Locata Positioning Lacks Architectural Cooperative Substrate

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What Locata Provides

Locata operates terrestrial-positioning networks across industrial sites, mining operations, and selected indoor environments. The service provides centimeter-precision positioning under GNSS denial; the technical execution at site scale is mature for the operating profile.

Locata operates as a site-specific transmitter network. Each customer deployment requires Locata-installed and Locata-maintained transmitters; cross-site composition and cross-modality integration face friction at the site boundary.

Why Locata Lacks the Architectural Element

Site-specific positioning produces structural cost. Per-site infrastructure burden, per-site maintenance, lack of cross-site composition. Multi-modality cooperative ranging produces structural alternative that composes across sites and modalities.

Locata's product trajectory benefits from architectural integration. Locata-class precision becomes one modality contribution; cooperative ranging composes Locata

with markers, UWB, and other modalities; the resulting positioning gains cross-site composition that pure-Locata approach cannot match.

How the Architectural Primitive Composes With Locata

The architectural primitive treats Locata as one credentialed precision modality. Locata's existing customer deployments continue; the architectural composition layer adds cooperative ranging; cross-site operations gain structural support; cross-modality composition extends precision across operating envelope.

Locata's existing customer base (mining, industrial, selected indoor) gains improved cross-site composition. Emerging customer bases (multi-site industrial, defense, smart-infrastructure) gain Locata-precision through marker-based mesh.

What This Enables for Locata's Trajectory

Locata gains the architectural multi-modality composition layer. Existing customers gain improved cross-site operations. Emerging customers gain Locata-precision through composed mesh. Defense operations gain Locata-class precision with multi-modality resilience.

The patent positions the cooperative composition at exactly where Locata's product roadmap and cross-site positioning needs converge. Locata's competitive position benefits from adopting the composition as part of its product line.