

Technology-Neutral Governance

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What It Specifies

Each primitive in the architecture has a declared interface but does not bind to specific implementation technology. Implementations can use any technology that satisfies the interface; the architecture admits the implementations through declared certification.

Technology-neutrality is governance-credentialed. The interface declarations, the implementation certifications, and the resulting deployments all enter lineage; downstream operations admit against the certified technology.

Why It Matters Structurally

Technology-bound governance produces structural fragility. Cryptographic algorithms become deprecated, identity frameworks evolve, implementation technologies are superseded; technology-bound architectures require painful rebuild.

Technology neutrality produces structural longevity. The architecture survives technology evolution; new technologies integrate through declared certification; existing operations continue under their original technology bindings.

How It Composes With Mesh Operation

The architecture defines the interface-declaration format, the implementation-certification protocol, and the cross-technology composition rules. Implementations apply the architecture; technology-neutral operations proceed within the framework.

Neutrality composes with all other features. Cross-technology operations, post-quantum migration, and emerging-technology integration all build on the neutrality primitive.

What This Enables

Defense long-lifecycle operations gain structurally-supported technology evolution. Civilian critical-infrastructure long-lifecycle operations gain the same.

The architecture also supports interface evolution. As technology evolves, interface declarations update through governance procedures while preserving operational continuity.