



Open Packet Broker (OPB)

Solution Brief

Enhancing Network Traffic Monitoring for Next Generation Data Center Demands



Network Packet Broker Revolution: Why traditional Approaches are Obsolete

Network Packet Brokers have been a critical component of enterprise infrastructure for decades. Typical Network Packet Brokers solutions are appliance-based, and proprietary in nature, making them expensive and inflexible. However, the evolution of application-driven networking widely endorsed by industry leaders—has brought significant advancements. Advancements in ASICs have increased their programmability, TCAM scale, and introduced more flexible matches and actions. More recently, the ability to build packet broker functionality on top of open-source SONiC OS enables enterprises to extend the benefits of whitebox switches to their packet broker deployments.

Open & Cost-Effective Packet Broker

Aviz's Open Packet Broker is the industry's first software-based containerized application built on top of the open-source SONiC OS to enable monitoring and security tools to access the network traffic. It is truly disaggregated because it can be deployed on your choice of Switch/ASIC hardware. OPB enables you to easily scale up or down to meet the ever-changing needs of network visibility and security tools, empowering you to manage demand with maximum efficiency.



Benefits



Choice

Open NPB solution enables choice since SONiC is available on multiple hardware platforms. Furthermore, leveraging standard switch products eliminates the need for proprietary appliances significantly reducing the CapEx and OpEx.



Flexibility

OPBNOS is based on SONiC and leverages ASIC programmability. Enterprises have the flexibility to partner with multiple hardware vendors.



Cost Savings

Slash costs by up to 60% with OPB — software-defined, SONiC-ready, and built to cut CapEx and OpEx without compromising performance or future scalability.



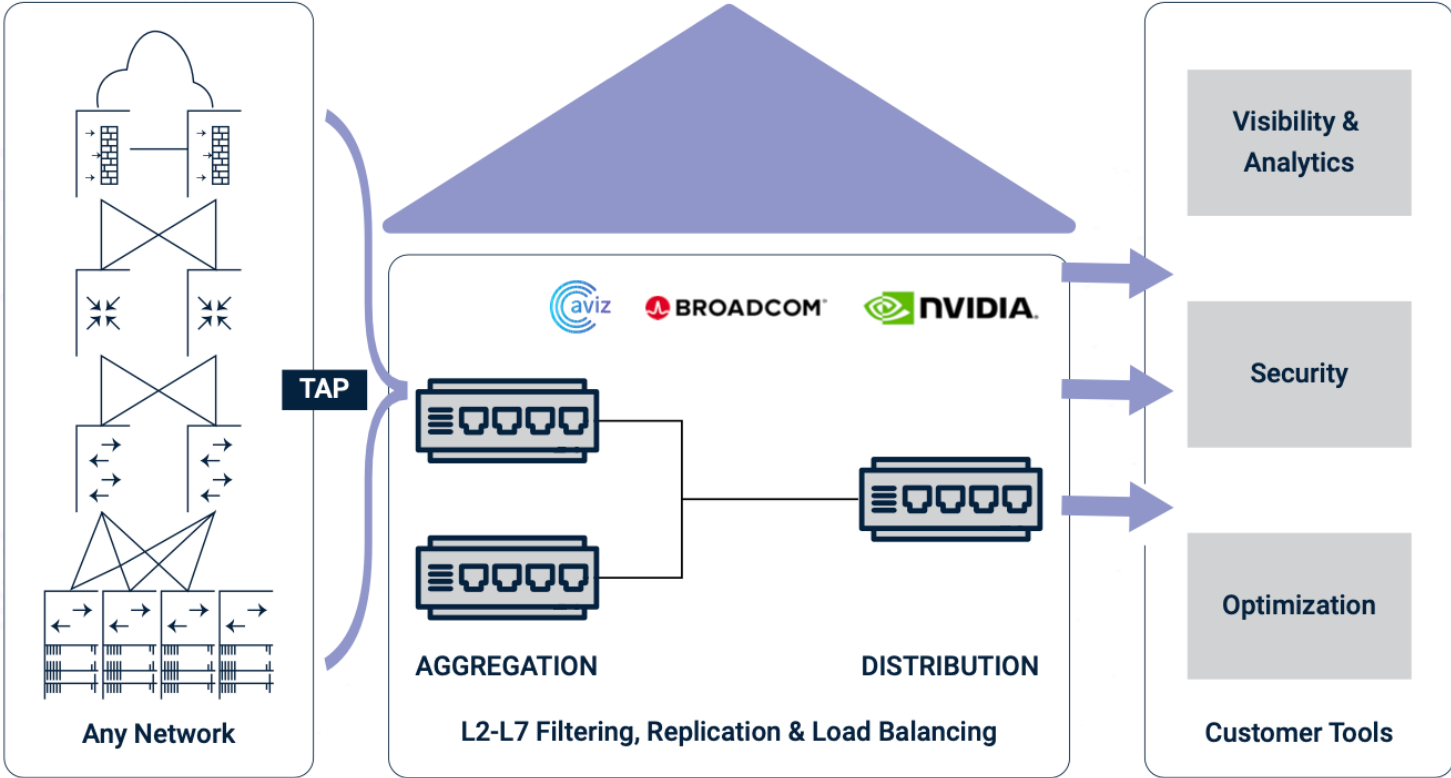
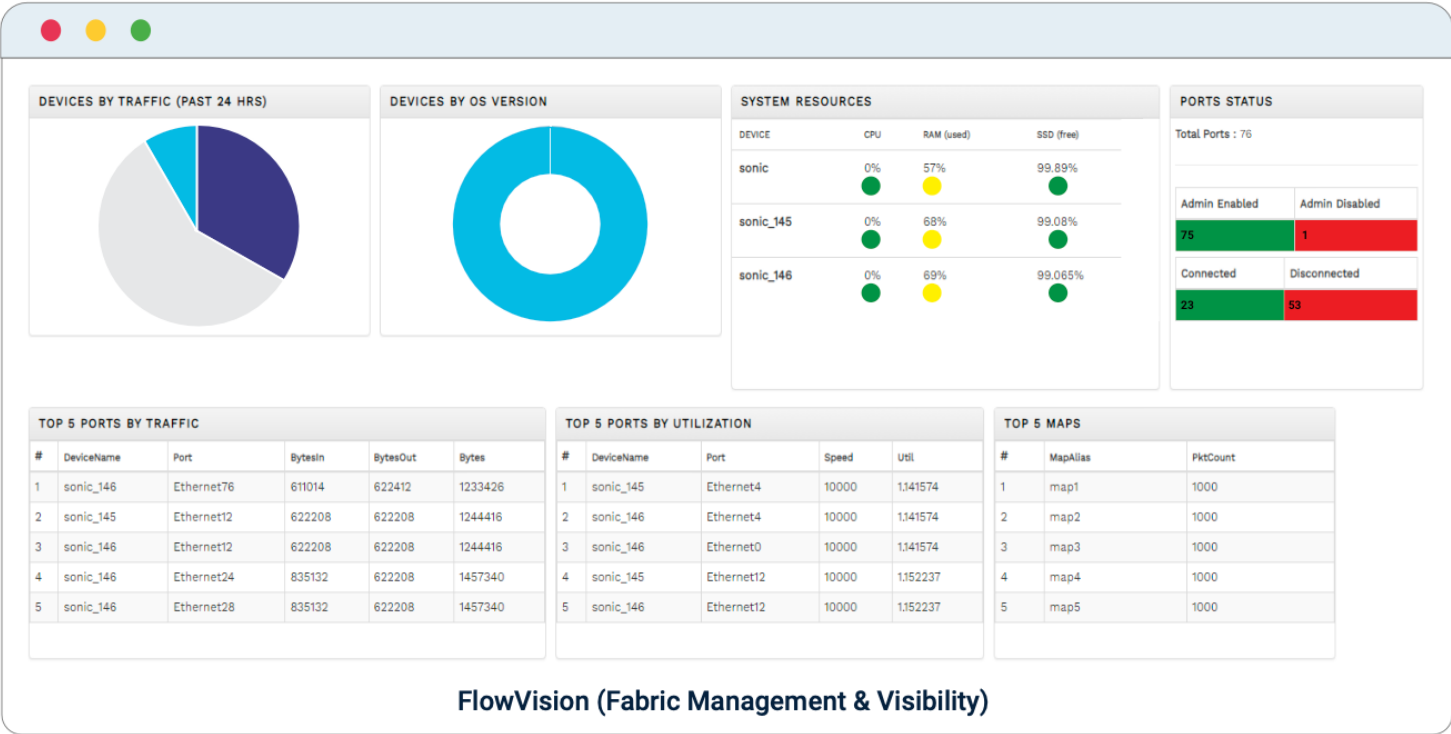
Unleashed Efficiency

Allows for the choice of hardware to leverage available speeds (from 10GbE to 400GbE), including flexible port configurations enabled by port breakout support. Port breakout enables dynamic speed adjustments (e.g., 100G to 4x25G or 2x50G), ensuring efficient connection of multiple lower-speed servers and better utilization of high-speed ports.



Future Ready

AI-Enabled application and data-driven networking for Data Center and Telco deployments. Seamless image upgrades between OPBNOS versions ensure minimal operational disruption. OPB also offers enhanced network observability and flow control through granular statistics and filtering capabilities.



Functions	Features
Packet Monitoring	<ul style="list-style-type: none">• Layer 2/3/4 filtering, forwarding and load balancing• Packet Marking, Replication, Sampling, Timestamping• UI, API & CLI• SSH, Radius, TACACS, SNMP, NTP• Port Breakout
Storage Optimization & DPI	<ul style="list-style-type: none">• Packet Slicing• User Defined Filtering• Generic Header Filtering (MPLS, GRE, VXLAN, IP-in-IP)• VXLAN Tunneling
5G Monitoring	<ul style="list-style-type: none">• GTP Filtering - Inner IP header, TEIDs, and GTP-U Extension Header Support• Symmetric Load balancing• FlowVision VxLAN tunnel configuration, GTP configuration, VxLAN encapsulation/decapsulation Integrated with OPB Fabric Manager Appliance for intuitive, GUI-based configuration

How to Procure

- **NVIDIA bundle** [NVIDIA AVIZ OPB Bundle](#)
- **Edgecore bundles** [AVIZ Bundle](#), [Edgecore Aviz Bundle](#)

Unlock the full potential of network observability and security with OPBNOS R2.8. Enhance your traffic monitoring, analytics, and compliance capabilities with Aviz’s industry-leading Open Packet Broker solution.

Upgrade Today