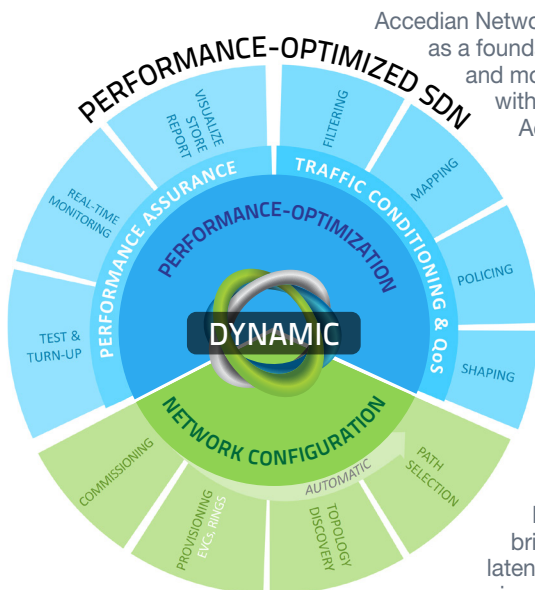




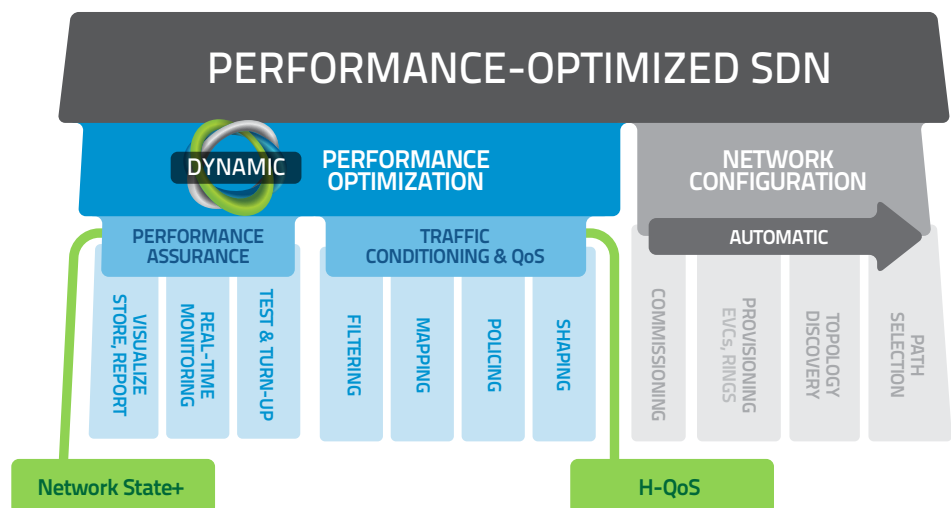
Solution Framework



Accedian Networks' integrated solutions orchestrate dynamic performance optimization and networking as a foundation for telecom software defined networks (SDNs). Programmable, interoperable, open and modular, selected solution elements can be tailored to a provider's needs, then later extended with Accedian and other industry-standard solutions. Because Performance Matters™, Accedian's Network Performance Elements, Modules, Software Agents and Platforms deliver industry-leading performance assurance accuracy, scale, granularity and standards-based interoperability. Traffic conditioning and hierarchical quality of service (H-QoS) enforcement optimize per-service performance to maximize resource capacity and efficiency, while automatic Network Configuration simplifies the build-out of ultra-low latency networks and performance-optimized services, dramatically accelerating time to revenue.

Dynamic Performance Optimization

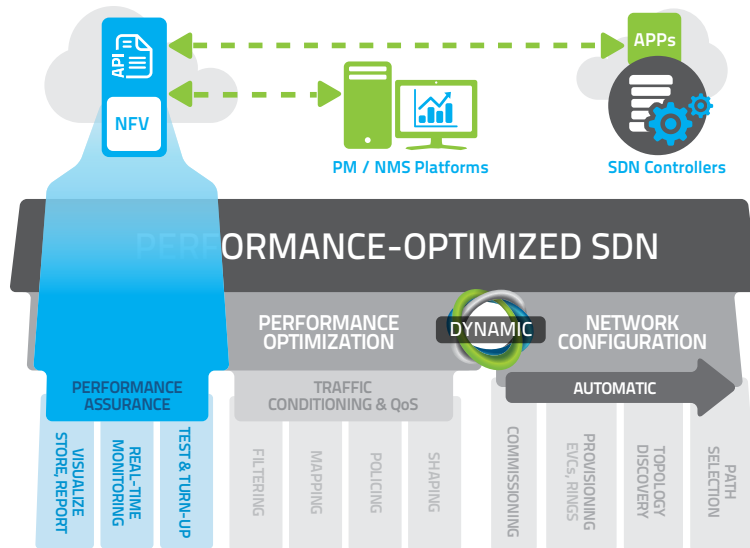
Dynamic Performance Optimization (DPO), is the insightful coordination of Performance Awareness™ with Quality of Service (QoS) optimization. Accedian's core-to-edge monitoring continuously collects over 50 performance metrics - the Network State+™, to visualize, benchmark and optimize services in real-time. With a future-proof, programmable Network Flow Assurance (NFA) architecture, Network Performance Elements & Modules bring wire-speed traffic filtering, flow-mapping, policing and shaping with the lowest-possible latency. DPO means performance-critical networking for small cells, business and financial services, cloud computing, content delivery networks, and more.



Extending and refining standards-based metrics. Resolve a complete, current view of networks and services.

Traffic prioritization and bandwidth management. Surgically optimize performance-critical applications.

SkyLIGHT™ SDN API & NFV Architecture



Performance Monitoring platforms and SDN optimization applications need persistent performance feedback. Accedian's SkyLIGHT™ architecture uses network function virtualization (NFV) to synthesize and consolidate the complete Network State+ from dedicated Network Performance Elements and virtualized instrumentation.

Accedian's V-NID Network Performance Actuator extracts directional and segmented measurements using standards-based reflectors in switches, routers and base stations, in concert with extended KPIs from Accedian's pluggable Network Performance Modules.

With complete network coverage, performance blind-spots are eliminated.

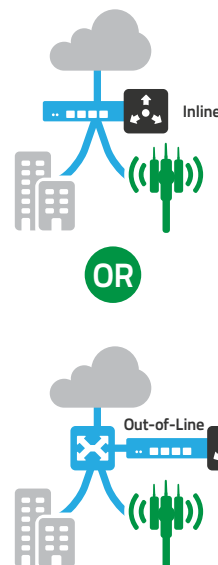
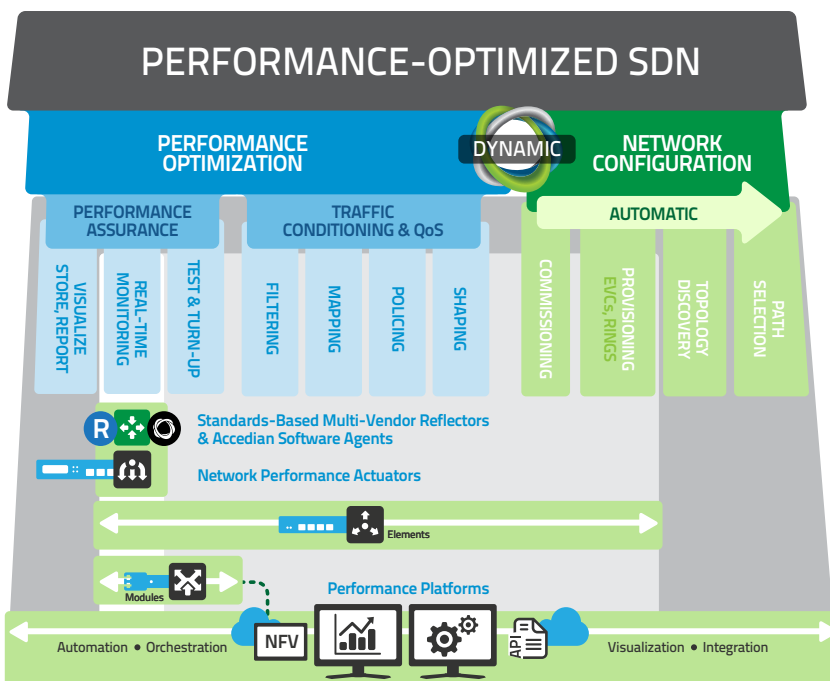
The SkyLIGHT northbound API opens this Performance Awareness to applications, making programmable network management, performance platforms and Performance-Optimized SDNs possible today. SkyLIGHT is currently integrated into the SevOne Performance Monitoring platform, as well as SDN/NMS solutions from vendors like Cyan™.

SkyLIGHT SDN API & NFV Architecture

Covering all the bases, Accedian's integrated solutions deliver and assure performance from core-to-service edge.

Network Performance Elements and Modules' programmable hardware feature set can be tailored to deliver a precise mix of service delivery, assurance and optimization. Accedian elements and modules can be installed inline, or use port-injection to merge streams with network flows. Software agents can be installed in most network elements lacking Y.1731 OAM or TWAMP support to activate standards-based reflection directly in the units themselves. From central offices to small cells and businesses, Accedian has an element that fits into all network areas and applications.

Dedicated Network Performance Actuator platforms coordinate and generate granular Standards-Based+ performance metrics, segmenting ubiquitous monitoring to modules and PM-aware network elements along all critical service delivery paths.

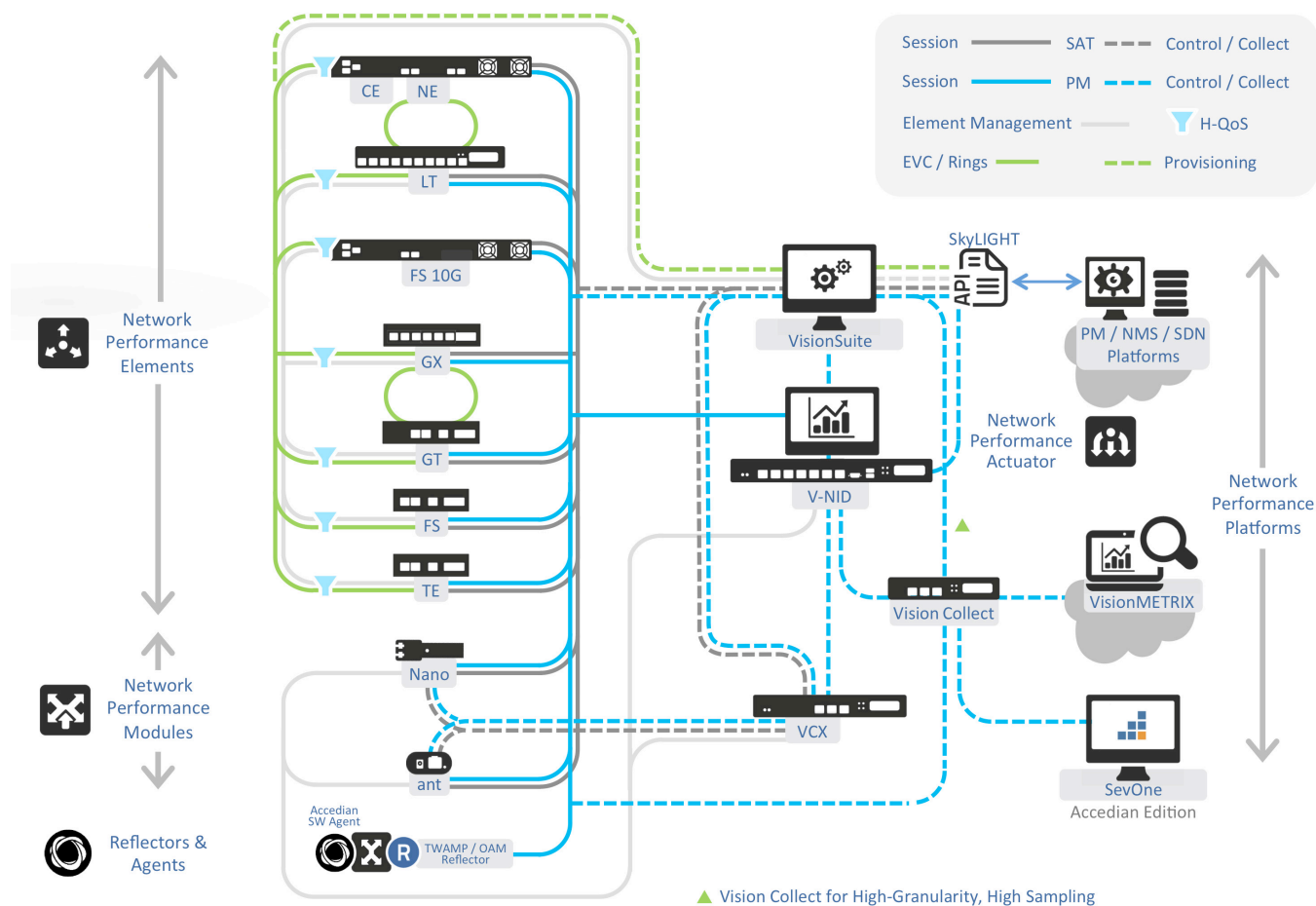


Automating, coordinating and visualizing data in real-time, Accedian's extensible element, performance and SLA management platforms open Network State+ performance data to leading monitoring, management and support systems.

Performance-Optimized SDN - Solution Framework

Accedian's modular, Performance-Assured Networking solutions integrate to realize a complete, quality-optimized service delivery platform. The components seamlessly interconnect to realize extensible frameworks for programmable, standards-based+ performance monitoring, Service Activation Test automation, service provisioning and element management.

Ultra-low latency Network Performance Elements are certified to Carrier Ethernet 2.0 with H-QoS enforcement and integrated Ethernet ring support. Traffic conditioning enhances service and network performance: police, shape, filter and map flows at wire-speed without delay. With integrated Service Activation Test (SAT) and L2/3 Performance Monitoring (PM), Performance Elements and Modules precisely and continuously collect 50+ real-time KPIs: the Network State+.



Accedian Networks Inc.

2351 Alfred-Nobel, Suite N-410
St-Laurent, Quebec, Canada H4S 2A9
Toll free: 1-866-685-8181

© 2014 Accedian Networks Inc. All rights reserved. Accedian Networks, the Accedian Networks logo, antMODULE, EtherNID, Fast-PAA's, High Performance Service Assurance, Performance Assurance Agent (PAA), Plug & Go, MetroNID, MetroNID GT, MetroNODE 10GE, MetroNODE LT, Multi-SLA, NanoNID, SkyLIGHT, SLA-Meter, Traffic-Meter, VeloCITY FS, VeloCITY FS 10G, Vision EMS, VisionMETRIX and V-NID are trademarks or registered trademarks of Accedian Networks Inc. All other company and product names may be trademarks of the respective companies. Accedian Networks may, from time to time, make changes to the products or specifications contained herein without notice. Some certifications may be pending final approval, please contact Accedian Networks for current certifications.

Network Performance Modules cost-effectively expand Accedian's solution footprint to the service edge, small cells and customer premises, providing SAT and PM feature-lift to network elements lacking integrated turn-up and OAM capabilities. Modules are capable of full line-rate, multi-stream traffic generation, bandwidth utilization monitoring, and standards-based PM and OAM virtualized by Accedian's SkyLIGHT NFV architecture.

The V-NID Platform's Actuator extends performance monitoring to network elements supporting TWAMP and Y.1731 OAM reflectors, a wide range of vendors' equipment with embedded V-NID agents, and more. This virtualized instrumentation extracts directional, PM-trace, segmented metrics for rapid fault isolation and total performance visibility across multiple media, technologies, layers, domains and carriers.

Ubiquitous, persistent performance assurance becomes QoS-driving input to SDN applications and controllers with the open SkyLIGHT northbound API. Accedian's own Network Performance Platforms include SAT and monitoring automation, reporting, visualization, management and reporting applications, presenting the Big Data view of network and service health to operators, and tailored service performance-portals to their customers.