Cross-Mesh Taxonomy Translator

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What It Specifies

Translators are governance-credentialed: translation authority, source mesh taxonomy, target mesh taxonomy, mapping rules, and signature binding the translation. Cross-mesh observations admit against the translator before integrating.

Translation events enter lineage. The translator identity, translation outcome, and any translation ambiguity all enter the cross-mesh observation's lineage; downstream operations can verify the translation structurally.

Why It Matters Structurally

Cross-mesh observation without taxonomy translation faces structural ambiguity. Different meshes use different taxonomies; without explicit translation, the cross-mesh integration is ad-hoc.

Taxonomy translators produce structural specificity. Translation rules are declared; observations are translated explicitly; the translation lineage supports audit.

How It Composes With Mesh Operation

The architecture defines the translator-declaration format, the translation primitives, and the lineage recording. Implementations apply the architecture; cross-mesh operations proceed within the framework.

Translators compose with other features. Cross-jurisdictional translators, byzantine-robust translation under disputed mappings, and dispute mechanism for translation disputes all build on the translator primitive.

What This Enables

Cross-organization mesh integration, cross-jurisdiction mesh integration, and coalition-partner mesh integration all gain structurally-supported translation.

The architecture also supports translator evolution. As taxonomies evolve, translators update through governance procedures.