

Use Case

Advanced Network Insight for Mobile Operators with XEdge

In the demanding telecommunications sector, network reliability and performance are imperative. XEdge introduces a paradigm shift in network monitoring and optimization, providing robust tools for SLA compliance and network testing, essential for maintaining uninterrupted connectivity.

XEdge: A Technical Deep Dive for Mobile Operators

XEdge stands as a pivotal tool for mobile operators, engineered to enhance network management and ensure SLA adherence through its comprehensive feature set.

XEdge offers several technical advantages for mobile operators:

- **Active Multi-Operator Monitoring:** XEdge's capacity to concurrently monitor and test up to four mobile networks facilitates real-time performance analysis, offering a deep dive into network dynamics
- **Simultaneous Multi-Operator Analysis:** XEdge provides a comprehensive view across different networks, enabling comparative analysis and strategic oversight
- **Critical Area Surveillance:** Maintain superior network quality in essential zones, such as high-density areas or VIP sectors, ensuring top-tier service
- **Autonomous System Verification:** Confirm the readiness of extensive and costly indoor infrastructures, like stadium networks, remotely, saving both time and manpower
- **Integrated Drive and Walk Testing:** Utilize XEdge units for seamless drive and walk testing, acquiring critical network metrics without on-site deployment
- **Scalable Solutions:** With configurations available for 2 or 3 modems, XEdge offers scalable solutions tailored to various operational needs and financial frameworks



Load Generator for Network Testing

Beyond monitoring, XEdge serves as an effective load generator, employing UDP and TCP protocols to simulate traffic within lab environments and indoor systems, enabling operators to:

- Conduct stress tests on network infrastructure
- Identify and resolve potential bottlenecks
- Enhance network performance under peak load conditions
- Assess system resilience and dependability
- Through realistic traffic simulation, XEdge empowers operators to proactively strengthen their networks against the most challenging conditions

Public and Private Mobile Networks

XEdge is ideally suited for both public and private mobile network environments, offering:

- Tailored testing and monitoring capabilities for different network setups, from widespread public networks to controlled private networks
- Enhanced control and security for private network operators, allowing for precise performance tuning and optimization
- Seamless integration into existing network infrastructures, facilitating a unified approach to network management and testing

Designed for ease-of-use, XEdge operates autonomously, necessitating no daily oversight or specialized network knowledge. Once configured, it manages network optimization, requiring no intervention while the device works fully unattended.

XEdge guarantees that network services consistently surpass SLA standards, ensuring seamless connectivity for end-users and elevating your network beyond standard performance levels.

For a comprehensive demonstration of how XEdge can transform your network management and load testing capabilities, contact us and begin your journey towards unmatched network intelligence.

eSIM Capabilities for Expanded Testing

XEdge incorporates eSIM technology, enabling operators to add new operators and MVNOs remotely for comprehensive testing. This feature allows for:

- Quick integration and testing of different network operators and MVNOs without physical SIM card swaps
- Flexible and rapid switching between network providers to assess performance and compatibility
- Streamlined process for expanding testing scopes and operational flexibility

Controller Server-Based Software

The XEdge Controller, a server-based software, enables remote management of XEdge devices, offering:

- Real-time monitoring and control over network tests
- Consolidated network performance analysis and reporting
- Remote configuration and firmware updates for XEdge devices
- Integration with existing network management systems for cohesive operations



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