

# OPB

## OPEN PACKET BROKER



**Open Packet Broker (OPB)** is the industry's first containerized Network Packet Broker application built on top of SONiC NOS. OPB integrates with Arkime to enable monitoring and security tools to access network traffic.

Our SD-TAP containers provide a highly scalable, flexible, and affordable capability to capture and analyze network traffic and feed the data to the OPB aggregator or any legacy aggregator including FPGA-based appliances.

The OPB aggregator can be deployed on any white-box ASIC; eliminating the dependency on proprietary appliances. Although OPB eliminates the need for hardware TAPs, it can still be used in conjunction with them during the transition.

### OPB Benefits

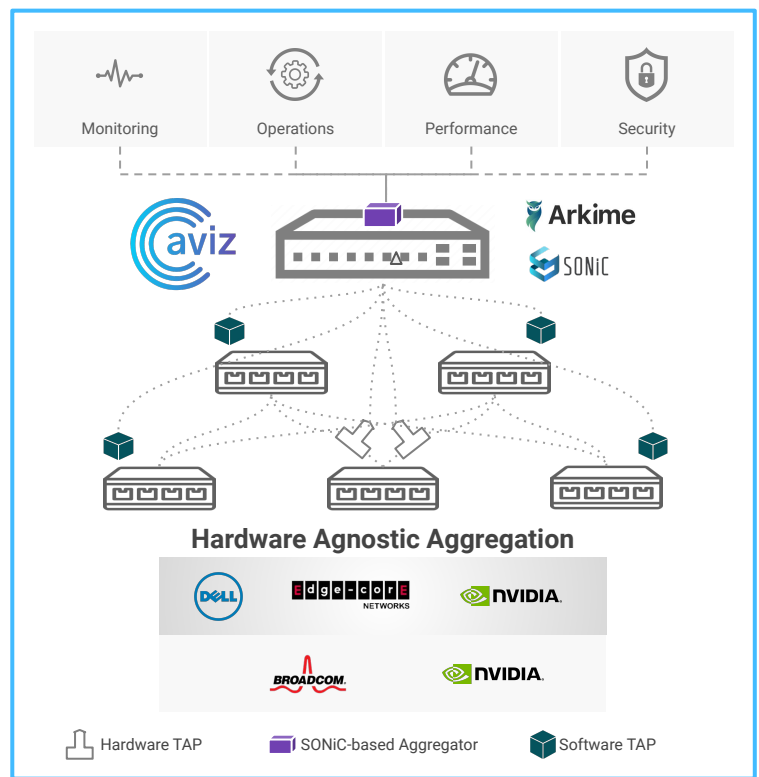
- Eliminates hardware TAPs with software containers
- Enables the use of commodity ASICs
- Remote maintenance by virtualization
- Leverages the innovations of open source softwares
- Saves 40% - 60% TCO

### Packet Filtering, Slicing, & Sampling

- L2/L3/L4 header filtering on ingress
- IPv4 and IPv6 based filtering
- IPv4, IPv6, TCP Flags, DSCP matching
- Traffic Denial & Blocking
- Encapsulated packet support (MPLS, VXLAN, GRE, etc.)
- 5G protocols (GTP)
- Irrelevant payload stripping for monitoring/security tools
- Sensitive data stripping for privacy and compliance
- sFlow

### Traffic Distribution, Redirection, & Replication

- Load balancing (LAG) across tool ports based on Layer3/4 (IPv4/Ipv6) headers
- Symmetric hashing to redirect source-destination pair
- Configurable packet replication for multiple egress (ports, LAG, etc.)



### VLAN Actions & Tunneling

- VLAN tag stripping, and tag push (per flow support)
- Tunnel initiation/termination (VXLAN)

### Configuration Management

- GUI, REST API (https), and CLI for configuration management
- Zero-touch provisioning (ZTP)
- Link layer discovery protocol (LLDP) support
- SSH, SNMP v1,v2,v3, SYSLOG, NTP
- Stand-alone or chained support for a variety of NPB solutions
- Statistics reporting (port and flow)

### Scalability & Security Controls

- OPB Rules: 8000 (NV-SP3)/4000(NV-SP2)/400 (NV-SP1)
- OPB Rules: 768 (BCM-TD3)
- TACACS+ & AAA authentication and authorization

