

Indoor Medical Positioning for Hospital Operations

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Current RTLS Landscape

Stanley Healthcare AeroScout, CenTrak, Sonitor, Midmark RTLS, and similar hospital RTLS deployments operate at substantial scale across U.S., European, and Asian hospitals. Each vendor's deployment produces operational coherence within vendor; cross-vendor and multi-hospital composition faces friction.

Hospital systems with multiple buildings, multiple campuses, or multi-hospital networks face significant cross-vendor integration cost.

Mesh Substrate for Hospital Operations

Multi-modality ranging across UWB (for high-precision asset and patient positioning), BLE (for wide-coverage staff-badge positioning), passive-RFID (for low-cost equipment tagging), and credentialed-marker (for fixed-infrastructure positioning) integrates into mesh-derived coordinates.

Cross-vendor RTLS hardware integrates through credentialed mesh participation; cross-hospital operations admit through declared federation.

Audit-Grade Patient and Asset Tracking

Patient-flow audit (where did this patient spend each minute, with what staff contact), asset-utilization audit (which equipment was where, when), and infection-control audit (cross-contamination risk reconstruction) all operate against architectural records.

HIPAA-relevant access control operates through credentialed admissibility; cross-organization operations gain structural support.