

# Risk, Trust, and Safety Model

How we keep signals trustworthy, keep operators safe, and keep alerts human-centered.

## 1) Source Provenance & Integrity

- Maintain source allowlist (CVE/NVD, CISA/CERT, vendor/OEM) and denylist for known spoofers.
- Record provenance on every alert: origin URL, timestamp, TLP, hash, and a confidence score.
- Detect poisoning/spoofing: domain verification, signature/PGP where available, verbatim match checks.
- Unverified tips enter a queue for Tier2 analyst validation; never auto-escalate.

## 2) User Verification (Lightweight)

- Invitation or referral-based onboarding; organization email and role attestation.
- Optional backchannel thumbs-up from trusted partners (where available).
- Risk-based access: sensitive guidance visible only to verified operators.

## 3) AI Safety & Human Oversight

- AI summarizes long advisories and proposes a score; humans confirm/adjust before action.
- Guardrails: instruction tuning against “unsafe actions” (no one-click shutdowns); prompt-injection tests.
- Log AI outputs and human overrides for error analysis; maintain a denylist of unsafe recommendation phrases.

## 4) Alert Fatigue & Notification Hygiene

- Mission-control single-card view; limit concurrent active alerts to the top few.
- Quiet Mode: only human-safety (RED) alerts can break through during protected windows.
- Suppression: duplicates, non-applicable alerts (via “Is this us?”), and low-confidence sources.

## 5) Auditability & Governance

- Every GO/HOLD/ESCALATE decision is timestamped with user ID, score breakdown, and provenance receipt.
- Tier2 escalation packages the alert, environment context, and logs for follow-up.
- Periodic review: sample AI summaries, false positives/negatives, and notification breakthroughs.