

Case Study: BTC Broadband - 10G Services over Regional WDM Backbone**Application Challenges**

BTC Broadband operates in a competitive environment and must maintain scalable bandwidth capacity in their backbone to satisfy their internal as well as their customer's growing service needs. Consequently, BTC Broadband expanded their fiber network infrastructure to provide area businesses an alternative to other communication service providers.

Customer Benefits

- Cost effective solution enables the deployment of WDM backbone network with better service offering along with enhanced quality of end-user experience
- 10G links provide high capacity bandwidth between locations
- Provides the ability to quickly expand and add services to meet their networking needs
- Enables the extension of services more reliably
- Provides simplified end-to-end optical service provisioning and management

CUSTOMER PROFILE

BTC Broadband is a fiber-optic based regional broadband communications service provider offering advanced telecommunications services in Oklahoma. The company has heavily invested in fiber infrastructure over the past decade and currently supplies a fiber optic network to over 50 Bixby and South Tulsa neighborhoods and to businesses in a 50 mile radius of Bixby.

SERVICES OFFERED BY THE CUSTOMER

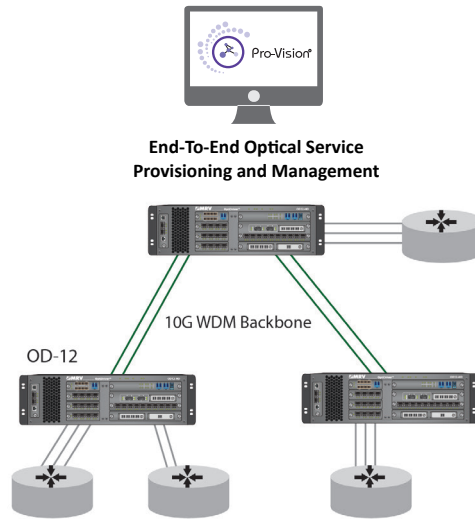
BTC Broadband has built a resilient fiber backbone network that spans from Bartlesville to Henryetta. BTC Broadband's commercial service area covers the Tulsa business market as well as other business communities in Green Country including Bartlesville, Collinsville, Glenpool and Okmulgee. The fiber backbone network makes it possible to launch service points in every business district along the route.

This network enables BTC Broadband to offer a variety of fiber optic telecommunications services to both residential and business customers.

Their business services portfolio include:

- High-speed Internet access
- Data networking
- Local and long distance phone services
- Hosted and managed phone services
- Computer and network disaster recovery services

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HIGH-LEVEL DESCRIPTION OF MRV SOLUTION AND IMPLEMENTATION

BTC Broadband needed additional bandwidth for their internal network as well as bandwidth necessary to support future customer traffic growth. Limited fiber was available between key locations, so a WDM solution was proposed and adopted as part of BTC Broadband's long term strategic network expansion plan.

The WDM network includes the following MRV solution components:

- OptiDriver OD-12 compact high-density Optical Transport system
- 10G OTN Transponders with forward error correction (FEC)
- Pro-Vision – Service Provisioning and Management system

The solution can grow to support up to 40 wavelengths and initially supports 10G services, with the ability to expand to 100G services.

WHY MRV?

- The MRV products were cost competitive and provided BTC Broadband with the bandwidth to satisfy their immediate needs as well as options for expansion
- MRV provided a consultative approach to supporting BTC Broadband's requirements and deployed a solution that met design needs as well as supported critical delivery and turn-up dates

ABOUT MRV

MRV Communications (NASDAQ: MRVC) enables service providers, data center operators and enterprises to make their networks smarter, faster and more efficient. MRV's end-to-end portfolio includes innovative packet, optical and software platforms designed for flexibility and reliability. To learn more about MRV visit www.mrv.com and follow us on Twitter @MRVC

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