

Zero-Trust Device Management

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What It Specifies

The architecture admits unit operations only against current health attestation. Stale attestation, failed verification, or revoked admissibility all produce structural exclusion until renewed attestation.

Zero-trust admissibility is governance-credentialed. The admissibility authority, the requirements, and the resulting admissibility states all enter lineage; downstream operations admit only against current admissibility.

Why It Matters Structurally

Trust-by-default device management produces structural risk. Compromised, malfunctioning, or revoked units may continue operating until detected; the architecture must require continuous attestation structurally.

Zero-trust management produces structural defense. The architecture excludes non-attesting units; compromised units lose admissibility; operations continue only against currently-attesting units.

How It Composes With Mesh Operation

The architecture defines the attestation requirements, the admissibility-lapse handling, and the renewal protocol. Implementations apply the architecture; device management operations proceed within the framework.

Zero-trust composes with other features. Cross-mesh zero-trust federation, byzantine-robust admissibility evaluation, and dispute mechanism for admissibility disputes all build on the zero-trust primitive.

What This Enables

Defense device management gains structurally-supported zero-trust. Civilian critical-infrastructure device management gains the same.

The architecture also supports zero-trust evolution. As zero-trust standards mature, attestation protocols update through governance procedures.