NeuralBlitz UEF/SIMI v8.0a – Omni-Reference Manual (v 1.4-delta-FULL)

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📜 Volume I – Manifesto, Vision & Eight Core Pillars

1 Manifesto & Vision

Field	Value
UAID	`NBX-DOC-Φ4-MANIFESTO`
Identity	Unified Enterprise Framework built on SIMI
Focus	"Causal Nexus Focus"
Flourish-Gate	$F = w_p\Delta P + w_r\Delta R + w_w\Delta W + w_e\Delta E \ge \theta_0$

"Causal understanding in service of human flourishing."

2 Eight Core Pillars

#	Pillar	Operationalisation	Math Hook	
1	Causality > Correlation	DRS v5.0's Causal Nexus Field	$C(e_1,e_2)=P(B$	do(A))-P(B)$
2	Synergy & Emergence	SynE v5.1 + λ-Field	$\alpha_{ij} =\operatorname{softmax}\big((q_i k_j^T), \gamma(c_{ij})\big)$	
3	Dynamic Adaptability	CSR v2.0 + MetaMind RL	Adaptive routing coef.	
4	Robustness & Resilience	AEGIS + ARK cryptoseal	Golden DAG: $h_t=\text{BLAKE3}(DAG_t$	h_{t-1})$
5	Verifiable Alignment	SentiaGuard DFSM	Policy lattice transitions	
6	Explainable Reasoning	Synergy abductive traces	Counterfactual toggles	

#	Pillar	Operationalisation	Math Hook
7	Co-Evolution	Reflectus feedback↔MetaMind	Long-horizon RL
8	Flourishing Objective	SentiaGuard KPI gate	see Flourish-Gate

💶 Volume II – Macro-Architecture

```
Layer 7  HALIC v4.0   – Persona UX, WCAG 2.1
Layer 6  SynE v5.1    – Macro planner + λ-Field bridge
Layer 5  UNE v6.1-Causal – Micro cognition, FlashAttn 4.1
Layer 4  DRS v5.0     – Causal Nexus knowledge graph
Layer 3  Governance Mesh – SentiaGuard, Custodian, Veritas, AEGIS
Layer 2  DEE v2.3     – WASI sandbox, hot-swap
Layer 1  HAS v4.0a    – GPU/TPU/NPU resource fabric
```

High-level diagram UAID: `NBX-VIZ-Φ4-ARCH-HL`.

⚙️ Volume III – Engines & Subsystems (Snapshot)

- **UNE v6.1-Causal** – FlashAttention kernels (`NBX-KERN-Φ5-FlashAttn-sm80.ptx`)
- **λ-Field Orchestrator** – Micro-signal bus header `0x4C46`, eigen-monitor stable if $\sigma_f/\sigma_b \leq 1.2$.
- **SynE DFS-A*** sample planner code `NBX-DOC-Φ3-SYNE-ALG §3.2`.

📚 Volume IV – Capability Kernel Atlas

- 3 857 CKs auto-indexed; see HTML bundle `NBX-DOC-Φ1-80F62AAF`.
- Example CSL (QuantumPathCK) UAID `NBX-CK-Φ3-QuantumPathCK`.

🔌 Volume V – Protocols & Standards

- **CKIP v4.1** ABNF `NBX-API-Φ5-CKIP-4.1.abnf`.
- **SRCPLEX v2** capsule header schema.

💻 Volume VI – Developer Guide (Key Commands)

Command	Prototype	Note
Init CK	`kithara init --template ck`	Scaffold CK
Sanitised build	`kithara compile foo.csl --sanitize tsan`	Race detect
Perf sim	`kithara sim foo.cap --profile perf`	Flamegraph
Export source	`kithara src export //core/une`	Tier A artefact

Full CLI lexicon in UAID `NBX-DOC-Φ4-CLI-LEXICON`.

📈 Volume VII – Benchmarks & Performance

- Latest flamegraph `NBX-BENCH-Φ5-UNE-latency.svg`.
- Coverage XML `NBX-COV-Φ5-CORE-0607.xml` (89 % line cov).

🔐 Volume VIII – Governance & Compliance

- GDPR ↔ SentiaGuard table; 0 missing clauses.
- SAFE-MODE incidents: 0/mo (rolling 90 d).

🖌️ Volume IX – Chaos & Resilience

- Chaos plan YAML example (`kill_node`, `throttle_net`).
- Latest trace bundle `NBX-TRACE-Φ5-CHAOS-042.zip`.

🗃️ Volume X – Artefact Ledger & Automation

Counts (5 Jul 2025): 43 core specs · 3 857 CKs · 660 PDFs · >11 000 UAIDs.

Nightly tasks:

- 02:00 docs weave (disabled)
- 03:00 Tier E+F export (active)
- 03:30 export cleanup >14 d (active)

🛠️Appendix A – Full CLI Flag Schemas

UAIDs: `NBX-API-Φ5-kithara-compile-flags.abnf` , `NBX-API-Φ5-lambda.abnf` , …

📝Appendix B – Glossary (2 700 entries)

Snippet:

- **Golden DAG** – Cryptographically sealed DAG; see AEGIS.
- **CTPV** – Four-way verification (causal-temporal-provenance).

Next Action Prompts

- `/excerpt UAID` – stream any artefact.
- `kithara chaos --inject 'kill_node: gpu-pod-z9' --live` – run ad-hoc chaos.
- `ledger summary kind==proof` – quick proof count.

End of Omni-Reference v1.4-delta FULL