

Allot High Performance Platforms

Service Gateway 9500



Powering the Digital Experience

Allot Service Gateway 9500 provides a powerful service delivery platform in an Intel-based appliance, designed especially for cloud data center, enterprise, and ISP networks. Its small footprint is equipped with the same rich features and functions as the chassis-based Allot Service Gateway, enabling you to roll out Security as a Service as well as other revenue-generating services rapidly and cost-effectively, while you lower your total cost of ownership and accelerate ROI.



Highlights

- Powerful and cost-efficient service delivery platform
- 140 Gbps per appliance; up to 1 Tbps in a cluster
- Real-time Layer-7 application visibility, policy enforcement, charging
- Real-time visibility of encrypted traffic
- Supporting turnkey Security as a Service solutions
- Deployment and management across any access
- Easy installation and pay-as-you-grow scalability

Features

Single Point of Service Integration

Allot SG-9500 supports Allot's Security as a Service offering as well as a growing portfolio of pre-integrated value-added services including:

- Allot WebSafe Personal (Security as a Service for consumers)
- Allot WebSafe Business (Security as a Service for businesses)
- Allot ServiceProtector (DDoS protection and anti-bot)
- Allot ContentProtector (URL filtering)
- Allot SpamOut Protector (anti-spam service)

The platform also supports real-time traffic steering to third-party applications or virtualized services. As a single point of integration for these services, Allot SG-9500 minimizes interoperability and service integration issues to facilitate fast and efficient service rollout.

Efficient Performance

Allot Service Gateway 9500 (SG-9500) provides a high performance service delivery platform with rich functionality in an efficient, small-footprint appliance. With high-density 10 Gigabit Ethernet connectivity and 140 Gbps of throughput, the platform allows enterprises, cloud data centers and ISP networks to satisfy the ever-growing demand for Internet bandwidth and network-based services in a cost-efficient manner.

Future-Proof Scalability

Start small and expand seamlessly with pay-as-you-grow deployment that reduces initial capital outlay and allows network operators to respond quickly to market changes.

- **Capacity:** supports up to 4 million active users (concurrently attached and active), and 48 million concurrent IP flows
- **Connectivity:** up to 24 x 10 Gigabit Ethernet
- **Throughput:** up to 140 Gbps in a single platform
- **Clustering:** supports up to 8 Allot SG-9500 platforms in a seamless cluster configuration providing aggregate throughput of up to 1 Tbps
- **Central Management** and configuration by Allot NetXplorer Management system, including full integration with Allot Subscriber Management Platform (SMP)

Accurate Traffic Visibility and Policy Control

Allot's Dynamic Actionable Recognition Technology (DART) engine, embedded in the platform, gives you granular visibility of application, user, device, quality-of-experience (QoE) and network topology traffic. Allot's extensive signature library accurately identifies hundreds of Internet applications and protocols, and also supports user-defined signatures. Frequent and automated updates to the signature library keep Allot Service Gateways up to date with the latest applications and Internet developments, ensuring accurate traffic detection and classification.

SDN / NFV Compatibility

Allot Service Gateway 9500 leverages Intel-based hardware to provide a powerful and cost-efficient platform that is ideal for network operators who are in various stages of migration to cloud-based network services and Network Functions Virtualization (NFV)

Allot SG-9500 is able to interface seamlessly with data-plane and control-plane elements in the network. Allot supports proprietary and standard OpenFlow to enable real-time Layer-7 traffic management, policy control, security services and service delivery optimization in software-defined networks (SDN).

Moreover, Allot's flexible and powerful Policy Editor makes it easy for you to provision and enforce real-time Quality of Service (QoS), steering, metering and charging policy with equal granularity.

Efficient Clustering

Allot SG-9500 maintains accurate Layer-7 visibility and control of user-application traffic across multiple platforms even when asymmetric upstream and/or downstream IP flows are processed by different appliances. Clustering of up to eight platforms utilizes dedicated interfaces with very low synchronization traffic overhead.

Intelligent Policy and Charging Enforcement

Compliance with 3GPP standards enables Allot SG-9500 to provide intelligent Traffic Detection Function (TDF) and Policy and Charging Enforcement Function (PCEF) in 3G/4G mobile data networks. As a result, network operators can leverage 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).

Collecting Network Data Records

From its vantage point in the network, Allot SG-9500 collects and exports a rich variety of high-resolution usage data, including real-time transactions per user, per application, per device, per video session, per VoIP and Instant Messaging session, per Web session, and more. Network data records may be exported in standard formats to business intelligence systems, such as Allot ClearSee Network Analytics, and other operator systems for further manipulation and analysis. Frequency and triggers for data record export are configurable parameters, giving operators ready access to usage data that is critical to their business. The data records coming from Allot SG-9500 are configurable and may be customized by Allot Data Science Services for any destination or use case requirements.

Specifications

Allot Service Gateway 9500 Platform

Allot SG-9500	
Capacity	
Throughput per Platform*	Up to 140 Gbps
Throughput per Cluster*	Up to 1 Terabit/sec using 8 devices
Number of Flows	Up to 48 Million
Number of Active Subscribers	Up to 4,000,000
Number of Policy Lines / Pipes / Virtual Channels	Up to 1000 / 800,000 / 4,000,000
Interfaces	
Ethernet Interfaces	Up to 24 x 10 Gigabit Ethernet
Management	2 x 10 Gigabit Ethernet or 2 x 1 Gigabit Ethernet
Physical Characteristics	
Form Factor	2U 19" rack mount
Size	8.73 x 44.55 x 73.02 cm (3.44 x 17.54 x 28.75 in) , dimensions without Bezel
Weight	Min 32.6 lb (14.759 kg), Max 42 lb (19 kg) per number of NIC interfaces
Power	Dual Hot Plug, Redundant 100/240VAC or -48VDC, efficiency of up to 94%, Energy star, 80PLUS, 800W
Environment	Operating temp 10°C to 35°C (50°F to 95°F), Relative humidity (%RH) 8% to 90%
Availability	
System Redundancy	Redundancy for PSUs and fans
Hardware Bypass	Independent, passive bypass unit
Bypass Configuration	Up to two units, HD-8 fiber-optic ports (4 links) Or HD-16 fiber-optic ports (8 links) Or Single unit HD-24 fiber-optic ports (12 links)
HD-8 Multi-Port Bypass Unit	External 1U 19" rack mount, 2.44kg (5.38lb)
HD-16 Multi-Port Bypass Unit	External 1U 19" rack mount, 2.64kg (5.82lb)
HD-24 Multi-Port Bypass Unit	External 1U 19" rack mount, 2.86kg (6.3lb)

* Actual throughput performance metrics depend on enabled features, policy configuration, traffic mix, and other deployment characteristics and therefore, do not constitute a promise of any kind for actual functionality or implementation.



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