

Security as a Service

NetworkSecure

Assuring Online Security for Every Customer

When your customers know that you are protecting them against online threats and harmful content, increased brand loyalty and incremental revenue will follow. Allot NetworkSecure is an integrated platform built for rapid rollout of personal security, parental control and ads-free services that safeguard your customers. Allot security services are network based, so they are accessible to any device, do not require client software, and do not impact performance or battery life. Moreover, your customers will enjoy simple setup options for all devices via a personal portal. Built-in customer engagement, notification, and campaign management modules enable you to achieve high service adoption rates and maintain ongoing value in the eyes of your customers.

Designed for CSPs to deliver security services to the mass market, NetworkSecure supports mass-informed service activation for both opt-in and opt-out customer onboarding, resulting in 50% service adoption of the customer base. NetworkSecure has proven to generate significant service revenue in existing Tier-1 deployments by securing millions of customers at low incremental cost to their monthly bill.

Benefits

Add Value to Your Business

- Increase ARPU from consumer security services
- Maximize uptake through frictionless onboarding
- Gain valuable security and threat intelligence

Add Value for Your Customers

- Protect your customers against ransomware and crypto-jacking
- Safeguard children from dangerous and inappropriate content
- Strengthen customer loyalty with personalized notifications

Flexibility and Scalability

- Flexible deployment as a virtual network function (VNF), standalone software, or hosted on the Allot Service Gateway
- Multitenant architecture that scales to support millions of customers
- Integrates with CSP operations and business support systems

360° Security Services for the Mass Market

NetworkSecure is a keystone of Allot Secure that unifies three security layers into one unified service for the mass market; at home, at work and on the go. These include;

- o **NetworkSecure** for protecting customers on-line across all network-connected devices.
- o **HomeSecure** for securing IoT, smart appliances, and end user devices in the home and office.
- o **EndpointSecure** for extending network-based security to customers off-net.

Allot Secure unifies the customers parental control settings and security policy, reporting, and event handling for a seamless customer experience over converged, fixed, and mobile networks.

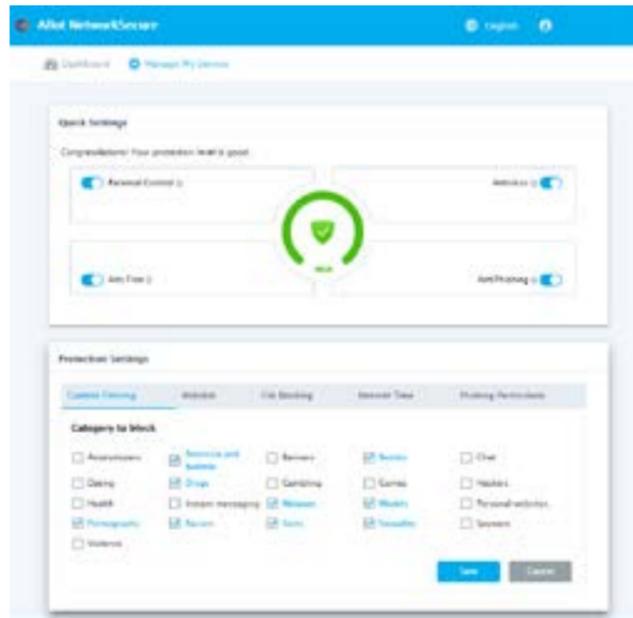


Safe Browsing for Everyone in the Family

With the proliferation of smartphones and tablets, online activity has increased dramatically among teens and children. Even at home, the screens-per-room count is growing, with households often using two or more Internet access devices in a room at any given time. Allot NetworkSecure helps you provide peace of mind to parents who are concerned about the online activities of their children and want to protect them from harmful and inappropriate content. Allot NetworkSecure assures child-safe browsing by allowing parents to determine the websites and content that their children can access, as well as the hours and amount of time they spend online. Accurate web filtering techniques identify, classify, and control access in real-time according to individual user profiles, which the parent manages online.

Service Highlights

- o **Personal Web Filter:** Gives parents control to select the content categories and URLs they want to filter per device.
- o **Personal Anti-Phishing:** Prevents users from falling victim to credential/identity theft and other phishing scams.
- o **Personal Internet Time:** Allows parents to limit online access to specific hours and/or to maximum hours per day per device.
- o **Personal Unblock:** Provides a channel for the customer to submit recategorization requests and receive results within minutes.
- o **Personal Ads Free:** Applicable for the whole family, blocks popup ads, animated gifs, and banners for a safer and nuisance free experience.



With Allot NetworkSecure, parents can get periodic reports detailing the online activity of their children and the malware threats they encounter. Easy-to-read graphs show the most frequently blocked targets; the most frequently accessed categories and sites. All reports are accessible from your customer service portal.

Personal Anti-Malware

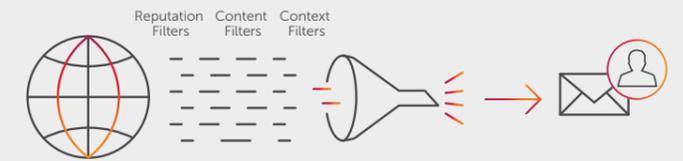
24/7 Protection from Online Threats

Crypto-jacking, spyware, phishing, and ransomware are among the many threats that Internet users face every day. Allot NetworkSecure provides network-based anti-malware that protects your customers against all kinds of malware that can lead to financial loss, identity theft, and loss of personal content. It also includes powerful anti-virus and anti-phishing for email (SMTP, POP3, IMAP) and web traffic, which takes the worry out of engaging in online activity and transactions.

Allot anti-malware provides quick response to new threats, frequent 24/7 updates and a wide protection net that requires no action from users and no resources from their devices.

Multilayer Detection

Real-time multilayer detection employs patented heuristic methods to identify unregistered signs and mutations that use polymorphic codes to avoid detection. Allot inspect compressed files, images, and scripting files which are popular places to embed malware.



Service Highlights

- o **Anti-Virus:** Employs Bitdefender, Kaspersky Lab, and/or Sophos technologies to provide industry-leading response time to new malware outbreaks. Allot allows flexible customization of protection levels, quarantine, user notification, infected-file detection, and on-demand reports.
- o **Anti-Phishing:** Quarantines phishing emails, warns customers, and blocks access to phishing web sites based on up-to date threat intelligence. It detects telltale signs of phishing including suspicious links, personal information requests, and pharming attacks that redirect traffic to spoof sites.
- o **Anti-Spam:** Inspects inbound email for spam content and automatically blocks or quarantines spam-infected email messages coming into desktop clients through POP3, IMAP or SMTP servers. Allot integrates 16 leading technologies to detect spam, including analysis of email origin, destination, text, hyperlinks, and file attachments.
- o **Anti-Bot:** Monitors the data path and blocks bot command and control callback requests, based on up-to-date threat intelligence, rendering bot infected endpoints dormant. This is effective for both IoT devices and endpoint devices since most bots avoid the use of DNS.

Network-based Protection Against



Security Notifications & Report

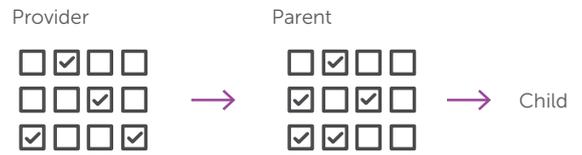


Informing customers on how your security service has protected them during a given period is key to creating and maintaining the perception of value during trial periods, try-and-buy campaigns, and throughout the service lifetime. Security reports can be provided in condensed and detailed formats for both web and email traffic and can be delivered in push or pull mode. Security notifications are provided in real time, for example a blocked malware download or a live redirect to safety from a phishing website. All the notifications and reports are fully customizable, including branding, messaging and language, frequency, and content. All reports are accessible via standard web browsers from your customer service portal and can be set for individual devices and aggregated for a family.

Scalable Security as a Service

Single and Multi-Tenant Operation

Single and multi-tenancy operation allows you to offer a predefined set of web security features for all customers, as well as the ability for customers to personalize their own parental control and anti-malware settings per device. Allot supports up to 50 million individual tenants and lets you manage them via a unified management console.



Scalable Service Delivery Framework

Allot NetworkSecure is a software solution. It can be deployed as a virtual network function (VNF) over a VMware or OpenStack NFV infrastructure. It can also be deployed on COTS hardware or hosted on a blade in the Allot Service Gateway. This tight integration enables unlimited scalability and cost-efficient deployment in operator networks. Allot high-performance platforms monitor all network traffic and steer only the relevant flows to the security services, while a unified management console monitors and manages web security services for all customers across your entire network.

Visibility and Insight for Service Providers

Network-based Security as a Service means that you keep valuable threat-event data within your organization, thus avoiding the privacy risks and latencies that are inherent in external cloud-based solutions. Moreover, you can analyze security events that are relevant for your customers and geography of operation to create relevant and timely security notices, tips, and best practices that are valuable for brand and public relations in addition to service promotion.

Security Customer Engagement

Nurture ongoing engagement with your Security-as-a-Service customers by sending them in-browser notifications. Notices to opt-in users are triggered automatically and may include text, images, video, banners, and animations. Automatic notifications provide a non-intrusive channel to keep in touch with customers and to add value to their digital experience.

Unified Management

Allot NetworkSecure is a member of our growing portfolio of integrated security services, Allot Secure, designed to protect the digital experience of your consumer and business customers. Additional security products such as Allot IoTSecure, HomeSecure, and Allot DDoS Secure can be co-deployed with ease and centrally provisioned by Allot's unified management.