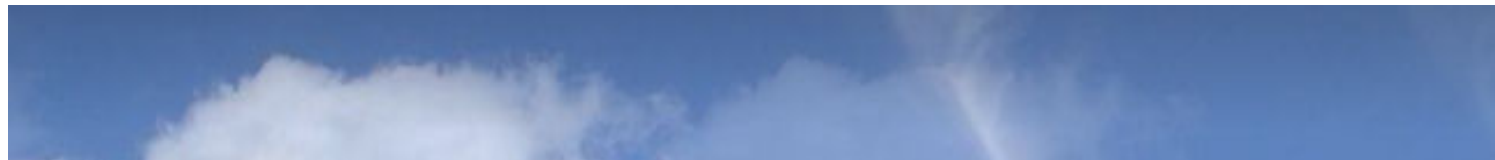


# NetSpark Web Filtering System – Carrier Grade Edition

Ensuring appropriate content for family-safe Internet use



## Dynamic Internet Guard – C Series

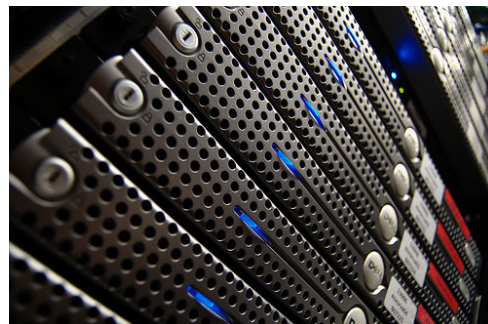
*Dynamic Internet Guard for Internet Service Providers is NetSpark's carrier grade product and uses proprietary technology to ensure appropriate content for family-safe Internet use. A field-proven solution servicing tens of thousands of households, it offers end-users maximum freedom to take advantage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

### Features

- ISP-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
- Extensive API for integration with existing CRM and RADIUS

### User Customization

- Self-configurable at the end-user level
- Preset Protection Levels or each property individually configured
- Turn on or off the Quilting feature 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/restrict surfing
- 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 review of information received from ISPs or their subscribers
- Automatic feedback through cookies and other detection software while surfing

### Network Interfaces

- Fiber
- Copper
- 1 GigE
- 10 GigE

## High Performance and Availability

### Carrier Grade Reliability

- No Single Point of Failure
- Clustering software for fail-over
- IEEE 802.3ad link aggregation, for maximum bandwidth and redundancy
- Hitless in-service software upgrades
- Uptime: 99.975%
- Latency: < 1 ms

Model	Dimensions	Throughput
C-2	20U	2 Gigabit
C-8	40U	8 Gigabit
C-40	160U	40 Gigabit

Certified By:



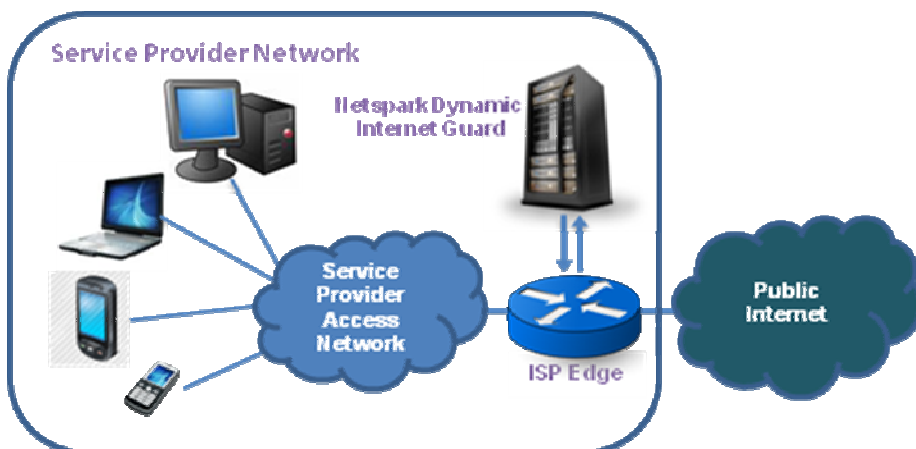
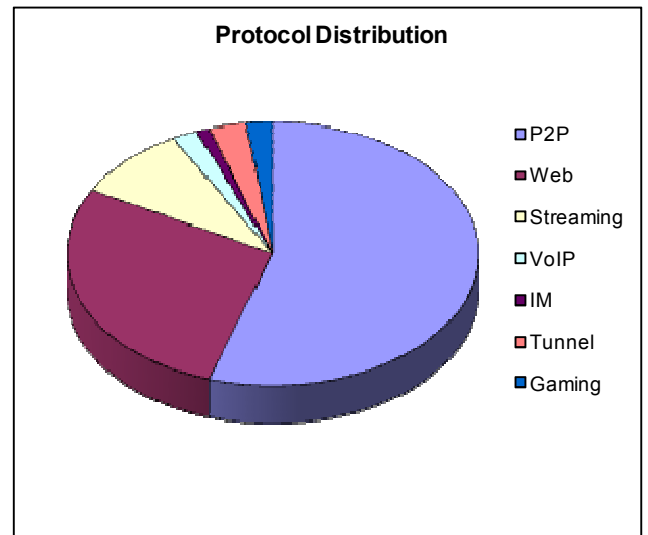
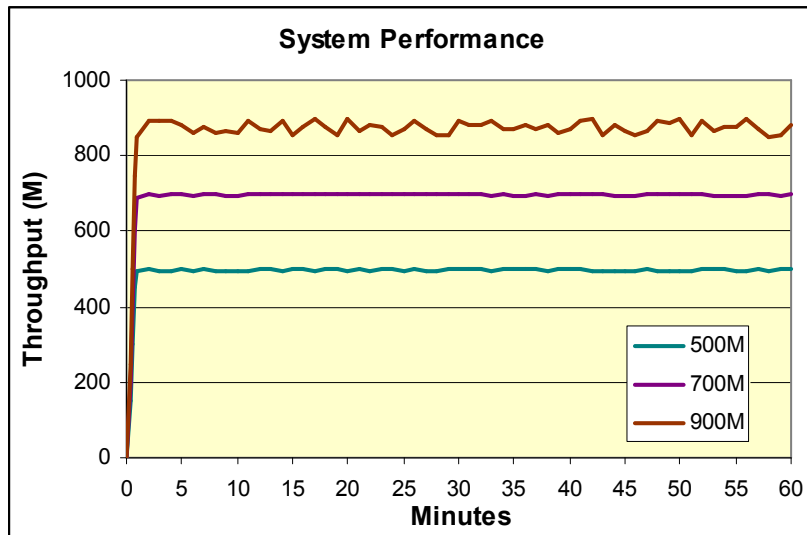
### Increase Efficiency

- Reduce bandwidth usage by an average 30-50%.
- Conserve more bandwidth by integrating content filtering with bandwidth shaping and throttling policy, both per user and per content

### Scalability

- Processing up to 40 Gigabits, Dynamic Internet Guard is the only system available for handling such levels of traffic.

All Models	
Chipset	Intel
Processor	E5420 2.5 GHz
Disk	Raid 5
AC Power	110-220
Operating Temperature	5°C – 35°C
Heat	1792 BTU/Hr
Humidity	<90%
Altitude	10,000 ft



The NetSpark system is situated at the edge of the ISP's 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

[www.net-spark.com](http://www.net-spark.com)

**NetSpark**  
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