

Allot Centralized Management

NetXplorer



Advanced Visibility and Centralized Management of All Network Traffic

As the scalable management system for Allot devices, platforms, and value added services, Allot NetXplorer provides a central vantage point for network-wide monitoring, reporting, and analytics. Its intuitive Graphical User Interface (GUI) paints a consolidated picture of application, user, device, and topology traffic and enables easy drill-down to the most granular traffic data.

Benefits

- **Superior traffic visibility**
- **Centralized NMS with powerful tools** for policy creation, traffic management, and platform and software configuration and maintenance.
- **Single policy front-end** for managing Allot's distributed, scalable solution
- **Real-time and long-term analytical capabilities** with customizable data views

Allot NetXplorer supplies the network business intelligence that is essential for IP service optimization in today's broadband networks. It allows network operators to understand how their bandwidth resources are being consumed by applications and users on the network, and to define traffic management policies that link service and performance parameters to their business goals and to user expectations.

With a full complement of real-time and long-term reporting capabilities, Allot NetXplorer provides unsurpassed visibility for proactive troubleshooting and traffic trend analysis to assist with capacity and service planning.

Enhanced Broadband Traffic Visibility

Allot NetXplorer's reporting and analytics capabilities span a broad range of dimensions:

Application-based reports provide granular statistics and analysis of Internet applications such as BitTorrent, Skype, WhatsApp, and Netflix.

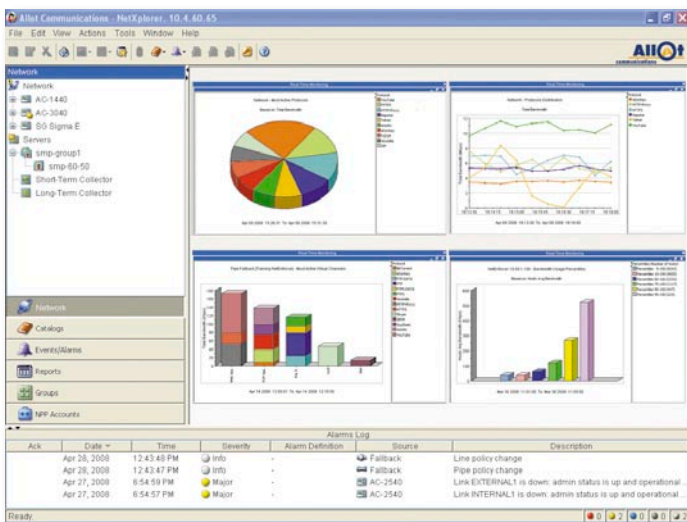
HTTP reports analyze Internet usage and Over-The-Top (OTT) applications such as browsing, HTTP streaming, and downloads – showing which websites are generating the most traffic.

Subscriber reports* provide individual and aggregate subscriber behavior data. Reports showing subscriber usage of popular content such as Netflix and Facebook enable operators to personalize their service plans, while service plan utilization and popularity reports help operators to fine-tune service plan quotas and percentile reports show the average usage for the top X% of users.

VoIP Minutes of Use report tracks usage volume and identifies usage trends of OTT VoIP applications.

Mobile Analytics reports* provide operators with performance metrics around mobile data usage and the impact different types of mobile devices have on the network. Reports include cell congestion and bandwidth usage, roaming activity, top protocols, session bitrates, session duration, session signaling, and service plan metrics – all stacked by the mobile device make and model used.

*May require additional license



Intuitive user interface with dashboard view

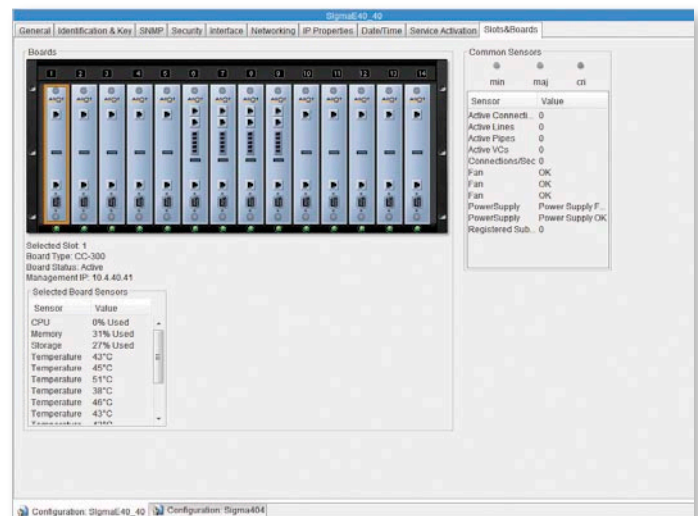
Rich Set of Reporting Functions

- Real-time reports provide precise traffic statistics for quick diagnosis of network problems
- Historical traffic statistics facilitate network capacity planning and trend analysis
- Easy navigation (including zoom or scroll) to view all report data in graph or tabular format, desired time-frame, and drill-down to view more granular data
- Dashboard arranges up to 10 frequently used reports on a single screen for efficient viewing
- Variety of report export formats, including textual file, JPEG, PNG, HTML, XML, and CSV
- Scheduled reports for automatic generation and email distribution
- Multiple chart styles including color-coded, pie, line, and stack-area charts

One Network – One Management Front End

Allot NetXplorer provides centralized visibility that is accessible to multiple clients and designed to manage a globally dispersed network infrastructure.

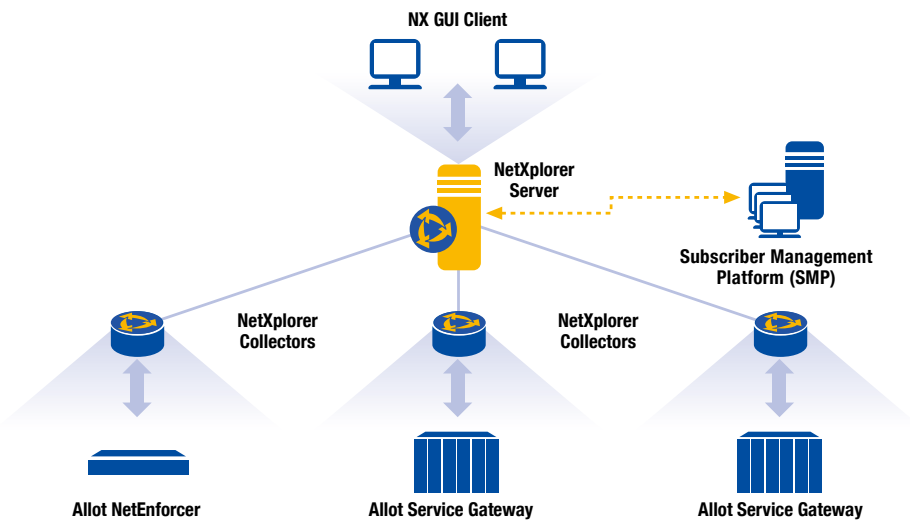
- One GUI provides centralized control of key Allot solution elements, including in-line platforms, Subscriber Management Platform (SMP), and collection and export servers
- Scales up and out to manage a multi-site, distributed deployment, and to handle Terabytes (TB) of network data generated by the Allot solution elements
- Policies, alarms, and subscriber updates are automatically propagated to the relevant solution elements (user audit log provided on demand)
- Allot NetXplorer server is accessible from multiple clients concurrently – facilitating user identity management and authentication
- User authorization provided via standard RADIUS element for smoother and tighter integration in operator networks



The graphical Device View simplifies maintenance and operation

Scalable System Architecture

The fully distributed design of Allot NetXplorer allows the system to scale upward by adding functional elements at the appropriate architectural layers, while maintaining overall management from a central server.



Interface Layer: Provides multiple levels of access/operation, and open interfaces for integration with external systems.

Application Layer: Centralizes reporting, policy provisioning, and management of network traffic, configuration of all managed devices/platforms, and notification/mitigation of network attacks.

Collection Layer (optional): Supports growing and large-scale deployments through distributed data collection.

Real-time Service Layer: In-line platforms monitor network traffic in real time and dynamically enforce policy control per application and per user. This layer is always up and fully functional, even if other layers are temporarily unavailable.

Powerful Policy Control

Allot NetXplorer's full set of reusable service catalogs and provisioning tools make it easy to build dynamic Quality of Service (QoS) enforcement and charging policies.

Enforcement Policy

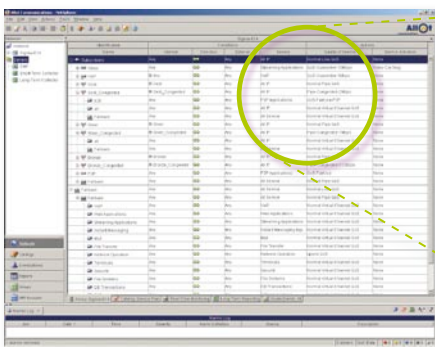
Allot's Enforcement Policy Editor provides a powerful framework for defining specific traffic conditions and QoS enforcement actions according to high-level, easy-to-understand concepts. Enforcement policies may include any combination of access, priority, bandwidth allocation, traffic shaping, traffic steering, and quota actions to be taken on application and subscriber traffic. Additionally, rich Command Line Interface (CLI) and Simple Object Access Protocol (SOAP) interfaces allow external systems to provision policies and distribute them to all managed elements.

Charging Policy

Allot NetXplorer provides flexible charging policy editors that make it easy to define online and offline charging rules for both pre-paid and post-paid subscribers. The Online Charging Policy Editor defines real-time metering and rating rules for subscriber sessions and applications, while the Offline Charging Policy Editor defines the Charging Data Records (CDR) for data reconciliation and accounting systems. (See Allot SMP datasheet for further information on 3GPP-based policy control and charging capabilities.)

Intuitive Assistance with Service Plan Creation

Also in conjunction with Allot SMP, Allot NetXplorer provides the GUI for the creation of tiered service plans, including the introduction of various quota allowances to prevent network overloading, and time-based policies to address peak hour usage.



Enforcement Policy Editor

Service	Quality of Service
All IP	Normal Line QoS
Streaming Applications	QoS-Guarantee-10Mbps
VoIP	QoS-Guarantee-1Mbps
All IP	Normal Pipe QoS
All IP	Pipe-Congested-2Mbps
P2P Applications	QoS-FairUse-P2P
All IP	Normal Virtual Channel QoS
All Service	Normal Virtual Channel QoS
All IP	Normal Pipe QoS
All IP	Pipe-Congested-1Mbps
All IP	Normal Virtual Channel QoS
Service	Normal Virtual Channel QoS
Service	Normal Pipe QoS

Valuable Add-Ons

A number of advanced capabilities are available as licensable add-ons to the standard Allot NetXplorer software.

NetPolicy Provisioner

Value added self-management
NetPolicy Provisioner (NPP) adds distinctive value to provider-carrier service offerings by allowing them to offer self-monitoring and self-provisioning capabilities to their VPN, ISP, and managed services customers. The NPP web-based GUI is accessible from any browser window and provides direct access to a predefined set of NetXplorer real-time monitoring reports with full display options and drill-down capabilities. If desired, the provider may also permit customers to provision and adjust QoS policies within predefined limits (See the Allot NetPolicy Provisioner datasheet for details).

Net Accounting

Facilitating data reconciliation
NetAccounting processes real-time usage statistics into granular accounting records and delivers this valuable data to OSS and BSS elements to support charging and usage-based billing for both fixed and mobile broadband subscribers.

Allot NetXplorer software and hardware servers may be purchased in non-redundant and high-availability configurations.

	NetXplorer Server: Non-Redundant Platform	NetXplorer Server: High Availability Platform
Capacity		
Max Number of Concurrent Clients	15 per NetXplorer server	
Max Number of Concurrent Graphs	20 per NetXplorer client	
Max Number of Registered Administrator Accounts	1000 per NetXplorer server (30 active administrators)	
Operating System	CentOS Linux 5.8 64 bit x 86	
High Availability Scheme		RAID 10
Health Monitoring		
Provides Real-time Status on Demand for:	Utilization: CPU, memory Number of registered subscribers Enabled alarms, KPIs on AOS and SMP	
Interfaces		
OSS/BSS	SOAP, CSV	
Management	SNMP, CLI	
File-based Accounting Records	Supports NetAccounting CDRs (requires a separate license)	
Dimensions and Power		
Size	Standard 1U in 19" rack	4U in 19" rack
Power Supply	AC	AC

Hardware Specifications

When using non-redundant management platforms, Allot NetXplorer software may be purchased and installed on operator equipment that meets the following minimum requirements. The minimum configuration supports a limited number of Allot NetEnforcer and Allot Data Collector devices. Individual sizing requirements should be verified with an Allot representative.

Minimum Specifications for Allot NetXplorer Server Platform	
Hardware	Similar to Intel Xeon 4 core 2.0 GHz, 6 cores recommended 6 GB RAM minimum; 16 GB RAM recommended RAID (0 or 10) controller with 512 MB cache HDD: 10,000 RPM, 1.5 GB storage space (capacity depends on overall storage requirements and may require sizing adjustments)
Supported Operating Systems	CentOS Linux 5.8 64-bit x 86 (English only), Red Hat Enterprise Linux 5.8, 64 bit x 86 (English only) MS Windows Server 2008 SP2 Standard and Enterprise editions 64 bit (recommended if using Windows) or MS Windows Server 2003 Standard or Enterprise Editions 64 bit

Virtualized NetXplorer Management

Allot NetXplorer is available as a virtual appliance, running on VMWare in an ESXi environment. Allot virtual appliances are compatible with VMware vCenter 5.5 and higher. For optimal performance, the virtualized environment should be able to provide adequate compute, storage, and network resources according to Allot NetXplorer requirements. Please see Allot Virtual Machine Support Guidelines (Allot Tech Note 1306) for further information.

About Allot Communications

Allot Communications Ltd. (NASDAQ, TASE: ALLT) empowers service providers to monetize and optimize their networks, enterprises to enhance productivity and consumers to enjoy an always-on digital lifestyle. Allot's advanced DPI-based broadband solutions identify and leverage network intelligence to analyze, protect, improve and enrich mobile, fixed and cloud service delivery and user experience. Allot's unique blend of innovative technology, proven know-how and collaborative approach to industry standards and partnerships enables network operators worldwide to elevate their role in the digital lifestyle ecosystem and to open the door to a wealth of new business opportunities.

sales@allot.com

Americas: 300 TradeCenter, Suite 4680, Woburn, MA 01801 USA Tel: +1 (781) 939-9300 Fax: +1 (781) 939-9393 Toll free: 877-255-6826 • **Europe:** NCI – Les Centres d’Affaires Village d’Entreprises ‘Green Side’, 400 Avenue Roumanille, BP309, 6906 Sophia Antipolis Cedex, France Tel: +33 (0) 4-93-001160, Fax: +33 (0) 4-93-001165 • **Asia Pacific:** 25 Tai Seng Avenue, #03-03, Scorpio East Building, Singapore 534104 Tel: +65 67490213 Fax: +65 68481015 • **Japan:** 4-2-3-301 Kanda Surugadai, Chiyoda-ku, Tokyo 101-0062 Tel: +81 (3) 5297-7668 Fax: +81(3) 5297-7669 • **Middle East and Africa:** 22 Hanagar St., Industrial Zone B, Hod-Hasharon, 4501317, Israel, Tel: +972 (9) 761-9200, Fax: +972 (9) 744-3626

www.allot.com info@allot.com

© 2014 Allot Communications Ltd. All rights reserved. Specifications are subject to change without notice. Allot Communications, Sigma and NetEnforcer and the Allot logo are trademarks of Allot Communications. All other brand or product names are the trademarks of their respective holders.