



nGeniusONE Service Assurance for VMware NSX Environments

NETSCOUT STRENGTHS

Innovation

Leadership in network instrumentation

Dependability

Dedicated to delivering ITOPs solutions

Scalability and Scope

Carrier-class scalability in an easy-to-use solution

Commitment

Technology Alliance Partner, Elite Level

Solution Functionality

The nGeniusONE® platform with ASI technology delivers real-time, actionable operational intelligence enabling:

- Rich analysis and metrics to quickly isolate and address service-impacting issues when ASI technology is combined with the NSX virtual network visibility.
- Holistic end-to-end visibility into physical, virtual, and hybrid service delivery infrastructure.
- Proactive service triage that helps resolve problems in real-time, and assure positive customer and user experience.
- Comprehensive service performance management platform across voice, data, and video services from a single pane of glass.
- Ultra-high scalability assures service delivery across any size service provider and enterprise infrastructure.

The Challenge of Keeping End-Users Happy

To support the Software Defined Data Center (SDDC), VMware® offers NSX for network virtualization. This innovative solution delivers simplified management, provisioning agility and enhanced data center economics. With NSX, networks can be programmatically managed and provisioned on demand, resulting in improved service velocity, enhanced security, and rapid disaster recovery.

In order to maximize these benefits, data center teams keep a close watch on the services leveraging NSX. If disruptions or delays occur, personnel must resolve the issue quickly (Mean-Time-to-Resolution – MTTR), and in many cases prove it is NOT an NSX issue at all (Mean-Time-to-Innocence – MTTI). This challenge is further complicated by the underlying physical infrastructure and ongoing dependencies on legacy services—magnifying the issues and troubleshooting complexities.

The nGeniusONE platform enables enterprises and service providers to have end-to-end application visibility across physical, virtual and hybrid data center environments, allowing them to deliver agile, high quality, cost effective IP services. NETSCOUT® has partnered with VMware NSX to provide service assurance solutions for SDDC environments. With accelerating adoption of SDDC architectures, distributed functions and increasingly dynamic data center environments, data center operators need real-time feedback on applications to provide service assurance. NETSCOUT provides application-level visibility into VMware’s NSX including connected virtual machines (VMs) and network health.

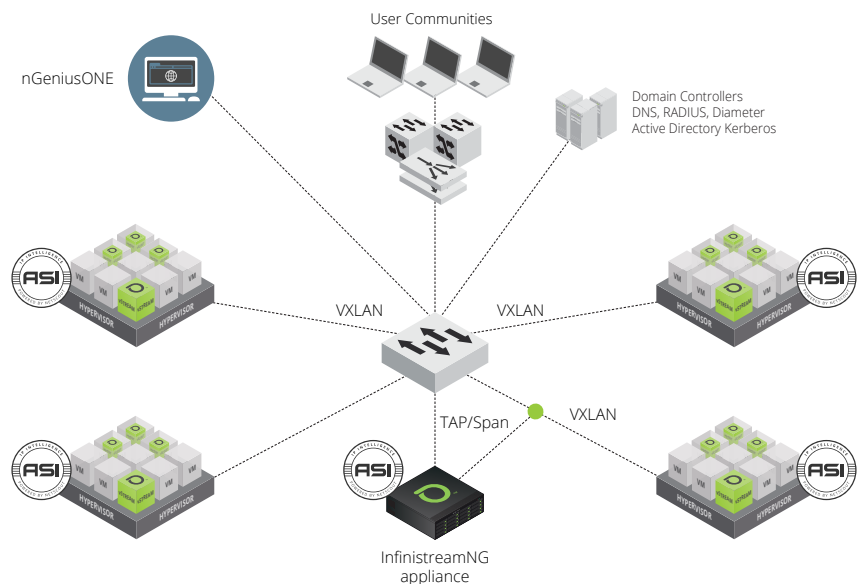


Figure: nGeniusONE with ASI technology in vSCOUT and vSTREAM, provides application visibility inside virtual VMware ESX deployments, NSX environments, and physical VXLAN hypervisor interconnect links.



Only the NETSCOUT nGeniusONE platform enables data center operators to gain visibility into applications traversing NSX environments for the following use cases:

- **Continuous real-time monitoring and analysis of traffic between VMs that reside in different hypervisors and throughout the enterprise environment**, often referred to as north – south traffic, using the InfiniStream® appliances that decode the Virtual Extensible LAN (VXLAN) encapsulation and access the original packet flow data between the VMs.
- **Enhanced analysis of inter-VM traffic** by correlating application performance in the VXLAN overlay network with the VXLAN Network Identifier (VNI) and underlying physical network and host identities.
- **Continuous real-time monitoring, with ASI metrics and packet forwarding** of east-west traffic between VMs within hypervisors, provided by vSCOUT agent installed alongside the guest operating system.
- **Continuous real-time monitoring and analysis of multi-tier east – west and north – south data center traffic** by collecting data from a combination of multi-tier physical and virtual service delivery environments, correlating, and contextually analyzing all the interrelationships and dependencies across all monitored service delivery components including n-tier applications, workloads, protocols, servers, databases, users, and devices.

Trusted Leader in Service Assurance

NETSCOUT is focused on providing innovative technology and solutions targeted at service and security assurance. NETSCOUT is an International Data Corporation (IDC) market share leader with more than one billion dollars in annual revenues. We invented network instrumentation, created Sniffer®, patented ASI and delivered nGeniusONE with its one-of-a-kind view of services across network and application environments. The solutions are deployed and operating in the world's largest, most complex networks for some of the most demanding enterprises, government agencies and services providers. By providing unmatched visibility, high quality analytics and superior visualization capabilities, NETSCOUT helps people pinpoint the root cause of service delivery problems across complex global environments.

Manage More Efficiently and Effectively

- Enable MTTR reduction with carefully crafted workflows.
- Use contextual analysis of server, network, and application performance with patented ASI technology.
- Support large scale geographically distributed deployments with scalable architecture.
- Continuously monitor, triage and troubleshoot IP-based business services.
- Create day-to-day operational reports which can be scheduled for recurring delivery with built-in reporting module.



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