

InfoVista and Nuage Networks – Driving the Best Value from SD-WAN Networks with an Application Optimization Solution

SOLUTION
BRIEF



Orchestrating Network Performance



Nuage Networks and InfoVista have partnered to provide a joint SD-WAN and application optimization solution to enterprises and managed service providers. The joint solution provides enhanced application optimization to enterprises that are already benefiting from the operational efficiencies of Nuage Networks' Virtualized Network Services (VNS)-powered SD-WAN solution.

- InfoVista's Ipanema application optimization and Virtual Network Function (VNF) can be easily deployed on Nuage Networks' Network Service Gateway (NSG), an x86 server platform, to provide enhanced application optimization to enterprises and managed service providers.
- The joint solution reduces operational complexities by integrating multiple VNFs into a common platform.
- The joint solution represents the best-of-breed combination for an application- focused SD-WAN solution in the marketplace.

Deployment of an Amplified Application-Centric SD-WAN

The partnership between InfoVista and Nuage Networks brings forth to enterprises a solution that provides an application performance and availability guarantee across corporate and branch networks. Enterprises, both large and SMB, are looking for solutions that can fulfill their needs of increasing enterprise and employee productivity, regardless of the branch and employee location, as well as WAN efficiency management and performance – especially in today's hybrid WAN environments – and that can optimize their revenue potential. The CIO needs to guarantee the performance and success of the entire application portfolio of the organization.

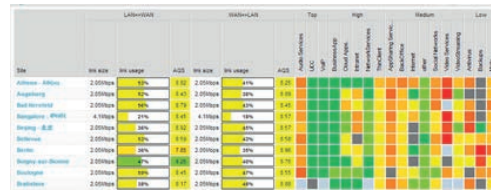
Today's enterprises need an application intelligent WAN-Optimization solution coupled with the SD-WAN solution to deliver -

- Business efficiency
 - Guarantees session bandwidth of mission-critical applications and availability across hybrid networks
 - Dramatically creates virtual bandwidth over the existing WAN underlay by eliminating redundant traffic patterns (WAN Optimization)
 - Maximizes end-user satisfaction and quality of experience
 - Implements governance for applications and networks
- IT efficiency
 - Delivers IT transformations on time and on budget
 - Enables clear, measurable and accountable network operations
- Cost savings
 - Protects application investments
 - Avoids bandwidth upgrades

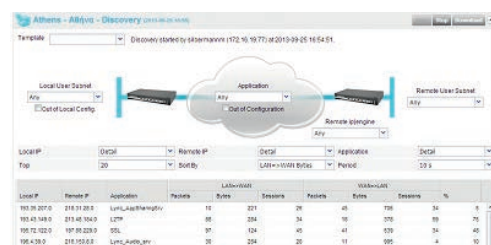
Harnessing the Power of SD-WAN and Seamless Application Optimization



InfoVista's Ipanema Application Performance Optimization is a proven platform that builds a potent ecosystem of both Application Intelligence and WAN Optimization. The Ipanema platform provides enterprise IT and network managers with deep visibility and control. The comprehensive solution fuels SD-WAN deployments with maximized application performance delivered across a hybrid WAN transport infrastructure, allowing enterprises to visualize and secure the dynamic Quality of Service (QoS) that is required to maximize organizational productivity. This is a significant advantage over other mechanisms on the market.

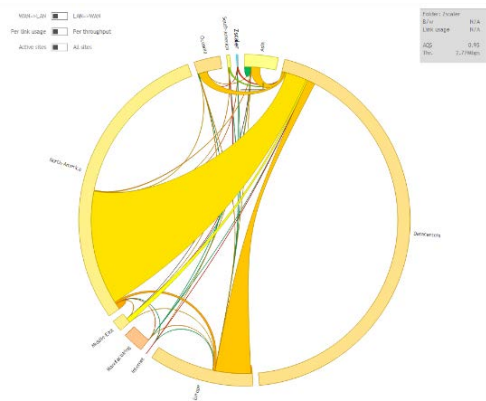


The control element dynamically adjusts network behavior and resources to the exact application traffic demand, guaranteeing critical application performance in the most complex and dynamic traffic situations. Specific CIFS Acceleration mechanisms address the chattiness of SMB Microsoft File Sharing protocol to improve end-user experience from a branch when accessing an Office document stored in a Data Center. Both these techniques are independent of the underlying technology (MPLS or Internet) works, even in single-WAN scenarios – making them extremely relevant to “assuring” sites that are not equipped with dual/hybrid WAN connectivity.



The Nuage Networks VNS is an industry-leading SD-WAN solution. The solution automates the provisioning, configuration and management of WAN connections to provide the optimal QoS at the lowest cost while meeting strict business policies and security requirements for each application. VNS can provide this

policy-based automation while seamlessly connecting WAN branch sites to on-premise data centers, private clouds, public clouds and provider-managed VPN networks. For SD-WAN deployments, enterprises can automate the configuration and deployment of VPN services and appliances, request value-added services such as firewalls and load balancers, and dynamically route traffic over the most cost-effective WAN links to achieve the desired QoS. The Nuage Networks VNS's scalable architecture also allows the deployment of multiple critical VNFs for seamless network and application operations to leverage its uCPE.



InfoVista Intelligent Application Optimization VNF – Fully Integrated with Nuage Networks SD-WAN Platform

The InfoVista – Nuage Networks joint solution offers an application performance guarantee VNF to enterprise customers for multi-branch deployment, on Nuage Networks VNS, integrated into the NSG. The solution provides ease of integration to both service providers and enterprises, as InfoVista's solution can be readily deployed as a VNF on the x86 server platform without integration complexities and in an agile manner to get branches up and running.

The Nuage Networks Virtualized Services Directory (VSD) stages the InfoVista VNF and pushes the InfoVista VNF on demand onto the Nuage Networks NSG instances at customer premises. The InfoVista VNF is then automatically started by the Nuage Networks platform on the NSG. Initial configuration of the VNF can be done through open-stack compliant mechanisms like Config Drive, or scripted configuration can be done through its management interface. InfoVista's top-down licensing offers a centralized management of licenses by service providers through InfoVista's central management platform (SALSA), ensuring ultimate flexibility in managing license pools across their managed customer base. Granular licensing is ensured through Ipanema Software Units (ISUs) that can be used to transfer or exchange licensing across services and sites of the same customer.

This joint solution has undergone stringent integration testing, and both InfoVista and Nuage Networks are currently engaged in several customer trials.

About Nuage Networks from Nokia

Nu-ähj: From French, meaning "cloud." Nuage Networks from Nokia brings a combination of technologies and networking expertise to the enterprise and telecommunications industries. The Silicon Valley-based business has applied new thinking to the problem of delivering massively scalable and highly programmable SDN solutions within and across the data center and out to the wide area network with the security and availability required by business-critical environments. Nuage Networks, backed by Nokia's IP/Optical Networks business, has the pedigree to serve the needs of the world's biggest clouds. The cloud has made promises – the mission of Nuage Networks is to help you realize them (www.nuagenetworks.net).

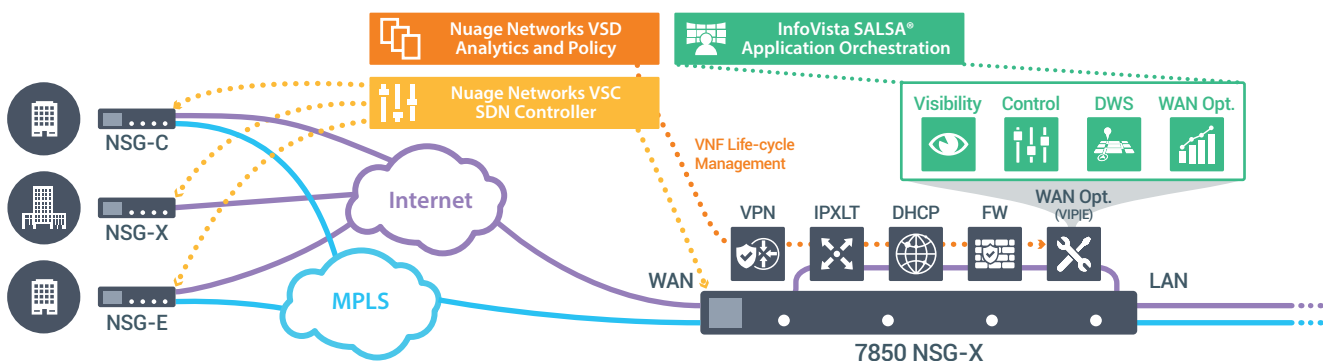


Figure 1. InfoVista - Nuage Networks Fully Integrated SD-WAN Solution Architecture

ABOUT INFOVISTA

InfoVista is the leading provider of cost-effective network performance orchestration solutions at the service of a better connected and collaborative world. Our award-winning solutions empower communications service providers and large enterprises to ensure a high-quality user experience by achieving optimal network performance and guaranteeing business-critical application performance. InfoVista's expertise and innovations provide a new level of actionable network, application and customer intelligence, visibility and control across all services, all technologies, and all domains of both the fixed and mobile networks. Using our solutions, eighty percent of the world's largest service providers and leading global enterprises deliver high-performing and differentiated services, plan and optimize networks to match application and service demands, and streamline network operations while keeping total cost of ownership as low as possible.

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