Superior Integration and Continuous Optimisation of your Systems

Spectrum Management and Monitoring System Integration

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www.LStelcom.com
If you want to gain operational effectiveness in spectrum management then, hardware, software and other system components have to be smoothly integrated and fit with the customers individual needs.

We offer turnkey solutions as well as system and interface design of not only new systems but also existing, in-service, ones. Our product and service portfolio spans the entire life cycle from design and development, through production and operation, to maintenance and support, and, eventually, de-installation. Professional integration of spectrum management and monitoring systems is vital to always have precise real time measurement data available for optimal spectrum management, licence attribution and calculations. Our experts are dedicated to integrating monitoring vehicles, fixed and portable stations with spectrum management systems to assure smooth operation and data flow between the different system components.

Our multidisciplinary team provides a wide range of knowledge and the various skills required for excellence in system planning, continuous system optimisation, evaluation and cost-effective maintenance.

Our Competitive Advantage

Depth and Breadth of Knowledge
We combine sound expertise in all the three disciplines - spectrum management, monitoring and system integration - which provides us with the breadth of knowledge needed for the superior integration of both systems.

Vendor-independent
Our independency of infrastructure vendors enables us to offer a mix of different equipment which is most adapted to your needs and requirements. This way we guarantee genuine optimisation of your existing system and the best solutions for your new system.

Benefit from our experience and professionalism in spectrum management, monitoring and system integration combined with our creativity and capacity for innovation to make any project around your system a success.
Which phase of the life cycle is your system in?

Contact us at any point during your system’s life cycle. We accompany you during one phase, several phases or during the complete system life cycle. We adapt to your time, resource and budget constraints.
System Planning

Professional planning is the foundation of any well-functioning system and the guarantee for a long life cycle. Planning is critical for smooth system operation, its sustainability, robustness and cost-optimisation.

We analyse your exact needs and requirements to provide you with the most efficient system design for implementation, operation, maintenance, modernisation and de-installation of the system.

We cover everything from technical planning such as site planning, site survey, coverage planning to organisational and project planning as well as turnkey system solutions and complete system requirements analysis.

Site Planning & Site Survey
System Design & Network Planning
Ressource, Time & Cost Planning
Turnkey System Planning

Site Planning & Site Survey
Whether you need new or want to replace fixed sites or mobile sites, transportable or portable equipment; we can assist you in finding the most appropriate network configuration.

We know all about optimal site location, power, coverage planning and EMI (Electromagnetic Interference) and how to best adjust these to optimise the complete network.

System Design & Network Planning
We also have the resources and know-how for end-to-end system design and network planning, including equipment integration and data migration. We can plan and optimise your entire WAN and LAN network.

Our technical and organisational experience makes the difference in your system planning!
System Production

How to make sure your system is produced according to your final requirements

Once the planning is successfully completed and validated, it is important for the customer to gain insight into the production process to make sure the system is built according to plan and on time. Mistakes during production can lead to costs getting out of control, project deadlines postponed and malfunctioning of the final system.

At LS telcom, we work in close partnership with our customers to allow for genuine transparency in our production process. From the very beginning we want you to be confident about the system we produce.

Our sound system engineering is based on our commitment to excellence and our strict methods for Quality Assurance and Factory Acceptance Tests (FAT). You will work with a team consisting of experts in engineering as well as excellent managers for material flow, transportation, production and purchasing process management.

System Engineering
Design Review
Quality Assurance
Factory Acceptance Test

System production based on mutual trust!
Many different stakeholders and subcontractors are involved during system installation. Experts and managers from various disciplines collaborate to install a system. Numerous skills are needed, such as project management, human resource management, time management, problem solving skills and many others.

You need car integration? Mast construction or building construction for fixed sites? Road building in remote areas prior to installation work?

We bring it all together.
We assist you in the installation of fixed, mobile, transportable and portable stations, the integration of national and regional headquarters as well as the management of your dataflow.

Our knowledge in system engineering and contracting and our market expertise are based on over 20 years of international experience. We have integrated numerous spectrum management and monitoring systems worldwide – whatever their scope, budget or complexity.

Superior system installation in a minimum time - relying on our longstanding combined experience and market knowledge
Your new monitoring system is delivered optimised; but how do you make sure it remains optimised over time? Correct system operation and maintenance are not optional if you want to avoid premature repeat capital investments.

We offer different levels of operation and maintenance support according to your requirements, the configuration of your system and national regulations. This also includes data management and training to make sure that all users of the system are always familiar with latest system characteristics and functionality.

**System Operation**

Spare parts management, repair management and keeping the various system components up-to-date are vital activities to guarantee the *continuous well-functioning of the system* and to avoid frequent incidents.

**Operational Support**

**Warranty & Maintenance**

**Spare Parts & Repair Management**

**Data Management**

**Training**

Longer system lifetime with our experts in operation and maintenance!
Technology changes, cost optimisation and energy and power saving are only three reasons for spectrum monitoring system modernisation.

At LS telcom we provide the staff, proven tools and methodology to successfully modernise your complete spectrum management and monitoring system or only the required system components. We assure that your current system is updated to live up to the latest standards. We study the different alternatives for your system modernisation, taking into account various requirements and priorities, such as operational cost saving, efficiency and latest technologies. Our knowledge and experience of most recent national and international recommendations and regulations as well as current market challenges are also incorporated in our system modernisation solutions.

Site Pre-Planning
System Reconfiguration
Update/Upgrade of the Existing System
Site Movement
Consultancy
Data Protection

Modern Monitoring: Small and smart instead of big and beautiful!
System De-Installation

Spectrum management and monitoring systems demand high capital investments and high operational costs. It is therefore increasingly important to properly de-install such systems and make the most out of existing assets.

We support you in the reselling of your system and its disposal. System components are properly handled and scrapped if necessary in accordance with your procedures. We also assist in finding the optimal solution of system reselling profits and de-installation costs.

Furthermore, we make sure that the de-installation follows environmentally friendly guidelines and take care of site restoration, re-naturalisation or sale.
Portfolio Overview of LS telcom

Spectrum Management
LS telcom is the unchallenged worldwide market leader in the provision of spectrum management systems and services. Our SPECTRA Spectrum Management Solution and our expertise are based on almost two decades of expert research & development. The highly modular and flexible SPECTRA System covers all fundamental spectrum management tasks, including online licence processing as well as financial management and possible integration of financial software systems, Online Payment Gateways, Customer Relationship Management systems or auctioning sub-systems.

System Integration
Perfect integration of spectrum management and monitoring systems is vital to always have precise real time measurement data available for optimal spectrum management, licence attribution and calculations. Our system integration experts are dedicated to integrating monitoring vehicles, fixed and portable stations with spectrum management systems to assure smooth operation and data flow between the different system components.

Network Planning & Optimisation
Our Network Planning Software and Services address the efficient and profitable use of radio frequency spectrum and guarantee the most optimal operation of radio communication services covering all technologies.

Broadcast
We are the pioneer in Broadcast & Mobile TV network planning solutions and services and our best-in-class Broadcast Planning Software Tool Suite CHIRplus_BC is used for the planning, optimisation and coordination of Mobile TV, hybrid and broadcast networks.

Digital Mobile Radio, Transmission & PMR
Whether you need to plan a new or extend and optimise your existing transmission or cellular network. Our Software Tools for telecommunications cover the design and optimisation of multiple technology 2G, 3G and 4G cellular networks as well as point-to-point and point-to-multipoint transmission networks.

Strategic Consulting
We offer high-level strategic consulting to improve processes and help make research-based decisions in radio communications. We have consultants who are experienced in radio communication business and strategic decision-making, highly skilled in project management, collaborative and dedicated to sharing their long-term experience and profound knowledge with our customers.

Training
Do you agree that your employees are your company’s most valuable asset? For nearly a decade, our LS Training & Competence Centre offers a constantly growing programme of first-class broadcast, telecommunications, spectrum management and monitoring training courses, seminars and best practices education to professionals of all levels.

Radio Engineering
We are widely recognised in the industry for our radio planning and optimisation expertise and have a proven track record of delivering quality results in radio network planning, design, engineering and frequency coordination covering all common Broadcast, Mobile Communication and Microwave technologies.
Our Competitive Advantage in System Integration

- Frequency Regulatory Authorities
- Ministries
- Network Operators
- System & Infrastructure Suppliers
- System Integrators
- Media Companies
- International Institutions

... in over 80 countries worldwide belong to our customers

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