Lineage Evidence Admissibility

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What It Specifies

Each event evidence record carries: contributing observations, sensor identities, processing primitives, classification result, and signatures binding the chain. Downstream consumers traverse the lineage to evaluate evidence quality.

Different downstream operations have different admissibility profiles. Defense engagement decisions admit against high-confidence corroborated evidence; alerting operations admit against lower-confidence preliminary evidence; the architecture supports the admissibility profile diversity.

Why It Matters Structurally

Evidence without lineage admissibility produces architectural ambiguity. Downstream operations cannot evaluate evidence quality; decisions are made against opaque inputs.

Lineage-evidence admissibility produces structural support. Downstream operations evaluate evidence structurally; admissibility profiles are declared; decisions are auditable.

How It Composes With Mesh Operation

The architecture defines the lineage-evidence format, the admissibility-profile declaration, and the cross-operation evidence transfer. Implementations apply the architecture; downstream consumers admit within the framework.

Admissibility composes with other features. Cross-jurisdictional admissibility, byzantine-robust admissibility under disputed evidence, and graduated-response integration all build on the admissibility primitive.

What This Enables

Defense engagement-decision support gains structurally-admissible evidence. Civilian critical-infrastructure decision support gains the same.

The architecture also supports admissibility evolution. As regulatory and operational standards evolve, admissibility profiles update through governance procedures.