



Secure and Reliable Communications

Protection of Critical Infrastructure

In times of increasing digitalization and networking, the number of wireless devices in critical infrastructure is steadily rising. These range from simple sensors that transmit small amounts of data to complex systems such as driverless transport systems that require broadband transmission via 5G or other modern radio technologies. Interference-free radio transmission is of central importance in this context. A failure of such systems can severely disrupt or even paralyze operations. Since the radio frequency spectrum is a limited and increasingly heavily used resource, and many frequency bands are not reserved exclusively for specific applications, comprehensive management of the wireless devices used and the use of radio measurement technology are of crucial importance. In addition, unknown wireless devices and external transmissions can present a security risk, as they can reveal sensitive usage data or serve as a potential gateway for cyber attacks.

Preventive Radio Protection

LS telcom offers an integrated and automated solution for preventive radio protection. The solution is based on the mySPECTRA frequency management system and the LS OBSERVER radio monitoring system and supports the mandatory processes relating to logging, detection, and response. Furthermore, LS telcom supports customers in project planning and system implementation, starting with an inventory analysis and continuing through to commissioning.



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3 Steps for Preventive Radio Protection

LS telcom has developed a formalized and proven procedure for preventive radio protection based on the following processes prescribed by the Federal Office for Information Security (Bundesamt für Sicherheit in der Informationstechnik):

1. Documentation

Continuous recording and maintenance of your own radio equipment/infrastructure in a central database, using standardized and digitized business processes.

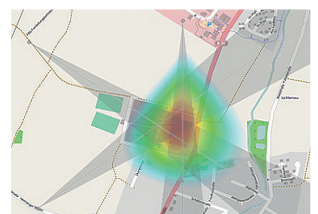
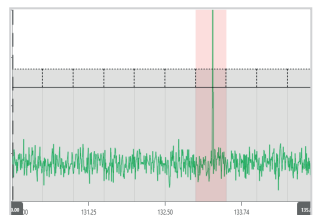
2. Detection

Continuous (24/7) monitoring of the radio spectrum, ongoing storage of measurement data, and AI-based detection of anomalies in the radio spectrum.

3. Response

Automated detection of unknown radio devices, external transmissions, active radio interference, and thus potential hazards.

Our solutions for frequency management and radio monitoring guarantee you effective and preventive radio protection. The goal is to ensure the long-term functionality and security of wireless infrastructures and to make operation smooth and secure even in dense and non-exclusive radio environments.



For further information, please visit our website at www.LStelcom.com or contact us:

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