

Cross-Organization Supply Chain Mesh Federation

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Multi-Tier Reality

Modern supply chains for complex products (automotive, electronics, pharma, aerospace) span 10+ tiers across multiple jurisdictions. Each organization maintains its own ERP, traceability, and audit retention.

Cross-tier visibility, sustainability compliance (Scope 3 emissions, modern slavery, ESG), and emerging supply-chain regulation all face structural friction.

Mesh Reconciliation Substrate

Each tier maintains its mesh under organizational authority. Cross-tier operations proceed through declared multi-tier federation; sustainability attestation operates through credentialed observations; cross-jurisdiction compliance admits through declared international federation.

Multi-tier audit reads structurally rather than dependently.

Supply Chain Trajectory

EU CSRD, U.S. Uyghur Forced Labor Prevention Act, emerging Scope 3 disclosure frameworks all benefit from architectural cross-mesh substrate.