

JUNIPER NETWORKS FIREWALL/VPN WITH INTEGRATED WEB FILTERING

Control Internet Access to Prevent Legal Liability, Mitigate Exposure to Threats, and Enhance Business Productivity

Challenge

Businesses face risks from trusted employees who, either inadvertently or intentionally, browse inappropriate content over the Internet.

Solution

Affordable Web filtering technology via the industry-leading SurfControl OEM URL Database, coupled with Juniper Networks firewall/VPN devices, effectively eases the challenge of managing Internet usage in the workplace.

Benefits

- Easy to use
- Flexible filtering based on content classification into 40 categories
- Enhanced employee productivity and limited legal liability by blocking access to non-business related Internet content
- Preserved bandwidth by restricting access to traffic-intensive sites such as those hosting streaming media
- Mitigated exposure to phishing and malware (viruses, worms, spyware, adware) typically present in inappropriate websites

While today the Internet is undoubtedly a critical business tool, it also brings with it many distractions and threats. Enabling employees to work safely and productively has become a key requirement of many organizations, and controlling Web access is a key part of this strategy.

The Challenge

All Internet content can potentially carry inherent risks. Employee access to the Internet continues to introduce new dangers and content that can negatively impact an enterprise in four fundamental ways:

- *Legal Threats:* Inappropriate content can lead to gender, minority or religious harassment and discrimination. Downloading and distribution of copyrighted or illegal material over the corporate network can cause legal liability issues as well.
- *Productivity Threats:* The temptations of non-work related Web destinations are endless. Just 20 minutes of recreational surfing a day can cost a company with 500 employees over \$40,000 per week (at \$50/hour/employee).
- *Bandwidth Threats:* An employee can crash a network just by accessing an inappropriate website. Recreational surfing and activities such as downloading MP3 files or watching streaming videos can divert valuable bandwidth from critical business needs.
- *Malware Threats:* Inappropriate websites such as gaming, adult, and shopping may contain malware such as viruses, worms, spyware, adware, and key loggers that could infiltrate and bring down a network, expose employees to spam and phishing attacks, and steal valuable employee and business data.

The Juniper Networks Web Filtering Solution

The combination of industry-leading Web filtering from Websense and the Juniper Networks® firewall/VPN devices are an ideal solution for enterprises of all sizes to enforce Internet usage based on corporate policies. Enterprises can restrict Web access to questionable content and non-business websites and reduce legal liability, improve employee productivity, prevent unnecessary bandwidth consumption, and mitigate malware threats.

The Juniper Networks integrated Web filtering solution consists of:

1. Industry-leading SurfControl CPA URL category database hosted by Websense that contains over 26 million websites classified into 40 easy-to-manage categories.
2. Robust Web filtering policy management by Juniper Networks firewall/VPN devices that provide an organization with very flexible control over setting and enforcing Web usage policy. Policies can be based on URL or type of content, and can include pre-defined (provided by the Websense database) or customized (customer-configured) URL listings.

Integrated Web filtering is offered on Juniper Networks SSG Series Secure Services Gateways, which include Juniper Networks SSG5, SSG20, and SSG140 Secure Services Gateways, Juniper Networks SSG300, and SSG500 lines. The SSG Series has low total cost of ownership (TCO), provides a high level of network protection, and can be easily deployed and centrally managed. Juniper Networks integrated Web filtering is an ideal solution for enterprises and service providers seeking a low-cost, hosted/in-the-cloud Web filtering service.

When an employee tries to access a website, the SSG Series relays the URL request to a SurfControl CPA Server. The server looks for the URL in its URL category database and if found, responds to the SSG Series with the category that the URL is associated with. The SSG Series will either allow or deny access to the website, based on the configured Web filtering policy. Juniper Networks requires customers to purchase 1-, 2- or 3-year subscription licenses in order to receive the Surfcontrol OEM Database Service. Licensed customers will be provided with an up-to-date SurfControl OEM Database for the duration of their license.

The Juniper Networks integrated Web filtering solution allows organizations to implement flexible Web access policies in addition to using all the firewall/VPN features of the Juniper Networks SSG Series Secure Services Gateways.

Features and Benefits

Table 1: Solution Components Features and Benefits

KEY FEATURES	BENEFITS
In-the-cloud hosted Web filtering service	Scalable solution for distributed enterprise deployments
Accurate content categorization	Effective Web filtering that enhances employee productivity, prevents potential legal liability issues, and mitigates
Flexible Web filtering	Allows an SSG Series administrator to design a Web filtering policy that suits his/her organization's needs

Solution Components

To use the Juniper Networks integrated Web filtering solution, one requires the following components:

- Juniper Networks firewall/VPN security appliance
- Web filtering license

Here's how the integrated Web filtering solution works.

- User requests URL
- Juniper Networks appliance forwards URL to hosted categorization service
- Juniper Networks appliance receives response indicating URL category
- Juniper Networks appliance makes policy-based decision to allow or block URL

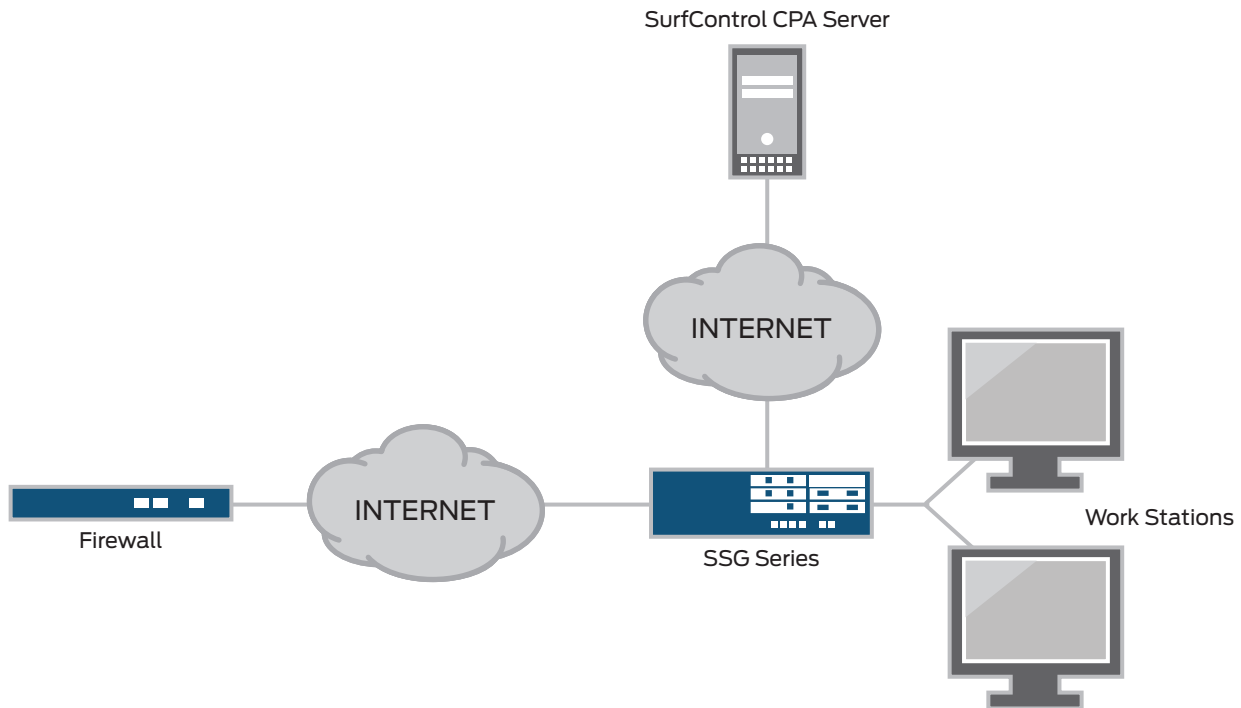


Figure 1: Components of Juniper Networks integrated Web filtering solution

Below is a sample of the list of categories in the Juniper Networks integrated Web filtering solution.

URL Categories (Sample)

- Adult Material
 - Adult/Sexually Explicit
 - Glamour and Intimate Apparel
 - Sex Education
- Advertisements
- Business
 - Finance and Investment
- Criminal or Questionable
 - Criminal Skills
- Drugs
 - Drugs, Alcohol and Tobacco
- Education
 - Arts and Entertainment
 - Education
 - Reference
 - Kid's Sites
- Gambling
- Games
- Government
 - Government and Politics
- Hate
 - Hate
 - Violence/Offensive
- Health
 - Health and Medicine
- Hobbies and Recreation
 - Hobbies and Recreation
 - Food and Drink
 - Sports
 - Travel

- Information Technology
 - Computing and Internet
 - Search Engines
 - Remote Proxies
 - Hosting Sites
 - Hacking
- Internet Communication
 - Web-based Email
 - Chat
 - Usenet News/Forums
 - Streaming Media
 - Photo Searches
- Job Search
 - Job Search and Career Development
- News
- Religion
- Shopping
 - Shopping
 - Real Estate
- Society and Lifestyles
 - Lifestyle and Culture
 - Personals and Dating
- Vehicles
 - Motor Vehicles

Summary—Maintain the Business Benefits of the Internet Without Concern

Juniper Networks enables enterprises today to effectively control Internet usage across their distributed networks via the integrated Web filtering solution. The industry-leading SurfControl OEM URL Database, coupled with Juniper Networks firewall/VPN devices, effectively eases the challenge and mitigates the risks associated with managing Internet usage in the workplace.

Next Steps

For more information on Juniper Networks firewall/VPN with integrated Web filtering solution, please contact your local Juniper Networks sales representative or channel partner.

About Juniper Networks

Juniper Networks, Inc. is the leader in high-performance networking. Juniper offers a high-performance network infrastructure that creates a responsive and trusted environment for accelerating the deployment of services and applications over a single network. This fuels high-performance businesses. Additional information can be found at www.juniper.net.

About SurfControl, now owned by Websense

The SurfControl OEM URL database, now owned by Websense, provides URL filtering-based coverage for Web content, Acceptable Use, and Web-borne threats that stem from Web, e-mail, Instant Messaging and Peer-to-Peer file-sharing. The result is powerful coverage and protection against today's emerging Internet-borne risks provided by the SurfControl OEM URL database of over 25 million entries covering over 3.9 billion pages across up to 54 categories. This database is maintained and updated once a day with approximately 250,000 list changes.

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