

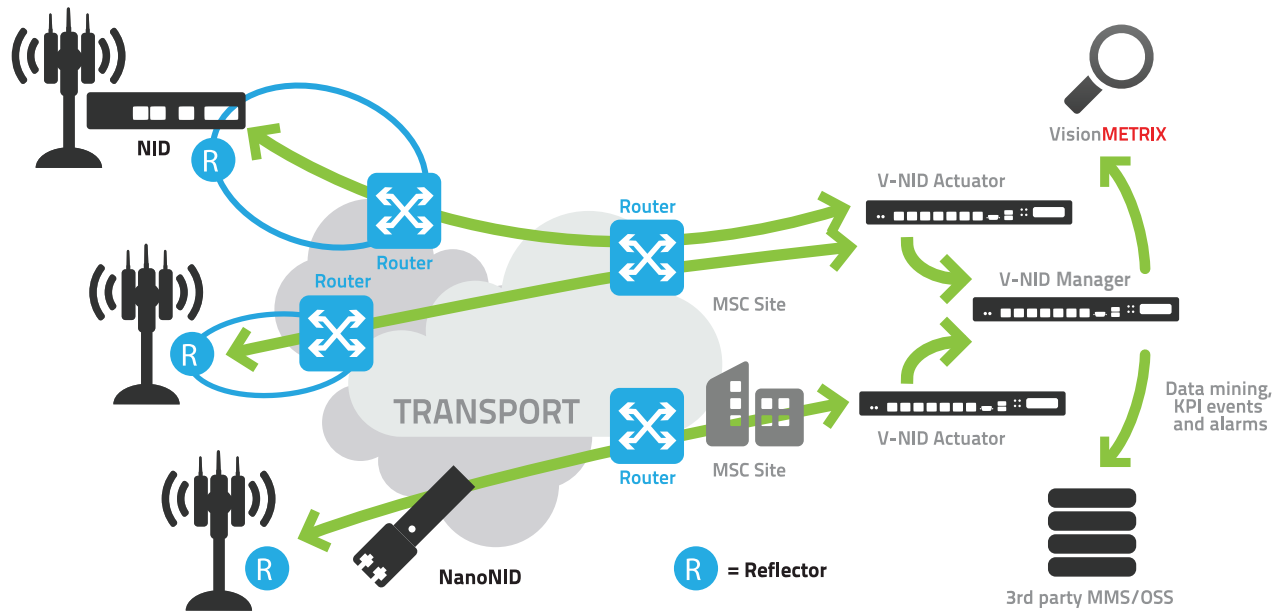
V-NID Product Suite



Accedian Networks has leveraged its industry-leading Ethernet OAM-based performance assurance technology to introduce the V-NID™ product suite. By using and extending the existing standards for performance assurance, V-NID™ offers a unique solution to provide detailed one-way network KPI's and SLA monitoring without the need for external synchronization.

Verify, Validate, Visualize

The V-NID performance assurance suite provides a comprehensive solution for verifying networks on a granular and continuous basis, and validating SLA conformance. By utilizing standard reflectors such as ETH-OAM or TWAMP integrated into the network components, in combination with Accedian's patented measurement technique, the V-NID product suite enables oneway monitoring of network performance with high accuracy without the need for external synchronization. Optionally, endpoints equipped with the V-NID Standards+ software reflector offers you an even larger set of high accuracy one-way metrics as well as the option to disguise your measurements to look like any other end-user frame on the network such as VoIP flows, SCTP signals or HTTP streams.



A Comprehensive Suite of Tools

- **V-NID Actuator** – the active performance measurement component in the V-NID performance management architecture
- **Performance Monitoring (PM) Reflector** – an Accedian, or 3rd party, standards-based responder of the measurement frames sent from a V-NID Actuator
- **V-NID Manager** – the main controller unit in the V-NID application performance and SLA monitoring suite
- **VisionMETRIX** – Accedian's performance visualization portal delivering actionable and concise dashboards of network performance

Product Highlights

Service Assurance Functionality

- Standards-based one-way network performance assurance solution using ETH-OAM, TWAMP and Accedian Standards+
- Standards+ supports extended measurement types for even greater performance visibility
- Patented, high-accuracy, one-way delay measurement technique without need for synchronized hardware test points at each end of the connection
- Performance Monitoring Reflector Agent software package supports OAM standards and Accedian Standards+ available for integration into virtually any Ethernet or IP device
- Centralized or distributed measurement injection using the V-NID Actuator
- Centralized provisioning, management, mediation and reporting via the V-NID Manager
- Pv4 and IPv6 dual stack for both management and TWAMP measurement
- IP, Ethernet and OAM end-user experience metrics summarized and displayed via VisionMETRIX™ performance monitoring dashboard

A Comprehensive Suite

V-NID Actuator

V-NID Actuator is an end-to-end service performance management, network performance and SLA monitoring system that resides at the core of the network. This centralized approach enables the unit to send and receive active performance assurance messages to and from PM Reflectors at the edge. Using a patented, high-accuracy one-way delay measurement technique, the V-NID Actuator is capable of measuring thousands of end-points to remotely assure the performance of specific classes of service without requiring synchronized hardware test points at each end of the connection. Ethernet OAM and performance data gathered by the V-NID Actuator is then summarized and displayed by Accedian's VisionMETRIX™ in a visual performance monitoring dashboard.

Performance Monitoring Reflector

The Performance Monitoring (PM) Reflector is an Accedian or 3rd party standards-based responder of the measurement streams injected by the V-NID Actuator. Supported PM Reflectors include RFC 5357 TWAMP-Lite and TWAMP-Control, Y.1731 ETH-DM, IEEE 802.1ag, ETH-LB, UDP echo, ICMP.

V-NID Manager

As the main controller unit in the V-NID application performance and SLA monitoring suite, V-NID Manager supervises and monitors application performance in multiplay networks. The V-NID Manager manages the V-NID Actuators, sessions and SLAs

in the supervision domain, and conducts performance measurement analysis, alarm filtering as well as report generation.

VisionMETRIX

Performance statistics measured, collected, summarized and correlated by the V-NID Actuator are made available via the Accedian VisionMETRIX performance monitoring and reporting portal. VisionMETRIX tracks over 100 unique Key Performance Indicators (KPIs), and application performance data is automatically summarized via actionable and concise dashboards. An easy to access and navigate web portal, VisionMETRIX provides you with accurate application performance data and concrete proof that your SLAs are being met.

Accedian Networks Inc.

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

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V-NID Actuator



V-NID Reflector Agent

