

NetSpark Web Filtering System – Enterprise Edition

Ensuring appropriate content for family-safe Internet use



Dynamic Internet Guard – EN1

Dynamic Internet Guard for the Enterprise is NetSpark’s entry-level product and uses proprietary technology to ensure appropriate content for family-safe Internet use. A field-proven solution servicing tens of thousands of households, it offers end-users maximum freedom to take advantage of the benefits of the Internet, while safeguarding them from content they deem inappropriate.



Features

- Network-level filtering of pornographic text, graphics images and video
- Field-tested accuracy of 99.5% for text and 95% for graphics and video
- Real-time inspection of dynamic pages suitable for the Web 2.0 environment such as wikis, blogs, search engines and news sites
- Patented Quilting™ process dynamically rebuilds pages, removing inappropriate material while leaving the rest of the page’s “look and feel” intact for a seamless user experience
- Blocks or manages a wide range of protocols and applications including: HTTP, HTTPS, P2P, Yahoo! Messenger, AOL Instant Messenger, Windows Live Messenger, ICQ, Skype and more
- Provides a solution to applications attempting to bypass TCP/IP proxies, such as Tor and UltraSurf
- Enables authentication and accounting through existing security infrastructures including Windows Authentication (WI), LDAP, RADIUS, certificates

User Customization

- Self-configurable at the end-user level
- Protection Levels: Default or Strict Mode
- Quilting: feature turns on and off in real-time
- Website Exceptions: customizable personal whitelists and blacklists of URLs or IP addresses

- Allow or block applications on the protocol level such as FTP, P2P, etc.
- Time Constraints: define windows of time to allow/disallow surfing or set level
- Logs and History: track surfing habits through graphs and tables
- Personal Alerts: receive hourly, daily and weekly notifications about unusual or suspicious use of the Internet

Transparent Operation

- Ensures anonymity of Dynamic Internet Guard presence to both source and destination IP addresses
- Preserves subscriber ratings in P2P networks

Administration Tools

Real-time status, monitoring and reports

- Register for push notifications from NetSpark
- SNMP v3
- Generate graphs depicting traffic and end user trends

Management interfaces

- SSH: Command-line interface to Linux shell
- HTTPS: Web based management console
- API: Web Services, XML-RPC, SOAP, RADIUS

Security

- Prevent new/unknown spyware and malware downloads from millions of high-risk sites, yet allow users to see data on page
- Block the most widely used malware and spyware installation techniques, regardless of URL, via policies that prevent vulnerability

Up-To-Date Database

- Updated in real-time
- Human inspection: stores any information received from ISPs or their subscribers
- Automatic feedback : through cookies and other detection software while surfing

High Performance and Availability

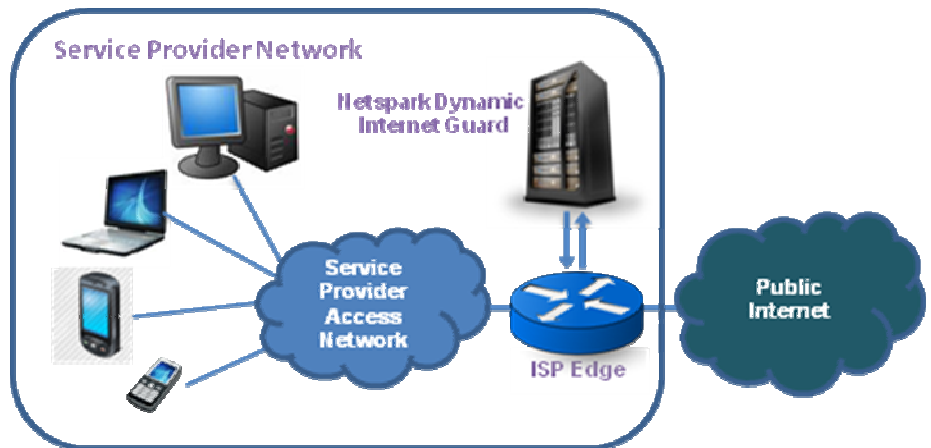
- Clustering software for fail-over
- IEEE 802.3ad link aggregation, for maximum bandwidth and redundancy
- Hitless in-service software upgrades
- Uptime: 99.99%
- Latency: < 1 ms

Model	EN-1
Dimensions	2x1U
Weight	35 kg
Chipset	Intel
Processor	E5420 2.5 GHz
Disk	Raid 5
AC Power	110-220
Operating Temperature	5°C – 35°C
Heat	1792 BTU/Hr
Throughput	300Mb
Humidity	<90%
Altitude	10,000 ft

- Can be configured to reduce bandwidth usage up to an average of 30-50% without causing any noticeable degradation to the user experience.
- Conserve more bandwidth by integrating content filtering with bandwidth shaping and throttling policy, both per user and per content

Network Interfaces

- Copper
- 1 GigE

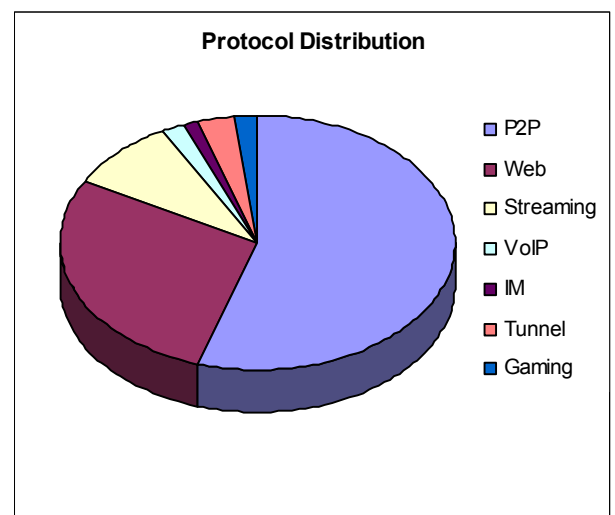
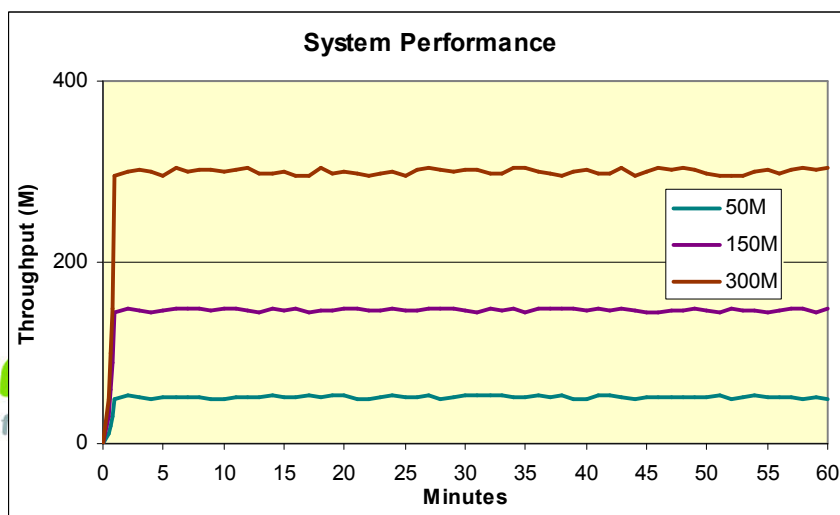


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The NetSpark system is situated at the edge of the ISP or Enterprise network. The proxy server filters all packets in and out of the ISP on the Internet facing leg. Database, maintenance, and control systems are queried by the proxy.

Throughput characteristics are shown above for a typical distribution of Internet protocols for loads of up to 300M. No appreciable delay or degradation is observed.



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