Network Packet Broker Offload

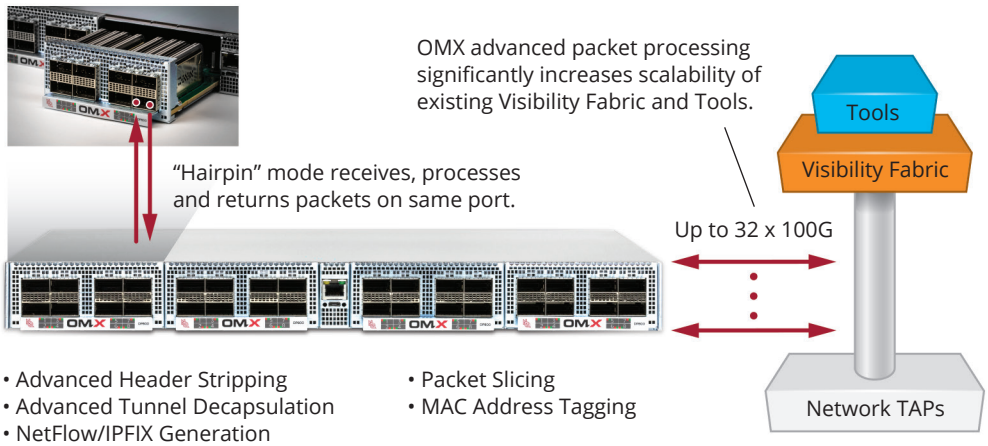
Fixed and Mobile Service Providers have embarked on a network migration to 100G technologies and beyond driven by the insatiable bandwidth demands of Business and Consumer subscribers. Fortunately, recent networking technology advancements are driving down the cost-per-bit to enable a cost-effective migration. However, the products and technologies available to monitor and secure the increasing flows of traffic are falling behind, creating a trade-off between overspending on monitoring infrastructure vs. reducing visibility and increasing risk.

Network Visibility Challenge

Network Packet Brokers (NPBs) provide a "visibility fabric" enabling organizations to access key traffic throughout the network and efficiently pass the traffic to monitoring and security tools. NPBs also support the critical task of extracting IP packets in a format required by tools to perform analysis. This advanced packet processing must keep up with increasing traffic rates, or the NPBs themselves can become the cause of undetected service outages and security breaches. The architecture of current NPBs cannot effectively scale to support N x 40/100G monitoring. The resulting increase in OPEX to perform traffic engineering within your visibility fabric is the first sign of NPB processing constraints. And when your NPB vendor presents you with an excessive cost estimate for additional packet processing blades and chassis to accommodate your traffic growth, you've hit the NPB tipping point.

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 at 100G line-rate on all ports. You can maintain your existing NPBs, and now scale your visibility fabric by simply offloading the advanced packet processing to the OMX. The modular design supports up to four 8-port 100G cards within a single rack unit (1RU) for up to 3.2Tbps of packet processing.



- Advanced Header Stripping
- Advanced Tunnel Decapsulation
- NetFlow/IPFIX Generation
- Packet Slicing
- MAC Address Tagging

The OMX can be deployed in-line on the ingress links to the NPB, eliminating the need to purchase additional NPB feature processing blades and chassis, yielding significant CAPEX, rack space, power and cooling savings. Enabling OMX packet processing features is easily done on a port-by-port basis via the User Interface or RESTful API. The OMX can also be deployed as a Service Node within an NPB's service chain, for full visibility and control of traffic flowing to/from the OMX using your existing NPB management platform.

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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