

LEVEL 3[®] ENCRYPTED WAVELENGTH SERVICE

SECURE, EFFICIENT AND HIGH-PERFORMING



Enterprises must continually evolve to stay relevant in today's hyper-competitive environment. We see companies across the globe turn to digital initiatives to help drive business, product development, and customer experience innovation. But, whether implementing cutting-edge applications or securely moving massive amounts of data between data center and cloud environments, the potential complexities that arise can make it truly challenging for IT organizations to keep up with business demands.

In today's business, you need highly scalable network connectivity with in-flight data encryption and an easy-to-use key management tool that only you can control and have visibility into.

Business Solutions

We can help. Evolve your network and keep up with the pace of change as your business transforms. Gain security, efficiency and high-performance with Level 3[®] Encrypted Wavelength Service:

SECURITY



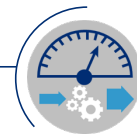
- Simplified security infrastructure and management
- Level 3-provided customer premise wavelength equipment – end-to-end encryption at layer 1 helps to mitigate man-in-the-middle attacks
- Customer controlled service activation and key management via the MyLevel3SM portal

EFFICIENCY



- Single pane of glass for encryption key management
- No key management equipment necessary
- Help minimize capital outlay
- Less encryption overhead

GROWTH



- Ease of scale up to 100G to support growing bandwidth demand
- Global reach with high-capacity footprint in NA and EU to make site adds easier
- Connect to on-net Level 3 locations for better performance

Technical Features and Benefits

- AES-256 encryption with Diffie Hellman dynamic key exchange (2048 bit).
- Separated security domain management platform accessible via MyLevel3SM portal with two form factor authentication access.
- Wide range of speeds supported
 - Ethernet speeds: 10, 40, 100 Gbps
 - SONET/ SDH speeds: 10 Gbps
 - OTU speeds: OTU 2, 2e, 3, 4
 - FICON and Fiber Channel (Metro only): 8, 10 and 16 Gbps SAN
- Protected and unprotected solutions
- Available low-latency routes and guarantees to meet demand for high performance data mirroring applications
- Available custom routing and network transparency to enable resiliency and maximize customer routing and mapping control
- FIPS 140-2 and Common Criteria (CC EAL-2) certified (future) for compliancy

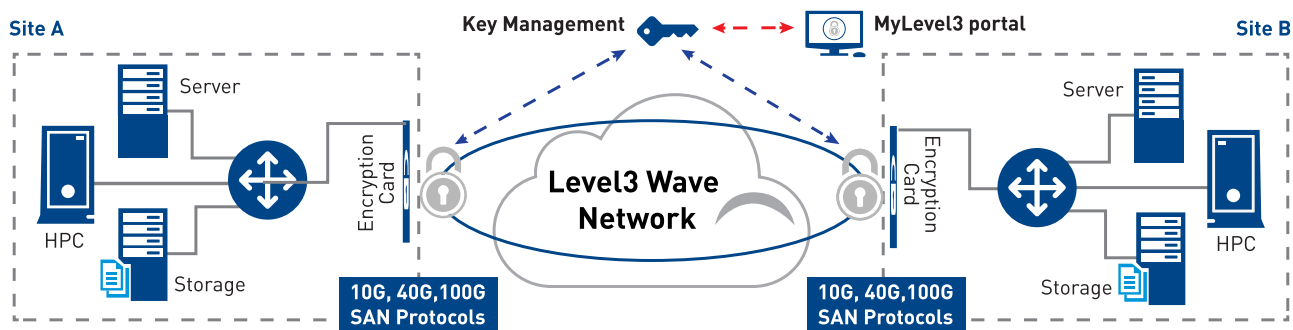


Figure 1: Level 3 Encrypted Wavelengths

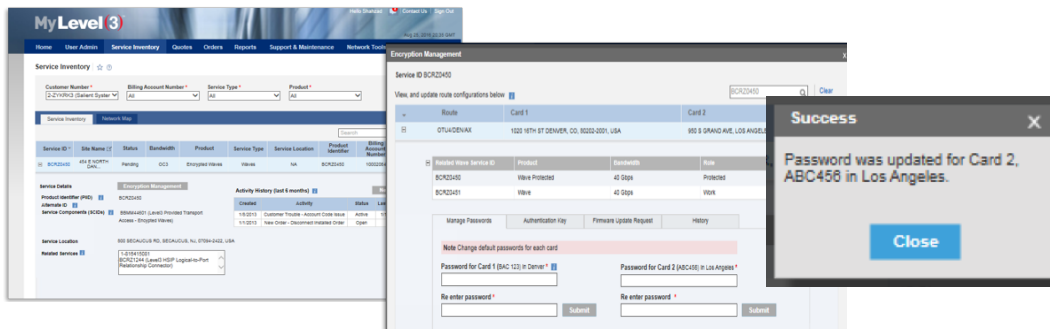


Figure 2 : Visibility and Control with MyLevel3 Portal Key Management Tool

Why Choose Level 3

- Transformational solutions to achieve your digital initiatives
- Customer-controlled encryption key management via secure, purpose-built application that resides within the MyLevel3SM portal
- Strictly separated encryption domain manager
- Transparent wire-speed service using the internationally recognized AES 256 (Advanced Encryption Standards) algorithm
- Simplified security infrastructure and management to help reduce capital outlay
- Leverage other key Level 3 wavelength service benefits– scale up to 100Gbps, global reach, diversity, protected custom design routing and low latency options and a complete solution

ABOUT LEVEL 3

We operate and take end-to-end responsibility for network solutions that connect you to the world. We put customers first and take ownership of reliability and security across our broad portfolio.

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