

XEdge for Distributed Antenna System (DAS) Providers

Enhancing Deployment, Acceptance, and Quality of Service



Distributed Antenna System (DAS) providers face constant pressure to design, deploy, and maintain reliable multi-operator indoor coverage in high-density venues such as airports, stadiums, malls, and corporate campuses.

Customers expect seamless service, operators demand SLA compliance, and regulators require audit-ready proof.

XEdge gives DAS companies the tools to deliver – across the full lifecycle from deployment to operations – at a very low cost.

Key Challenges DAS Providers Face

- **Multi-Operator Coverage Validation:** Ensuring equal performance across multiple carriers without bias
- **Acceptance Testing:** Proving to operators and venue owners that the system meets design specifications
- **Stress Testing:** Validating uplink/downlink capacity of new DAS and advanced DAS (ADAS) systems under heavy load conditions
- **Ongoing QoS Assurance:** Continuous monitoring to detect degradation before complaints arise
- **Cost and Efficiency:** Reducing repeated walk/drive tests and avoiding costly truck rolls

How XEdge Helps DAS Companies

- **Multi-Operator Benchmarking at Deployment:** A full XEdge probe can simultaneously monitor up to four operators. During DAS acceptance, it verifies balanced coverage and capacity, ensuring no operator is disadvantaged. Provides audit-ready reports for all stakeholders, reducing disputes at handover.
- **On-Site Reference SLA Monitoring:** A compact “XEdge Lite” or single-radio unit can be left behind on site to continuously measure coverage and throughput. This establishes a baseline SLA reference for each venue, giving DAS providers proof of long-term performance.
- **Stress Tests for DAS and ADAS:** XEdge can execute heavy load tests to validate uplink and downlink capacity per operator, ensuring each operator receives the throughput and quality they pay for. This capability is critical for acceptance of new and advanced DAS deployments.
- **Continuous QoS Assurance:** Remote scheduling of active tests (latency, throughput, app performance, video, WiFi calling). Real-time alarms flag performance degradation early, before customer complaints. Supports First Responder priority validation in public safety DAS systems.
- **OpEx Savings:** Automated, unattended monitoring reduces need for repeat walk tests or manual spot checks. Remote access means problems can be diagnosed without site visits, saving time and cost. Delivered at very low cost compared to traditional methods.

Example ADAS (Advanced DAS) Use Cases

- **Stadium Deployment:** Multi-operator validation during acceptance, then XEdge Lite left on-site for ongoing monitoring of match-day performance
- **Airport Terminals:** Continuous SLA monitoring of passenger and operational services, including WiFi and public safety communications
- **Corporate Campuses/Hospitals:** Application-layer testing (ERP, VoIP, telemedicine apps) ensures the DAS supports critical business and medical services
- **ADAS Acceptance:** Stress testing uplink/downlink capacity ensures advanced DAS delivers contracted performance to each operator

Value for DAS Providers

- Deliver proven quality across operators
- Simplify acceptance testing with automated, auditable reports
- Stress test uplink/downlink capacity to prove performance guarantees
- Provide continuous assurance to customers
- Reduce operational costs with remote, automated monitoring
- Offer all of this at very low cost, minimizing incremental investment



XEdge transforms DAS from a “deploy and forget” system into a continuously assured, SLA-backed service – with full validation of capacity, performance, and quality at minimal cost.





viavisolutions.com

Contact Us +1 844 GO VIAVI | (+1 844 468 4284)

To reach the VIAVI office nearest you, visit viavisolutions.com/contact
sales.xedge@viavisolutions.com

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