

Use Case

# Network Intelligence and SLA Monitoring in Correctional Facility Environments with XEdge

In environments where network reliability and control are crucial, XEdge from VIAMI stands out as a pioneering solution tailored for monitoring and ensuring compliance with high network standards. This is particularly vital in sensitive settings like correctional or prison facilities, where unauthorized mobile coverage must be meticulously controlled and eliminated.

XEdge is the ultimate tool to verify the absence of public mobile network coverage, adhering to strict regulatory requirements applicable to prison facilities. With its capability to monitor various network parameters and automatically trigger alarms upon detecting unauthorized coverage, XEdge ensures a controlled communication environment. Its robust design supports connection via LAN and can store all relevant network statistics for up to a year, providing prison administrators with a reliable and autonomous network monitoring solution.

XEdge provides several core features, including:

- **Automated Monitoring:** XEdge automates the monitoring of mobile network availability, ensuring the RF network situation meets the most stringent standards. This feature provides continuous oversight of the network, eliminating the need for manual checks
- **Real-Time Analytics:** XEdge enables immediate insights into the RF situation status, with the ability to simultaneously monitor multiple mobile operators, various bands, and technologies. This real-time data provides for quick identification and resolution of network issues and related, automatic triggers
- **Edge Intelligence:** By leveraging advanced edge computing, XEdge delivers in-depth network analytics directly from the point of deployment. This decentralized approach ensures efficient data processing and minimizes latency
- **User-Friendly Interface:** XEdge is designed with simplicity in mind, making it easy for anyone to operate without requiring expert knowledge. The cloud-managed platform facilitates easy access and management via LAN, making it ideal for environments where WiFi usage is restricted



- **Comprehensive Security:** XEdge prioritizes network data integrity and ensures compliance with prison regulations. The system employs robust security measures to protect sensitive information and maintain the highest level of data protection
- **Scalability and Flexibility:** XEdge is designed to scale seamlessly, accommodating the unique requirements of various prison environments. The system's modular architecture allows for easy expansion and customization to meet specific needs
- **24/7 Support:** XEdge comes with round-the-clock technical support, ensuring that any issues or questions are promptly addressed. The dedicated support team is committed to providing exceptional assistance and maintaining optimal system performance
- **Historical Data Storage:** XEdge securely stores all collected network statistics, allowing for historical analysis and trend identification over a period of one year or more. This feature enables users to track network performance and identify patterns
- **Integrated Drive and Walk Testing:** Utilize the same XEdge units for seamless drive and walk testing, acquiring critical network information without the need to deploy purpose-built drive test equipment

Finally, XEdge is equipped with advanced features suitable for prison environments, including monitoring of three or four mobile operators simultaneously; autonomous operation with cloud connectivity for remote management; LAN support, ensuring compatibility with environments where Wi-Fi is restricted; comprehensive data retention, with statistics storage capability for up to one year; an extended-life battery; continuous testing; and operator, technology, and band monitoring.

XEdge was designed for environments such as secure facilities and campuses that include correctional/prison facilities and detention centers. XEdge automatically monitors mobile networks, ensuring compliance with strict regulations and monitoring for possible unauthorized communication. XEdge offers the ability to track various network aspects, alert staff to unauthorized coverage, and support thorough testing to extract specific details such as band and operator. Built to connect via LAN and store network data for long periods, XEdge provides reliable, autonomous monitoring tailored to the unique needs of correctional institutions.



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