The exponential growth in the use of the Internet, combined with increased reliance on IP-based networks (private, public or VPN) for mission-critical and time-sensitive traffic, has resulted in unprecedented demands on existing communication systems. In order to achieve an acceptable quality of service (QoS) and maximize the performance of business-critical applications, network managers need to allocate network resources based on business priorities.

- Optimize your WAN infrastructure
- Maximize business-critical application performance
- Classify Layer-7 Traffic
- Monitor network activity
Allot Communications NetEnforcer® traffic management devices let you link your business policies to specific network actions that improve and control users’ productivity and satisfaction. On corporate networks, the NetEnforcer optimizes your WAN so mission-critical business applications deliver the performance your company needs to succeed.

Policy-Powered Networking

Policy-Powered Networking lets you efficiently manage traffic crossing the LAN/WAN boundary of an enterprise network. The process of implementing a Policy-Powered Networking solution includes three steps:

1. **Monitor network and bandwidth usage**
   Use the NetEnforcer’s NetWizard setup utility to autodiscover applications in your network. Using this information, you can determine which protocols affect your network performance and should be managed.

2. **Define policies that link business priorities to computing needs**
   Use the QoS Policy Form to quickly define QoS attributes for the desired policies. Assign minimum and maximum percentages of bandwidth, and prioritize traffic from 1 to 10. For additional policy definition, use the Policy Editor to define policies based on addresses, protocols, VLAN tags, Type of Service, or time of day.

3. **Enforce the rules**
   Let NetEnforcer examine all traffic crossing the WAN link. Upon matching a traffic session with a rule, NetEnforcer forwards the packets per the specified policy actions. Continuously monitor network resources using NetEnforcer’s Traffic Monitor and refine policies to maintain maximum network control and application performance.

Features and Benefits

**Optimize Your WAN Infrastructure**

On many networks, non-critical applications can deplete bandwidth resources. Rather than continue to add bandwidth, use the NetEnforcer to precisely allocate bandwidth for each application on your network. This can ensure that heavy file transfers will not slow interactive business systems such as ERP or CRM, or that email won’t degrade the performance of delay-sensitive VoIP.

**Maximize Business-Critical Application Performance**

The NetEnforcer allows you to maximize the performance of your business-critical applications by grouping and defining policies that allocate bandwidth. Create a “Pipe” to allocate WAN resources for each remote office and then create “Virtual Channels” to allocate bandwidth for applications. For example, you could guarantee 200 Kbps for Oracle or 32 Kbps for each VoIP call.

**Classify Layer-7 Traffic**

The NetEnforcer identifies and classifies up to the application layer (Layer 7). This lets you distinguish between multiple applications using the same protocol. For example, you could differentiate between Citrix published applications, prioritizing traffic for the Oracle ERP system over Web browsing, or limiting ICA print traffic to 10% of bandwidth. In addition, NetEnforcer Web Update ensures that you can identify and control new protocols before they take over your network.
Monitor Network Activity

The Java-based NetEnforcer Traffic Monitor presents more than 100 real-time and long-term views of traffic and performance from a single, easy-to-read GUI. The Long-Term Traffic Monitor offers both scrolling and drill-down capabilities that let you investigate problematic network behavior and compare it to historical data at a 30-second resolution. Monitoring-only models offer a non-intrusive, low-cost solution that can be upgraded to actively manage traffic with QoS.

Implement Application- and IP-Based Accounting

The NetAccountant software add-on for the NetEnforcer collects traffic data per session, including source address, destination address, application type and policy. Use your own application or the NetAccountant Reporter to create tabular and graphical reports for capacity planning and resource management.

Intuitive Java-based GUIs

The NetEnforcer has intuitive Java-based GUIs for policy editing and creation, device configuration, and traffic monitoring. Special emphasis has been placed on ease-of-use and customization so you can easily work with the data most important for maximizing the performance of your business-critical applications.

Receive Alerts for Major Networking Events

NetEnforcer’s alerts enable you to take corrective action before problems become costly. Define custom thresholds that trigger alerts and select the response, whether SNMP traps, email messages or SMS messages.

DDoS Protection

The NetEnforcer detects known types of DDoS attacks and lets you monitor, record, and block malicious traffic as well as receive alerts about imminent attacks. A dedicated management port enables out-of-band management, even during a DDoS attack.

LDAP Directory and Backend Support

The NetEnforcer interfaces to standard LDAP-based directories or text files. This enables corporations to integrate their network policies with their existing corporate user directory so that policies may be defined per department, group or application.

Complete Fault Tolerance

The NetEnforcer offers 100% uptime with a two-tier approach to fault-tolerant operation:
1. If any software or hardware component fails, a hardware bypass will transparently pass all traffic through the box.
2. Two NetEnforcers can be placed in parallel, with one unit acting as the active system and the other as a hot-backup system.

End-to-End QoS Delivery and MPLS Support

To achieve end-to-end QoS, NetEnforcer uses industry-standard Type of Service (ToS) and Differentiated Services (DiffServ) protocols. Based on its classification results, the NetEnforcer can mark the outgoing packets with DiffServ values such as “Assured” or “Best Effort” to signal the entire network of the desired QoS. You can also use the NetEnforcer as an edge device in MPLS networks for enhanced traffic classification and advanced monitoring and accounting.

Traffic Redirection Control (Optional)

The CacheEnforcer® and the NetBalancer® software add-ons enhance your network’s performance by controlling traffic flows. The CacheEnforcer reduces WAN consumption and simplifies administration of multiple cache servers. The NetBalancer goes beyond traditional load balancing equipment by allowing you to define single policies that control both the prioritization of applications and their distribution to servers.
### Product Specifications

#### Interface Connections
- **AC-202/402/F:**
  - Three 100BASE-TX half duplex active Ethernet interfaces, including one management interface, all with RJ-45 connectors.
  - **AC-802/C:**
    - Two 1000BASE-SX fiber interfaces with LC and SC connectors and one 1000BASE-LR interface with one RJ-45 connector.

#### Traffic Classification (Per Flow)
- **PPPoE address (or username, or password, or user name):**
- Network protocols, IP protocols and applications:
  - HTTP (URL, content type, method, host), ICN (published application, user name), Oracle (database name, user name), and SMTP (IP address).
  - ATR (under normal circumstances) internal and external accounting of traffic on a per session for all sessions export data in CSV format.
- **AC-802:**
  - Dual 800W hot-swappable power supplies.

#### Fail-Safe Performance
- **Hardware bypass:**
- **Protocol distribution:**
- **Multi-protocol:**
- **Monitoring, Alerts and Accounting**
  - **AC-601/802:**
    - Dual 200W hot-swappable power supplies.

#### Monitoring, Alerts and Accounting
- **AC-202/402:**
  - Dual 12.1 lbs. (5.50 Kg)
  - AC-601/802:
    - Dual 2U 19-inch rack mountable.

#### Network Security
- **AC-601/802:**
  - Dual 800W hot-swappable power supplies.
- **AC-601:**
  - Dual 12.1 lbs. (5.50 Kg)

#### Environmental Standards Compliance & Certification
- **AC-202/402/802:**
  - Dual 12.1 lbs. (5.50 Kg)
  - AC-601/802:
    - Dual 2U 19-inch rack mountable.

### Ordering Information

<table>
<thead>
<tr>
<th>Part No./Model</th>
<th>Bandwidth</th>
<th>Pipes</th>
<th>Policies</th>
<th>Connections</th>
</tr>
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<tbody>
<tr>
<td>KAC-202/50-MOC (On-Net)</td>
<td>10 Mbps</td>
<td>128</td>
<td>1024</td>
<td>24,000</td>
</tr>
<tr>
<td>KAC-202/128-DK</td>
<td>128 Kbps</td>
<td>128</td>
<td>1024</td>
<td>6,000</td>
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<td>KAC-202/512-DK</td>
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<td>KAC-202/10-MP-DK</td>
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<tr>
<td>KAC-402/50-MC (On-Net)</td>
<td>100 Mbps</td>
<td>512</td>
<td>2048</td>
<td>76,000</td>
</tr>
<tr>
<td>KAC-402/10-MP-DK</td>
<td>10 Mbps</td>
<td>512</td>
<td>4096</td>
<td>64,000</td>
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<tr>
<td>KAC-402/45-MC-DK</td>
<td>45 Mbps</td>
<td>1024</td>
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<td>310 Mbps</td>
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</tbody>
</table>

### Notes:
1. When ordering KAC-202 please specify PS: (Note 2b) - hard disk or TS, Flash Memory.
2. When ordering KAC-402 please specify PS: (Note 2b) - hard disk or TS, Flash Memory.
3. When ordering KAC-802 please specify PS: (Note 2b) - hard disk or TS, Flash Memory.
4. When ordering KAC-202 please specify PS: (Note 2b) - hard disk or TS, Flash Memory.
5. For example KAC-402/45-MC.

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**Allot Communications**

**The Traffic Management Company**