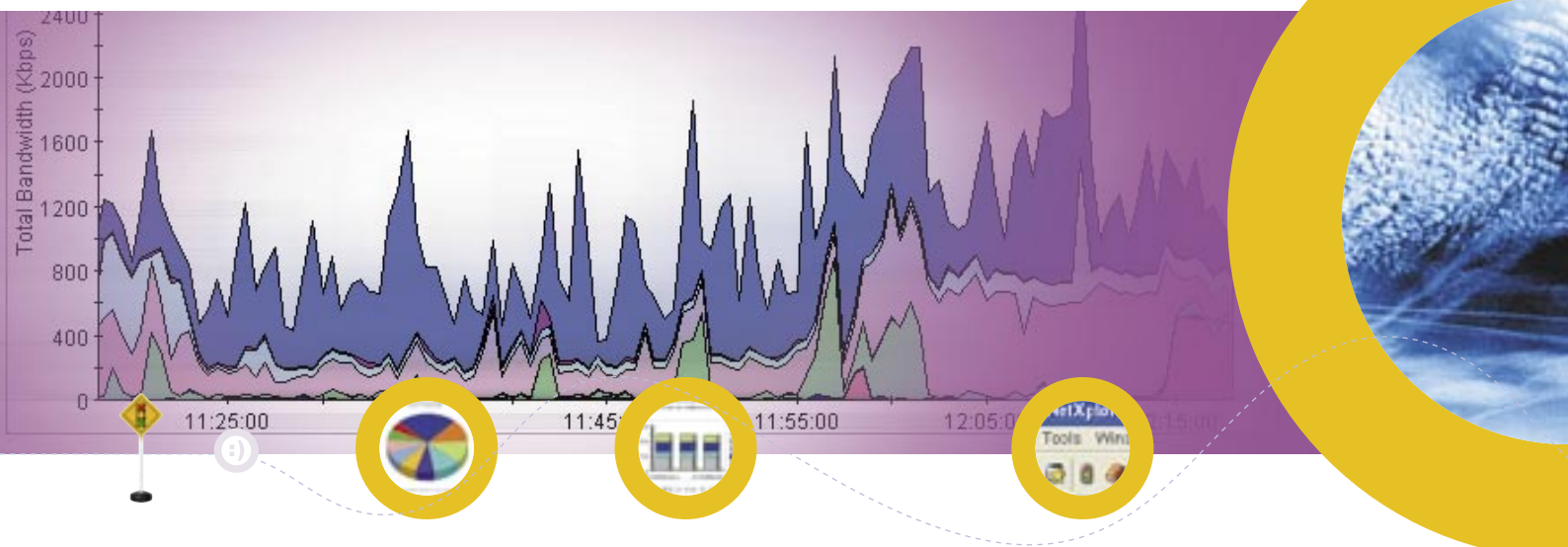# NetXplorer

Centralized, Proactive Management of All Network Traffic

### Using NetXplorer for Complete Visibility and Control

Networks are not just about speeds, feeds and bandwidth capacity. Networks are about providing crucial visibility of network usage, business and user behavior. Working together, Allot's NetXplorer and NetEnforcer devices combine global visibility, active control and deep packet inspection (DPI) technology to achieve a level of network intelligence that ensures optimal network performance, security and management and caters to application, user and subscriber needs.

Linking Between Business Goals and Network Policies

NetXplorer provides the necessary in-depth insight and analysis to understand networks and directly link between business goals and network traffic and behavior. Facilitating the decision-making process and streamlining network efficiency, NetXplorer is a highly scalable system that uses a single, easy-to-use GUI to deliver unsurpassed network analysis suitable for short-term network troubleshooting or for understanding long-term trend and usage patterns. Control capabilities include simultaneous provisioning of policies and configuration, updating and distribution of data to all managed Allot NetEnforcer devices.

For Service Providers, NetXplorer delivers the visibility and tools for application control and subscriber management in broadband networks. This is particularly important in controlling operation costs, reducing subscriber churn, increasing revenues (ARPU) and providing new, differentiated services.

For Enterprises, NetXplorer provides network visibility that extends beyond the infrastructure and enables the linking of business goals to specific network policies, which is particularly important for managers to ensure mission-critical applications and contain network costs.

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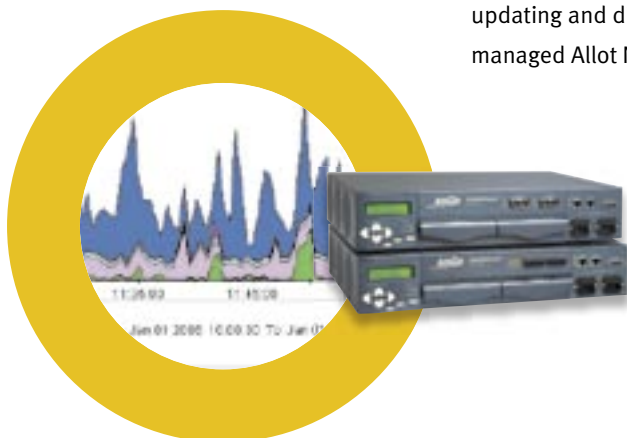
Powerful Network Analysis and Centralized Management for Global Visibility and Control

Global Visibility for In-Depth Analysis

Optimal network-wide visibility using DPI technology, including identification of traffic trends and drilling down to the individual device, user or application level for real-time troubleshooting and complete network visibility of all NetEnforcer devices from a single, intuitive user interface.

Intuitive Interface

Unprecedented control delivered with speed and simplicity through a user-friendly interface which provides both a logical network-wide perspective together with the power to quickly navigate down to the device, user or application level.

Insightful Reporting and Analysis

Analysis of information in real-time and over time for long-term reporting, capacity planning, usage tracking and service package optimization.

Frontline Security

Global traffic monitoring for a variety of suspicious traffic, enabling easy detection of potential DoS/DDoS attacks or network-born security attacks, setting of thresholds to monitor network conditions, generation of alarms, automatic execution of corrective actions, and definition of global rules to block malicious traffic and mitigate its effect.

Rapid ROI

Comprehensive and efficient centralized management that ensures global application and user level control, reduces complexity and on going operating costs and increases network uptime, delivering the power to keep businesses and network operation at peak performance.

Extensive Range of Features

Monitoring and Analysis

- In-depth analysis capabilities, including drill-down to single user sessions and single applications to locate and diagnose network problems and bottlenecks

- Real-time monitoring for a deep understanding of the network, using high-resolution, 30-second monitoring of the previous few minutes

- Short-term monitoring for the collection of highly granular information, with 30-second data representing the last few hours and 5-minute data displaying the last few days

- Storage of network activities in a high resolution data warehouse

> *The ability to logically group different sources of data is one of things we like best about Allot NetXplorer. For example, we can easily build reports to get a complete breakdown of traffic by type of applications on our MPLS network, or to find out how much Instant Messaging our remote offices are using over time. Now, whenever we have a question about specific network behavior, we know we can build a report that will give us the answer.*

Bruno Delphin
IT Network Manager
Veolia Proprete, France

Reporting

- Long-term reporting for evaluation of trends and accurate capacity planning using hourly and daily statistics stored for months or years, and for tracking usage for accounting or charge-back purposes using volume-based reports

- Hundreds of customizable report formats about network traffic, including tracking of utilization and policy statistics, network distribution and activities

- Easy navigation (zoom or scroll) to view all report data, including customization by desired time frames, graph or table format, sorting, filtering and drill-down to view additional data

- Easy report integration with external systems for usage-based charge-back and billing

- Automatic, scheduled report generation, saved or emailed in different file formats

- Rich report output and export formats, including interactive graphical view, JPEG, PNG, HTML, XML and CSV

Building Policies

Centralize all data such as service definitions, protocol definitions and host lists, enabling the rapid deployment of services or service changes and automatic distribution of configurations and changes to all managed NetEnforcer units.

Configuration and Policy Provisioning

Access configuration and policies of managed NetEnforcers without logging into each device, including the copying and use of policies across NetEnforcers.

Intelligent Alarms

Define thresholds on abnormal events which trigger alarms such as SNMP traps and email/SMS messages, and automatically invoke corrective actions before problems become costly.

Open Architecture

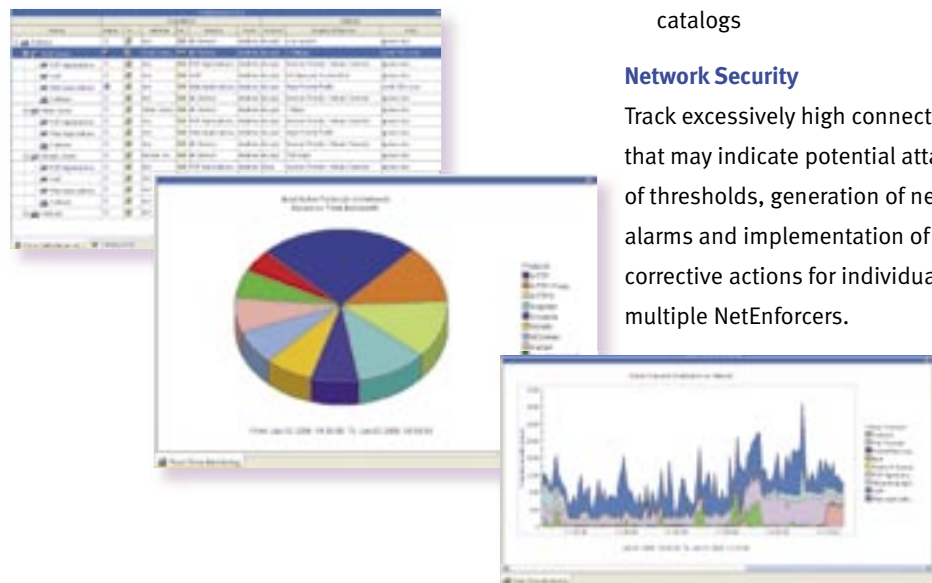Provides three interfaces for easy integration with external systems:

- SNMP: allows sending SNMP traps and statistics
- CLI: allows running scripts for updating policies and catalogs
- Web Services Interface: provides set of functions for updating policies and catalogs

Network Security

Track excessively high connection rates that may indicate potential attacks, setting of thresholds, generation of network alarms and implementation of automatic corrective actions for individual or multiple NetEnforcers.
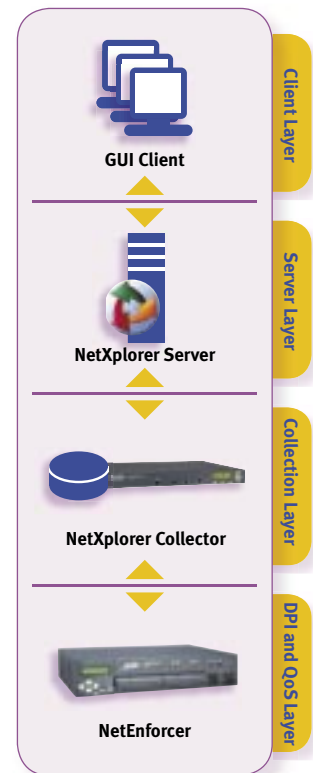
Optimal System Architecture

NetXplorer is based on a highly-scalable architecture which powers the monitoring of all NetEnforcer devices from a single, intuitive user interface. A single installation package for Windows XP and Windows 2003 servers, system architecture consists of four layers:

The Client Layer is the NetXplorer GUI application, comprising different clients that connect to the NetXplorer Server.

The Server Layer incorporates the actual NetXplorer application, including the database. Managing and communicating with the different clients that access the system, it facilitates NetEnforcer configuration, policy provisioning, alarms, monitoring and reporting. The NetXplorer also includes an integrated data collector, which streamlines the required collection of data from the managed NetEnforcer devices.

The Collection Layer is an optional layer used to support large-scale and remotely-located NetEnforcer deployments, storing the real-time traffic information received from the NetEnforcer devices.

The DPI and QoS Layer is performed by Allot NetEnforcer devices which are connected to the NetXplorer server.

GUI Client

Client Layer

NetXplorer Server

Server Layer

NetXplorer Collector

Collection Layer

NetEnforcer

DPI and QoS Layer

Specifications

System Requirements

Minimum Requirements In this configuration (recommended for enterprises), a single NetXplorer Server supports the following number of NetEnforcer devices: 2 AC-800; 5 AC-400	**Recommended Requirements** In this configuration (recommended for large enterprises and ISPs), a single NetXplorer Server supports the following number of NetEnforcer devices: 5 AC-1000 or AC-2500; 10 AC-800; 15 AC-400
Intel Pentium 4 2.8 GHz or higher Intel Chipset Based (925 or 955) 2 GB RAM (Dual Channel) 1x80 GB HDD, 8MB Cache (SATA interface recommended) Windows XP Professional, Service Pack 2 (US English)	Dual Xeon 3.0 GHz or higher 4 GB RAM (Dual Channel) HDD SCSI/SAS 15K RPM RAID Controller with BWCC 256MB Cache Required disk space is 20GB per each AC-1000/AC-2500 and 10GB per each AC-800/AC-400 Write-back cache policy enabled RAID 0 / 0+1 / 10 Recommended Server Brands: IBM, HP, Dell Windows 2003 Server SP1 (any language)

Supported NetEnforcer Devices

AC-402, AC-404, AC-802, AC-804, AC-808, AC-1010, AC-1020, AC-1040, AC-2520, AC-2540

About Allot Communications

Allot Communications (NASDAQ: ALLT) is a leading provider of intelligent IP service optimization solutions. Designed for carriers, service providers and enterprises, Allot solutions apply deep packet inspection (DPI) technology to transform broadband pipes into smart networks. This creates the visibility and control vital to manage applications, services and subscribers, guarantee quality of service (QoS), contain operating costs and maximize revenue. Allot believes in listening to customers and provides them access to its global network of visionaries, innovators and support engineers.

www.allot.com info@allot.com

- **Americas:** 7664 Golden Triangle Drive, Eden Prairie, MN 55344 USA · Tel: (952) 944-3100 · Toll free: (877) 255-6826 · Fax: (952) 944-3555
- **Europe:** NCI – Les Centres d'Affaires Village d'Entreprises 'Green Side', 400 Avenue Roumanille, BP309, 06906 Sophia Antipolis Cedex, France · Tel: 33 (0) 4-93-001167 · Fax: 33 (0) 4-93-001165
- **Asia Pacific:** 6, Ubi Road 1, Wintech Centre 6-12, Singapore 408726 · Tel: 65 6841-3020 Fax: 65 6747-9173
- **Japan:** Puri-zaido Ochanomizu 301, 4-2-3 Kanda Surugadai, Chiyoda-ku, Tokyo 101-0062 · Tel: 81 (3) 5297-7668 · Fax: 81(3) 5297-7669 · www.allot.jp
- **Israel:** 22 Hanagar Street, Industrial Zone B, Hod-Hasharon, 45240, Israel · Tel: 972 (9) 761-9200 · Fax: 972 (9) 744-3626

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