High-Capacity Monitoring Service Node

Network traffic is continuing its steep growth curve driven by the sheer volume of connected devices and the diversity of applications ranging from smart meters and automobiles to high-speed enterprise networks to massive global content delivery networks. Service Providers, large enterprises and government agencies are already embarking on network migrations to 100G technologies and beyond to meet this demand, however maintaining network visibility is a very different challenge at 100G line rates. IT professionals must adopt innovative new approaches to maintain critical visibility for their security, compliance and business intelligence functions.
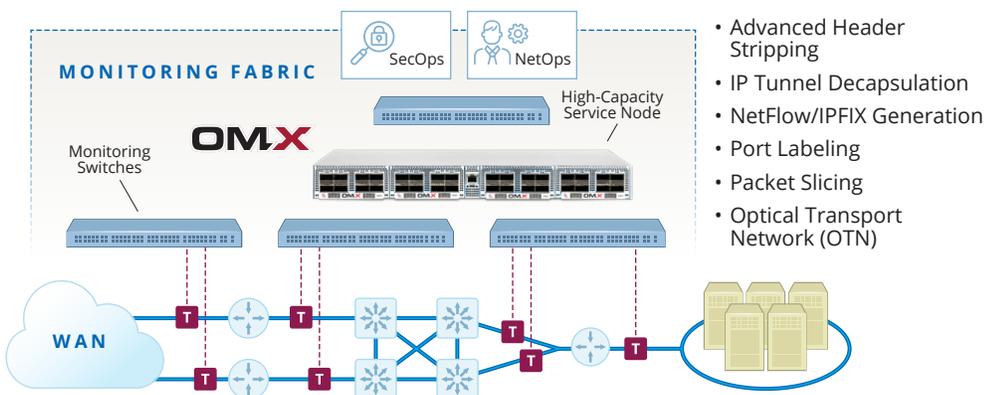
Network Visibility Challenge

Network packet brokers perform two main functions, flexible packet access to optimize connectivity from TAPs to tools, and *advanced packet processing* to optimize visibility and scalability of security and monitoring tools. As networks migrate to 100G, the benefits of flexible packet access begin to break down as expanding port capacity for 100G aggregation, filtering and load balancing challenges budgets. Further, advanced processing performance limitations force stacking of multiple packet brokers which makes the entire approach cost prohibitive and impractical.

Several leading switch/router vendors have introduced TAP aggregation solutions leveraging their merchant silicon switches, combined with management software, to enable flexible packet access for cost-effective network visibility. As an alternative, several software defined networking (SDN) vendors have introduced solutions that provide monitoring fabric management software to control 3rd party "white box" switches to achieve cost-effective visibility. While both approaches solve the 100G access problem, advanced packet processing needs are left to either x86-based "service nodes" or legacy packet brokers, neither of which can scale to N x 100G.

The Solution

NetQuest's OMX Optical Monitoring Exchange leverages state of the art Field Programmable Gate Array (FPGA) technology to deliver high-density advanced packet processing. You can now migrate to an innovative visibility fabric based on merchant silicon switches for cost-effective access and the OMX for N x 100G advanced packet processing. The compact modular design supports up to four 8 x 100G cards in a single rack unit for up to 3.2Tbps of advanced processing.

- Advanced Header Stripping
- IP Tunnel Decapsulation
- NetFlow/IPFIX Generation
- Port Labeling
- Packet Slicing
- Optical Transport Network (OTN)

Combine the best of both worlds – merchant silicon switches for cost-effective access and the OMX for your advanced packet processing needs to ensure your security and monitoring tools have the visibility they need, while realizing significant CAPEX, rack space, power and cooling savings.

Who We Are

NetQuest is a trusted and longstanding supplier of high-performance Cyber Surveillance solutions to government agencies around the globe.

With the introduction of the OMX Optical Monitoring Exchange we have built upon our 30+ years of network monitoring experience and applied the indepth cyber knowledge we have gained to offer an optimized solution for complex network infrastructures, such as fixed line/mobile service providers and large-scale enterprise networks.

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