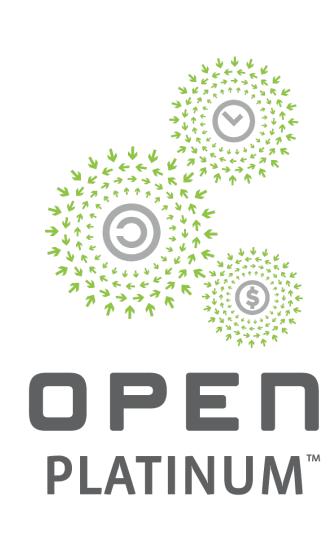
Open. Together. OCP オナナナイド

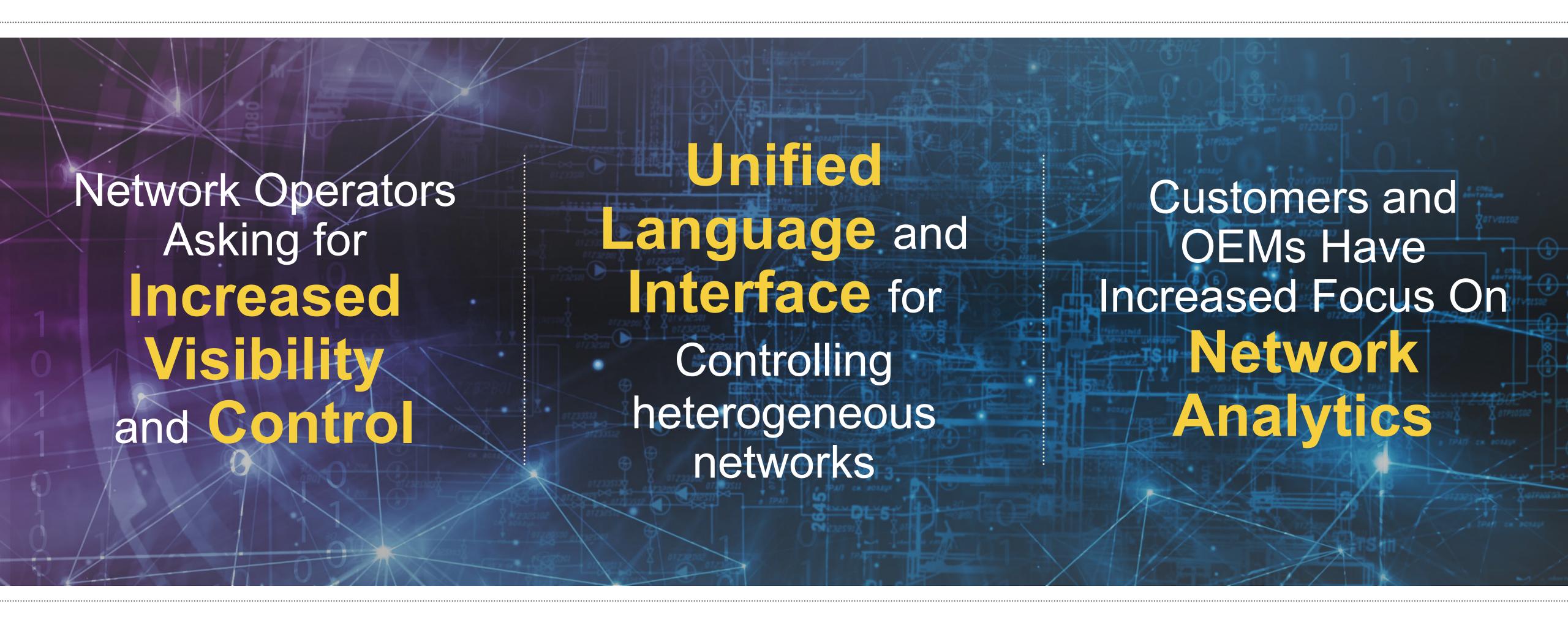
SONiC Track

Advanced Network Telemetry and Analytics Over SONIC

Eli Karpilovski, Director Of Marketing, Broadcom



Industry Trends





BroadView™ Instrumentation Software



Standard Telemetry API Increased visibility into network telemetry through platform-agnostic open API



Highly Scalable

 Industry's first and most scalable instrumentation agent



Unique Silicon Telemetry

 Leverages unique telemetry capabilities of Trident2, Tomahawk[™] and Qumran-MX silicon



Reference Implementations

• Faster TTM with reference implementations for CORD, OpenDaylight, OpenStack, Ganglia etc.



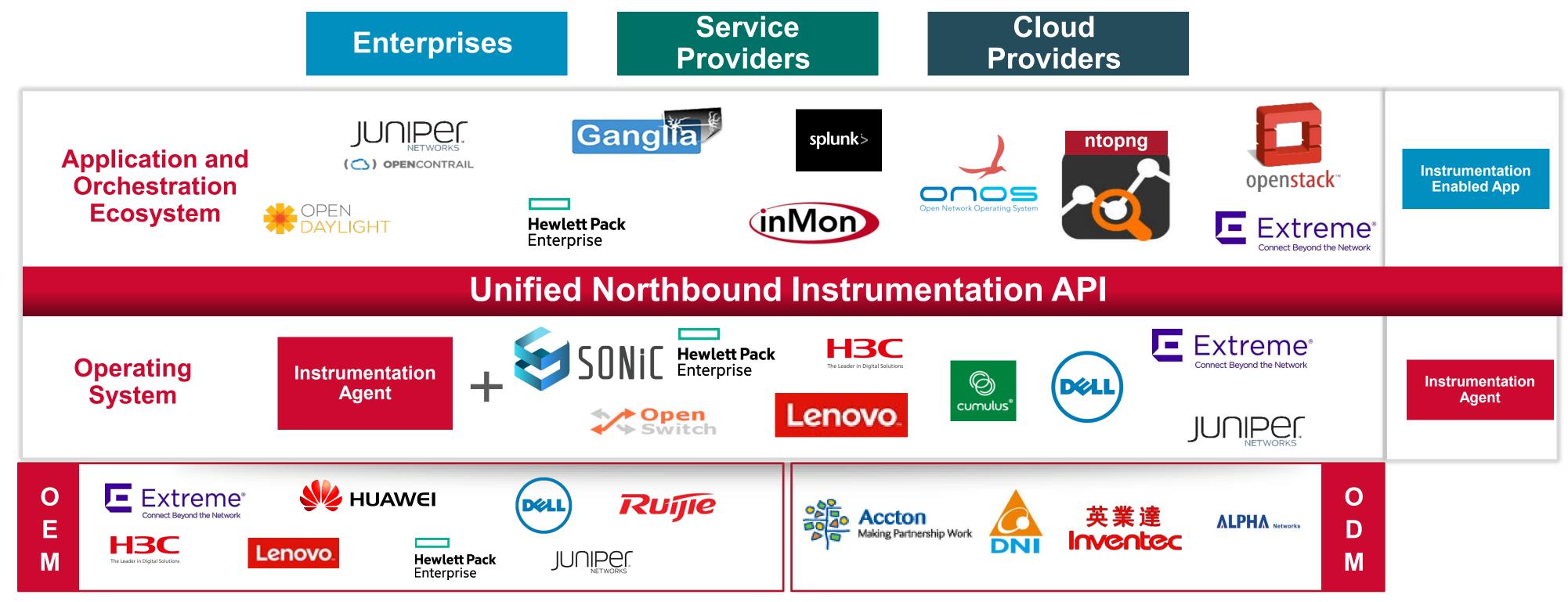
BroadView[™] Ecosystem –Intro

- launched in November 2015
- Targeted for all market segments
 - Advnace feature set for datacenter networks
 - Expanding into Service Provider networks
 - Enabling storage networks
- Accelerating the SDN management model
 - Being deployed at end-customers
 - More Network OS & OEM partners
 - Extended support for DNX silicon
 - GUI application "BroadView Analytics"





BroadView Ecosystem – 5 Years of Telemetry Innovation







NETWORKING

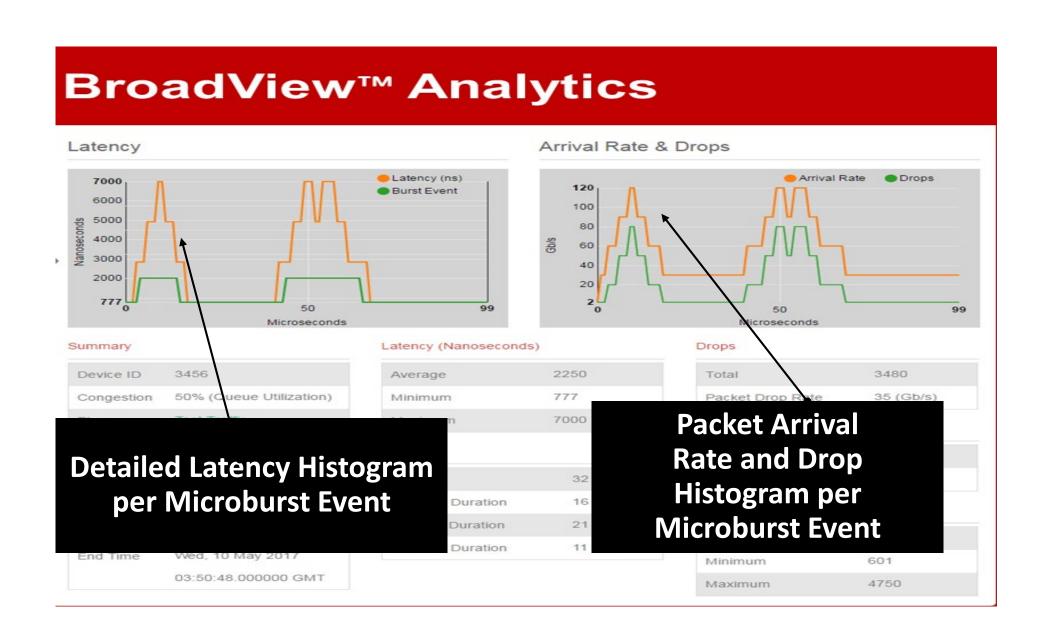


Inband Flow Analyzer (IFA)

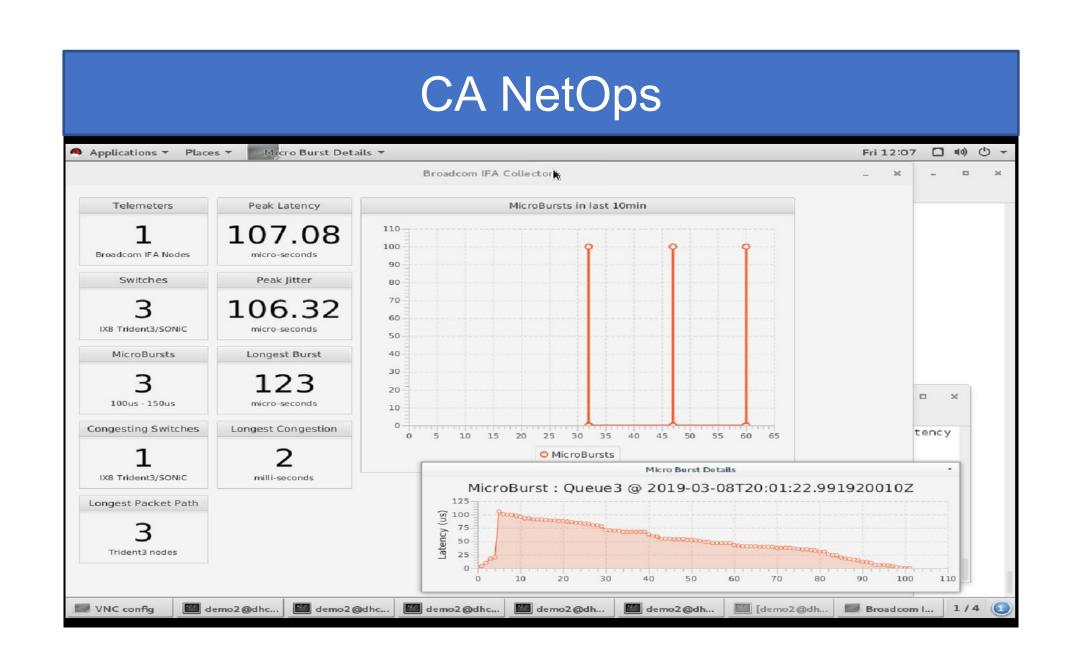


NETWORKING

- 1. In-band Telemetry Based Flow Monitoring Solution
- 2. Scalable Network Monitoring for Large Datacenters

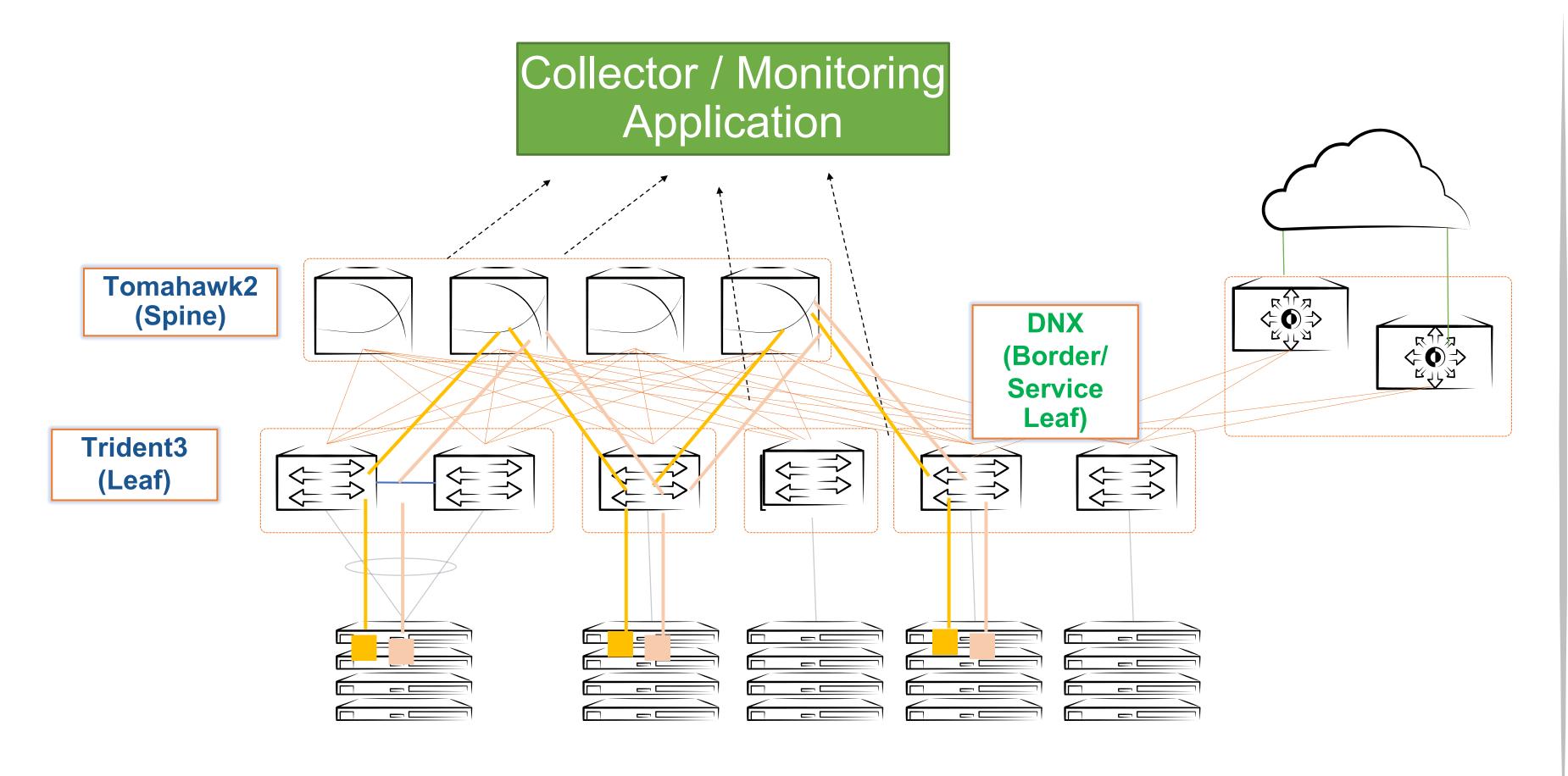


- 3. Configurable & Flexible Sampling, Flow Selection Criterion
- 4. Network level solution w/ TH2, TH3 & TD3 Switches





SONiC Datacenter With BroadView Agent Example

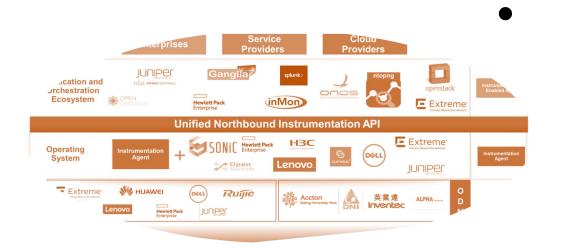


Broadview Agent offer Open, Easy to Integrate and Extend Telemetry in SONIC network

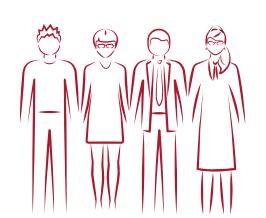
- 1) Inband Telemetry enabled
- 2) Flow Aware Congestion
 Monitoring & First Packet Of
 the Flow
- 3) Deep Visibility Into Packet Drops
- 4) Enables an intelligent and flexible triggering mechanism to detect and report events in real time



Broadcom BroadView Contribution Dashboard



Innovations across the entire ecosystem stack w/ applications (AI Ops, Splunk, IMS, NtopNg, Ganglia etc)



 100+ Contributors across the ecosystem with real world deployments



- Enabling Innovative Advance Telemetry use cases:
- Inband Telemetry
- Packet Drop Analysis
- Flow Aware
- Microburst Detection



- Enabling open-source to move at the speed of silicon innovation
- SAI TAM 2.x (Packet Drop Monitoring)
- Supported Over 20 platforms
- Radis Plugin for configuration of IFA trough SONIC



