

*Blocking unwanted Web content from the network  
to help reduce risk*



## IBM Proventia Web Filter technology

---

### Highlights

---

- ***Enhances productivity by blocking distracting, unwanted or illegal Web content***
- ***Enforces policies and helps meet legal standards by limiting access to certain content***
- ***Improves network usage by freeing bandwidth normally used for unproductive Web activity***
- ***Helps prevent threats by stopping downloads that might contain malicious content***

### **Enforcing Internet usage policy and blocking Internet threats**

Inappropriate Web usage by employees results in significant productivity losses and increased IT and legal risk. IBM Proventia® Web Filter technology helps enforce Internet usage policies by blocking unwanted Web content. As a result, organizations can potentially improve productivity and reduce exposure to legal and online risks.

Online auctions, chat rooms, music downloads, games and more can distract your employees, use valuable network bandwidth and introduce Internet threats to the IT environment. Proventia Web Filter technology provides comprehensive control over employee Internet access and is designed to enable organizations to improve productivity, enhance security, free up bandwidth and limit outside security threats.

### **Flexible settings and granular filtering ability make Proventia Web Filter technology a powerful solution**

The automated categorization of Proventia Web Filter technology analyzes online text, images and links to provide granular filtering ability, helping to ensure that only content that puts the organization at risk will be blocked. Valuable Web content remains accessible.






The Proventia Web Filter management interface was designed for ease of use and to make it simple to define Web usage policies. Flexible settings enable organizations to customize and define who can access what, at what times and what content will be blocked or allowed. These settings are adaptable to individuals, specific groups or across the entire organization.

Proventia Web Filter technology also includes the following features for advanced content filtering:

- *WebLearn*—creates an optional feedback loop within Proventia Web Filter technology that triggers automatic Web content analysis when a user visits a previously unknown URL
- *PassLock*—enables organizations to override a block on a Web page that is typically prohibited for a specific user or specific users during a defined time period
- *Media-type filter*—immediately recognizes URLs containing image and video files that can take up valuable network bandwidth

**Backed by a comprehensive filter database**

Proventia Web Filter technology relies on a large and up-to-date Web filter database that includes more than 87 million (as of September 2007) analyzed URLs and more than 7 billion analyzed Web pages and images. Each day, 1,200 Web crawlers search the Internet to perform analysis on new or updated content. After text, images and links are analyzed, they are classified into one of 62

	<b>WHO</b>	WHO objects define the users or user groups to which particular access rules apply (for example, everyone).
	<b>WHAT</b>	WHAT objects define which types of Web pages may be accessed and which are blocked (for example, auction Web pages).
	<b>WHEN</b>	WHEN objects define when the rules are enforced (for example, 8:00 a.m. – 8:00 p.m.).
	<b>ACTION</b>	ACTION objects determine whether access to the requested page is blocked or permitted (for example, block).
	<b>RULE</b>	Customized rules used in tandem with intelligent content analysis enforce your Internet usage policies (for example, everyone + auctions + 8:00 a.m. – 8:00 p.m. + block = Allow no one to access online auction sites from 8:00 a.m. – 8:00 p.m.).

categories to enable granular filtering. For example, detailed analysis provided by Proventia Web Filter technology can distinguish between medical content and pornography and between historical content and hate sites. Also, all filter categories are available to your organization upon installation of Proventia Web Filter technology. There is no extra charge for so-called “premium” categories.

**Platforms and interfaces supported by Proventia Web Filter technology**

Proventia Web Filter technology supports the following operating systems:

- *Microsoft® Windows® 2000, Windows XP, Windows 2003*
- *Red Hat Linux® 7.3, 8.0, 9.0 (kernel 2.4)*
- *SUSE Linux 7.3, 8.1, 8.2, 9.0 (kernel 2.4)*

Crawling the Web	Analyzing Web content	Processing the data
<ul style="list-style-type: none"> <li>• 1,200 automated crawlers search the Web.</li> <li>• 100,000 new and updated pages are added daily.</li> <li>• More than 7 billion pages and images are currently cataloged.</li> </ul>	<ul style="list-style-type: none"> <li>• Web content is classified into 62 categories, including: <ul style="list-style-type: none"> <li>– Gambling</li> <li>– Illegal activities</li> <li>– Online shopping</li> <li>– Pornography.</li> </ul> </li> <li>• The technology analyzes both text and images.</li> <li>• The technology is able to distinguish between acceptable and unacceptable content.</li> </ul>	<ul style="list-style-type: none"> <li>• 1,000 server farms support the database.</li> <li>• Up to 150,000 million Web pages and images are processed monthly.</li> <li>• 100,000 new or updated entries are classified in the database each day.</li> </ul>

Proventia Web Filter technology offers proxy integration with the following servers:

- *Integrated HTTP proxy (non-caching <100 users)*
- *Plug-in for Microsoft ISA Server 2004/2006*
- *ICAP for Blue Coat SG, NetCache or patched Squid*
- *Redirector program for Squid*

Proventia Web Filter technology supports authentication for the following:

- *IP address/IP address ranges*
- *Microsoft Windows NT® domains and Windows NT workgroups*
- *Microsoft Active Directory users and groups*

- *Lightweight Directory Access Protocol (LDAP) (Active Directory, Novell eDirectory, etc.)*

- *Access Control List (ACL) (Squid)*

Proventia Web Filter technology offers proxy integration with Windows NT LAN Manager authentication support for the following:

- *Microsoft ISA Server 2000/2004/2006*
- *Blue Coat SG*
- *NetCache*

Proventia Web Filter technology offers proxy integration with basic authentication support for the following:

- *Integrated proxy (standalone), Squid*

#### **For more information**

For more information about IBM Proventia Web Filter technology, contact your IBM representative or IBM Business Partner, or visit:

[ibm.com/services/iss](http://ibm.com/services/iss)



© Copyright IBM Corporation 2007

IBM Global Services  
Route 100  
Somers, NY 10589  
U.S.A.

Produced in the United States of America  
10-07  
All Rights Reserved

IBM, the IBM logo and Proventia are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries, or both.

Microsoft, Windows and Windows NT are trademarks of Microsoft Corporation in the United States, other countries, or both.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

Other company, product and service names may be trademarks or service marks of others.

References in this publication to IBM products or services do not imply that IBM intends to make them available in all countries in which IBM operates.