

Revocation Propagation Evaluation

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What It Specifies

Revocations enter as credentialed events: revoking authority, revoked credential, revocation reason, revocation timestamp. The architecture propagates the revocation; monitoring evaluates whether the propagation reached all relevant endpoints.

Propagation gaps surface as monitoring events. Endpoints that haven't received revocation, endpoints with stale credential caches, and endpoints with revocation-evaluation failures all enter the architecture as credentialed events.

Why It Matters Structurally

Revocation without propagation evaluation produces architectural risk. Stale credentials may continue to admit operations after revocation; the architecture must evaluate propagation structurally.

Propagation evaluation produces structural defense. The architecture surfaces propagation gaps; affected endpoints can be flagged or refreshed structurally.

How It Composes With Mesh Operation

The architecture defines the propagation-evaluation primitives, the gap-identification algorithms, and the event recording. Implementations apply the architecture; monitoring operations proceed within the framework.

Propagation composes with other features. Cross-jurisdictional revocation propagation, byzantine-robust propagation under contested revocation, and dispute mechanism for revocation disputes all build on the propagation primitive.

What This Enables

Defense credential management gains structurally-supported revocation. Civilian critical-infrastructure credential management gains the same.

The architecture also supports propagation evolution. As revocation patterns mature, propagation protocols update through governance procedures.