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

Overview

APL Borealis Inc. is pleased to be the Canada-wide distributor of **ContentKeeper**, enterprise technology from Australia-based filtering product innovation leaders, *ContentKeeper Technologies*.

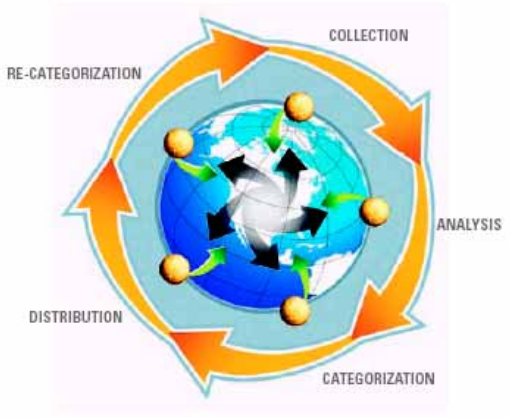
ContentKeeper is a fourth generation adaptive web filtering appliance for enterprise environments.

ContentKeeper uses a global control list containing millions of URLs as well as a leading artificial intelligence, adaptive learning real time engine to deliver an award-wining but cost-effective filtering solution.

ContentKeeper provides a scaleable, fault tolerant solution, which fully satisfies all the technical and commercial requirements demanded by large-scale enterprise environments. ContentKeeper currently provides the world's best content management tool for numerous government and industry clients of any size.

ContentKeeper is based upon technology that uses the best features of Control List Blocking, enhanced by Dynamic Analysis and Filtering Controls. ContentKeeper monitors, manages and controls all web traffic and fully examines new and/or unknown sites in real time as the data passes through the appliance. Guided by flexible and adaptive policy-based content rules, ContentKeeper manages and controls downloads and desktop access to web content.

ContentKeeper's **Closed Loop Collaborative Filtering Technology**™ provides automatic worldwide collaborative site discovery, analysis, classification and re-classification with **HOURLY** control list updates, twenty four hours a, day seven days a week. Currently ContentKeeper orchestrates in excess of approximately 1,500,000 users worldwide to help find, analyze, classify and re-classify new Internet sites automatically.



The remainder of this document discusses the key features of ContentKeeper, including:

- Filtering Methodology / Filtering Policies
- Custom URL Blocking / File Blocking
- Administration Features / Automated Features
- Log Files and Reporting / Advanced Reporting Module
- Enterprise Environments / Compatibility
- Appliance Specifications

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ContentKeeper Filtering

The most critically important feature of any Internet filtering requirement, is to ensure the exclusion lists are current and of high quality. ContentKeeper has the world's most advanced and sophisticated method for maintaining and ensuring currency and accuracy of its control list – called **"Closed Loop Collaborative Filtering Technology™"**.

Collaborative Filtering means that all ContentKeeper Appliances maintain contact with a centralized Datacentre, and each appliance Control List is automatically updated on an **hourly** basis twenty-four hours a day, seven days a week via ContentKeeper's encoded, encrypted and compressed **TrickleFeed™ Technology** update mechanism.

CONTENTKEEPER'S CLOSED LOOP COLLABORATIVE FILTERING METHODOLOGY IS INHERENTLY SUPERIOR TO ANY OTHER METHOD USED BY ANY FILTERING MANUFACTURER IN THE WORLD TODAY

1. Collection - Each ContentKeeper appliance has both a Control List containing millions of URLS as well as a real time AI engine. The real time engine allows ContentKeeper appliances to discover, analyze, and categorize new or previously unseen sites in real time. If a new inappropriate site is discovered, ContentKeeper will automatically block that site locally within 60 seconds. Each hour, the ContentKeeper appliance will call into the Datacentre to download all URLs recently discovered by other ContentKeeper appliances around the world. During that process any new sites discovered locally are automatically and anonymously uploaded to the Datacentre for further in-depth analysis and verification. If verified, these new URLs are added to the Global Control List and made available for collection by every ContentKeeper appliance in the world within the next hourly cycle.

2. Quality - The same **Collaborative Filtering** technology is use to insure the **quality** of the Global Control List. As ContentKeeper administrators discover any sites that may have been mis-classified, they simply re-classify the site locally. The local change is activated instantly and the URL is added to a re-classification request list to be transmitted anonymously to the Datacentre for manual re-classification. After re-classification the change is added to the Global Control List and transmitted to every ContentKeeper appliance globally during the next hourly update cycle.

Closed Loop Collaborative Filtering is completely automated, transparent and seamless, so that users and administrators won't even be aware of the activity. All ContentKeeper sites benefit locally within hours of new sites being discovered around the world.

Arguably, this is the key to successful filtering, and a feature which has been independently proven to provide the fastest and most accurate filtering available in the world.

In further explanation – most filtering companies rely on web crawling technology and manual searches to identify URLs and then on the manual methods of categorization. These techniques worked well in the past, however today, using these methods, most new sites will not be found and it can be seen by a simple analysis of Internet site growth that thousands of staff would be required to cope with even a one-day load of new Internet sites. Even the world's largest filtering company cannot employ anywhere near enough staff to find and process these sites using traditional methodologies in any sort of timely fashion.

Thousands of new non-business Internet sites are being created around the clock at an ever increasing rate. Hyperlinks to these new sites are now delivered to employees via Spam on a continuous basis. To combat this "real time" menace, ContentKeeper automatically updates its local Control List on a real time basis, by receiving HOURLY TrickleFeed™ updates from the Datacentre. Any filtering system that updates nightly, weekly or monthly will be totally ineffective against the URL hyperlinks which are arriving continuously via email within an organization.

ContentKeeper Filtering Policies

ContentKeeper allows you to create and manage up to 100 different filtering policies based on users, groups of users, IP addresses, Networks and ranges of IP addresses, Internet site categories, individual sites, groups of sites, individual web sites, pages and objects (including images) on individual sites, time of day, file types etc. It allows control of groupings of sites, users and network addresses down to the individual elements that make up a web site, an individual user or IP address (static and dynamic). Up to 3,200 policy/category combinations can be created.

ContentKeeper has both a local and a global control list. The local control list overrides the global control list and is under the complete control of the local administrator. All changes are implemented in real time and without system disruption. Complex policies can be developed and tested/verified off-line and then implemented with certainty.

ContentKeeper supports multiple **wild-card** site, file and object specification. Specific sites can be included, allowing (for example) all Government sites in Canada, regardless of content, as easily as entering <*.gov.ca>. Wild-cards can also be used effectively for control over file downloads, including video and audio streams.

ContentKeeper also allows for Default and Global Policy definitions. Global Policy applies to all users, Default Policy applies to all users and IP addresses not covered by any other policy. Custom ContentKeeper Policy creation rules include:

- Allow
- Block (with customized blocking screens if desired)
- Coach (warning screen)
- Authenticate (user/password required)
- Block discard (block but log activity separately)
- Time of day controls with a combination of controls available for multiple periods
- Full and extensible file-type control settings
- PSU (Personal Surfing Units - ie. time limits)
- Custom URL settings (with multiple wild-cards) - create URL lists
- Silent mode controls (allow traffic but monitor activity)
- Expiry Date - optional expiry for implementing temporary policies
- URL Argument Keyword Matching - block search engine results based on keywords or pattern-matching of URLs

In addition, ContentKeeper offers a powerful **Policy Verification facility**, which allows the administrator to develop and test the outcome of filtering policies applied to individual users or groups, for test URLs - off-line and as the policy is being developed and tested.

ContentKeeper Categories with Time of Day (TOD) Blocking

Index	Name	State		Index	Name	State	
1	Pornography/Sex	Block	Settings	17	www-Email Sites	Allow	Settings
2	News	Allow	Settings	18	Violence/Undesirable	Block	Settings
3	Job Search	Allow	Settings	19	Malicious	Block	Settings
4	Gambling	Coach	Settings	20	Search Sites	Allow	Settings
5	Travel/Tourism	Allow	Settings	21	Health Sites	Allow	Settings
6	Shopping	Allow	Settings	22	Clubs and Societies	Allow	Settings
7	Entertainment	Allow	Settings	23	Music Downloads	Block	Settings

Category Blocking

ContentKeeper categorizes URLs into more than 30 non-business control categories. Categorization of any new URLs encountered by the ContentKeeper appliance takes place at two levels. First, the local appliance performs a rapid analysis on new URLs to determine if they fall into any existing ContentKeeper non-business category. If so, and if a ContentKeeper policy is defined to block that category for any users, subsequent users who attempt to access that URL will be blocked within 60 seconds.

Secondly, new URLs deemed to be in any non-business category are transferred automatically and anonymously on an hourly basis to the ContentKeeper Datacentre for further in-depth analysis and verification using powerful servers and AI techniques. If verified, these URLs are added to the Global Control List and made available for collection by every ContentKeeper appliance in the world within the next hourly cycle.

File Type Blocking

ContentKeeper has detailed and group-based policy control over all file type downloads and protocols, including DLLs, TIFF, JIFF, JPEG, MPEG, etc.

ContentKeeper been inherently designed for maximum flexibility. Controls over new file types can easily be added by the administrator.

In addition, ContentKeeper allows for the use of single and multiple **wild-cards** to identify and control file type downloads, for refinements down to particular files for particular users, IP addresses, networks or ranges of IP addresses on a policy by policy basis.

Instant Messenger / Peer-to-Peer Protocol Blocking

ContentKeeper continues to develop monitoring and blocking controls for specific peer-to-peer networking protocols, which can be added to specific policies and applied to specific user groups. Currently supported protocols include MSN-Messenger, AOL Instant Messenger, and KAZAA and about twenty others.

Custom URL Lists

To provide complete flexibility, ContentKeeper allows local administrators to create custom lists of URLs, including links to images, to which blocking rules and policies are applied. As described above, wild-card syntax means that any level of general to specific URL definition is possible.

Time Of Day Controls / Personal Surfing Units / URL Argument Keywords

ContentKeeper Policies can be applied with reference to Time of Day settings. The T.O.D. Blocking State allows an administrator to specify which hours of the day a particular blocking type will be processed by a particular blocking state.

Personal Surfing Units allow an administrator to control access to Internet content types based on cumulative time usage. This means that ContentKeeper can be configured to allow an individual or group access to a specified content type or types for a nominated period of browsing activity.

Any Internet content that matches a Category, File-Type or Custom URL that is set to T.O.D. or P.S.U. settings may be processed with the Allow, Coach, Authenticate, Block or Block-Discard blocking states.

With URL Argument Keyword settings, administrators are able to enter sets of keywords or URL segments that will be matched against the search terms entered into any search engine dialogue box and block when a match is found - preventing even thumbnail search-result images from view.

ContentKeeper Administration

The administration user interface is a point and click web browser based GUI interface supporting local and remote access through any industry standard browser including Microsft IE5.0+ and AOL. Sessions can utilize SSL or SSH for secure remote access. Access is fully protected by encrypted passwords and can be configured to utilize one time password control if desired (eg. RSA).

The main ContentKeeper Administration screen forms the basis of the interface, and presents an intuitive point and click menu to the user. Subsequent screens present input forms and selection mechanisms as needed to the user.

The Administration interface has been designed to be as intuitive as possible for users, and comes equipped with extensive help facilities and explanatory text where required.

The user administrative interface is fully documented and illustrated in the *ContentKeeper Enterprise Administration Guide*.

Master/Slave Multiple-Appliance Administration

In situations where multiple ContentKeeper appliances are deployed (eg. for redundancy, load-balancing or where multiple Internet access points exist) - this facility provides an easy, single-point administration capability. Simply designate one master appliance, and multiple slave appliances, and any configuration changes to the master appliance are automatically propagated. Note that ContentKeeper licence/pricing is based on number of users protected, not appliances.

Multiple Administration Accounts

The Administration Accounts feature offers role-based access control for multiple administration staff. Each administrator can be configured with individual access to a subset of all system components and functionality.

ContentKeeper in Enterprise Networks

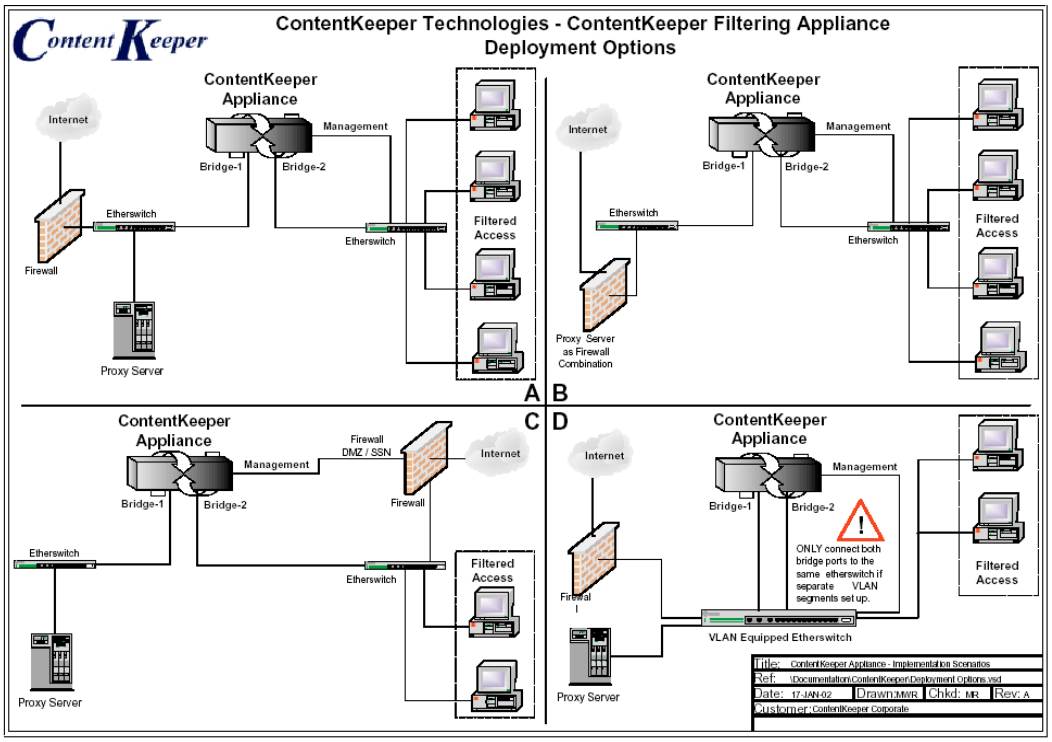
ContentKeeper is completely compatible with any network configuration. ContentKeeper runs well in environments utilizing Microsoft ISA server, Windows 2000 Servers, Active Directory and WindowsXP desktops.

ContentKeeper is capable of being deployed in any IP based network environment, across a range of technology platforms including Microsoft Windows 2000, NT40,Win98, Win95, DOS, Windows XP, Citrix Metaframe (all versions), Unix, Linux, Mainframes, AS400s, VAX, Novell or any IP capable platform.

ContentKeeper can utilize NetBIOS, DNS,TCP/IP, NTLM or Basic proxy authentication for user name resolution, reporting and policy enforcement. It supports NT40, Active Directory, Novell eDirectory and LDAP directory services.

ContentKeeper has been designed as a Transparent Ethernet Bridge – enabling simple installation even within complex enterprise environments. It is completely transparent to and compatible with other network devices. The ContentKeeper Appliance 'sits' across the network and 'watches' the information going past – intercepting URL requests or calls when it identifies that a user should not have access to that particular site.

ContentKeeper runs as a dedicated standalone system. The transparent Ethernet bridge design (ie. no IP addresses on the two bridge ports) totally removes any incompatibility issues (with proxy servers, firewalls, routers etc.) and makes the unit virtually hack-proof. This also allows for a very simple and quick installation, no IP address re-configurations, no desktop install or re-configurations, no loading software on an existing production system, with all the incompatibility and reliability problems that may bring. It also removes the filtering load off proxy servers and firewalls allowing them to get on with their real jobs in a faster and more efficient fashion. This usually results in faster Internet access.



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ContentKeeper Logs and Reporting

ContentKeeper retains comprehensive logs of all user activity – blocked, coached and successful. All log files can be easily displayed simply by browsing to the ContentKeeper appliance and clicking on a hyperlink (ie. in HTML format) or via files downloaded in Apache file format or as ASCII coma delimited text. Download may be set up for transfer directly into Microsoft Excel, or import into Webtrends, WebSpy, Seagate Crystal reports and other enterprise reporting packages etc. Log file downloads can also be automated by using FTP or SSH.

ContentKeeper has both real time and historical reporting capabilities.

ContentKeeper's real time reporting allows administrators to see what is happening on their network in real time. Usage is reported by individual users, hits, sites and bandwidth utilized, time, date, category, policy, sites and components blocked etc. Non-Business related surfing can be instantly identified and dealt with allowing administrators to further "tune" and enforce the local acceptable Internet use policies. Administrators can instantly identify who and what may be causing Internet performance issues and take corrective action. Blocking reports are sorted by simply clicking the desired sort columns.

ContentKeeper's web based, point and click Webalizer historical graphical reports, combined with its real time reporting capabilities allow senior management to satisfy most of all their reporting needs without any time spent configuring or learning complex reporting tools. Information is instantly available to any authorized user who can effectively navigate a web site.

As part of the ContentKeeper solution, users are provided with a comprehensive set of reporting tools that have auditing potential. From the native reports provided, the administrator can view all user activity and report to management by group or individual. If required, the logs can be downloaded in different formats, to compliment reporting tools already in use in typical environments.

Log File Offloader

For enterprise environments where automated log file management and reporting capability are needed, ContentKeeper now offers several advanced features to accommodate these requirements. The Log File Offloader facility is a mechanism which allows the ContentKeeper administrator to automatically transfer daily log files of filtering data from the ContentKeeper appliance to any target destination on the network. Typically, log files would be sent daily for processing by another network computer and reporting facility, such as the ContentKeeper ARM - Advance Reporting Module.

The log file off-loader can be set to run based on any schedule as desired. The Administrator can set the amount of time to retain log files, and the system automatically calculates the periods available for selection based on available disk space and the average size of logs being generated. Full statistics are available on the file storage and status of all log files generated by ContentKeeper.

Silent-Mode Savings Report

This report provides a convenient method for organizations evaluating ContentKeeper as well as new ContentKeeper clients to estimate savings directly resulting from the use of ContentKeeper in terms of costs associated with both browsing time and data download/upload charges. The *Silent Mode Savings Report* is based on data gathered by ContentKeeper while operating in *Silent Mode*. Savings calculations are based on the cost of staff browsing time and data download/upload charges, which are configured by the administrator.

Advanced Reporting

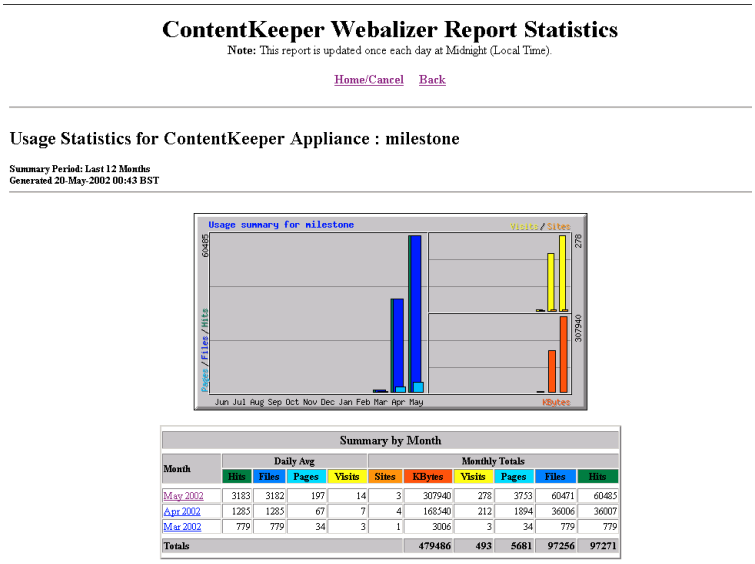
ContentKeeper offers two reporting facilities: ContentKeeper Appliance reports and "**ContentKeeper ARM Platinum" - Advanced Reporting Module**. Both reporting systems can be used to manually initiate reports.

ContentKeeper Appliance reports include several real-time report facilities:

- Dynamic Activity Viewer
- Current Username Activity
- Current Internet Activity
- Current Blocking Activity

The following historical reports and log files are available within ContentKeeper:

- Webalizer Reports
- Internet Activity
- Blocked Activity
- Discarded Blocked Activity
- Coach Click-Thru Activity
- Authentication Click-Thru Activity



ContentKeeper Webalizer Report Statistics

Note: This report is updated once each day at Midnight (Local Time).

Home/Cancel Back

Usage Statistics for ContentKeeper Appliance : milestone

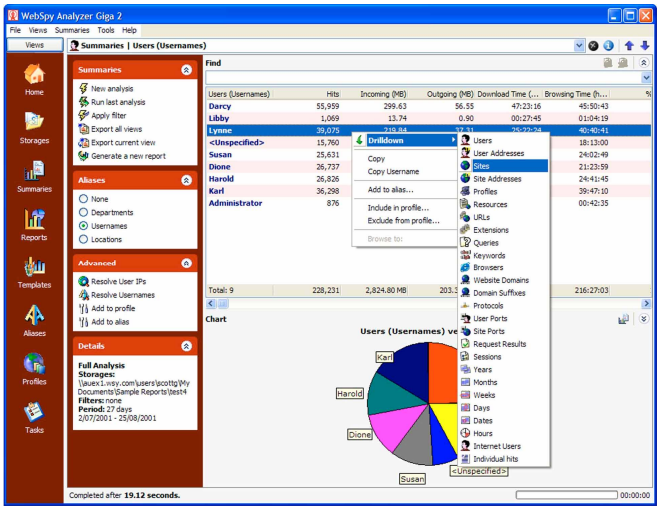
Summary Period: Last 12 Months
Generated 20-May-2002 00:43 BST

Summary by Month

Month	Daily Avg				Monthly Totals					
	Hits	Files	Pages	Visits	Sites	KBytes	Visits	Pages	Files	Hits
May 2002	3183	3182	197	14	3	307940	278	3753	60471	60485
Apr 2002	1285	1285	67	7	4	168540	212	1894	36006	36007
Mar 2002	779	779	34	3	1	3006	3	34	779	779
Totals						**479486**	**493**	**5681**	**97256**	**97271**

Webalizer reports contain graphical and statistical data, including bar charts and tables of Hits on web sites, files downloaded, web pages downloaded, web pages requested, Kilobytes downloaded and most frequently visited URLs. Data is available for up to the last twelve months, and give an overview of Internet activity for a selected time period.

ContentKeeper ARM - **Advanced Reporting Module** has been designed to efficiently load and analyze gigabytes of data to a single workstation, providing an enterprise-scale monitoring solution and offering a completely automated reporting function for small and large organizations.



ContentKeeper ARM is a sophisticated report generation facility which can generate reports in three formats: Web Document (HTML), Microsoft Word (DOC) and Microsoft Excel (CSV). The ARM facility can automatically deliver these reports via email to business unit managers. It enables in-depth interrogation of ContentKeeper log file data, and includes task scheduling for "set and forget" data analysis.

The ARM system offers a complete and comprehensive Report Wizard facility, for creating detailed reports, Report Templates, and a Task Wizard and Schedule Wizard, to guide the administrator through the process of scheduling automated reporting tasks.

Other Features

Capacity

Existing enterprise and Australian Federal Government sites have user loads similar to or in excess of most customer requirements (eg. Australian Dept. of Defense 80,000 users, Australian Tax Office 22,000 users, Victoria State Education 15,000 users, BHP Melbourne 8000, UTS, DEWR 6,000 etc.). ContentKeeper has been designed to allow for large enterprise, ISP and carrier environments with user base capabilities stretching into the millions. The product can be configured to support any number of users, and it is infinitely scaleable via load-balancing configurations.

Blockpage Customisation

ContentKeeper provides the flexibility to use either an internally generated “Block” page, or a custom, user-defined page. Custom Block pages can be served from either the ContentKeeper appliance or any client site intranet server. The custom block page can contain any graphic, streaming video or whatever is desired.

Cut and paste web page variables and code are made available so that user, site, category and policy information can be displayed on the custom block page. Examples in HTML, JAVA and ColdFusion are provided. A **Category Alias** naming facility is provided to allow category names on block pages to be displayed in customized form (eg. in another language).

Configuring customized block pages is as simple as selecting from a Menu –> General Settings -> “Blockpage Customisation” and entering the IP address for your customized page to be served from the appliance or intranet server.

Tuning, Scaling

Because ContentKeeper, unlike other solutions, employs both a real time analysis engine as well as a Control list containing millions of URLs, the system **tunes** itself into the sites known and accessed by local staff. The longer the ContentKeeper device is installed and online, the more accurate its control and blocking becomes.

ContentKeeper is massively scaleable and is able to handle sites from 25 users up to potentially hundreds of thousands of users. The system has been designed to accommodate high volume, fault tolerant, high availability, load balanced environments as well as small scale office or school sites.

The ContentKeeper Datacentre

ContentKeeper has been designed from the ground up to minimize the required user administration and maintenance. Control list and software upgrades are handled automatically.

The ContentKeeper Datacentre is a vital part of the ContentKeeper service. It collects, processes, analyses, categorize, re-categorizes and distributes websites 24 hours a day 7 days a week. The AI - Artificial Intelligence engines, web-crawlers and the software that drives them are constantly improved and upgraded as new techniques are developed. This is where all the heavy duty, time consuming back-end processing occurs. Our aim is to produce the best quality and most accurate control list available.

Other Features

The management interface is totally Web Browser based and it has full support for user, IP and group based filtering policies. Changes to ContentKeeper policies and settings occur instantaneously without network disruption or the need to re-start services or go through a time consuming re-loading of control list data into memory.

ContentKeeper has a “hassle free” registration and activation system which is handled totally automatically with no user involvement at all. Just connect the system to the Internet and it will look after itself.

ContentKeeper has an optional High Availability Module (HAM). The HAM is an electro-mechanical/magnetic Ethernet switch (on an industry standard PCI card). This module insures network connectivity even in the event of a hardware, software, or power failure to the device. The software has also been engineered to be robust. It has an in-built auto-health monitoring and checking system which can correct minor errors, and by reporting its status to the HAM every few seconds, help insure that the system is fully operational at all times.

ContentKeeper has been certified by the Australian Federal Government’s Australian Broadcasting Authority (ABA) for use by ISPs and other organizations as a central site filtering system to satisfy the requirements of the Broadcasting Act in related to restricted sites. ContentKeeper’s standard control list contains the ABA’s official take down list in its “Government Blocking List” category.

Recent Items

The ContentKeeper product is continuously being enhanced, mainly in response to user requests and suggestions from installed user bases large and small. Please consult recent product "Release Notes" for details of newly-added features and enhancements, for example:

"**ContentKeeper Live**" and "**Log File Mirroring**" are new features designed to help administrators monitor filtering activity in real time. In brief, selected log file contents may be spooled to mirror sites on the client network, and the ContentKeeper Live product will monitor these files and warn the administrator when pre-set thresholds for particular users, websites, etc. have been breached.

Temporary URL Bypass - is a feature which will allow administrators and other supervisors to temporarily bypass blocking for a specified period, for example, for the duration of a classroom session at a school.

Syslog spooling - allows the ContentKeeper appliance to continuously off-load log files as the data accumulates, rather than tying up your network with one huge daily log file off-load.

Dynamic Activity Viewer - lets you observe selected internet or blocking activity in real time, as traffic passes through the ContentKeeper appliance.

ContentKeeper Features List

General Features and Benefits

- Improved efficiencies, cost savings & benefits.
- Ease of installation and management - designed to absolutely minimize administration costs
- Extensive and fully-flexible facilities to Monitor, Manage and Control internet access.
- Dedicated, efficient stand alone device – removes filter-processing load from proxy server, caching servers or firewalls.
- Designed for both
    - High Availability/High Throughput/Load Balanced environments as well as
    - Small / Medium site installations.
- Hack-proof, transparent Ethernet Bridge-based design – easy installation, no desktop re-configuration, no IP address re-numbering.
- Bi-Level Filtering using BOTH Control List with Real-Time Blocking Engine and Closed-Loop Collaborative Filtering via Network Data Center.
- Hassle Free – fully automatic system registration and activation keying (no user involvement).
- Annual subscription includes- software license, *hourly* Control List updates, full URL database, software updates and phone, fax and email support.

Compatibility

- Compatible with Microsoft™, Novell™, Unix, Linux™ etc. networked computer and desktop environments.
- Network and Operating System independent.
- Compatible with any IP-based proxy servers, firewalls, caching devices, routers etc.
- Proxy server or stand alone support.
- Intel Pro100s Network Interface Card custom settings control for 10Mbits/100Mbits etc.
- Web based PC-to-Server Time Synchronization facility.
- User resolution by all common methods including: NetBIOS, DNS, Microsoft NTLM, Active Directory, LDAP, eDirectory, Radius, etc. Network & IP addressing with full Subnet-masking or transparent proxy header username resolution.

Reliability

- Fault tolerant hardware and application design.
- Secure, hardened, trimmed down, fault-tolerant, high-performance Linux platform
- Optional High Availability Module (HAM) bypass – PCI electro-magnetic Ethernet switch.
- Built-in Partial or Full backup and restore facility.
- Database update, network connectivity and system status monitoring and display.

Filtering

- Combined Control List and Real-Time Blocking Engine.
- Extensive Local Control List containing millions of URLs - *Hourly* Control List updates.
- Closed-Loop Collaborative Filtering for URL worldwide collection, analysis, categorization and editing.
- Instant Custom URL blocking / unblocking with wild-cards.
- Blocks whether site is represented by domain, URL, IP address or proxy re-direction.
- Manages and controls streaming media, video, voice, music, file downloads, P2P, etc.
- File-download management by file type (customizable and extensible).
- Filtering control by user, group, IP network address and subnet mask, user and object.
- The latest developments in real time blocking, analysis and classification engine.
- Automatic Control List updates and Software updates using ContentKeeper's TrickleFeed™ Technology (with site overrides).
- Filtering on single and multiple port numbers (customizable).
- Control List blocking by category of banner ads and page frames.
- Instant and permanent URL and/or category unblocking – via local Control List, or instant time-period-based URL and/or category unblocking – (temporary unblocking with automatic re-blocking).
- Instant local reclassification of URLs.
- Automatic submission of re-classified URLs to Data Center for manual checking and worldwide reclassification.
- Per-Category Live Filtering On/Off Controls; Aggressiveness controls for live filtering.
- On-board Multi-language dictionary support.
- DNS and BIOS machine name stripping.
- Global Filtering Include/Exclude by full network, IP address and subnet-masking facility.
- Per category time of day controls.
- PSUs – configurable Personal Surfing Units –allows flexible policies on how much time and resources users are allowed to use for personal user per day (eg. eBanking, shopping etc.)
- Policy Expiry - set expiry dates for temporary policies.
- ContentKeeper Datacentre continuous powerful back-end processing, analysis, categorization and re-classification of URLs.
- URL Argument Keyword settings - user-defined keywords or URL segments matched against search engine input.
- Google Image Search Result replacement - masks thumbnail images of categorized image URLs with generic icons.

Administration

- Fully local and remote Browser-based Management.
- Full user, group and IP-based Filter Policy Management.
- Master/Slave Multiple-Appliance Administration - provides a single-point administration facility with automated synchronization when multiple appliances are deployed.
- Role-based Multi-Administrator Accounts - allows multiple system administration accounts, with selected access to administration features.
- Audit Trail - tracks administration activities, including multi-administration accounts.
- Block/Coach/Authenticate filtering modes - standard or customizable screens facility.
- On-line and off-line, single and multiple policy verification facility.
- Global policy for making instant changes across all policies.
- Default catch-all policy; Full policy cloning.
- Category Aliases facility – custom category renaming.
- Get and Post custom blocking page facility with cut and paste HTML examples and off-line testing facility.
- Full web-based HAM query, online/bypass and configuration support.
- User and/or administrator-authenticated URL Re-Classification Facility.
- Bridge Device settings and status screens.
- Monitoring/Silent Mode with full reporting capability.
- Extensible Directory and Object services.
- Local user and groups database.

Reporting

- Real Time and Historical Reporting.
- Dynamic Activity Viewer - watch internet and filtering activity in real-time.
- Advanced Reporting Module – Comprehensive customizable enterprise reporting with automatic report generation and delivery via web or email from you windows PC or server.
- Full policy reporting facility.
- Current username resolution web based reporting.
- Extensive Webalizer based reporting.
- Current Internet Activity by site and bandwidth usage web based reporting screen.
- Current site and file Blocking web based reporting screen.
- Automated log file off-load facility - automatically distribute log files to other servers.
- Easy Browser-based log download and backup facility.
- Browser based log reports.
- Silent-Mode Savings Report - input cost parameters to estimate direct savings based on silent-mode statistics.

The ContentKeeper Appliance

Several models of the ContentKeeper Appliance are available, depending on the size of installation. The CK-LE "Large Enterprise" is a purpose built 2 rack unit (RU) appliance designed specifically to provide filtering for up to 50,000 users (depending on internet bandwidth). The CK-SME "Small Enterprise" (1 RU) and SME2 units are designed for smaller sites. And the silent, fan-less CK-SB "Small Business" unit is designed for sites with under 100 users.

CK-SB

CK-SME

CK-LE

At the heart of the ContentKeeper LE appliance is a DUAL x 3GHz Pentium 4 Xeon processor, 2GB memory, one 80GB hard disk and 3 gigabit network cards (NICs). This powerful appliance is specifically designed to support ContentKeeper in Large Enterprise (LE) environments.

For non-redundant array, single-appliance installations, internal and integral to the CK-2040 appliance is a **High Availability Module** (HAM). The HAM is designed to insure maximized network up-time regardless of any hardware or software failures. The device is an electro-mechnical Ethernet bypass switch which can automatically redirect traffic through the appliance and maintaining Ethernet connectivity in the event of any failure.

Contacts

For sales, trial installation or additional information contact:

Canadian Distributor

APL Borealis Inc. is the Canada-wide distributor of ContentKeeper Web Filtering from Australia-based ContentKeeper Technologies Inc., industry leaders in Web Content Filtering.

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Or visit the ABI / ContentKeeper website at www.contentkeeper.ca

Or the ContentKeeper manufacturer website at www.contentkeeper.com

Also, APL Borealis / ContentKeeper have local resellers across Canada - call us for details.