

Revolutionize Diagnostic Capability at Network Demarcation Centers

FiberConnect for Demarc Centers

Calient's DiamondWave® platform is a proven, cost-reducing solution at network demarcation points. Having been successfully implemented in extremely service-critical submarine cable landing sites, the DiamondWave platform has revolutionized remote monitoring, test and diagnostic capability—in some cases permitting "lights out" operation at these geographically remote offices.

While proven successful in submarine landing sites, the DiamondWave solution is beneficial anywhere one carrier hands-off to another or where segments of a carrier's network require precise recording of service indices on hand-off, such as a carrier hotel, point-of-presence, or geographically remote central office—anywhere service performance verification is critical.

The DiamondWave® FiberConnect can permit operations personnel to remotely access up to 320 fibers—by selecting an individual fiber in real time and/or by automatically polling across all fibers in a monitoring or diagnostic implementation.

FiberConnect is a total test solution, integrating command and control functions for the test equipment and giving a single interface to a broad range of test equipment.

Features

- Low loss fiber taps for near-transparent performance
- Brings quality-of-service test gear—such as protocol analyzers, packet analyzers, load testers, multicast inspectors, and IP video testers—on-line in the demarcation center to permit remote testing, diagnostics and fault isolation

Benefits

- ROI studies of actual deployments have demonstrated payback in less than three months
- Permits "lights dimmed" or "lights out" operation at remote locations
- Network demarcation insures service levels are met at critical meet points in the network
- Significant reduction in truck rolls due to NOC monitoring and diagnostic capability deep in the network
- Enables technicians to be equipped with precise diagnostic information
- Increased diagnostic monitoring capability improves preventative maintenance

Business Case

A major Inter Exchange Carrier (IEC) acting as the Maintenance Authority deployed Calient's DiamondWave® solution in multiple submarine cable sites to remotely monitor performance across disparate network elements. Using a polling algorithm, every fiber was regularly tested and compared to that fiber's historical performance levels. This permitted remote monitoring and fault isolation far superior to manual monitoring. Lights-out operation at these sites generated 50% reduction in operational costs. The resulting ROI was achieved in less than one year on a \$150k annualized loaded labor base. In addition, the NOC was able to respond to and dispatch repair crews prior to events based on diagnostic data heretofore not available.

