Governance Chain Integrity Monitoring

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What It Specifies

Each governance chain in operation is monitored: credentialing authority operational status, authority chain integrity, credential revocation status. The monitoring produces credentialed health-events; downstream operations admit the events against admissibility.

Chain integrity events are themselves governance-credentialed. The monitoring authority, the evaluated chains, and the resulting integrity assessments all enter lineage.

Why It Matters Structurally

Operations assuming chain integrity face structural risk. Real authority chains can be compromised through credential theft, authority compromise, or revocation; the architecture must monitor structurally.

Chain integrity monitoring produces structural defense. The architecture surfaces integrity issues; downstream operations admit the issues; affected operations can be flagged or halted structurally.

How It Composes With Mesh Operation

The architecture defines the integrity-evaluation primitives, the monitoring-authority declaration, and the integrity-event recording. Implementations apply the architecture; monitoring operations proceed within the framework.

Monitoring composes with other features. Cross-mesh integrity monitoring federation, byzantine-robust monitoring under adversarial integrity reports, and dispute mechanism for integrity disputes all build on the monitoring primitive.

What This Enables

Defense mesh integrity gains structurally-supported monitoring. Civilian critical-infrastructure integrity gains the same.

The architecture also supports monitoring evolution. As authority chain patterns mature, monitoring evolves through governance procedures.