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ContentKeeper Web Version 122.31 Release Notes

Overview

These release notes apply to ContentKeeper® Web Enterprise Version 122.30 and include all updates and changes between Version 122.20 and Version 122.31.

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ContentKeeper Release Notes

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These release notes apply to ContentKeeper® Web Enterprise Version 122.31 and include all updates and changes between Version 122.20 and Version 122.31.

This document contains release notes for several versions of ContentKeeper. As a result the version under which a feature was introduced has been listed at the start of each feature section. Feature sections may contain updates from more than one version of ContentKeeper, in which case the version will be listed before the information on the feature update.

Each feature section starts with changes and enhancements to the earlier versions and progresses through to more recent versions, with the most recent changes and enhancements being at the very end.

To find product changes specific to a particular version refer to the version index at the end of this document.

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Version Index

The version index lists all of the changes to ContentKeeper that are documented in these release notes in order of version with the most recent version first.

A page number accompanying a change indicates a section of this document that contains more detailed information about the change.

ContentKeeper Version 122.31

- NTP synchronisation – Page 17.
- General enhancements have been made in the following areas of ContentKeeper:
 - eDirectory Username Resolution mechanism.
 - Support for the ContentKeeper Appliance Integrated Watchdog.
 - URL Argument Keyword Matching facility.
 - Filtering of proxy encapsulated Internet traffic.
 - Appliance Configuration Settings menu.
 - Site/Domain Authentication menu.
 - PSU filtering mechanism.

ContentKeeper Version 122.30

- LDAP Group Name Format – Page 13.
- General enhancements have been made in the following areas of ContentKeeper:
 - Filtering of proxy encapsulated Internet traffic.
 - Master/Slave Synchronisation menu.
 - Serving up of Web Interface by ContentKeeper Appliance.
 - eDirectory Username Resolution mechanism.
 - Log Offloader menu.

ContentKeeper Version 122.28

- New LDAP/eDirectory/AD Configuration Menu – Page 11.
- SSL Bind to eDirectory – Page 12.
- Integrated Hardware Watchdog – Page 15.

ContentKeeper Version 122.26

- URL Database Status Monitoring – Page 8.
- General enhancements have been made in the following areas of ContentKeeper:
 - URL Matching methods
 - Syslog Configuration menu.

ContentKeeper Version 122.25

- General enhancements have been made in the following areas of ContentKeeper:
 - Web Interface menu timeout values.
 - Master/Slave Synchronisation menu.
 - Internet activity caching and logging mechanisms.
 - Weekly housekeeping cycle.

ContentKeeper Version 122.24

- Other Rules Menu – Page 8.
- View Current Loaded User/Groups – Page 10.
- General enhancements have been made to improve the following aspects of the LDAP/eDirectory/AD Configuration facility:
 - Enumeration of users and groups.
 - Loading of user and group data by ContentKeeper upon startup.
 - Matching of user and group data to ContentKeeper policies.
- General enhancements have been made in the following areas of ContentKeeper:
 - Filtering and blocking of web pages that are cached by Google.
 - Policy Database Management mechanisms.

ContentKeeper Version 122.23

- General enhancements have been made in the following areas of ContentKeeper:
 - Dynamic Activity Viewer menu.
 - Username Resolution menu.

ContentKeeper Version 122.22

- IP Address and Username Anonymization – Page 7.
- Multiple LDAP Search DN's – Page 9.
- LDAP Bind Passwords – Page 10.
- HTTP Header Error Code Option – Page 14.
- JavaScript URL Option – Page 14.
- Improved speed of user/group enumeration via LDAP.
- General enhancements have been made in the following areas of ContentKeeper:
 - URL Database updates mechanism.
 - URL Matching methods
 - Policy Database Management mechanisms.
 - Internet activity caching and logging mechanisms
 - Registration Details menu

ContentKeeper Version 122.21

- Updates have been made to the Sample eDirectory Filter Settings.
- General enhancements have been made in the following areas of ContentKeeper:
 - Custom URLs Policy Blocking Rule.
 - Policy Report facility.
 - Display Policies menu.
 - Port Numbers for Filtering facility.

ContentKeeper Version 122.20

- Live Filtering Aggressiveness Settings – Page 7.
- Master/Slave eDirectory User and Group Synchronisation – Page 9.

Filtering Control and Policies Blocking Rules

This section of the release notes contains all of the enhancements and new features to ContentKeeper Policies and Blocking Rules, and includes all updates between Version 122.20 and Version 122.31.

Live Filtering Aggressiveness Settings

Version 122.20

The default *Live Filtering Aggressiveness* has been reduced to the minimum level. Reducing the aggressiveness of live filtering reduces the chances of false positives in ContentKeeper blocking. This will only effect new installations.

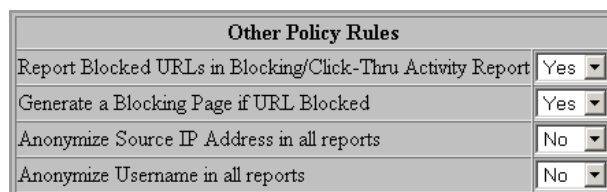


The *Live Filtering Aggressiveness* setting is accessible through the *Live Filtering Settings* menu in the ContentKeeper Web Interface.

IP Address and Username Anonymization

Version 122.22

The option to anonymize source IP addresses and usernames on a per policy basis has been added to ContentKeeper. There are two new options, one for IP addresses and one for usernames which may be accessed through *Other Rules* in the *Create & Edit Policies* menu.



When an IP address is anonymized it is replaced with 0.0.0.0, and when a username is anonymized it is replaced with *****. Anonymization causes IP addresses and usernames to be hidden for all ContentKeeper report logs and reports.

Other Rules Menu

Version 122.24

An option has been added to ContentKeeper *Policy Blocking Rules* that allows the *Other Policy Rules* settings for the current policy to be applied to all policies. This option is executed by clicking the *Alter for all Policies* button in the *Other Rules* menu.

Other Policy Rules		
Report Blocked URLs in Blocking/Click-Thru Activity Report	Yes ▾	
Generate a Blocking Page if URL Blocked	Yes ▾	
Anonymize Source IP Address in all reports	No ▾	
Anonymize Username in all reports	No ▾	
Remember to click on Save and Redisplay after making changes.		
<input type="button" value="Save and Redisplay"/>	<input type="button" value="Return to Policies"/>	<input type="button" value="Policy Report"/>
<input type="button" value="Alter for all Policies"/>		

URL Database Status Monitoring

Version 122.26

To further ensure that the ContentKeeper URL database is always kept up to date, ContentKeeper will automatically switch itself from one hour Datacenter call-in mode to one minute call-in mode whenever the local copy of the master URL Database drops below 95%.

ContentKeeper will remain in one minute Datacenter call-in mode until the local copy of the URL Database is fully synchronised with the master copy at the Datacenter. ContentKeeper will then automatically switch back to one hour call-in mode.

Additionally, a warning message will now be displayed on the main menu of the ContentKeeper Web Interface whenever the URL Database drops below 95%, alerting you to the fact that because of the URL Database status filtering may no longer be completely effective.

Warning!
Filtering may not be fully effective as the
ContentKeeper URL Database is less than 100% full.

Domain Integration

This section of the release notes contains all of the enhancements and new features to ContentKeeper network and domain integration facilities, and includes all updates between Version 122.20 and Version 122.31.

Master/Slave eDirectory User and Group Synchronisation

Version 122.20

User and Group information obtained by ContentKeeper through the *LDAP/eDirectory Groups* facility is now synchronised between master and slave appliances along with the *LDAP/eDirectory Groups* settings.

This means that eDirectory users and groups available in the *Create & Edit Policies* menu on the master appliance will be available on the slave appliance after eDirectory data has been synchronised.

Multiple LDAP Search DN's

Version 122.22

Support for multiple LDAP search DN's in the *LDAP/eDirectory Groups* menu has been enhanced. The total number of search DN's that may be entered has been increased to a maximum of 250, with the total number of characters from the combined search DN's (referred to as total input length) being a maximum of 10,240.

<p>List of Search DN(s) (e.g <code>cn=staff,cn=users,dc=company,dc=com</code> <code>cn=students,cn=users,dc=company,dc=com</code>) Please enter one Search DN per line. Maximum input length is 10,240 characters. Maximum length of each Search DN is 128 characters Maximum number of Search DN's is 250.</p> <p>Total Input Length: 4 Characters Number of Search DN's: 1</p>	<div style="border: 1px solid #ccc; min-height: 100px; margin-top: 5px;">o=CK</div>
---	---

The total input length and total number of search DN's are indicated in the *List of Search DN(s)* field.

LDAP Bind Passwords

Version 122.22

ContentKeeper supports the use of standard alpha-numeric characters in the bind password field in the *LDAP/eDirectory Groups* menu, i.e. a-z, A-Z, 0-9.

A warning prompt will now be generated whenever a password containing non alpha-numeric characters is entered into the *Bind Password*.

View Current Loaded User/Groups

Version 122.24

A new facility that allows currently loaded users and groups to be viewed has been added to the *LDAP/eDirectory Groups* menu. This facility is accessed by clicking on the *View Current Loaded User/Groups* button at the bottom of the menu.

The facility takes the form of a table containing a list of all of the loaded groups, each with a corresponding number of users. The number of users is a hyperlink which when clicked will display a separate table containing all of the users for that group.

The new facility also incorporates a search function allowing currently loaded groups to be searched for a specific user.

Currently Loaded LDAP Users/Groups

Number of Users: **79**
 Number of Groups: **4**
 Target Group: **74** Users

Find a User in a Group

An LDAP Group containing the above user will be displayed in Green.

#	Group Name	# Users
1	cn=accounts,ou=groups,dc=system,dc=com	2
2	cn=directors,ou=groups,dc=system,dc=com	1
3	cn=marketing,ou=groups,dc=system,dc=com	1
4	cn=citrix thin clients,ou=groups,dc=system,dc=com	74

New LDAP/eDirectory/AD Configuration Menu

Version 122.26

In version 122.26 of ContentKeeper the *LDAP/eDirectory Groups* menu has been renamed to *LDAP/eDirectory/AD Configuration* to better reflect the purpose of this menu.

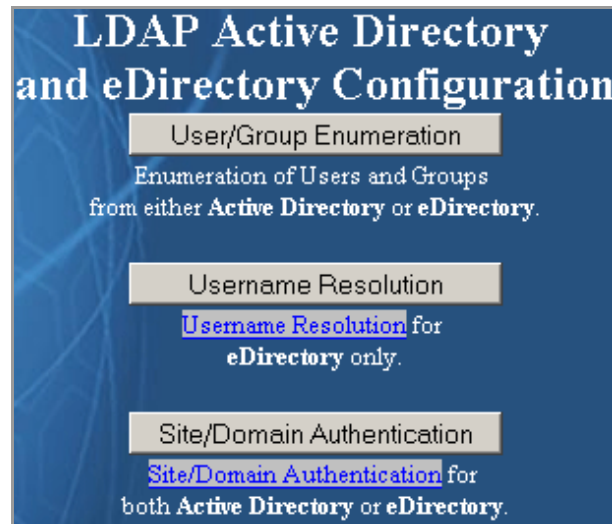
This is as a result of the increasing number of Active Directory domains supporting LDAP interoperability into which ContentKeeper is being deployed.

Current Status	Restart	Administration	Miscellaneous
Status Information	Restart ContentKeeper	Administration Accounts	Registration Details
Current Internet Activity	Reboot ContentKeeper Appliance	View/Edit Reclassified URLs	Set/Adjust Date and Time
Current Blocking Activity	Shutdown ContentKeeper Appliance	Block/Unblock URLs in Control List	ContentKeeper Agent
Current Username Activity	ContentKeeper Anti-Spam	ContentKeeper Backups	Appliance Configuration Settings
View/Download Report Logs		Audit Trail	Log Offloader
Dynamic Activity Viewer		Downloadable Modules	Category Aliases
Blocking/Reporting	General Settings	Operational Settings	Authentication
Create & Edit Policies	General Parameters	Management Port Proxy Settings	Site/Domain Authentication
Display Policies	Excluded/Included IP Addresses	High Availability Module (H.A.M)	Departmental Report Setup
Verify Policy	Blockpage Customisation	URL Reclassification Settings	LOCAL Groups
Silent Mode Savings Report	Username Resolution	Bridge Device Settings	LDAP/eDirectory/AD Configuration
Webalizer Reports	Live Filtering Settings	Master/Slave Administration	
Advanced Reporting Module	Syslog Configuration	Custom/Local Categories	

As well as the new menu name, there is also a new submenu. The submenu includes options for accessing other ContentKeeper menus that have LDAP oriented settings. The submenu options are described below.

- **User/Group Enumeration** – Selecting this option will open the *LDAP/eDirectory Users and Groups Setup* menu in a new window. The options in this menu allow you to configure ContentKeeper to enumerate users and groups from a directory service that supports LDAP, e.g. Novell eDirectory or Microsoft Active Directory. These users and groups are then made available for assigning to ContentKeeper filtering policies through the *Create & Edit Policies* menu.
- **Username Resolution** – Selecting this option will open the *eDirectory Username Resolution* menu in a new window. The options in this menu allow you to configure ContentKeeper to resolve usernames from the source IP addresses of web requests. The *eDirectory Username Resolution* menu may also be accessed from the Web Interface main menu by browsing to the *Username Resolution* menu, selecting *Advanced Settings* and then clicking on *eDirectory Settings*.

- **Site/Domain Configuration** – Selecting this option will open the *Site/Domain Authentication* menu in a new window. The options in this menu allow you to indicate what directory service will be used to provide authentication when users are blocked with a ContentKeeper *Authenticate Blockpage*. The *Site/Domain Authentication* menu may also be accessed directly from the Web Interface main menu.



Refer to the ContentKeeper Enterprise Administration Guide for more information on configuring any of the options mentioned above.

SSL Bind to eDirectory

Version 122.26

An SSL Bind option has been added to version 122.26 of ContentKeeper offering support for a secure bind to Novell eDirectory. This option is available for all areas of ContentKeeper that support LDAP, including the following:

- LDAP/eDirectory/AD Configuration
- eDirectory Username Resolution
- Site/Domain Configuration



The *SSL Bind* option appears as a check-box in the *Bind Password* field of the LDAP settings for the three menus mentioned above. The option may be enabled by checking the *SSL Bind* check-box and following the prompts to load the required SSL certificate.

SSL certificates for use with the ContentKeeper *SSL Bind* option should be generated on your Novell eDirectory server and exported prior to configuring ContentKeeper. Refer to your Novell eDirectory documentation for more information on generating and exporting SSL certificates.

The same SSL certificate that is loaded into ContentKeeper when the *SSL Bind* option is enabled will be used by all areas of ContentKeeper that support the *SSL Bind* option.

Port 636 should also be specified in the *Port Number(s)* field of the LDAP settings whenever the *SSL Bind* option is used.

LDAP Group Name Format

Version 122.30

The option to customise LDAP group name format has been added to the *LDAP/eDirectory Groups* menu in version 122.30 of ContentKeeper.

This option allows you to choose how LDAP group names that have been enumerated by ContentKeeper from your directory service will appear in the *Create & Edit Policies* menu.

Group Name Format	Full Distinguished Name ▾
	<div style="border: 1px solid black; padding: 2px;"> <div style="background-color: #000080; color: white; padding: 2px;">Full Distinguished Name</div> <div style="padding: 2px;">Remove Search DN</div> <div style="padding: 2px;">Group Name Only</div> </div>

The *Group Name Format* option has three settings. Choosing the *Fully Distinguished Name* setting will result in the complete LDAP distinguished name being displayed in the *Create & Edit Policies* menu, for example:

cn=sales,ou=groups,dc=contentkeeper,dc=com

Choosing the *Remove Search DN* setting will result in the search DN part of the LDAP distinguished name being removed and the rest being displayed in the *Create & Edit Policies* menu, for example (where the Search DN = dc=contentkeeper,dc=com):

cn=sales,ou=groups

Choosing the *Group Name Only* setting will result in only the group name being displayed in the *Create & Edit Policies* menu, for example:

sales

Setup and Customisation

This section of the release notes contains all of the enhancements and new features to ContentKeeper setup and customisation facilities, and includes all updates between Version 122.20 and Version 122.31.

HTTP Header Error Code Option

Version 122.22

Two new options have been added to the *Miscellaneous Parameters* menu in version 122.22, allowing certain aspects of how blockpages are created to be configured.

Use the *HTTP Header Error Code* option to select the HTTP error code specified in the HTTP header of the blockpage. Two options are currently specified:

- HTTP/1.0 200 OK
- HTTP/1.0 403 Forbidden

Replace Google Thumb Images	Yes ▾
Replace Image Components	Yes ▾
HTTP Header Error Code for Block Pages	403 Forbidden ▾
Block JavaScript URLs with HTML or JavaScript	200 OK 403 Forbidden

A browser uses the HTTP error code specified in the HTTP header to determine how to display the response to a URL request. A browser may be configured to display its default text based error page (instead of the contents of the blockpage) when it receives an HTTP 403 error in the response to a URL request. Setting the *HTTP Header Error Code* option to *200 OK* causes a browser to display the response to the URL request instead of a text based error, even when it actually contains a ContentKeeper blockpage.

JavaScript URL Option

Version 122.22

Use the *JavaScript URL* option to specify whether the ContentKeeper blockpage is either HTML or JavaScript when blocking JavaScript.

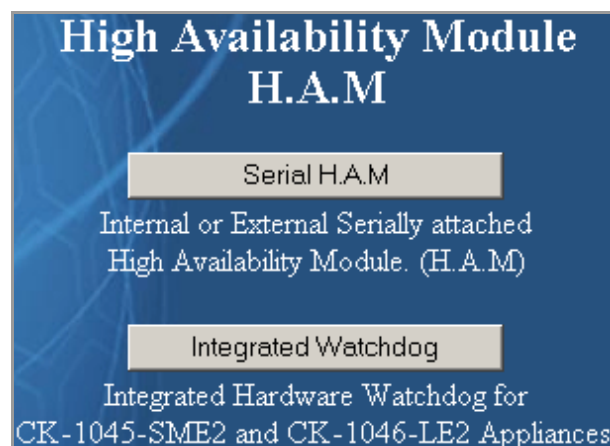
Replace Google Thumb Images	Yes ▾
Replace Image Components	Yes ▾
HTTP Header Error Code for Block Pages	403 Forbidden ▾
Block JavaScript URLs with HTML or JavaScript	JavaScript ▾
	HTML
	JavaScript

ContentKeeper deems any response to a URL request that matches the pattern {filename}.js or js.{file extension} to be JavaScript. Sending an HTML blockpage to a browser that is expecting JavaScript may cause the browser to generate a popup error message. Setting the *JavaScript URL* option to *JavaScript* can prevent this from happening.

Integrated Hardware Watchdog

Version 122.26

If you are using either of the ContentKeeper CK-1045-SME2 or CK-1046-LE2 Appliances, then as of version 122.26 you are able to control the appliances integrated watchdog through the *High Availability Module (H.A.M)* menu.



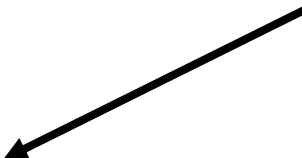
The *Integrated Watchdog* submenu contains options that allow the Integrated Watchdog to be enabled or disabled as well as forced into Bypass or Online mode.



If you are using the standard High Availability Module, either external or internal PCI, you will be able to access the H.A.M settings by browsing to the *Serial H.A.M* submenu of the *High Availability Module (H.A.M)* menu.

Important! Do not enable both the Serial H.A.M and the Internal Watchdog at the same time.

The following diagram depicts the ContentKeeper LE2 Appliance with its Gigabit Ethernet Bridge Ports and Integrated Hardware watchdog, and is presented here as a point of reference. The diagram is accompanied by a table on the following page which indicates the appropriate Ethernet cable types to use when connecting the Gigabit Ethernet Bridge Ports.



Note: When the blue *Bridge in Bypass* light is lit, the two Gigabit Ethernet Bridge Ports are connected together via an internal cross-over, effectively removing the ContentKeeper Internet Filter from the network while maintaining network connectivity.

The table below indicates the appropriate Ethernet cable types to use when connecting the Bridge Ports on the ContentKeeper SME2 (Fast Ethernet) and LE2 (Gigabit Ethernet) Appliances with Integrated Hardware Watchdogs.

Bridge Port 1 Connected to:	Cable type:	Bridge Port 2 Connected to:	Cable type:
Router	Cross-Over	Router	Cross-Over
NIC	Cross-Over	NIC	Cross-Over
Switch	Straight-Thru	Switch	Straight-Thru
HUB	Straight-Thru	HUB	Straight-Thru

NTP Synchronisation

Version 122.31

Support for Network Time Protocol (NTP) synchronisation has been added to version 122.31 of ContentKeeper. This new facility allows a ContentKeeper Appliance to be synchronised with an NTP server either on the LAN or on the Internet.

The NTP Synchronisation facility may be accessed by browsing to the *Set/Adjust Date and Time* menu in the ContentKeeper Web Interface and clicking the *NTP Synchronisation* button.

Clock Synchronisation - NTP

Mode: On Off

Server Address:

Period of Adjustment: Hourly Daily Continuous
(Continuous is recommended)

Successful! Clock synchronised using NTP protocol.