

Overview

HPE Virtual Network Services

Models

HPE Virtual Network Services for 100Mbps Network Services Gateway Software and E-LTU	JL266AAE
HPE Virtual Network Services for 500Mbps Network Services Gateway Software and E-LTU	JL267AAE
HPE Virtual Network Services for 1Gbps Network Services Gateway Software and E-LTU	JL268AAE
HPE Virtual Network Services for 2Gbps Network Services Gateway Software and E-LTU	JL456AAE
HPE Virtual Network Services for 10Gbps Network Services Gateway Software and E-LTU	JL457AAE
HPE Virtual Network Services for 1Gbps Network Services Gateway Border Router Software and E-LTU	JL458AAE
HPE Virtual Network Services for 2Gbps Network Services Gateway Border Router Software and E-LTU	JL459AAE
HPE Virtual Network Services for 10Gbps Network Services Gateway Border Router Software and E-LTU	JL460AAE
HPE NSG 200 6-Port Gigabit Ethernet VNS Hardware Gateway Appliance	JL379A

Key features

- Provides SDN-enabled networking for ENT/SP branch with support for Layer 2 to Layer 4 services
- Self-managed GUI makes service changes instantaneous to meet changing business needs
- Enables a framework to allow advanced network functions to be deployed as part of the core service
- Integrates with public and private cloud services
- Includes extensive traffic analytics and performance monitoring capabilities

Product overview

Software Defined Networking (SDN) has delivered significant benefits to datacenter networks unleashing the true power of the cloud. Hewlett Packard Enterprise brings the same benefits to business connectivity services with Virtualized Network Services.

HPE Virtualized Network Services (VNS) is a new wide area network service construct that provides you with the flexibility to adapt to the ever-changing business environment in which you work. Traditional VPN services are based on set functionality that can be deployed across the widest customer base with little room for per-enterprise customization. This forces you into the complex world of custom branch networking to achieve network capabilities that match your specific business needs.

HPE VNS gives you the power to centrally manage and deploy your network services. The comprehensive solution puts you in charge of all aspects of service creation and ongoing management without increasing the demands on your IT and Networking teams. The solution includes three key functions that work in concert to lower your operational overhead while increasing the network's ability to respond to your demanding business needs: HPE Virtual Services Directory, HPE Virtual Services Controller, and HPE Network Services Gateway.

Features and benefits

Virtualization

- **Centralized service definition and endpoint management**
 - Centralized service policy definition and auditing for all endpoints
 - Template-based service definition for intelligent endpoints
 - Root and organization level permission-based multitenant systems
 - Time-based automated endpoint configuration update
 - Centralized software lifecycle management
 - Auto-discovery of intelligent endpoints
 - Secure automated bootstrap of endpoints

Overview

- **OSS/BSS integration**
Northbound API access through RESTful APIs for all VSD functions
- **Architecture scalability**
 - Federated controller scale-out architecture based on MP-BGP
 - Routing engine powered by robust Alcatel-Lucent Service Router Operating System (SR OS)
- **Network services (Layers 2-3)**
 - Inet, L2-managed, L2-unmanaged, L3 and L4 VPN support
 - VLAN, VXLAN or MPLSoGRE encapsulation options
 - Ingress QoS with configurable rate limiting parameters and DSCP re-write options
 - Egress shaping for network and access ports with hierarchical QoS classes
 - DHCP services
 - Static routes
 - 1:1 Network Address Translation
 - IPv4 PAT on uplink IP or a configured IP from a PAT address pool
- **Network and security services**
 - Automatic VPN creation between different entities belonging to a security domain
 - Secure control plane connections
 - Service chaining to virtualized network functions
 - Application-aware traffic redirect capability
 - Full mesh, hub and spoke, and hybrid connectivity models
 - Control plane and data plane interoperability with provider edge devices
 - Ingress and egress access control list (ACL)
 - Bi-directional UDP reflexive ACLs with dynamic policy creation
- **Authentication**
 - LDAP integration for user authentication
 - Endpoint authentication through certificates
- **Analytics and reporting**
 - Fully programmable and extensible engine based on Hadoop clusters with real-time analytics support
 - TCA-based analysis engine with configurable collection timers
 - Drilldown capabilities into individual elements, ideal for troubleshooting and capacity planning based on historical event correlation
 - Encrypted channel for statistics collection
 - Port mirroring to remote location
 - Export logs to external logging servers
- **Deployment models**
Software image deployed as virtual machine

Technical Specifications

Network Services Gateway Software

HPE Virtual Network Services for 100Mbps Network Services Gateway Software and E-LTU (JL266AAE)**Recommended software** Please refer to the latest product release notes**Services** Refer to the Hewlett Packard Enterprise website at <http://www.hpe.com/networking/services> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.

HPE Virtual Network Services for 500Mbps Network Services Gateway Software and E-LTU (JL267AAE)**Recommended software** Please refer to the latest product release notes**Services** Refer to the Hewlett Packard Enterprise website at <http://www.hpe.com/networking/services> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local H Hewlett Packard Enterprise PE sales office.

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HPE Virtual Network Services for 1Gbps Network Services Gateway Border Router Software and E-LTU (JL458AAE)**Recommended software** Please refer to the latest product release notes**Services** Refer to the Hewlett Packard Enterprise website at <http://www.hpe.com/networking/services> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.

HPE Virtual Network Services for 2Gbps Network Services Gateway Border Router Software and E-LTU (JL459AAE)**Recommended software** Please refer to the latest product release notes**Services** Refer to the Hewlett Packard Enterprise website at <http://www.hpe.com/networking/services> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.

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Technical Specifications

NSG 200 6-Port Gigabit Ethernet VNS Hardware Gateway Appliance Specifications

Processor	Model	Intel® Xeon® D-1518
	CPU Frequency	2.2GHZ
	Cores	4
	Power	35W
	DDR4 (MHz)	2133
NOTE: For more information regarding Intel Xeon processors, please see the following http://www.intel.com/xeon.		
Ports	Network RJ-45 (Ethernet)	6
	VGA Port	1
	Dedicated Management NIC Port for iLO	1
	USB 3.0	3
	USB 2.0	1
Memory	Type	Registered DIMM (RDIMM)
	DIMM Slots Available	2
	Installed (RDIMM)	16GB (2 x 8GB RDIMM 2400MHz)
Storage (HDD)	Type	M.2 SSD (2280)
	Installed (SSD)	1 x 256GB
Power Supply	HPE 120W Power Adapter (Output 19.5V/6.15A)	
Fan	(1) Non-Hot-Plug FAN	
Operating System	HPE VNS Software Installed (Bootable)	
Dimensions	10 x 10 x 1.9 in (25.4 x 25.4 x 4.7 cm)	
Emissions Classification (EMC)	FCC Rating	Class B
Weight (exclude packing)	Approximate 4.72 Lb (2.14 kg)	
System Ambient	10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed.	
Relative Humidity	Operating	The unit shall be fully functional from 10% to 90% relative humidity, 28°C maximum web bulb temperature, (non-condensing) across the operating temperature range of 0°C to 40°C.
	Non-operating	5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.
Acoustic Noise	Listed are the declared A-Weighted sound power levels (LWAd) and declared average bystander position A-Weighted sound pressure levels (LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109).	
	Idle	
	L WAd	4.2 Bels
	L pAm	28.7 dBA
	Operating	
L WAd	4.9 Bels	

Technical Specifications

Summary of Changes

Date	Version History	Action	Description of Change
06-Nov-2017	From Version 2 to 3	Added	Model added: JL379A
05-June-2017	From Version 1 to 2	Added	Models added: JL456AAE, JL457AAE, JL458AAE, JL459AAE, JL460AAE
		Changed	Technical Specifications updated



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