

Policy-Based Networking *solutions*



Quality of service

Environment

The explosive growth of the Internet coupled with bandwidth hungry, timing-sensitive and mission-critical network applications presents a formidable challenge to network managers and service providers who must provide reliable bandwidth and guaranteed service levels to users in an environment of finite resources.

Internet service providers must deliver tailored services to customers based on their individual needs. Tiered service offerings, bandwidth on demand, usage-based billing and service level guarantees are all ingredients that permit service providers to remain competitive.

Corporate networks must support multiple organizations, each with their own requirements for network services and resources. Increasingly, applications such as voice, video, and ERP are competing for bandwidth with low priority FTP and e-mail traffic. Individual business priorities must be defined to ensure minimum software requirements for high priority applications.

These diverse network demands on public and private networks require products and services that can allocate bandwidth, based on centrally defined policies, when and where it is needed to maximize the efficiency of today's complex network environments.

Create Intelligent Policies

Allot Communications' award-winning NetEnforcer allows you to create intelligent global policies that improve network performance and efficiency. A comprehensive, policy-based framework manages and enforces end-to-end network policies in a succinct and organized fashion. These policies translate high-level business decisions into specific network actions including bandwidth management, server control, network monitoring and accounting.

Policy-Based Networking

Defining a relationship between the needs of the network users and available resources is the goal of policy-based networking. The Allot family of products delivers a heterogeneous, policy-driven system for managing network bandwidth, provisioning service level agreements (SLAs), planning network growth and maximizing resource capacity. The product works with your current network infrastructure to deliver complete policy control of your network that results in predictable and reliable network services for your users.

Financial Mission-Critical Traffic



Timing-Sensitive Traffic



Total Quality-of-Service Management

Allot Communications provides an end-to-end, policy-based quality-of-service (QoS) framework that includes standards-based policy enforcement, management, monitoring and accounting. The end result is that you have full control of your entire network infrastructure.

Coordinating End-to-End Policies

The Allot family of products simplifies the complexity of configuring and deploying policies in heterogeneous networks and provides you the means to deliver true end-to-end QoS. Because you use common shared policy definitions, you eliminate duplicate data entry while maintaining carrier grade scalability and reliability.

Working with your existing infrastructure, Allot's products provide you a system for configuration and management of all of your policy-related equipment.



Policy Enforcement included in Allot's NetEnforcer products. Working with Allot's NetPolicy, these devices take policy information and enforce specific network actions including traffic shaping, access control, load balancing, and cache redirection.



Policy and SLA Management. The Allot Communications NetPolicy provides a full system for coordinating application information found, for example, in a corporate directory or ISP customer care database with specific policy enforcement on the network -- whether through Allot NetEnforcer products or third party routers. You can assign policies to users, access groups and organizations and correlate these policies -- independent of location, service, and network equipment.



Monitoring and Accounting. The Allot products collect both monitoring and accounting data and relay information to central policy devices using standard protocols including ODBC, RADIUS, and RMON.

Accounting
& reporting



server Load- Balancing

Designing Network Services to Meet Your Needs

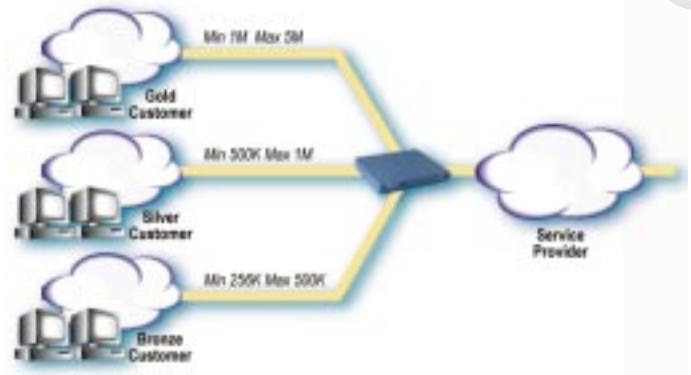
Allot's fully integrated, fault-tolerant hardware and software solutions allow network managers to define policies and allocate network resources according to the specific needs of the organization.

The NetEnforcer can interpret traffic flows and then "signal" a service provider of the priority and resource demands of an application according to the customer's requirements. A customer, therefore, can determine for himself which applications will be high-priority and signal the service provider to deliver the bandwidth and bill accordingly.

Using the NetEnforcer, service providers can provide more advanced services to their customers including the ability to deliver bandwidth on demand. A customer can therefore request of their ISP that they receive and get billed for bandwidth when it is specifically needed. Service providers can also deliver virtual leased line services whereby a customer can communicate with a remote location and be guaranteed a fixed minimum bandwidth and end-to-end priority to that site.

Critical applications, departments or users can be given more bandwidth during peak periods. Different group and departments in the corporation can request services and bandwidth from the network manager who can then use the NetEnforcer to partition the network according to usage demands and corporate priorities.

The NetEnforcer works with your current customer care database or corporate LDAP directory to allow you to centrally manage all of your resources. It supports industry-standard ToS and DiffServ to deliver end-to-end QoS and advanced ISP and corporate services. In summary, the NetEnforcer delivers a complete framework for delivering value-added services that will increase user satisfaction as well as increase service provider revenues.



The Service Provider using the NetEnforcer, has a complete system for providing service level management. You can assign customers specific service level guarantees and then track, monitor, and bill accordingly.



IS Managers can offer customers service level guarantees for specific traffic types and applications such as voice/IP or VPN. Using the NetEnforcer, IS managers can reserve a specific number of channels for voice traffic and a certain minimum bandwidth for a customer's VPN traffic to a given destination.



Network Managers can guarantee mission critical applications, block access to non-business applications, and limit the flow of background or noncritical traffic.

network-wide Service Level Guarantees



Allot Communications was formed to deliver policy-based networking solutions consisting of management applications and appliances. The Allot products allow network managers to define a relationship between organizational needs and network infrastructure in order to achieve maximum efficiency from network and server resources. Allot Communications combines awareness of users with awareness of the state of the network to optimize end-to-end network services. The company combines policy management and enforcement to provide bandwidth management, server load balancing, cache redirection, monitoring and accounting. Allot's family of products installs easily into an existing network infrastructures.

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