

Coalition Mesh Interoperability

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What This Application Specifies

Coalition partners maintain national meshes under national authority. Coalition operations integrate through cross-mesh reconciliation: taxonomy-translators map cross-national taxonomies, temporal-reconciliation aligns cross-national time, lineage-preserving-import supports cross-national observation transfer, divergence-detector identifies cross-national inconsistencies.

Authority composition structures map to coalition reality: national authority for national mesh operations, alliance authority for alliance-level coordination, ad-hoc coalition authority for mission-specific coordination. The architecture supports the multi-level authority reality of coalition mesh operations.

Why It Matters Operationally

Current coalition mesh interop depends on coalition-specific data fabrics, mission-specific exploitation pipelines, and ad-hoc cross-coalition coordination. The interop faces structural limitations: coalition data-fabric capture concerns, coalition-specific lock-in, integration complexity that grows superlinearly with partner count.

Cross-mesh reconciliation produces structural improvement. National meshes retain authority; cross-coalition operations proceed through declared cross-coalition

federation; coalition mesh interop coheres without forcing coalition-specific data fabric.

How It Composes With the Domain

Coalition partners contribute credentialed mesh observations. Cross-coalition reconciliation operates through declared coalition federation. Adversarial actions (coalition-partner impersonation, coalition-data-leakage, coalition-coordination disruption) surface as credentialed integrity events. Coalition operations gain partition-tolerance through intentional-disconnect-mode operations.

Mission-specific coalitions gain structural support. Ad-hoc coalitions for mission-specific operations admit through declared mission federation; mission completion triggers federation expiration; the architecture supports the operational reality of ad-hoc coalition formation.

What This Enables

Coalition operations gain structurally-supported mesh interoperability. National sovereignty is preserved structurally. Coalition audit gains structurally-supported cross-national reconstruction. Mission-specific coalitions gain structurally-supported formation and dissolution.

The architecture also supports coalition evolution. As coalition arrangements evolve, as alliance frameworks mature, as ad-hoc coalition patterns emerge, the architecture admits the changes through declared specification.

