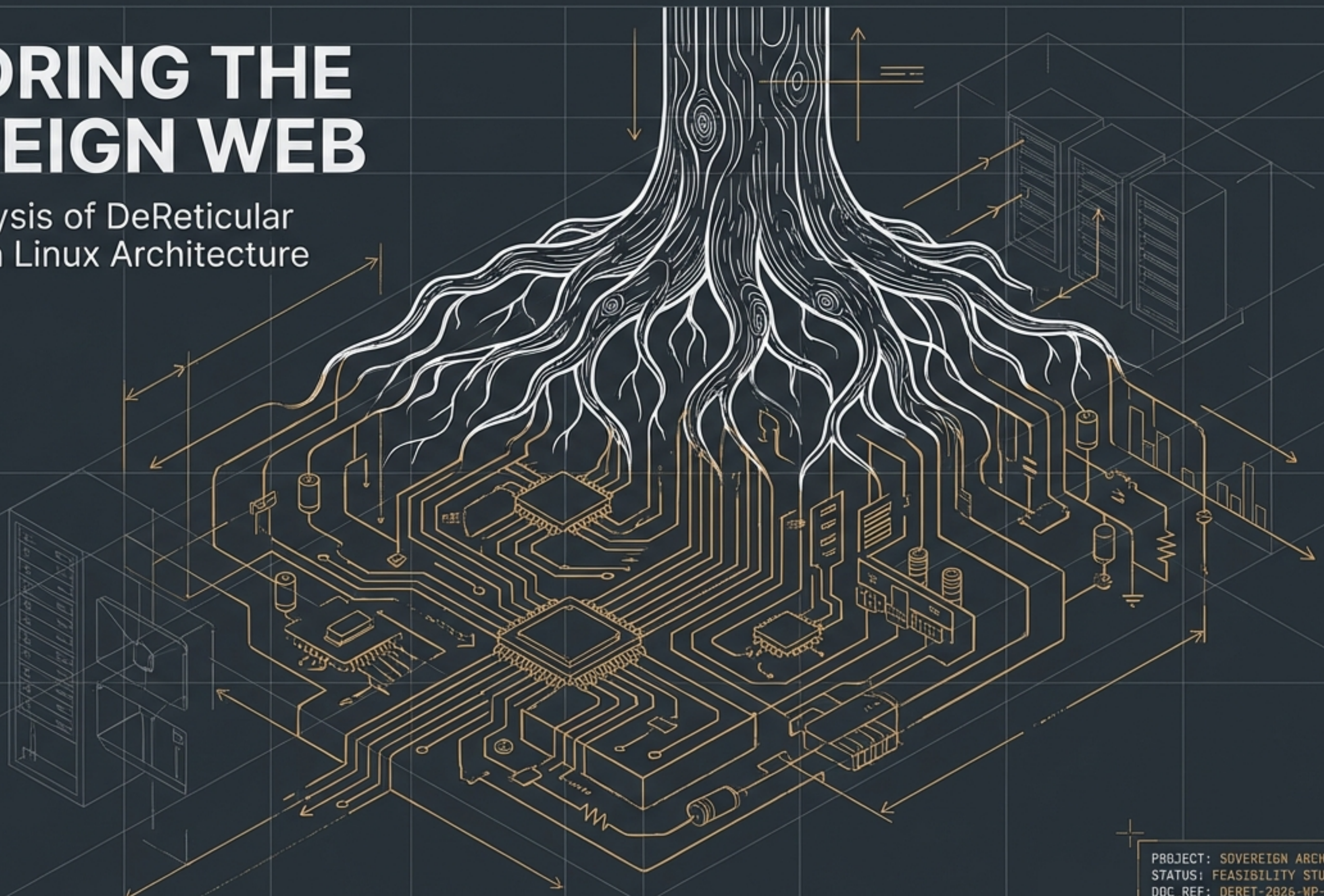


ANCHORING THE SOVEREIGN WEB

Feasibility Analysis of DeReticular & RIOS Tools on Linux Architecture



PROJECT: SOVEREIGN ARCHITECT
STATUS: FEASIBILITY STUDY
DOC_REF: DERET-2026-WP-01

EXECUTIVE SUMMARY: THE VERDICT

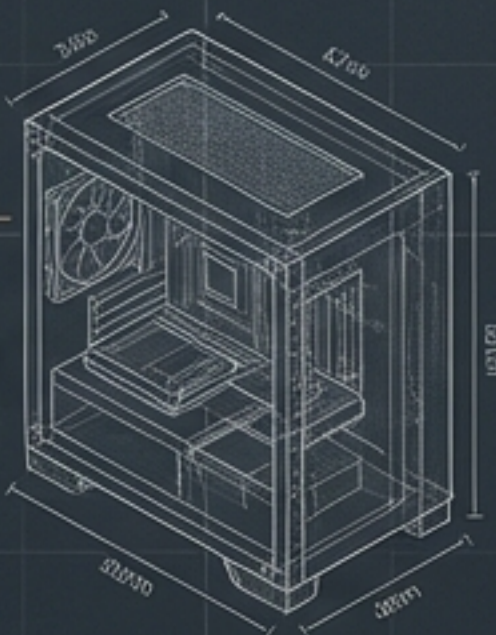
BUILD, DON'T BUY.

No current Linux distribution offers a pre-installed 'Sovereign Stack' (RIOS + Freenet + Hyphanet). The gap in the market requires a 'do-it-yourself' architectural approach.

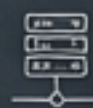
NO PRE-INSTALLED SOVEREIGN STACK



DIY ARCHITECTURAL APPROACH REQUIRED



RECOMMENDED ARCHITECTURE: KUBUNTU (KDE PLASMA)



- Enterprise-grade stability (Ubuntu LTS Base)

LTS BASE. STABILITY FOCUS



- High hardware compatibility



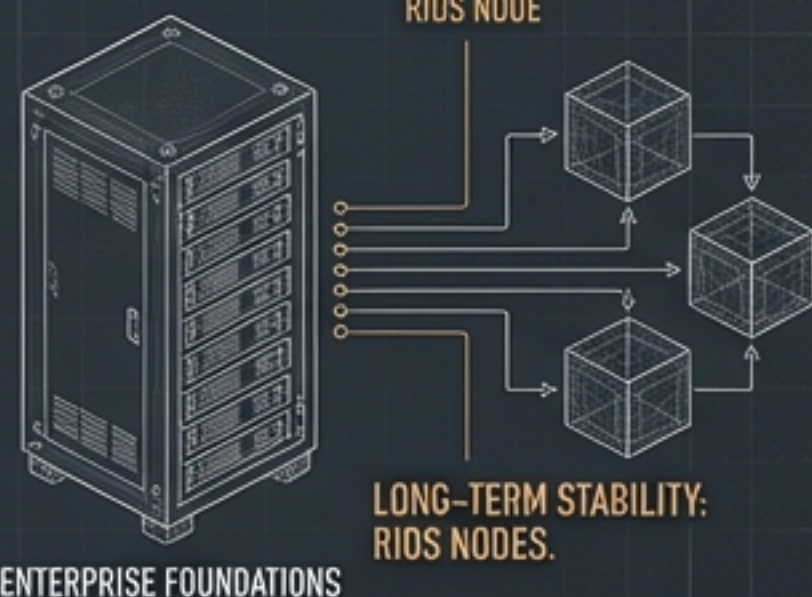
- User-friendly environment for manual construction

HARDWARE COMPATIBILITY: HIGH



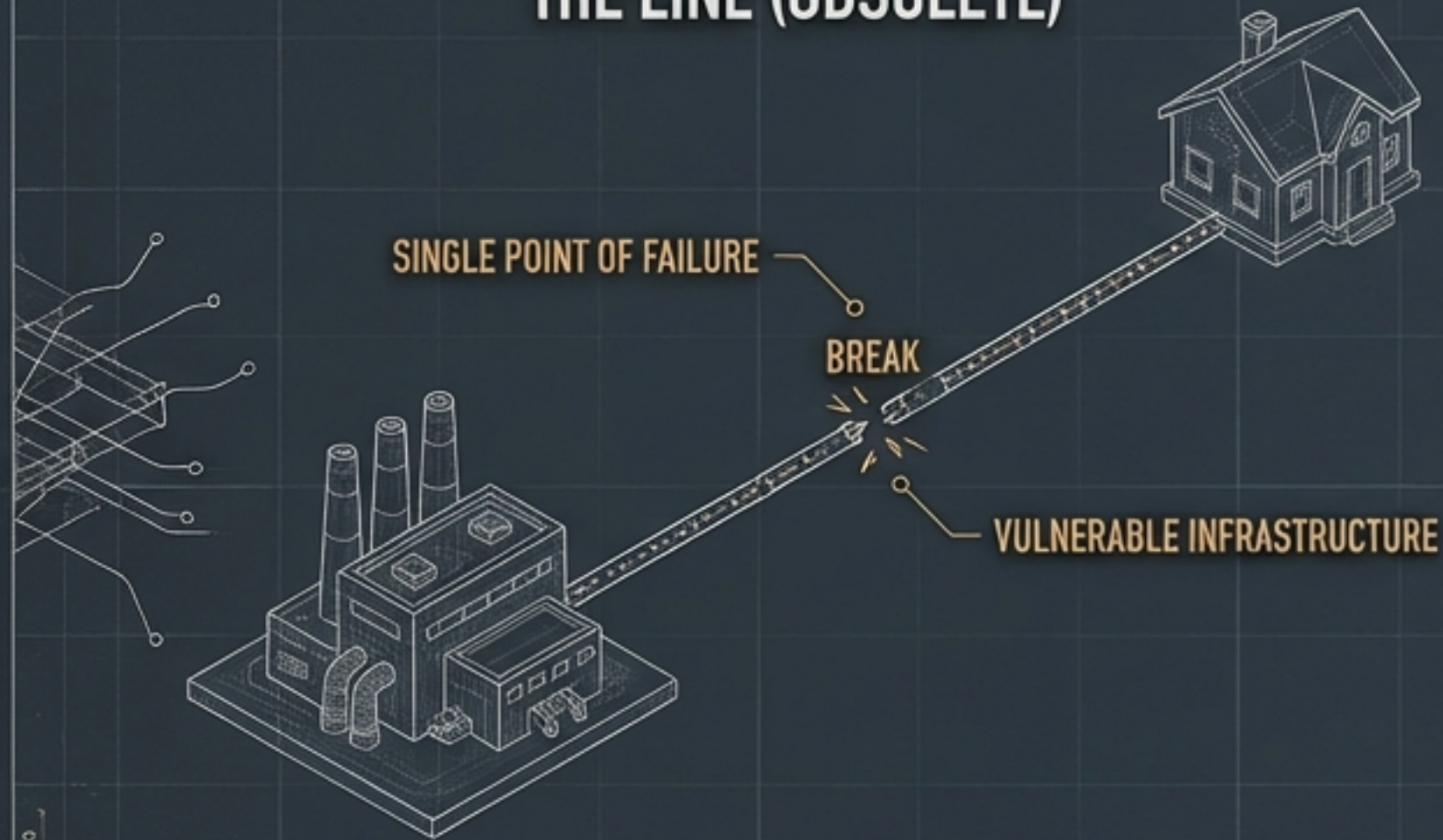
KEY TAKEAWAY:

KEY TAKEAWAY: We must utilize **general-purpose enterprise foundations** rather than niche security tools to ensure **long-term stability** for RIOS nodes.

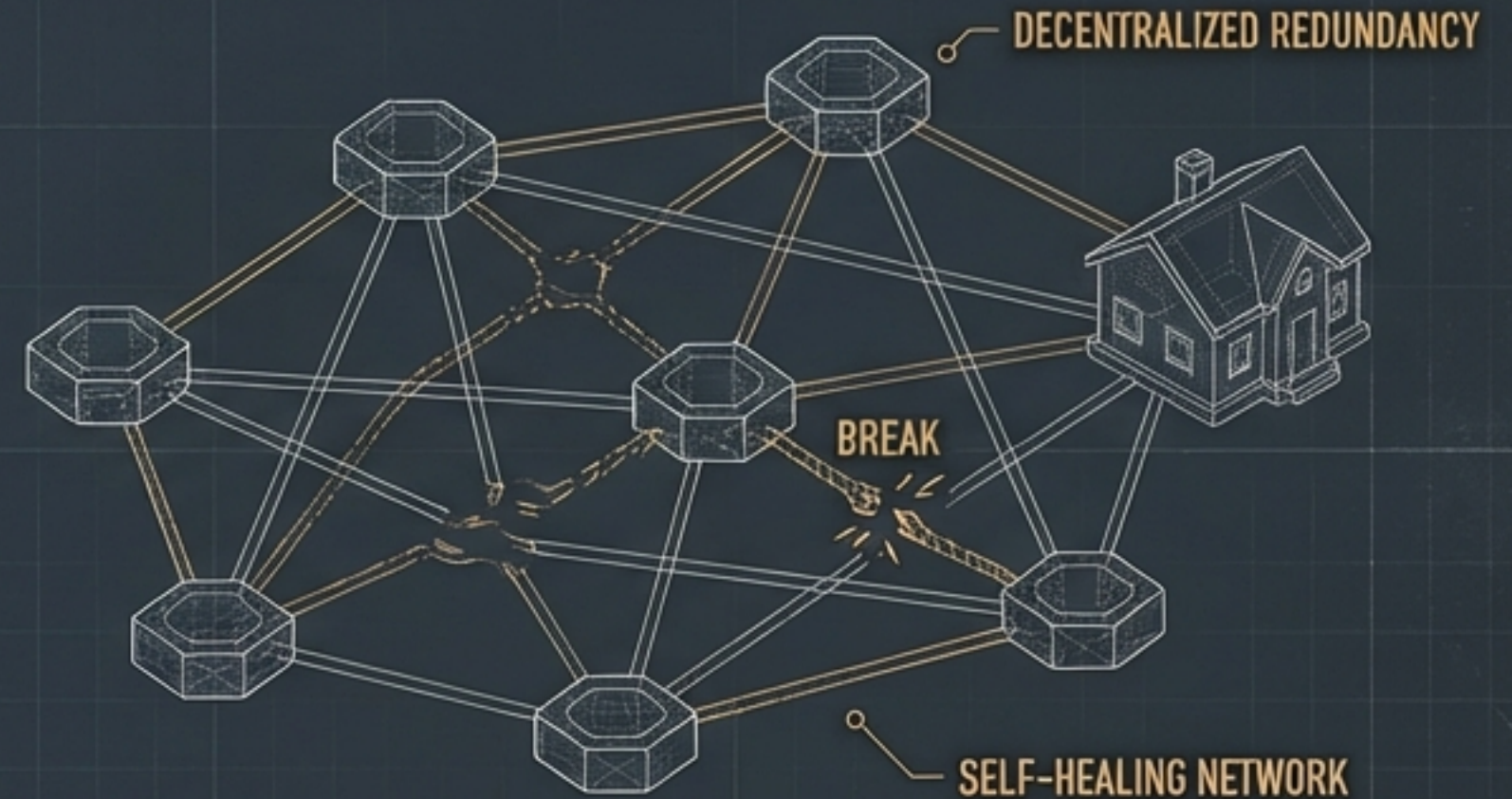


FROM LINEAR FRAGILITY TO SPHERICAL RESILIENCE

THE LINE (OBSOLETE)



THE MESH (DERETICULAR VISION)



ELECTRONS (ENERGY)

Managing local power generation for 'Island Mode' capability.

[LOCAL MICROGRID MGMT // ISLAND MODE ACTIVE]

DATA (INTELLIGENCE)

Secure, local communications via RIOS without big tech reliance.

[PEER-TO-PEER COMMS // RIOS SECURE PROTOCOL]

MOBILITY (LOGISTICS)

Coordinating autonomous transport and goods.

[AUTONOMOUS FLEET COORDINATION // LOGISTICS MESH]

THE SOFTWARE PREREQUISITES

Architectural Requirements for a RIOS Node

SYSTEM DIAGNOSTICS // RIOS NODE v1.0.3



HYPHANET (LEGACY FREENET)

Required for static, censorship-resistant storage (Manuals, Wikis).

[STATUS: INTEGRATED]
[VERSION: 0.7.1]
[STORAGE: DISTRIBUTED]



NEW FREENET (LOCUTUS)

Required for dynamic smart contracts and state management.

[STATUS: PENDING]
[VERSION: 0.0.9-alpha]
[CONTRACT: WASM-BASED]



HARDWARE ROOT OF TRUST

Interface with TPM 2.0 chips and RF Fingerprinting transceivers.

[STATUS: REQUIRED]
[MODULE: TPM 2.0]
[INTERFACE: SPI/I2C]
[RF: 2.4GHZ/5GHZ]



PERSISTENCE

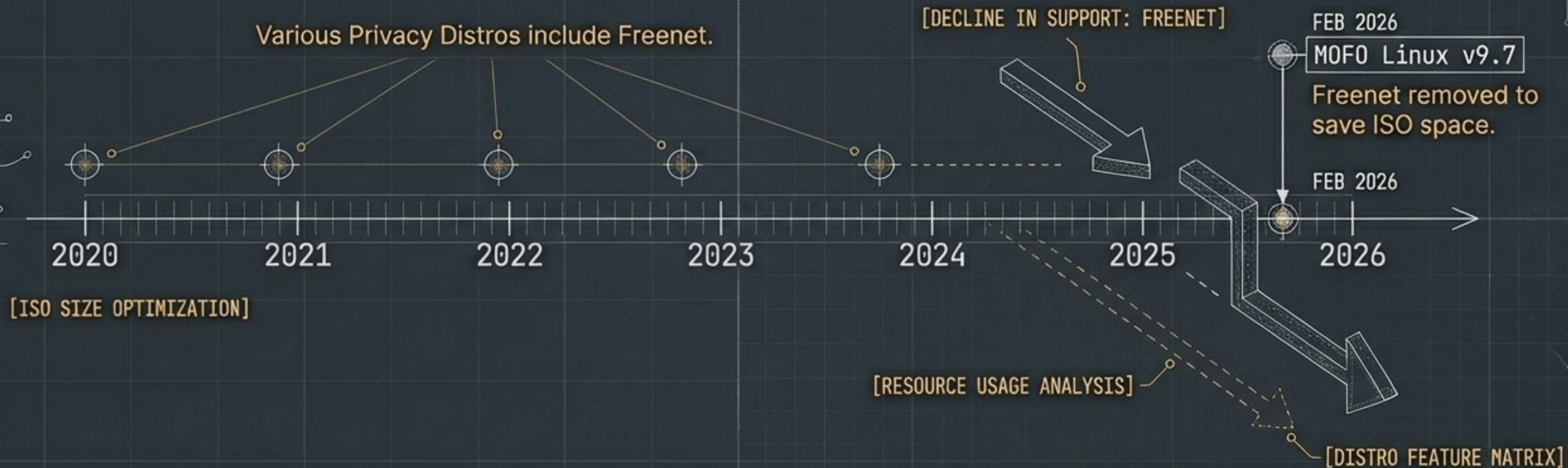
Non-amnesic architecture. Must maintain large, encrypted local datastore.

[STATUS: CONFIGURED]
[ENCRYPTION: AES-256]
[DATASTORE: NVMe 4TB]
[AMNESIC: DISABLED]

PROJECT: SOVEREIGN STACK ARCHITECTURE
REV: 1.8
DATE: 2025-04-28
ENGINEER: [REDACTED]
STATUS: PRE-DEPLOYMENT CHECK

THE 'OUT-OF-THE-BOX' MYTH

The Gap in the Market



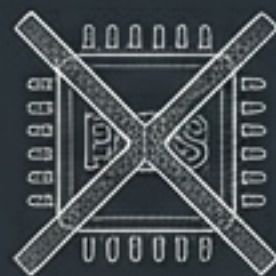
REALITY CHECK: Most privacy-focused Linux distributions prioritize ephemeral anonymity (Tor/I2P) over sovereign infrastructure. Support for Freenet has declined due to resource usage, leaving no ready-to-go OS for the DeReticular stack.

PROJECT: SOVEREIGN STACK ARCHITECTURE
REV: 1.8
DATE: 2025-08-18
ENGINEER: [REDACTED]
STATUS: GAP ANALYSIS

CANDIDATE ANALYSIS: SPECIALIZED DISTROS

High Security, Wrong Architecture

TAILS INCOMPATIBLE



Designed to wipe memory on shutdown (Amnesic). BIOS requires long-term encrypted storage on the hard drive.

LINUX KODACHI OVERKILL / MISALIGNED



Excellent for Tor/VPN, but creates unnecessary bloat. Too many 'Panic Room' features for a dedicated industrial controller.

SEPTOR PARTIAL FIT



Uses KDE Plasma, but focused entirely on Tor routing. Lacks the pre-configured Java environment needed for Hyphanet.

PROJECT: SOVEREIGN STACK ARCHITECTURE
REV: 2.6
DATE: 2025-08-18
ENGINEER: [REDACTED]
STATUS: DISTRO EVALUATION

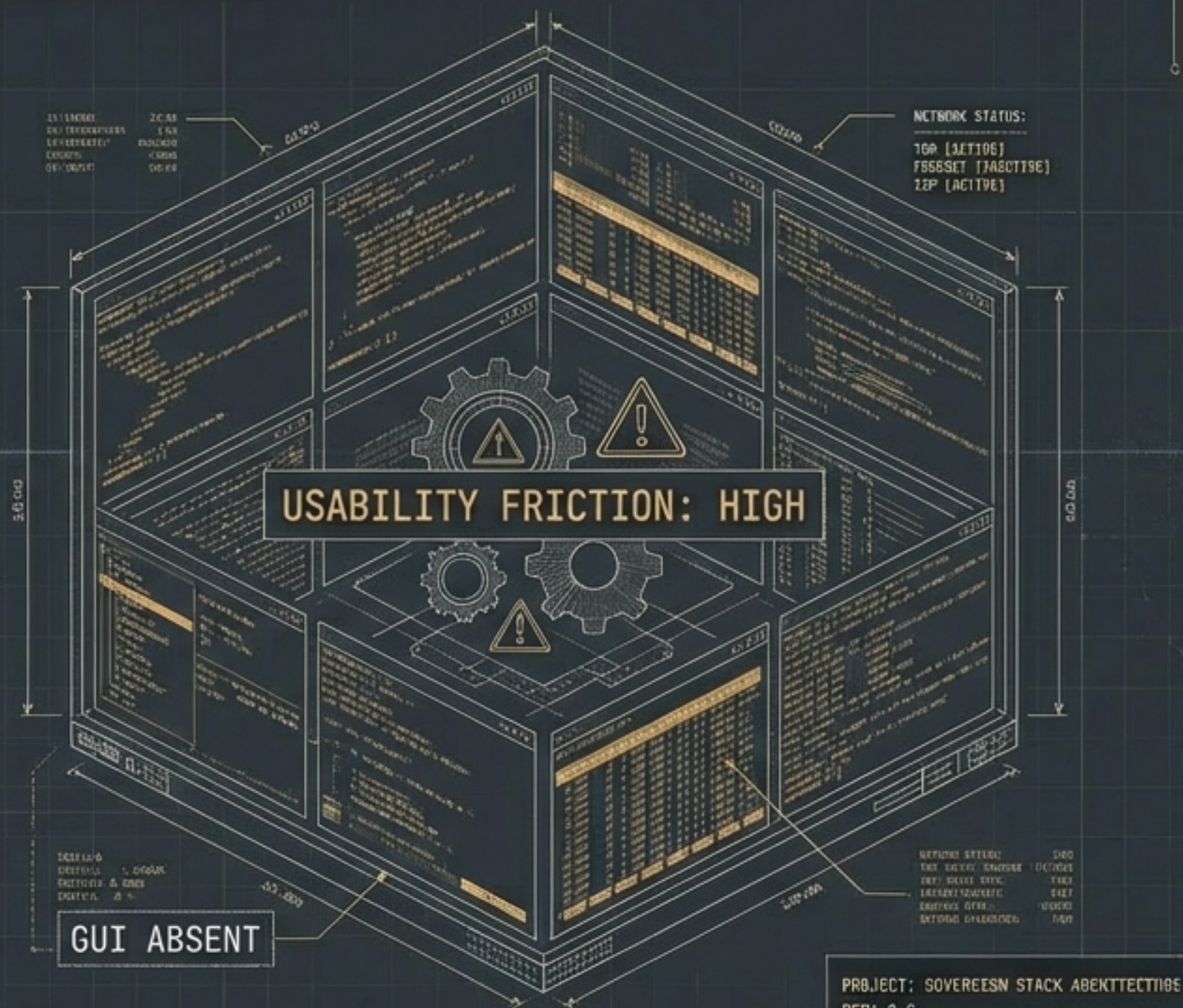
THE DEPRECATED CHAMPION

Case Study: MOFO Linux

HISTORY: v9.6 and older were the only distros to feature Freenet as a core tool.

THE PIVOT: v9.7 (Feb 2026) removed Freenet.

THE BARRIER: Relies on i3/DWM tiling window managers. Steep learning curve for non-technical farmers or node operators.



PROJECT: SOVEREIGN STACK ARCHITECTURE
REV: 2.6
DATE: 2025-08-30
ENGINEER: [REDACTED]
SYSTEM: CASE STUDY: MOFO LINUX

THE SOLUTION: KUBUNTU (KDE PLASMA)

The Stability of Ubuntu, The Power of Plasma

UBUNTU LTS BASE
(Enterprise Grade Stability)

KDE PLASMA ENVIRONMENT
(Windows-like familiarity)

FULL REPOSITORY ACCESS
(Easy Java/JRE Installation)

PROJECT: SOVEREIGN STACK ARCHITECTURE
REP: 2.6
DATE: 2025-08-28
EXTENDED: [REQUIRED]
SYSTEMS: DISTRO SELECTION - KUBUNTU

CONSTRUCTING THE STACK

The Implementation Path

NETWORK & PROTOCOL
Hyphanet (Static) + New Freenet (Dynamic)

RUNTIME ENVIRONMENT
Java (JRE) + WebAssembly (Wasm)

HARDWARE (THE ANCHOR)
RIOS Node + TPM 2.0 + RF Transceiver

OPERATING SYSTEM
Kubuntu LTS (Linux Kernel)

PROJECT:	SOVEREIGN STACK ARCHITECTURE
REV:	3.0
DATE:	2025-03-20
ENGINEER:	[REDACTED]
STATUS:	STAKE DEFTATION

DEPLOYMENT GUIDE

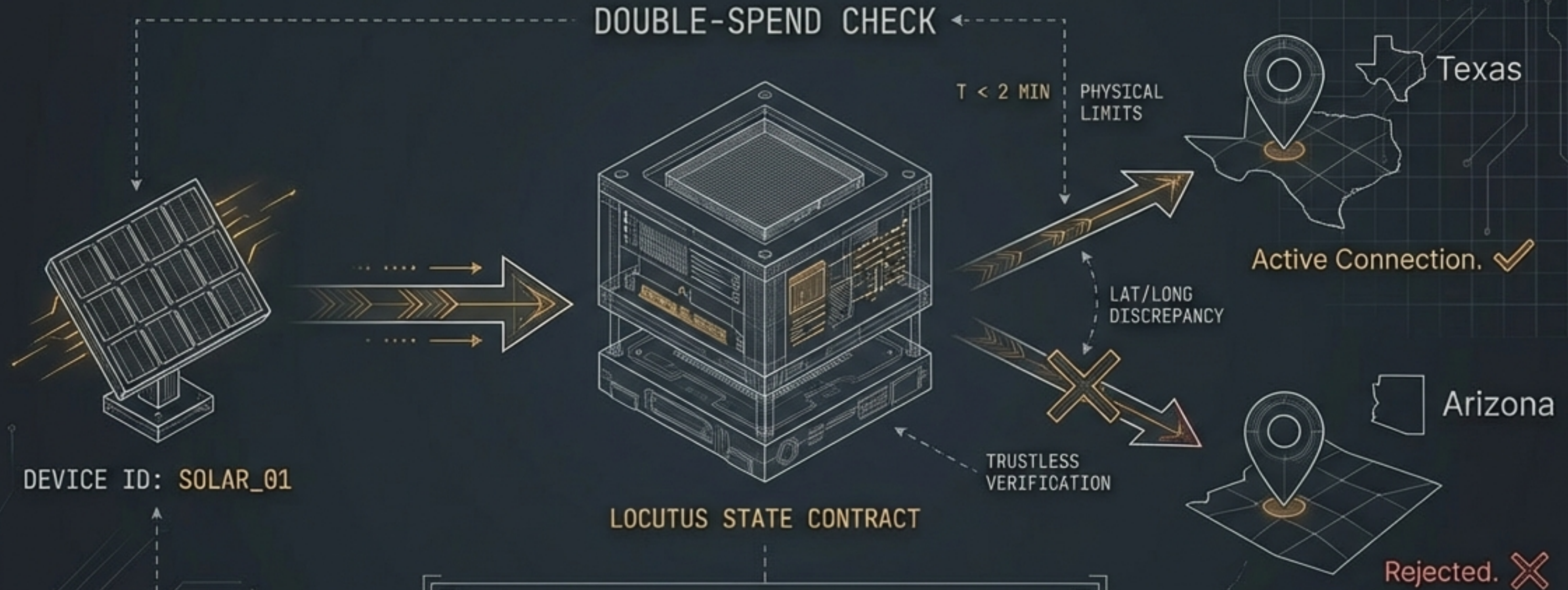
Total Setup Time: Approx 10 Minutes



PROJECT:	SOVEREIGN STACK ARCHITECTURE
RES:	5.0
DATE:	2025-05-20
ENGINEER:	[7RBACT52]
STATUS:	STAGE 20STALLATION GUIDE

UNDERSTANDING "TRUSTLESS IDENTITY"

Solving the "Garbage In, Garbage Out" Problem



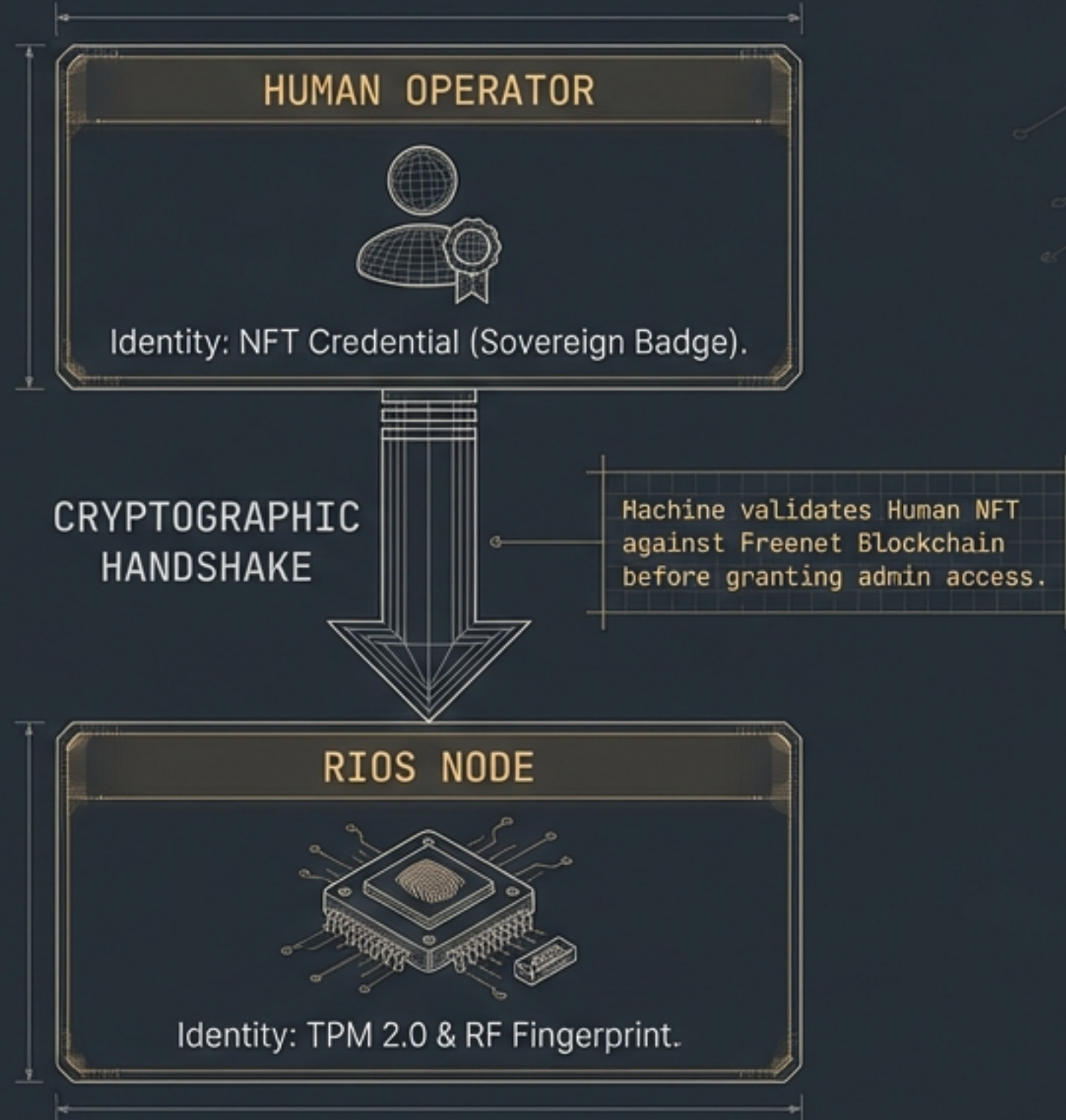
MECHANISM: PHYSICS VIOLATION

If Device ID appears in Texas, but the contract says it was in Arizona 2 minutes ago, the connection is rejected. Trust is derived from physics, not user input.

PROJECT:	SOVEREIGN STACK ARCHITECTURE
RES:	5, 6
DATS:	9855-85-26
TECHNICAL:	[TRDCT62]
STATUS:	5BUBLI-55ERD CIE2N. 01A886A

THE SOVEREIGN BADGE

Human vs. Machine Governance



JetErasos Home

PROJECT: SOVEREIGN STACK ARCHITECTURE	
DOC ID: 004	
DATE: 2025-05-30	SEQUENCE: [TRUSTLESS]
STATUS: DRAFT - INTERNAL REVIEW ONLY	

FEASIBILITY MATRIX

Comparative Analysis of Distribution Options

DISTRO	STABILITY	EASE OF USE	FREENET READY	SUITABILITY
KUBUNTU	HIGH (LTS)	HIGH (PLASMA)	MANUAL (EASY)	OPTIMAL
MOFO LINUX	MEDIUM	LOW (TILING)	DEPRECATED	LOW
TAILS	HIGH	MEDIUM	INCOMPATIBLE	NONE
ARCH/MANJARO	LOW (ROLLING)	LOW	MANUAL (HARD)	MEDIUM

PROJECT: SOVEREIGN STACK ARCHITECTURE
DOC ID: 085
DATE: 2025-05-30
SEQUENCE: [TRUSTLESS]
STATUS: DRAFT - INTERNAL REVIEW ONLY

CONCLUSION: THE FOUNDATION FOR SOVEREIGNTY

DeReticular represents the physical application of decentralized principles. While no “turnkey” OS exists, KUBUNTU offers the best balance of stability and malleability to build the RIOS Trinity Stack.

NEXT STEPS:

1. Proceed with Kubuntu LTS installation.

2. Script the Java/Freenet deployment for rapid node scaling.

3. Establish the 'Civilization-in-a-Box' baseline.



PROJECT: SOVEREIGN STACK ARCHITECTURE
DOC ID: 085
DATE: 2025-05-30
SEQUENCE: [TRUSTLESS]
STATUS: DRAFT - INTERNAL REVIEW ONLY

SOURCES & REFERENCES

1. DeReticular & RIOS Architecture White Papers (2026)
2. "Global Identity Polling and Provenance Tracking" - Internal Report
3. "The Sovereign Badge: Decentralized Human Authorization" - Internal Report
4. Kubuntu LTS Official Documentation
5. MOFO Linux v9.7 Release Notes (Feb 2026)
6. Hyphanet & Freenet Protocol Documentation

PROJECT: SOVEREIGN STACK ARCHITECTURE
DOC ID: 085
DATE: 2025-05-30
SEQUENCE: [TRUSTLESS]
STATUS: DRAFT - INTERNAL REVIEW ONLY