



*“Governments are cracking down on illegal content on web sites. BSNL, India’s largest telco, selected Netsweeper as the technology to meet Federal content regulations.”*

## The Need...

Governments and law enforcement agencies around the world are working to remove the availability of illegal web site content. Though hosting content which exploits children or promotes hatred may be illegal; complying with such laws can be a difficult task. Internet Service Providers (ISPs) face many challenges when working to comply with government regulations and the laws of their respective countries.

### **In the Core Network Enforcement**

Compliance must be maintained at all times regarding the availability of illegal content regardless of the date and time it was posted.

### **Centralized Administration**

To manage and monitor compliance, centralized access to the system must be easy to use and flexible to administer.

### **Accuracy**

Accidentally over blocking legal content must be minimized.

### **Performance**

Ensuring the end customer does not experience service degradation without compromising compliance to regulations

### **Cost**

The complying solution must be cost effective to deploy and manage and integrate easily within the existing infrastructure.

BSNL (Bharat Sanchar Nigam Ltd.), India’s largest telco, faced all these considerations. However, BSNL operates in 890 cities with over 5 million subscribers and four international gateways. Performance impact was a major consideration.

## The Solution...

BSNL chose to deploy Netsweeper *nsEnterprise* out of the box on a Sun Solaris platform. The implementation involved the support of legacy network components, installing new network architecture and a sophisticated user authentication system. The implementation was coordinated amongst hardware and service vendors.

BSNL uses the Netsweeper Enterprise Filter as the interceptor, with all the network traffic (8 Gb per second, with a planned increase to 40 Gb per second by the end of 2008) going through the filter.

Each of the 4 POPs has five Sun V890 servers load balancing the Gateway Filter and Policy Servers and a Logging and Reporting Server. This configuration can handle 100,000 filter requests per second, introducing no more than 10 ms of delay per request.





## About Netsweeper Inc.

Netsweeper Inc. empowers organizations to guard against Internet abuse and to offer their end users a secure, productive Internet experience, protected from harmful, malicious and inappropriate content. Netsweeper provides intelligent, network and workstation based web filtering technology to corporations, Internet service providers, educational institutions, government organizations and OEM partners worldwide.

### True ROI:

Netsweeper provides ISPs with the filtering solutions that allow them to offer value added services to their subscribers. With Netsweeper, ISPs can reduce churn rates and generate new sources of revenue.

### Immense Flexibility:

The Netsweeper Filtering solution allows for multiple deployment scenarios and is flexible to accommodate the needs of ISP environments. From global filtering of the entire ISP network to downloadable client versions that allow for multiple parent-child accounts on subscriber computers, Netsweeper provides ISPs with the options to meet their needs.

### Unparalleled Speed and Accuracy:

Netsweeper Filtering utilizes advanced A1 systems that actively scan the internet and categorize pages on the fly as internet users' request them. The Filtering has been optimized for speed and boasts over 94% categorization accuracy rate.

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## The Outcome...

BSNL has completed the initial configuration and deployment of the system components. Acceptance tests have passed with efforts dedicated to fine-tuning and rolling out the entire system which is now scheduled to be fully live by the end of 2008.

By implementing *nsEnterprise*, BSNL is adhering to all regulations put forth while delivering successful solutions to the imposing challenges identified. With the success of this initial project, discussions have already begun to expand the system and to enable a number of additional built-in functions initially not included in the solution.

BSNL has found the Netsweeper solution to be feature rich and scalable to provide the necessary features to the subscriber base.

## BSNL, the client...

Bharat Sanchar Nigam Ltd. was formed in October, 2000 and is the world's 7th largest telecommunications company providing a comprehensive range of telecom services in India including: Wireline, CDMA mobile, GSM Mobile, Internet, Broadband, Carrier service, MPLS-VPN, VSAT, VoIP services, IN Services etc. Within a span of five years it has become one of the largest public sector units in India.

