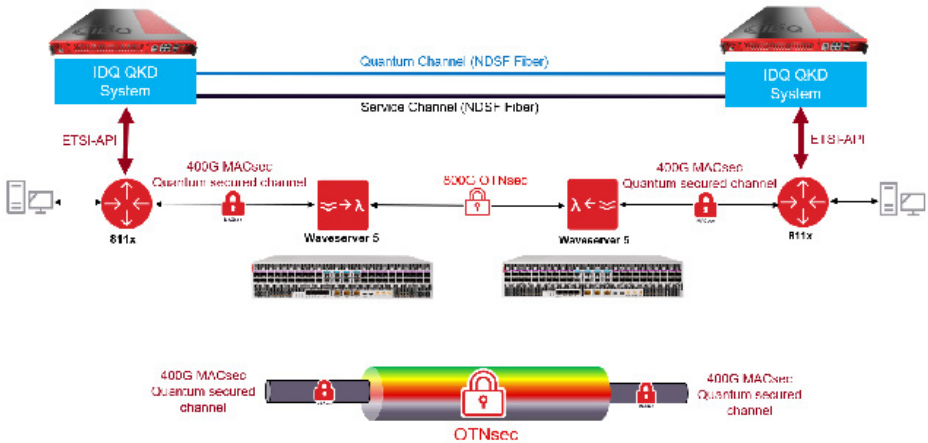


Achieving a Higher Level of Security Combining 400Gbps MACsec Quantum-secured Channel with 800Gbps OTNsec Encryption

Ciena - ID Quantique
Quantum-Safe Network demonstration at OFCnet '24



Ciena and ID Quantique demonstrate how 400Gbps MACsec quantum-secured channels can enable network operators to detect and defend against eavesdroppers across metro applications. The demo features Ciena's 8140 Coherent Aggregation Router leveraging open APIs to communicate with ID Quantique's Quantum Key Distribution (QKD) Cerberis XGR platform.

The 400Gbps channel is MACsec encrypted using symmetric keys generated by the QKD technology, enabling a solution that is mathematically proven to provide unconditional security of in-flight data and that is highly resilient against eavesdropping attempts. Additionally, the 400Gbps MACsec quantum-secured channel is multiplexed onto an 800G OTNsec encrypted optical channel using Ciena's Waveserver 5 platform.

More info

