



How Mediacom Expanded Edge Capacity While Keeping OPEX Under Control

Overview

Building a Reliable Foundation for Growth

As one of the largest cable operators in the United States, Mediacom continually invests in technology that guarantees dependable, high-performance connectivity for its millions of subscribers. Facing rising customer demand for faster speeds, more stable connections, and higher service quality, Mediacom sought to enhance the stability and scalability of its network edge, without increasing operational complexity or cost.

To achieve this, Mediacom turned to BATM Networks' Telco Systems T-Series, a proven line of Carrier Ethernet and MPLS aggregation and demarcation devices trusted by service providers worldwide for performance, reliability, and long-term support.

The Challenge:

Ensuring Stability and Performance Across a Growing Footprint

Mediacom's engineering team needed to expand capacity while maintaining **carrier-grade reliability and operational simplicity**.

Key requirements included:

- Seamless integration with the existing network architecture
- Predictable, SLA-assured performance for business and residential customers
- Centralized management with advanced OAM (Operations, Administration & Maintenance) tools
- A stable, future-ready hardware backed by responsive technical support

The company's goal was not just to add bandwidth, it was to **standardize on a dependable, service-proven device** that would scale smoothly for years to come.

The Solution:

Deploying the T-Series for a Robust and Scalable Edge

After comprehensive testing, Mediacom selected BATM Networks' T-Series, specifically the TM-3348SH for access demarcation and the TM-8104 for aggregation.

Together, these products form a resilient, high-capacity edge solution that supports 1GE, 10GE, and 100GE connectivity with advanced SLA and traffic-engineering features.

TM-3348SH: 10GE Demarcation

Built for carrier environments, the TM-3348SH combines:

- ✓ **Advanced QoS:** per-service and per-EVC traffic shaping and rate-limiting for predictable performance and SLA enforcement.
- ✓ **Hardware-based OAM Toolkit:** IEEE 802.1ag CFM, ITU-T Y.1731, RFC 2544, and Y.1564 test capabilities enable real-time monitoring, proactive fault detection, and in-service testing.
- ✓ **Carrier-grade Resiliency:** sub-50 ms failover using FRR, MC-LAG, BFD, and G.8032 ring protection mechanisms.
- ✓ **SDN Integration:** NETCONF/YANG programmability allows seamless orchestration with EdgeGenie management suite.

At the access layer, Mediacom deployed the TM-3348SH, a compact 1RU, half-width device designed for 10GE/MPLS/IP aggregation and demarcation.

Deployed at key service sites, the TM-3348SH gives Mediacom **fine-grained control of Ethernet services**, reduces truck rolls, and delivers end-to-end OAM visibility across the access network.



TM-8104: Modular 1.2 Tbps Aggregation

Key advantages include:

- ✓ **Extensive Interface Options:** up to 88 × 10GE or 4 × 10GE ports in a single chassis.
- ✓ **Comprehensive Service Assurance:** hardware-based CFM, Y.1564, RFC 2544, and Y.1731 tools, ensuring accurate measurement of latency, loss, and SLA compliance.
- ✓ **Resilient Architecture:** dual-homing HVPLS, FRR, and G.8031/G.8032 redundancy deliver sub-50 ms recovery.
- ✓ **Flexible Service Support:** MPLS L2/L3 VPNs, VPLS, VPWS, and segment routing for dynamic service delivery.
- ✓ **Low OPEX and Simplified Management:** a unified OAM and QoS framework minimizes manual configuration and accelerates new-service rollout.

At the aggregation layer, Mediacom deploys the TM-8104, a **1.2 Tbps multi-service aggregation** switch that consolidates multiple edge connections and supports both 10GE and 100GE uplinks.

The TM-8104 now serves as a central aggregation point for Mediacom's regional hubs, delivering both **business Ethernet and broadband aggregation** with carrier-grade reliability.



The Results:

Proven Reliability and Long-Term Partnership

By standardizing on BATM Networks' T-Series, Mediacom has built an edge network that is highly stable, resilient, and easy to operate. The collaboration has led to:

- **Exceptional service uptime** and performance consistency across distributed regions
- **Simplified operations** through unified OAM and centralized management
- **Future-ready scalability** with 10GE and 100GE interfaces
- **Strong vendor support** and responsive assistance from BATM Networks' engineering teams

This successful deployment has encouraged Mediacom to make a **significant, ongoing investment** in BATM Networks' T-Series portfolio as its primary edge-platform standard.

A Trusted Partnership for the Next Generation of Networks

Mediacom's experience underscores why BATM Networks' T-Series is a preferred choice for service providers upgrading their access and aggregation layers. With proven carrier-grade hardware, advanced service-assurance tools, and responsive technical support, the T-Series delivers lasting value and operational peace of mind.

As Mediacom continues to scale its network and services, BATM Networks remains a trusted partner, providing the reliable technology foundation required to support tomorrow's connectivity demands.

Want to talk with a solution expert? Reach out salesnetworks@batm.com