

Pre-Deployment Assurance Gate Console

authrex.systems · browser simulation · seeded PRNG · synthetic data only · client-side execution

Scope. Everything in this document describes independent research artifacts: browser simulations, formal models, and unbuilt hardware reference designs. Maturity is self-assessed. Nothing here is a certification, an Authorization to Operate, a government endorsement, or evidence of a fielded system. Model-checking results apply to the stated finite model and assumptions, not to physical implementations.

PURPOSE

Simulates ASSURE walking a candidate system through a ladder of configured evidence gates before release: passing every gate produces a signed assurance record as a release recommendation, while a failure returns HELD IN TEST together with the specific missing evidence.

CONTROLS AND DISPLAY

- Candidate queue on the left; each candidate carries synthetic evidence artifacts.
- Gate ladder shows each configured check; click a gate for its criteria.
- Verdict banner: ASSURANCE CONDITIONS MET (signed to the ledger) or HELD IN TEST.

READING THE VERDICTS

- The signed assurance record is an illustrative artifact: an internally generated, signed record of configured checks.
- It is not a certification, Authorization to Operate, legal approval, safety approval, airworthiness determination, or government release decision. Its evidentiary value depends on completeness of the checks, integrity of the test environment, key protection, and independent evaluation.

LIMITATIONS

Self-assessed TRL 3 to 4 reference architecture demonstration mapped to NDAA §1533 concepts.

CANONICAL TERMINOLOGY

SATA: Sensor & Actor Trust Assessment · HMAA: Human-Machine Authority Allocation · ADARA: Adversarial Deception-Aware Reasoning · MAIVA: Multi-Agent Integrity Voting · FLAME: Forced Latency for Authority-Managed Escalation · CARA: Controlled Authority Recovery Architecture · ERAM: Escalation Risk Assessment Model