Disaggregated Packet Broker (DPB)

Datasheet

Overview

The **Disaggregated Network Packet Broker (DPB)** is a modern and flexible solution designed to provide comprehensive network visibility and optimization. Built on open hardware, DPB is preloaded with ONIE and compliant with OCP hardware standards. Leveraging the power of open- source NOS SONIC, DPB provides an easy-to-manage, container-based architecture for deploying packet broker solution.Software-defined TAPs & aggregators allow simpler provisioning for capturing and analyzing network traffic without the need for proprietary hardware. With its highly flexible & scalable architecture, the Disaggregated Network Packet Broker is an ideal solution for managing and optimizing network traffic in a variety of environments, delivering superior performance and efficiency to meet the most demanding networking requirements.

Salient Features

⏩ Packet Filtering & Replication

Packet filtering based on OSI Layers 2-4 with simultaneous IPv4 and IPv6 filters. Packet replication duplicates filtered traffic to one or more tool ports based on network monitoring needs.

⏩ Traffic Aggregation & Load Balancing

Trafficaggregationoffers fully flexible any-to-any port mapping. Flow-aware load balancing uses symmetric hashing to ensure traffic from a specific flow is always directed to the same tool.

⏩ Flexible Licensing & Management

Port-based licensing with selective activation of required ports and a pay-as- you-grow model. Management modules include CLI, REST API, and GUI, with EMS handling individual devices and NMS providing centralized control for multiple network devices.
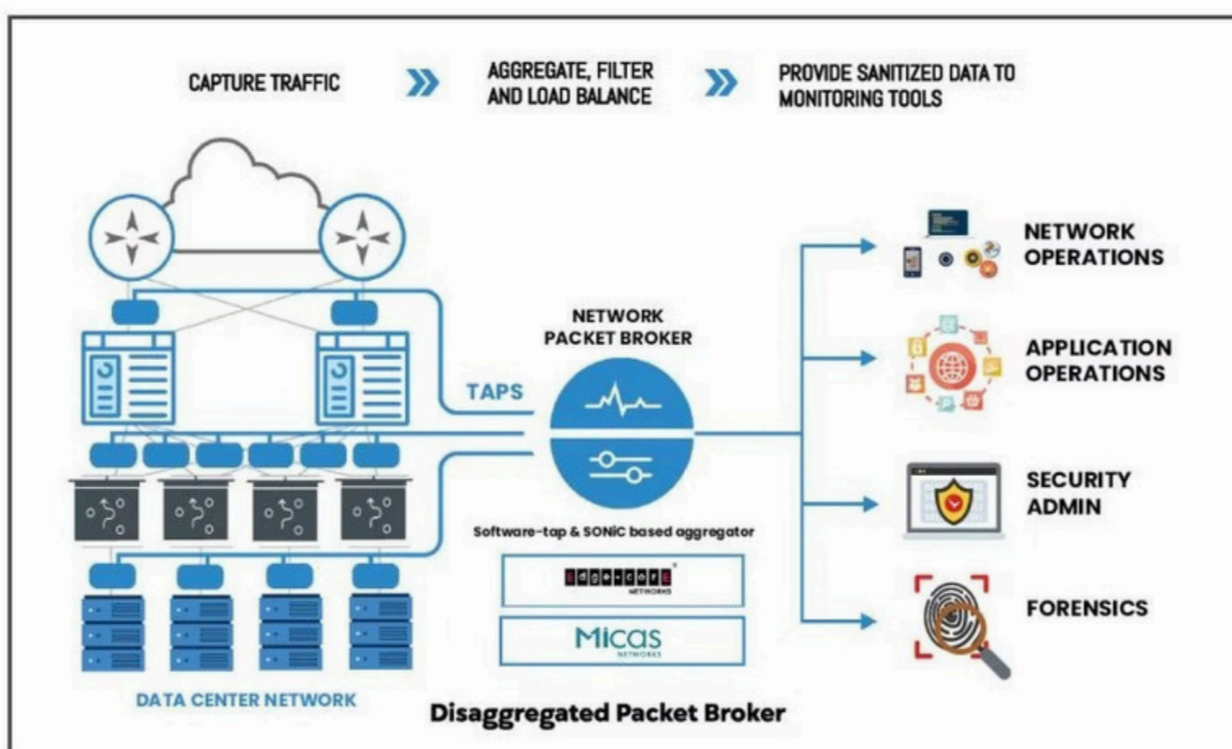
⏩ Security & Access Control

Rolebased access Management controls user permissions based on assigned roles within an organization. Real time traffic statistics provide comprehensive visibility.

⏩ Dynamic Capabilities

Dynamic Port breakout capability breakout of highspeed port to multiple lower speed ports. Simplified software upgrades and configuration recovery ensure operational continuity.

⏩ Monitoring & Auditing

Comprehensive event logging in EMS/NMS records system events for monitoring, troubleshooting and auditing purposes.

CAPTURE TRAFFIC ➤ AGGREGATE, FILTER AND LOAD BALANCE ➤ PROVIDE SANITIZED DATA TO MONITORING TOOLS

NETWORK PACKET BROKER

TAPS

Software-tap & SONiC based aggregator

Micas NETWORKS

DATA CENTER NETWORK

Disaggregated Packet Broker

NETWORK OPERATIONS

APPLICATION OPERATIONS

SECURITY ADMIN

FORENSICS

Supported Hardwares & DPB 4.0 Roadmap

Supported Hardware Platforms

MANUFACTURER	MODEL	ASIC	PORTS
ACCTON	AS7712-32X	Tomahawk	32x100G
ACCTON	AS5835-54X	Trident 3	48x10G + 6x100G
ACCTON	AS7716-32X	Tomahawk	32x100G
ACCTON	AS5812-54X	Trident 2	72x10G
ACCTON	AS5835-54T	Trident 3	48x10G + 6x100G
RAGILE	RA-B6510-48V8C	Trident 3	48x25G+8x100G

DPB 4.0 Roadmap Features

→ **Inline Packet Broker Functionality**

Enable Inline Packet Broker functionality for enhanced network traffic management capabilities.

→ **Accton AS7816-64X Platform**

Adapt DPB for Accton AS7816-64X platform to expand hardware compatibility and deployment options.

→ **NetFlow/IPFIX Export Support**

Support for NetFlow/IPFIX Export to enable advanced network flow analysis and monitoring.

→ **Enhanced Traffic Statistics**

Enhance traffic statistics for improved visibility into network performance and behavior.