Distributed denial of service attacks (DDoS) are designed to saturate network equipment and server resources (firewalls, load balancers, etc.) in order to make a site or service unstable or unavailable to legitimate traffic.

Growing increasingly prevalent in scale and sophistication, these attacks have a real cost to companies in terms of lost revenue, financial blackmail, service interruption, and reputational damage.

**Protection against DDoS**

ALOHA PacketShield offers a simple, efficient, and cost effective response to DDoS attacks:

- Patented solution guaranteeing zero false positives.
- Wire-speed packet analysis in front of firewalls, load balancers and web servers.
- Real-time filtering and blocking of unwanted traffic, while maintaining access for legitimate traffic.
- Traffic recognition via customizable access lists.

**Types of protection**

- Protocol verification: automatic blocking of malformed packets.
- Protection against SYN flood attacks.
- ACK/RST flood attack prevention, with stateful packet inspection.
- Protection against ACK attacks from NAT equipment itself under attack.
- Prevention of DNS amplification attacks using valid response recognitions.

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**The first defence against network DDoS attacks, PacketShield can be:**

- Deployed as a router or load balancer (L4 or L7).
- Combined with HAPROXY ALOHA hardware appliances for enhanced network and application security.

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<table>
<thead>
<tr>
<th></th>
<th>PacketShield 3350</th>
<th>PacketShield 5350</th>
<th>PacketShield 5350 - 40G</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bandwidth</strong></td>
<td>1Gbps</td>
<td>1Gbps</td>
<td>26Gbps</td>
</tr>
<tr>
<td><strong>Max Number of Connections</strong></td>
<td>Unlimited</td>
<td>Unlimited</td>
<td></td>
</tr>
<tr>
<td><strong>Packets Processed / Sec.</strong></td>
<td>1,000,000</td>
<td>1,000,000</td>
<td>38,000,000</td>
</tr>
<tr>
<td><strong>Deployment Mode</strong></td>
<td>Inline router, inline L4 load balancer, inline L7 load balancer</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>High Availability</strong></td>
<td>Active / Passive or Active / Active</td>
<td></td>
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</tbody>
</table>

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