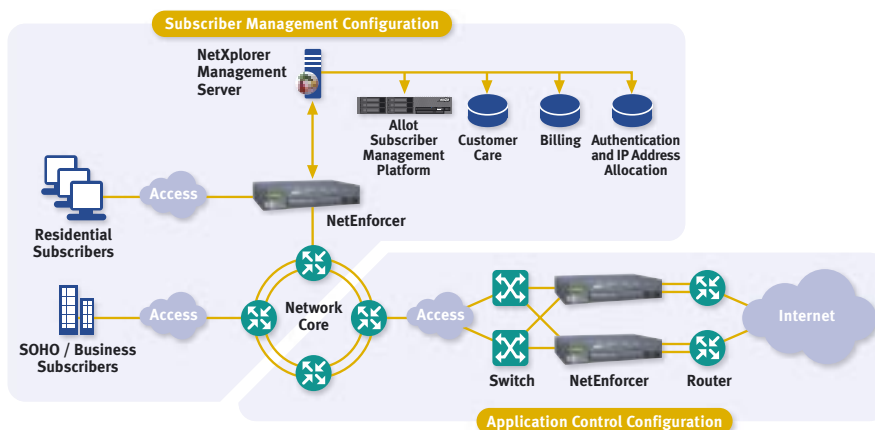# NetEnforcer AC-1000 Series

2 Gbps Bandwidth Management Devices

Allot NetEnforcer AC-1000 series is especially suitable for managing Internet traffic on high-speed Ethernet links of up to 2 Gbps. Using deep packet inspection (DPI) technology with policy based QoS enforcement, they monitor and control network usage, optimize service delivery, and provide an unsurpassed level of visibility.

Main Features

- 2, 4 or 8 ports support various network topologies

- Range of operation speeds - 155, 310, 400, 622 Mbps and 1 Gbps (full duplex)

- Accurate identification of hundreds of applications and protocols out-of-the-box

- Extensive signature library and DPI behavioral recognition capabilities for accurate classification and control of different P2P, VoIP, streaming video, gaming, and other Internet applications

- Managed by Allot NetXplorer management system, providing centralized reporting, provisioning, alerting and policy-based control of broadband services

- Fully integrated with Allot Subscriber Management Platform (SMP) for accurate application control per subscriber

- Redirection of subscribers to captive portal

- Easy upgrade to higher speeds and richer QoS policies using the same platform

- Continuous traffic monitoring for fast troubleshooting, usage tracking and capacity planning

- Proactive, early-warning mechanisms providing administrators with automatic alarms concerning network events and the ability to trigger corrective actions

- Policy-based control of connections protects against denial of service attacks; additional network security solutions provided through integration with Allot ServiceProtector

- Fail-safe performance with external hardware bypass and full redundancy schemes

Subscriber Management Configuration

NetXplorer Management Server

Allot Subscriber Management Platform

Customer Care

Billing

Authentication and IP Address Allocation

Access

NetEnforcer

Residential Subscribers

SOHO / Business Subscribers

Access

Network Core

Access

Switch

NetEnforcer

Router

Internet

Application Control Configuration

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communications

Specifications

The NetEnforcer AC-1000 series is available in three models serving a range of network configurations and needs.

	AC-1010	AC-1020	AC-1040
Capacity			
Number of Connections/Flows	1,000,000 / 2,000,000		
Throughput	2 Gbps (1 Gbps, Full Duplex)		
Pipes/Virtual Channels	10,000 / 80,000	10,000 / 80,000	4,000 / 28,000
No. of Subscribers	100,000		
Interfaces and Connections			
Management Interface	10/100BASE-T		
Network Interfaces (Internal / External)	2 x 1000BASE-T/SX/LX	4 x 1000BASE-T/SX/LX	8 x 10/100BASE-T
Console Port	Serial, RJ-45 Connector		
Deep Packet Inspection (DPI) (Typical Examples)			
P2P Protocols	Including BitTorrent, Gnutella, Ares, eDonkey, Warez, Winny, Kazaa		
VoIP Protocols	Including Skype, H.323, SIP, RTP, Net2Phone		
Gaming Protocols	Including World of Warcraft, QQ Games, LineAge, Yahoo Games		
Instant Messaging/Chat	Including Google Talk, AOL, Yahoo, MSN, QQ, IRC, ICQ		
Web/Streaming Application Protocols	Including YouTube, DivX WebPlayer, SlingBox, Joost, Yahoo Video		
Traffic Encapsulation Protocols	Including L2TP, MPLS, PPPoE		
Product Options			
Monitoring Only	Yes	Yes	Yes
QoS Enforcement Levels	155, 310, 622 Mbps and 1 Gbps (Full Duplex)		400 Mbps (Full Duplex)
Policy Levels (Pipes/VCs)	2,000/8,000 ; 5,000/40,000 ; 10,000/80,000		4,000/28,000
Redundancy	Serial & parallel (1:1)	Serial, parallel & active (1:1, 1+1)	
Management			
NetXplorer Centralized Management	Yes		
NetXplorer Reporter	Yes		
Dimensions			
Size	Standard 2U by 19" rack mount		
Weight	8.3 kg (18.2 lb)		
Bypass Unit	External, 1U, 19" rack mount		
Power			
Input (AC/DC)	100 to 240 VAC ; -48 VDC		
Power Supply Units	2 (Load Sharing)		
Redundancy for PSUs	1 + 1		
Power Consumption	80W, all models		
Heat Dissipation	273 BTU/hour, all models		
Safety and Certifications			
Safety	UL 60950-1/ CSA CS22.2 60950 (ITE) EN 60950-1 ITE		
Emission	EN 55024:1994; A1:2001; A2:2003 Immunity for ITE EN 61000-3-2:2001 Harmonic Emissions EN 61000-3-3:1995; A1:2000 Voltage Fluctuations EN 55022:1998; A1:2000; A2:2003 Emissions for ITE VCCI FCC Part 15, Sub-Part B		

About Allot Communications

Allot Communications (NASDAQ: ALLT) is a leading provider of intelligent IP service optimization solutions for DSL, wireless and mobile broadband carriers, service providers, and enterprises. Allot's rich portfolio of hardware platforms and software applications utilizes deep packet inspection (DPI) technology to transform broadband pipes into smart networks that can rapidly and efficiently deploy value added Internet services. Allot's scalable, carrier-grade solutions provide the visibility, security, application control and subscriber management that are vital to managing Internet service delivery, guaranteeing quality of experience (QoE), containing operating costs, and maximizing revenue in broadband networks.

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