

Allot Virtual Editions

# Service Gateway Virtual Edition

## Flexible, Agile, and Scalable Delivery of Virtualized Network Services

Allot Service Gateway is a powerful and proven service delivery platform, providing a single point of integration in thousands of enterprise and CSP networks, for the deployment of Allot services ranging from advanced traffic visibility, security and policy control, to customer engagement and service personalization.

Allot Service Gateway Virtual Edition (SG-VE) plays the same role in your NFV environment. It provides a high-performance service delivery framework deployed on commodity components and built to power Allot's intelligence, security and personalization services as virtual network functions (VNFs) that operate seamlessly and consistently across your core network and into the cloud.

### Benefits

- **Increased deployment agility**

Deploy Allot's Layer-7 application visibility, policy control, charging, and security services wherever they will be most effective - at customer premises, network edge, cloud data center, or small-scale remote locations.

- **Seamless service integration**

Accelerate time-to-market by delivering some or all of Allot's market-leading services from a virtualized service delivery framework that is pre-integrated with your NFV (e.g. Gi-LAN) and vCPE requirements.

- **Elastic service delivery**

Allot automatic adaptation of Allot Service Gateway capacity, performance and functionality to support dynamic service demands.

- **Complete compatibility**

Allot Service Gateway Virtual Edition is fully compatible with your current Allot deployments and with ETSI NFV architecture, giving you extreme flexibility as you plan expansions and new service projects.

## Single Point of Service Integration

Allot's growing portfolio of value-added services are pre-integrated with Allot Service Gateway Virtual Edition, enabling fast deployment of innovative solutions for:

- Subscriber Security Services
- DDoS Protection
- Bot Containment
- Policy and Control Charging
- Traffic Management
- Network Data Source
- Network Analytics
- Customer Engagement

The virtualized platform also supports real-time traffic steering to third-party applications or other virtualized services, so you can minimize interoperability and integration issues and accelerate service rollout.

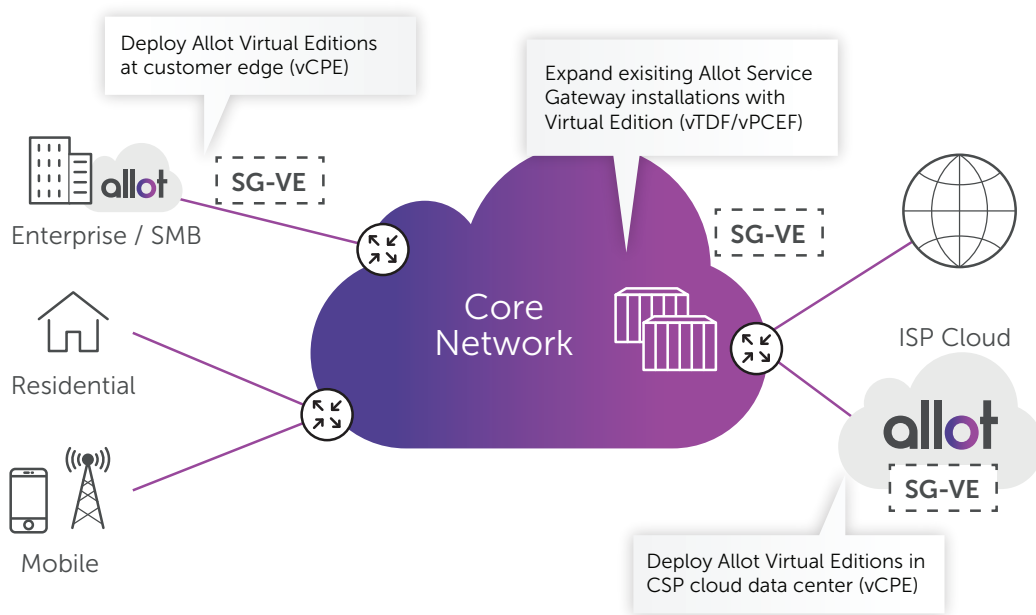
## Deployment Flexibility

**Virtual TDF/PCEF:** Like Allot's purpose built platforms, Allot Service Gateway Virtual Edition is fully compliant with 3GPP standards for intelligent Traffic Detection Function (TDF) and Policy and Charging Enforcement Function (PCEF) in 3G/4G/5G networks, enabling you to leverage Allot's superior traffic identification and classification to enrich the policy decisions of PCRF elements, and to enhance the charging capabilities of online and offline charging systems (OCS, OFCS).

## Accurate Traffic Visibility and Policy Control

Allot's Dynamic Actionable Recognition Technology (DART) engine, embedded in the virtualized service delivery framework, gives you granular visibility of application, user, device, quality-of-experience (QoE), network topology traffic and encrypted traffic. Allot's extensive signature library accurately identifies hundreds of applications and protocols, and also supports user-defined signatures. Frequent and automated updates to the signature library ensure accurate and up-to-date traffic detection and classification. Moreover, Allot's flexible and powerful Policy Editor allows for you to provision and enforce real-time Quality of Service (QoS), steering, metering and charging policy with equal granularity.

**Virtual CPE:** Allot SG-VE supports virtual customer premises equipment (vCPE) deployments that let you leverage hardware abstraction to reduce network operating expenses and enjoy shorter and more flexible service introduction or expansion without truck roll replacements at remote offices or customer sites.



## Centralized Management

Allot NetXplorer and Allot Subscriber Management Platform (SMP) software work in harmony to provide a central vantage point for network-wide configuration and management of all Allot platforms and services, including Allot Service Gateway Virtual Edition. Allot makes it easy to spin up and provision Virtual Editions on demand, and when

requirements decrease, spin down the Virtual Edition and return it to your license pool for future use. Virtual Edition license pools (based on number of CPU/core processors required) are available in flexible increments.

## Allot Service Gateway Virtual Edition

Allot Service Gateway Virtual Edition supports popular virtualization platforms enabling easy deployment on any public or private cloud. Performance specifications are calculated on the basis of virtual cores and assuming an Intel® Xeon® processor with SR-IOV enabled. Actual throughput performance will be affected by underlying hardware and hypervisor configurations, software licenses, and enabled policies.

Allot Service Gateway Virtual Edition		
<b>Virtual Machine</b>		
Virtual CPUs	4	32
Virtual RAM	8 GB	64 GB
Virtual Storage	100 GB	100 GB
<b>Capacity</b>		
Throughput	6 Gbps	48 Gbps
<b>Hypervisor</b>		
VMware ESXi	VMware vSphere 5.5 and above	
RedHat KVM	RedHat RHEL 6.7 and above	
<b>Cloud</b>		
OpenStack	OpenStack Kilo and above	
VMware	VMware vCloud 5 and above	
<b>Operating System</b>		
CentOS	Linux CentOS 7, 64-bit x86	

\*Performance figures were measured on reference system,  
HP DL380G9, E5-2680 V3 CPU, 24 Cores, SR-IOV enabled