

## Optimizing Indoor Wireless Coverage for Critical Communications and Enterprise Networks

### Indoor Planning Service Portfolio

From mission-critical public safety networks to high-capacity enterprise deployments, seamless indoor connectivity is vital to operational success. As wireless usage increases inside buildings, tunnels, and complex infrastructure, the need for accurate, reliable indoor planning becomes essential.

Our service portfolio combines industry-leading simulation tools, advanced measurement technologies, and decades of experience to ensure uninterrupted, high-quality indoor coverage—even in the most challenging environments.

At LS telcom, we specialize in delivering high-performance indoor wireless network planning and optimization for mission-critical, enterprise, and commercial applications. Our indoor planning services ensure reliable, secure, and high-quality connectivity across complex indoor environments such as airports, train stations, hospitals, manufacturing facilities, office buildings, and public venues.

With deep expertise in multi-technology networks including TETRA, LTE, 5G, Wi-Fi, and private broadband systems, our engineers design coverage solutions that meet stringent quality of service (QoS) standards while adhering to architectural, safety, and operational requirements.

### Our Indoor Planning Services

#### 1. Indoor Coverage Assessment

- On-site signal measurement and walk testing
- Signal strength, SINR, throughput, and delay analysis
- Identification of coverage gaps and interference zones
- Benchmarking against KPIs

#### 2. Network Design & Simulation

- Floor plan digitization and 3D modeling of indoor spaces
- RF simulation using CHIRplus or 3rd-party tools
- Antenna and small cell placement optimization
- Multi-technology network design (e.g., TETRA + LTE + Wi-Fi)

#### 3. Implementation Support

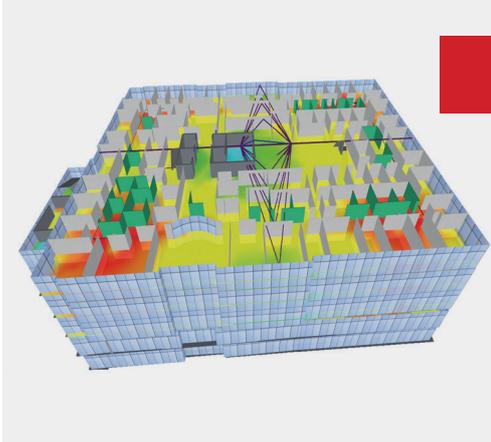
- Detailed design documentation
- Tender documents to procure the systems
- Procurement process support
- Roll-out coordination with facility and IT teams

#### 4. Post-Deployment Verification

- Acceptance testing and final performance verification
- Troubleshooting and optimization
- Documentation and certification support

## Delivering Value Through Precision and Performance

At LS telcom, our indoor planning services go beyond design—we deliver measurable results. From initial assessment to post-deployment optimization, our solutions ensure every square meter of your facility meets performance expectations. Backed by advanced tools and real-world experience, we help clients across industries achieve seamless indoor connectivity with confidence.



### Tailored Solutions by Sector

- Airports: Airside and terminal coverage, security systems
- Rail & Metro: Tunnels, stations, platforms
- Hospitals: Coverage for medical and emergency services
- Industry 4.0: Factory automation, warehousing, and robotics



### Engineering Expertise

#### Our multidisciplinary engineering teams offer:

- Decades of experience in RF and spectrum engineering
- Cross-technology knowledge: analog, digital, narrowband, broadband
- Deep understanding of ITU-R and ETSI standards
- Multilingual, global project delivery capabilities



### Why choose LS telcom

- Full Lifecycle Support – From feasibility studies to post-deployment audits
- Neutral & Independent – No operator or vendor bias
- Simulation Accuracy – Validated models with real-world performance alignment
- Proven Results – 500+ successful RF projects worldwide
- Turnkey Delivery – Including site surveys, design, testing, and documentation
- Compliance-Driven – Ensuring regulatory and safety adherence

For further information, please visit our website at [www.LStelcom.com](http://www.LStelcom.com) or contact us:

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