensive backup of Beyond AI Era V2-V4, 670p/700p blogs, and SEO techniques.
`agentic-references`	`C:/Users/mouss/OneDrive/Desktop/agentic references of moussaif agi os`	Desktop agentic reference reports, teaming logs, and masterclass registries.

7. Historical & Current Deployment Trajectory (0-Loss Audit Log)

Timeline & Milestone	Deployment Action & Target Scope	Verification & Artifact Proof
Historical Foundation (All-Time)	Deployed Core Kernel (K1-K5), 15 Core Sub-Mind Agents (`AG-01..15`), Base 50 Hyperloops (`HL-01..50`), 739+ Core Skills, and 300 HyperSkills.	`~/.hermes/kb/antigravity-os-kernel.md` `~/.hermes/kb/gateway-bridge-os.md`
Yesterday (Session 1 & 2)	1. Deployed **40 General Masterclass Hyperloops (`HL-51..90`)** & 30 Gap Skills (`GAP-01..30`). 2. Deployed **Super-Intelligence Marketing Ecosystem**: KB-18, 10 Skills (`SIM-01..10`), 10 Hyperloops (`HL-91..100`).	`MOUSSAIF_SUPER_INTELLIGENCE_MARKETING_REGISTRY.json` All 100 Hyperloops verified across K1-K5.
Today — Deployment 1	Deployed **Omnichannel Outreach & Closing Ecosystem**: - 4 Smart Agents (`AG-OR-01..04`) - 5 HyperKB (`KB-19..23`) - 15 Skills (`OR-01..15`) - 15 Hyperloops (`HL-101..115`)	`MOUSSAIF_OMNICHANNEL_OUTREACH_REGISTRY.json` Total OS Hyperloops reached exactly **115**.
Today — Deployment 2	Deployed **Universal Project & Skill Visibility Harmony**: - Created `~/.hermes/projects/` with 7 external NTFS Junctions - Mirrored `projects/`	`MOUSSAIF_UNIVERSAL_PROJECT_KNOWLEDGE_MAP.json` 0 Bytes duplicate overhead across all 5 kernels.

Timeline & Milestone	Deployment Action & Target Scope	Verification & Artifact Proof
	across K1-K5 - Deployed 10 Essential Gap Skills (`GAP-31..40`) - Audited & upgraded all 19 Agent definitions.	
Today — Deployment 3 (Current)	1. Created `mega reports OS grade` folder. 2. Created `teaming env daily shared reports` folder. 3. Generated this 0-Loss Master Comprehensive Compendium PDF & MD.	`MOUSSAIF_AGI_OS_MASTER_COMPREHENSIVE_ARCHITECTURE_AND_DEPLOYMENTS_MEGA_REPORT.pdf`

> **System Verification Certification:** All 115 Canonical Hyperloops, 19 Sub-Mind Agents, 5 HyperKB Volumes, 1,050+ Skills, and 7 Universal Project Junctions are dynamically verified and accessible across `K1-Hermes`, `K2-OpenCode`, `K3-Codex`, `K4-Claude`, and `K5-Antigravity` with 0 bytes of storage duplication.