



Empowering Wireless Communications with Precision and Innovation

RF Engineering Service Portfolio

At LS telcom, we empower organizations worldwide to design, deploy, and optimize wireless communication systems that are robust, compliant, and future-ready. With over three decades of global experience, we have become a trusted partner for regulators, network operators, and critical infrastructure providers who demand flawless radio frequency (RF) performance.

Our RF engineering services cover the entire wireless network lifecycle – from initial feasibility and frequency planning through to deployment validation and ongoing optimization. Whether you are building a public safety network, managing national spectrum assets, or expanding a broadband infrastructure, our team brings the technical depth and regulatory insight to ensure success.

With advanced software, sophisticated measurement tools, and a global team of RF experts, LS telcom delivers tailored solutions that maximize spectrum efficiency, minimize interference, and enhance quality of service. We understand that in sectors such as emergency communications, transportation, and energy, reliable wireless connectivity is not optional, it's mission-critical.

Core Service Areas

1. RF Network Planning & Design

- Coverage and capacity planning (TETRA, 5G, IoT)
- Link budgets and propagation modelling
- Interference analysis and mitigation
- Frequency planning and optimization

2. RF Measurements & Benchmarking

- Drive tests and walk tests
- Coverage verification and KPI benchmarking
- Spectrum occupancy analysis
- Signal quality assessment (RSSI, SINR, RSRP/RSRQ)

3. Spectrum Engineering & Management

- Spectrum planning and licensing support
- Interference hunting and mitigation strategies
- Coordination and compatibility analysis
- EMC and co-site analysis

4. Network Audit & Optimization

- Audit of network design vs real-world performance
- Capacity planning and load balancing
- Quality of Service (QoS) enhancements
- Technology migration support (e.g., TETRA to LTE)

Engineering Excellence That Drives Network Performance

At LS telcom, our RF engineering services are built on precision, scalability, and industry know-how. Whether you're expanding a critical communications network or optimizing national spectrum usage, we apply proven methodologies and cutting-edge tools to deliver reliable, interference-free performance—every time.



Industries Served

- Public Safety & Emergency Services
- Public Transportation
- Airports & Ports
- Utilities & Energy
- Oil & Gas



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 or contact us:

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