

# virtual Multiservice Edge Gateway

A software instance solution for Benu Networks’ virtualized IP services and networking applications. The vMEG supports VMware and OpenStack virtual environments on standard COTS hardware.

Benu Networks’ virtual Multiservice Edge Gateway (vMEG) is virtual software solution which runs Benu Networks’ operating system (BenuOS) for fixed and mobile broadband service providers deploying next generation IP services to the edge and core of their networks. The vMEG provides new scale and economics for Benu Networks’ virtualized IP service & network applications and offers service providers a fully virtualized deployment for the most demanding networking and IP service applications.

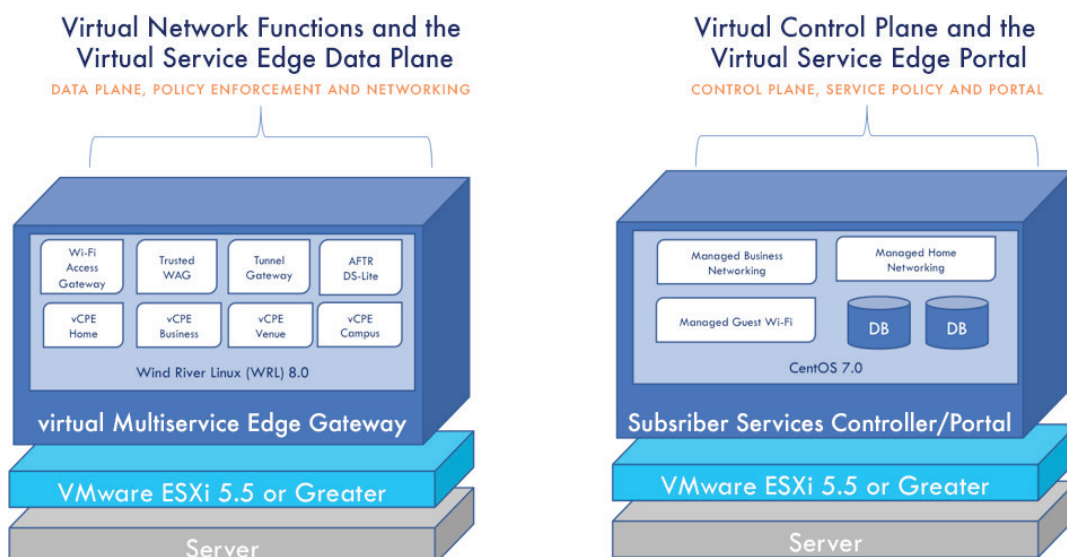


## vMEG OVERVIEW

The vMEG is a software solution that leverages innovations in fast path processing, high-capacity x86 compute, carrier-grade Linux and Benu Networks’ IP services & networking software. The BenuOS, Benu Networks’ operating system, has been optimized to address low latency and bandwidth intensive IP services that require high performance packet processing, intelligent service control and policy enforcement. Network functions such as Wi-Fi Access Gateway (WAG), virtual Customer Premises Equipment (vCPE), and Service Edge Routing require predictable, reliable performance and scalability. IP service functions, such as usage based monitoring, Carrier-grade NAT (CGN), Service Function Chaining (SFC), and hierarchical Quality of Service (QoS) require both packet processing and service intelligence.

The vMEG is designed to support the following applications:

- Wi-Fi Access Gateway (WAG): HomeSpot, HotSpot 2.0, and Roaming
- Trusted Wi-Fi Access Gateway (TWAG): Mobile Data Offload and 3GPP Interworking
- Virtual CPE (vCPE): Residential, SoHo/SMB, Multi-Dwelling Unit, Campus
- Dual-Stack Lite (DS-Lite): IPv4-IPv6 Transition
- B2B Static IP and IP VPN Router
- Provider Edge Router (PE/PE)
- Carrier-grade NAT (CGN)



## vMEG MODEL NUMBERS

MODEL NUMBER	DESCRIPTION
700-1310	vMEG Operating System, VMware, Dual-Socket - Supports up to 44 cores
700-1311	vMEG Operating System, VMware, Single-Socket - Supports up to 12 cores
700-1320	vMEG Operating System, Openstack, Dual-Socket - Supports up to 44 cores
700-1321	vMEG Operating System, Openstack, Single-Socket - Supports up to 12 cores

## vMEG SPECIFICATIONS – VMware

SYSTEM SPECIFICATIONS	
Hypervisor	VMware: Version 5.5 or later
Interfaces	VMxNet3 (VMware) Intel i350-based* (PCI network pass-through or SR-IOV) Intel 82599-based* (PCI network pass-through or SR-IOV) Intel x710-based* (PCI network pass-through or SR-IOV)

\*This is a guideline to what network cards are expected to work with the Benu Networks' vMEG software. Contact Benu Networks for more details and availability of specific network interface cards.

## vMEG SPECIFICATIONS – OpenStack

SYSTEM SPECIFICATIONS	
Hypervisor	OpenStack/KVM: Version Liberty or later
Interfaces	VirtIO (OpenStack/KVM) Intel i350-based* (PCI network pass-through or SR-IOV) Intel 82599-based* (PCI network pass-through or SR-IOV) Intel x710-based* (PCI network pass-through or SR-IOV)

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RESOURCE REQUIREMENTS	SMALL DEPLOYMENT	LARGE DEPLOYMENT
Processor/Cores	3	14
RAM	12GB	120GB
Storage	24GB	120GB
Management Interfaces	1	1
Data Interfaces	1	2

[BENUNETWORKS.COM](http://BENUNETWORKS.COM)
[INFO@BENUNETWORKS.COM](mailto:INFO@BENUNETWORKS.COM)

**Corporate Headquarters**  
 Benu Networks  
 300 Concord Road  
 Suite 110  
 Billerica, MA 01821  
 USA

Benu Networks Ltd.  
 Avenida de la Vega, 1  
 Building 3, 2nd Floor, Office 1  
 Alcobendas  
 28108 Madrid  
 Spain

Benu Networks Packet Switch Pvt. LTD  
 Vatika Business Center  
 A Wing, 2nd Floor, Suite 1  
 11 O'Shaughnessy Road,  
 Bangalore 560025  
 Karnataka, India