ContentKeeper
Web Content Appliance with *Closed-Loop Collaborative Filtering*™

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CONTENTKEEPER TECHNOLOGIES

Web Filtering in Ontario School Boards

In our **November 2006 School Board Update**, we told you about many of the more applicable ContentKeeper features that will deliver greater protection against unauthorized Internet access and Web browsing in the school environment (see over).

The following recently delivered ContentKeeper-Web features are designed to provide even greater network security when Internet sessions are *initiated through irregular and unauthorized avoidance techniques*.

Being who they are, it is clear that there are many ways for IT-savvy students to **bypass network security** to access the Internet. ContentKeeper will continue to address these challenges and we are pleased inform you of our most recent advances. We know that:

- New techniques used to try to bypass filtering systems, such as **Proxy sites, TLS/SSL Tunneling**, and **Scripting** methods continue to emerge
- New protocols such as **Skype and music/video sites** can be the source of massive bandwidth usage
- **Search Engines** are used to discover inappropriate content not yet on blocking lists

Protection from all of these threats is now available to users of ContentKeeper Web Filtering (CKWeb) and its superior Ethernet-bridge appliance design.

CONTENTKEEPER Web Filtering
Proven in Ontario School Boards...

"ContentKeeper proved to be a very configurable system delivering the best flexibility but still maintaining the due care that Education demands. With great support we were able to build the best appliance configuration on a totally owned platform and still provide the best Gig. throughput available. The thumbnail blocking within Google is a bonus and the Active Directory capability also a plus."
Eugene A. Grant CISSP, CEH, CCSA, CCSE, Security Technical Analyst, IT Services, Waterloo Region District School Board

CONTENTKEEPER Features

- Globally-client-meshed URL discovery, classification, and verification - **Collaborative Filtering™**
- Automated **HOURLY URL** updates; full local controls
- Individual Filtering Profiles to fit Grades/Departments
- High-performance, total **Security**, zero-latency platform
- Minimal Administration - Pre-loaded Appliance
- Administrative Delegation with **Audit Trail**
- Automated Reporting and Delivery
- **Teacher Override** Controls
- **Live Monitoring** & Alerts
- Enhanced Options

The most recent CKWeb release includes numerous extensions to our standard filtering features. These features are easily selected in the CKWeb Blocking Policy process that is accessed via our standard, browser-based Administrator interface….*Just select and click and the enhanced protection is in place.*

With previously delivered **Keyword Blocking** for Search Engine sites, **Custom URLs** with wildcards, **Protocol Blocking**, and the *"Force Google Strict SafeSearch"* options, CKWeb provides the ability to manage student browsing activity to a greater extent than ever, to keep inappropriate web content out of Ontario schools.

- Direct <u>All</u> Internet searches to **Google's** *"Strict SafeSearch"* option.
- CKWeb **Keyword Blocking** allows you to define banned keywords in search engine submit strings.
- Proxy Sites are classified by CKWeb, or may be identified by clients via Custom URL or Custom Categories selections. ContentKeeper's patented **Collaborative Filtering** process identifies new proxy sites and blocks them immediately. ContentKeeper's worldwide collection process delivers all new sites found elsewhere to your database **on an hourly basis**.
- ContentKeeper's **Protocol Blocking** section now protects you from more than 80+ protocols - new protocols are added as they are discovered. ContentKeeper's superior **Transparent Ethernet Bridge** design is well-equipped to monitor and manage these threats.

Modules for Enhanced Functionality
The following **ContentKeeper Modules** provide additional security and additional *management oversight* of the above avoidance techniques:

- **CK-Monitor** provides *real-time monitoring* of student activity by automatically scanning log files for your pre-set thresholds and alarm conditions
- **CK-ARM** (Advanced Reporting Module) provides fully-featured, template-driven, *automated reporting* for any volume of student activity - with automated delivery to designated management desktops
- **CK-Guardian** - keyword-driven live screen-capture technology to identify **cyber-bullying**, hate mail, threats, etc.
- **CK-AntiVirus** - integrated high-performance Anti-Virus solution using world renowned **F-Secure**™ technologies

Replace Google Thumb Images	Yes
Force Google Strict Filtering (SafeSearch)	Yes
Replace Image Components	No
HTTP Header Error Code for Block Pages	403 Forbidden
Block JavaScript URLs with HTML or JavaScript	JavaScript
Coach Block Page Frequency for all Sites	60 Seconds
Coach Block Page for SSL Sites	Simple
Apply Special Category Classfication	Yes

Save and Redisplay   Close Window

Note In ContentKeeper, an Image is a URL ending with one of the following file type suffixes: (.jpg, .jpeg, .gif, .bmp, .png)

Google Thumb Images
For Google Thumb Images, if the Image is NOT in the Allow or the Non-Managed state but classified as Adult Content it will be replaced with the first image, while those classified in all other Categories will be replaced with the second image.

Force Google into Strict Filtering
Google's **SafeSearch** blocks web pages containing explicit sexual content from appearing in search results.
See Google's Safe Search facility for more information.
ContentKeeper can force Google to operate in **Strict Filtering** (mode 1)

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ContentKeeper continues to be the leading provider of blocking technology for emerging methods which attempt to defeat Internet filtering systems. Special features include: search-engine keyword blocking; Google thumb image replacement and "Force Google Strict SafeSearch"; User-defined Protocol blocking; blocking of HTTP Post/Get and SSL tunneling; and P2P Protocol blocking for 80+ Protocols.

CKWeb features for School Boards:

These ContentKeeper features, either individually or together, may be useful to School Boards where Web browsing is allowed within guidelines, but where some controls may be required to identify exceptions, or allow Board oversight and intervention in some cases. The flexible ContentKeeper interface provides these tools to be selected and implemented by each Board to meet individual requirements as required.

Filtering Profiles to fit Grades and Departments

Define filtering profiles by Grade or Department to reflect each Board's guidelines and individual needs for protection. Allow trusted student groups a degree of self-monitoring of their Web activity.

Teacher Override Options

Authorized teachers may unblock specific Web sites for legitimate classroom work, including excessive download file sizes, material normally unrelated to schoolwork or material that is otherwise inappropriate. Overrides can be applied to an individual student or an entire class, for specific class durations or for specific workstations (e.g., in a lab), and can be configured in advance or as required in the classroom.

Administration Delegation with Audit Trail

Enable authorized department or school personnel to allow exceptions to filtering profiles but at the same time provide the Board administrator with an audit trail of the delegated actions.

Monitoring Facility with Automated Alert Delivery

"ContentKeeper Monitor" provides immediate observation and notification of user activity that is contrary to established Board guidelines, including the ability to send automated notification to designated staff, and provides full flexibility for limit setting such as bandwidth quantity & time thresholds.

Student Log-on Authentication

Authentication of individual users may aid in the investigation of inappropriate Web use in extreme situations where guidelines have been exceeded for downloads, excessive browsing or access to inappropriate sites.

Search-Engine Images

ContentKeeper blocks all identified search-engine thumbnail images, ideal for Web access by junior grades.

Performance

ContentKeeper's dedicated, secure, high-performance Web Filtering platform is fully-scalable and proven in organizations with Gigabit networks.

Price

ContentKeeper has established a very competitive price, available to all Boards that implement the ContentKeeper Web Filtering solution. For information on pricing and a no-charge trial, please contact ContentKeeper - Education Sales.

For information on other proven ContentKeeper Web Filtering features available to School Boards, such as information security, Collaborative Filtering, Keyword Blocking, P2P Blocking, Gigabit networks, alerts and reporting capability, please contact us.

Contact

For sales, trial installation or additional information contact:

APL Borealis Inc. - Canada-wide distributor for ContentKeeper Technologies Inc.

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