ERES Trinity Build — VERTECA PlayNAC

The 10 × 6 → 3 → 1 cascade as a walkable AR/VR architecture.

DOCUMENT	ERES-TRINITY-BUILD-2026-001 · v0.1 build spec
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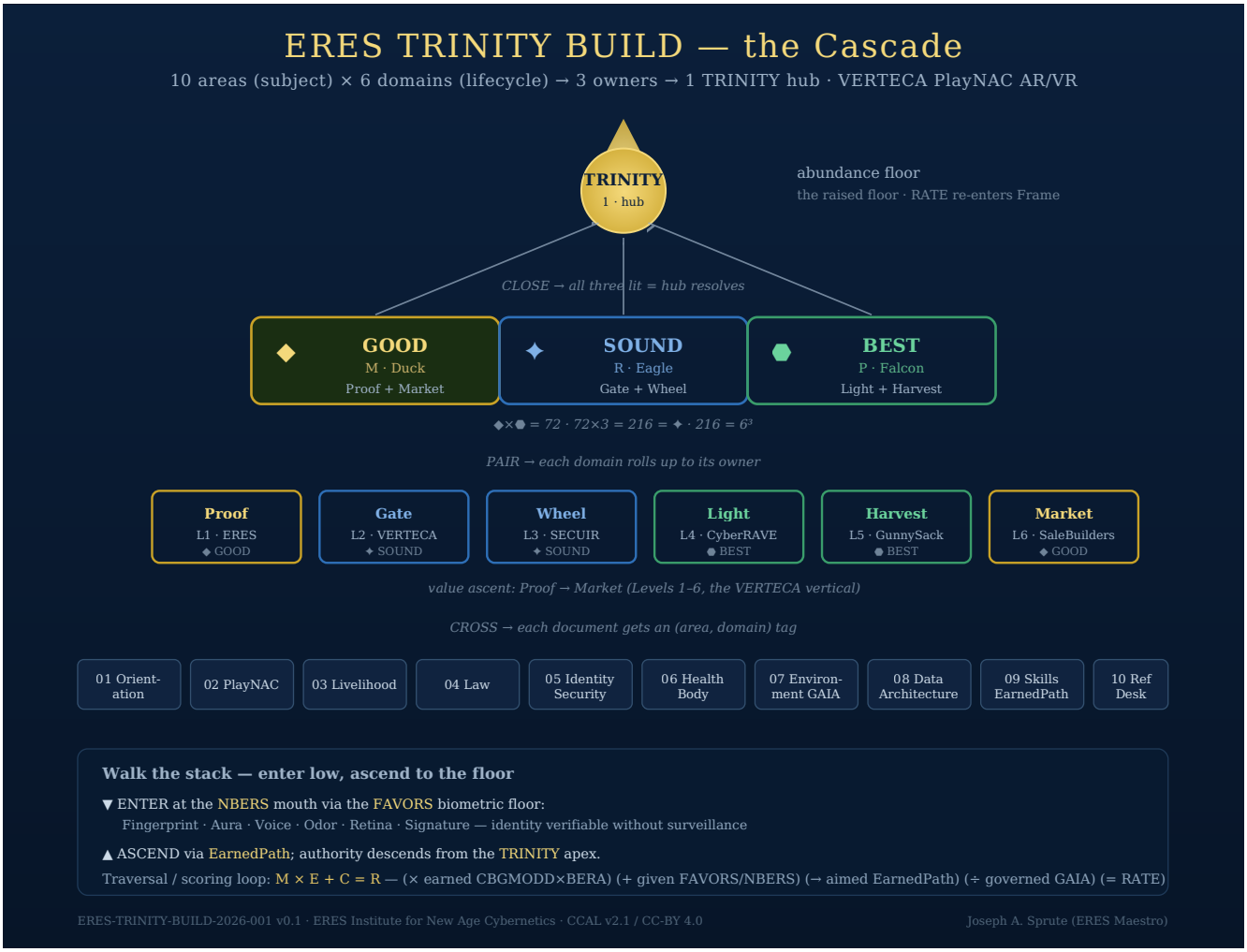
INSTITUTE	ERES Institute for New Age Cybernetics · Bella Vista, Arkansas
DATE	11 September 2026
LICENSE	CCAL v2.1 / CC-BY 4.0 — reuse with attribution
ANCHORS	ERES-NAC-Dual-Axis · PlayNAC KERNEL · VERTECA WP v2.0 · FAVORS Cone / PiVOT



The 10 × 6 → 3 → 1 cascade: ten subject areas crossed with six lifecycle domains, paired into three owners, closed at one Trinity hub.

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Abstract

The ERES corpus is published as a place that can be walked. This whitepaper specifies **how that place is built** as an AR/VR simulator inside **VERTECA PlayNAC**, and — crucially — how the build *accomplishes the ERES Trinity* rather than merely displaying documents. The organizing move is a four-layer cascade in which each layer is the one beneath it, reduced:

> **10 areas (subject) × 6 domains (lifecycle) → 3 owners (BEST/SOUND/GOOD) → 1 TRINITY hub (abundance floor).**

Each arrow is a real operation — *cross*, then *pair*, then *close* — and the simulator renders each operation as navigable space. The Trinity is not a fourth taxonomy folded over the others; it is what the six domains resolve to when paired, and what the ten subject areas exist to serve.

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1. Purpose & Scope

Purpose. Give the ERES AR/VR simulator a single load-bearing geometry so that walking the corpus *is* running the governance model, and closing the walk *is* demonstrating the Trinity.

Why VERTECA is the build site. In the ERES NAC Dual-Axis, **VERTECA is Node 2 — the Gate (SOUND ✦)**, and its lead deliverable *is the Simulator*. The Trinity Build is therefore constructed at the Gate: the qualification layer where a User-GROUP is admitted, scored, and routed through the stack. VERTECA (Vertical Energy Resonance Temporal Environmental Cybernetic Architecture) supplies the vertical the cascade needs.

Scope. This document specifies the four layers, the spatial grammar that renders them, the traversal/scoring loop, and the Trinity-closure criterion. It does **not** re-derive the underlying instruments (PlayNAC KERNEL, BERA, CBGMODD, SCALULAR, UBIMIA); those are anchored, not restated.

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2. The Cascade (core architecture)

The four layers, and the operation that connects each to the next:

LAYER	WHAT IT IS	OPERATION TO NEXT LAYER
10 Subject Areas	*What a document is about* (Orientation, Law, Livelihood...) — a partition	**CROSS** — each doc also receives a domain tag
6 Domains	*Where a document sits* in Proof→Market lifecycle — the NAC-node stack	**PAIR** — each domain rolls up to an owner-badge
3 Owners	BEST / SOUND / GOOD — each holding two domains	**CLOSE** — all three lit = the hub resolves
1 TRINITY hub	The raised **abundance floor** everyone stands on	*(re-enters as next cycle's Proof — the loop)*

The reductions never compete. A UBIMIA document and a GAIA document can both be at **Proof** stage while living in different subject areas — so subject and lifecycle are crossed, not merged. Ownership then pairs the six lifecycle stages into three, and the Trinity is the closure of all three.

3. The Four Layers in Detail

3.1 Layer A — 10 Subject Areas (the ring / districts)

The ten topography areas remain the **subject axis** and are **not** repartitioned. Repartitioning ten into three would destroy the navigation ring and misfile every cross-cutting instrument (SCALULAR, CCAL, CBGMODD, the Data-Integrity thesis). Instead, each area's documents *inherit* an owner-badge from the domain-pair they serve, so the Trinity becomes readable **across** the ring — "show the GOOD face" pulls documents from many districts at once.

01 Orientation · 02 PlayNAC · 03 Livelihood · 04 Law · 05 Identity/Security · 06 Health/Body · 07 Environment/GAIA · 08 Data/Architecture · 09 Skills/EarnedPath · 10 Reference Desk.

3.2 Layer B — 6 Domains (the lifecycle stack / the vertical)

The six NAC Nodes are the value ascent **Proof → Market**. This is the vertical VERTECA supplies.

L	NODE	DOMAIN	OWNER	TOTEM	LEAD DELIVERABLES
1	ERES	**Proof**	GOOD ◈ (M)	Duck	PlayNAC · EarnedPath (CPM·WBS·PERT) · GERP · CBGMODD
2	VERTECA	**Gate**	SOUND ✦ (R)	Eagle	Simulator · Voice Portal · COI SLA · FAVORS
3	SECUIR	**Wheel**	SOUND ✦ (R)	Eagle	Infomediary · BERA · GEAR · NBERS
4	CyberRAVE	**Light**	BEST ⬡ (P)	Falcon	72 Domains/Def-Rel · P^3 Ratings · COI Formalization · Trinity
5	GunnySack	**Harvest**	BEST ⬡ (P)	Falcon	IDIPITIS · EPIR-Q · Center-of-Excellence · SOMT
6	SaleBuilders	**Market**	GOOD ◈ (M)	Duck	SCALULAR · UBIMIA · GCF · PBJ

3.3 Layer C — 3 Owners (the Trinity triad)

The Trinity is the **pairing over the six domains**. Its reading is structural, not arbitrary:

- **GOOD ◈ (M) — the bookends: Proof (1) + Market (6).** What is proven and what is delivered. GOOD is the engineering spec for the convergence of BEST and SOUND — so it fittingly holds the two ends the stack must reconcile.
- **SOUND ✦ (R) — the throughput: Gate (2) + Wheel (3).** Admission and circulation. SOUND is the governance-quality / ethical-integrity measure — the qualification-and-rotation core.
- **BEST ⬡ (P) — the peak: Light (4) + Harvest (5).** Illumination and reaping. BEST is Bio-Electric Signature Time — vitality, the living yield at the top of the stack.

Owner math (canonical, per Dual-Axis): ◈ × ⬡ = 72, and 72 × 3 = 216 = ✦. The three badges are not merely labels; they close numerically.

Canonical BEST/SOUND/GOOD chain: TERMS → SOUND → GOOD → BEST → REAL.

3.4 Layer D — 1 TRINITY hub (abundance floor)

TRINITY sits **above** the six as the closure and read-out — this is what the built PiVOT wheel already does (the hub walks the stack), and it keeps the cascade clean. The hub resolves only when all three owner-pairs are lit.

The name paradox is deliberate: the **abundance floor is at the apex** because it is the *floor that has been raised*. Authority descends from the TRINITY apex; people ascend from the **NBERS** base-mouth. The Mission — make an abundance floor real for everyone and keep raising it — is literally the geometry: you climb to stand on it.

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4. VERTECA AR/VR Simulator — Rendering the Cascade as Space

The corpus's own "context placement standard" for the wheel is lifted into three dimensions:

WHEEL PRIMITIVE	2D MEANING	AR/VR RENDERING
radius	provenance depth (shared → earned)	horizontal distance from the central spire; the rim is where earned/specific documents live
angle	FAVORS band (F·A·V·O·R·S)	fixed angular sectors — the six approach corridors into the city
vertical	(new) the 6 domains	six ascending levels, Proof at base → Market above
pointer (12:00)	active read-head	where the per-slice AI panel docks; in AR/VR, the user's gaze/focus reticle
hub	global / User-GROUP state (+ GAIA $/S/state · FED)	the central TRINITY spire — the raised floor you climb to
rim	output surface	document portals + per-slice metrics rendered at the district edge
rotation	traversal / time	orbital movement; auto = ambient/endless (SECUIR "Infinite Rotation"), manual = directed

The walk, end to end:

1. **Entry at the NBERS mouth (biometric floor).** A User-GROUP authenticates through the **FAVORS** biometric vector — **F**ingerprint · **A**ura · **V**oice · **O**dor · **R**etina · **S**ignature (the Row-1 Biometric Floor). This is the given floor: identity verifiable without surveillance.
2. **Gate (VERTECA).** Admission and SLA. The **Voice Portal / HFVN** (Hands-Free Voice Navigation) is the primary AR/VR control scheme — the ladder stays reachable regardless of ability.
3. **Ascent through the six levels.** Each district (subject area) rises through all six domain-levels; the user moves both *around* the ring (subject) and *up* the stack (lifecycle). Each level glows its **owner color** — GOOD/SOUND/BEST — so the Trinity is visible as light before it is read as score.
4. **Read-head docking.** At the 12:00 pointer, a per-slice AI panel reads **hub-global + slice-local** state and surfaces the document in focus (one wedge = one seeded corpus document).
5. **Apex.** When a User-GROUP has lit both domains of all three owner-pairs, the TRINITY spire resolves — the abundance floor is "real" for that group, and the RATE read-out is issued at the hub.

Faction color as comprehension. Because the three owners color the space, a newcomer *sees* the model's balance before understanding it: a stack heavy in one color is visibly out of Trinity.

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5. The Traversal / Scoring Loop

The walk is a **closed cybernetic loop**, not a one-way ladder — RATE re-enters Frame as the next cycle's Proof (Security-Clearance / Data-Integrity). The traversal reads as:

> **M** × **E** + **C** = **R** (× earned — CBGMODD × BERA, computed on descent) · (+ given — FAVORS / NBERS floor) · (→ aimed — EarnedPath, on ascent) · (÷ governed — GAIA) · (= RATE)

Equivalently, at the top line: **RATE = (CBGMODD × BERA) + FAVORS**, governed ÷ **GAIA** (Global Actuary Investor Authority, grounded on the Bio-Ecologic Economy, BEE). This sits under the Triune-Math anchor **C = R × P / M** (Cybernetics = Resource × Purpose ÷ Method).

In the simulator, this loop is the physics: earned score multiplies as you descend authority, the given floor adds beneath you, EarnedPath aims your ascent, GAIA governs the whole, and RATE is what the hub emits — then feeds the next cycle.

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6. Trinity-Closure Criterion (vs. grid-completeness)

A full 10 × 6 grid is ~60 cells (up to ~75 if Proof/Gate are doubled thesis-plus-instrument, fewer if sparse-by-design is allowed). **Trinity-closure is a strictly lower bar** and is the correct v1 target:

- **Grid-complete** = every (area × domain) cell holds ≥ 1 document.
- **Trinity-complete** = each of the three owner-pairs is *closed* — both its domains lit in at least one area.

Trinity can therefore be demonstrated with as few as **six well-chosen documents** (one per domain) while most cells stay honestly dark. **Trinity first, full grid later.** The empty cells that remain after placement *are* the write-list — and there will be far fewer of them than the corpus already holds.

The three faces are already seeded: Row 1 of the FAVORS Cone — **ONE-GOOD · SECURITY-CLEARANCE · DATA-INTEGRITY** (Master Theses 01 / 02 / 03). Alignment to confirm in canon: One-Good → GOOD, Security-Clearance → SOUND, Data-Integrity → BEST. Each thesis heads one owner-badge; every other document tags to the owner whose thesis it descends from.

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7. Build Phases

1. **Tag.** Give every seeded document a `(area, domain)` pair and let it inherit its owner-badge. Cross-cutting documents may carry multiple domain tags and count once.
2. **Place.** Instantiate the ring (10 districts) × vertical (6 levels); light each level by owner color.
3. **Wire the loop.** Bind M × E + C = R to traversal so movement produces RATE; dock the read-head at 12:00.
4. **Close the Trinity.** Confirm the three owner-pairs light from the three anchor theses; resolve the hub.
5. **Enter via FAVORS.** Wire biometric-floor entry at the NBERS mouth and Voice-Portal/HFVN control.
6. **Report dark cells.** Emit the empty-cell list as the corpus write-queue.

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8. Document-to-Cell Binding (schema)

Each corpus document carries a minimal front-matter binding so the simulator can place it without hand-authoring:

```
eres_pivot:
  doc_id: ERES-…           # instrument ID
  area: 03                  # 1 of the 10 subject areas
  domain: Proof|Gate|Wheel|Light|Harvest|Market
  owner: GOOD|SOUND|BEST    # derived from domain, verify on ingest
  provenance: shared|earned  # sets radius
  favors_band: F|A|V|O|R|S   # sets angle
  thesis_root: 01|02|03      # which Trinity face it descends from
```

`owner` is derivable from `domain` (Proof/Market→GOOD, Gate/Wheel→SOUND, Light/Harvest→BEST); it is written explicitly only so ingest can flag a mismatch.

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9. Credits

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Institute — ERES Institute for New Age Cybernetics, established February 2012, Bella Vista, Arkansas. An open research program published "relatively free" under UBIMIA economics.

Trinity owner-badges (symbolic stewardship archetypes, per the ERES NAC Dual-Axis). The three badges below are structural roles *within the model*. The initials are the canonical badge-holders as assigned in the Dual-Axis; they denote symbolic stewardship within the framework and **do not indicate authorship of, or endorsement of, this document by the named individuals.**

BADGE	PRINCIPLE	TOTEM	OWNS	CANONICAL BADGE-HOLDER (PER DUAL-AXIS)
◈ GOOD	M	Duck	Proof + Market	JAS
✦ SOUND	R	Eagle	Gate + Wheel	DAL
⬡ BEST	P	Falcon	Light + Harvest	EMA

Drafting assistance — Prepared with AI drafting assistance (Claude, Anthropic), in keeping with the ERES transparency-first principle; all architecture, canon, and claims are the Author's and the ERES corpus's.

Source anchors — ERES-NAC-Dual-Axis; PlayNAC-KERNEL WhitePaper; ERES VERTECA White Paper v2.0; FAVORS Cone / PiVOT (Point-Indexed Verifiable Open Taxonomy); BERA Complete Report; CBGMODD Stateful Taxonomy; SCALULAR Engine; UBIMIA Manual.

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10. License & Contact

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