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ContentKeeper Version 121.07 Release Notes

Overview

These release notes apply to ContentKeeper® Enterprise version 121.07 and include all updates and changes between version 121.04 and version 121.07.

For ContentKeeper Versions up to 121.07
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Administration Password – Important!

Upon upgrading to ContentKeeper version 121.07 the *Web Interface* user account 'admin' will have its password reset to factory default.

This means that when you log on to the *Web Interface* after the upgrade as the user 'admin' you must specify a password of 'ck2001'.

We recommend that you immediately change the password for the 'admin' account which may be performed in the new *Administration Accounts* facility.

This change will only affect ContentKeeper appliances upgrading to version 121.07 or above for the first time. It is not standard practice for passwords to be reset during an upgrade, however, the introduction of the new role based *Administration Accounts* facility requires that the admin password be reset.

The *Administration Accounts* facility may be accessed by selecting *Administration Accounts* from the *Administration* menu in the ContentKeeper *Web Interface*. Refer to the [Administration Accounts](#) section in this document for more information about this facility.

New Features

This section of the release notes is focused on features new to ContentKeeper version 121.07, and includes all updates between version 121.04 and version 121.07.

Silent Mode Savings Report

The new ContentKeeper *Silent Mode Savings Report* provides a convenient method for organisations 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.

Silent Mode Savings Report						
Report Date : 21-Apr-2004, 10:08 A.M.						
Report Summary						
Network Traffic Filtered from 01-Apr-2004 to 21-Apr-2004.						
Visits Allow	Visits Block	MBytes Allow	MBytes Block	Staff Browsing Costs (EU euro)		
				Time	MBytes	Total Cost
25638	1697	1,210.54	34.78	EUR 848.50	EUR 14.79	EUR 863.29
<p>Note 1 : Total Browsing Cost Savings of EUR 863.29 is based on the following assumptions.</p> <p>Cost per Megabyte Downloaded: EUR 0.30 Average Staff Cost per Hour: EUR 60.00 Number of seconds consumed per visited site: 30 Calculated average downloaded bytes per visited site: 21,490</p> <p>Note 2 : Not all Categories were in Silent Mode. (6 Category(s) were not in Silent Mode) Estimate calculations were used for those cases.</p>						
Detail Category Report			Print Summary Report			
Close Window						

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.

Cost Values (Local Currency)	
Cost Per Megabyte	<input type="text" value="0.30"/>
Staff Cost Per Hour	<input type="text" value="60.00"/>
Your Currency Code	<input type="text" value="EU euro"/>

Silent Mode allows ContentKeeper to be installed in a network and monitor all Web traffic while populating its logs with no indication to any network user that it has been installed. This is an extremely powerful tool for profiling current network activity and is used in conjunction with the *Silent Mode Savings Report*.

Note 2 : Not all Categories were in Silent Mode.
(6 Category(s) were not in Silent Mode)
Estimate calculations were used for those cases

If ContentKeeper has been set to *Blocking Mode* when the report is generated, there is already a bandwidth and staff-time saving taking place so ContentKeeper enters *Estimate Mode* for categories that have *Blocked* entries present.

Silent Mode Savings Report									
Report Date : 21-Apr-2004, 10:13 A.M.									
Silent Mode Savings Report by Category									
Network Traffic Filtered from 01-Apr-2004 to 21-Apr-2004.									
#	Category	Mode	Visits		MBytes		Staff Browsing Costs (EU euro)		
			Allow	Block	Allow	Block	Time	MBytes	Total Cost
0	Unclassified	Silent	5393		245.47				
1	Adult Content	Estimate	784	260	55.49	14.73	130.00	4.42	134.42
2	News	Silent	2958		124.72				
3	Job Search	Silent	85	3	1.33	0.01	1.50	0.00	1.50
4	Gambling	Silent	21	28	0.52	0.50	14.00	0.15	14.15
5	Travel/Tourism	Silent	93	52	7.65	3.34	26.00	1.00	27.00
6	Shopping	Estimate	419	130	20.82	4.05	65.00	1.21	66.21
7	Entertainment	Silent	345	16	19.67	0.75	8.00	0.23	8.23
8	Chatrooms	Estimate	324	12	4.39	0.25	6.00	0.07	6.07
9	Dating Sites	Silent	91	4	4.30		2.00		2.00
10	Game Sites	Silent	124	2	12.99		1.00		1.00

The *Silent Mode Savings Report* may be accessed by selecting *Silent Mode Savings Report* from the *Blocking/Reporting* menu in the ContentKeeper Web Interface.

Master/Slave Administration

The ContentKeeper *Master/Slave Administration* facility introduces new centralised administration architecture to ContentKeeper, allowing organisations with multiple ContentKeeper appliances to manage much of the configuration of those appliances from one interface.

Master/Slave Administration

Select ContentKeeper Appliance Type.

Some organisations wish to deploy multiple ContentKeeper appliances, such as in a high traffic load-balanced environment where a number of ContentKeeper appliances are co-located, or a network with multiple Internet gateways where a ContentKeeper appliance is deployed at each gateway.

Using *Master/Slave Administration*, one ContentKeeper appliance is configured as a master and the remaining ContentKeeper appliances are configured as slaves. Normal configuration tasks are performed on the master appliance and the slave appliances are then synchronised with the master. All master/slave synchronisation takes place via an encrypted communications channel on TCP port 22.

Slave IP Address	Username	Password	Password	Slave Hostname/Status	Last Sync Time	Test	Sync
192.9.200.161	ckadmin	*****	*****	devtestbed161	21-Apr-2004,11:23 a.m.	Test	Sync
192.9.200.166	ckadmin	*****	*****	devtestbed166	21-Apr-2004,11:24 a.m.	Test	Sync
						Test	Sync
						Test	Sync
						Test	Sync

Master/Slave synchronisation consists of two parts, *Appliance Configuration* and *URL Reclassifications*. Configuration options are synchronised manually between appliances from the *Master/Slave Administration* menu. A ContentKeeper administrator may specify which of the master appliance's configuration options are to be synchronised with the slave appliances; this makes the *Master/Slave Administration* facility very flexible and suitable for any network environment.

Master/Slave Administration

Manual Synchronization Options

(These options are synchronized when the **Sync** button is clicked.
The Slave Appliance will Restart once for each synchronization action.)

All Policies
 Local Groups
 All URL Control List
 Block Page Customization
 Exclude/Include IP Addresses
 Date/Time Synchronization

Dynamic Synchronization Options

(These options are auto synchronized as soon as the changes are made on this Master Appliance.)

Block/Unblock URLs in Control List

URL reclassification submissions made from the *Block/Unblock URLs in Control List* menu take effect instantaneously on the master appliance and are immediately applied to the slave appliance(s).

Automatic synchronisation of *URL Reclassifications* between appliances ensures that the URL Databases on all of the ContentKeeper appliances remain identical.

The *Master/Slave Administration* facility may be accessed by selecting *Master/Slave Administration* from the *Operational Settings* menu in the ContentKeeper Web Interface.

Administration Accounts

The new ContentKeeper *Administration Accounts* facility allows for the implementation of role-based access to the ContentKeeper *Web Interface*.

ContentKeeper Administration Accounts			
Username	Password	Password Again	Access Control
admin	*****	*****	Settings
Fred	*****	*****	Settings
reporting	*****	*****	Settings
			Settings
			Settings
			Settings
			Settings
			Settings

The *Administration Accounts* facility allows a ContentKeeper administrator to create user accounts and then specify which menus in the *Web Interface* may be accessed by those accounts.

Access Control for Username: Fred				
Current Status	Restart	Administration	Miscellaneous	
Status Information	<input checked="" type="checkbox"/> Restart ContentKeeper	<input type="checkbox"/> Administration Accounts	<input type="checkbox"/> Registration Details	<input type="checkbox"/>
Current Internet Activity	<input checked="" type="checkbox"/> Reboot ContentKeeper Appliance	<input type="checkbox"/> View/Edit Reclassified URLs	<input type="checkbox"/> Set/Adjust Date and Time	<input type="checkbox"/>
Current Blocking Activity	<input checked="" type="checkbox"/> Shutdown ContentKeeper Appliance	<input type="checkbox"/> Block/Unblock URLs in Control List	<input checked="" type="checkbox"/> ContentKeeper Agent	<input checked="" type="checkbox"/>
Current Username Activity	<input checked="" type="checkbox"/> ContentKeeper Mail	<input type="checkbox"/> ContentKeeper Backups	<input type="checkbox"/> Appliance Configuration Settings	<input type="checkbox"/>
View/Download Report Logs		Audit Trail	<input type="checkbox"/> Log Offloader	<input type="checkbox"/>
Dynamic Activity Viewer	<input checked="" type="checkbox"/>		Category Aliases	<input type="checkbox"/>
Blocking/Reporting	General Settings	Operational Settings	Authentication	
Create & Edit Policies	<input checked="" type="checkbox"/> General Parameters	<input type="checkbox"/> Management Port Proxy Settings	<input type="checkbox"/> Site/Domain Authentication	<input checked="" type="checkbox"/>
Display Policies	<input checked="" type="checkbox"/> Excluded/Included IP Addresses	<input checked="" type="checkbox"/> High Availability Module (H.A.M)	<input type="checkbox"/> Departmental Report Setup	<input type="checkbox"/>
Verify Policy	<input checked="" type="checkbox"/> Blockpage Customisation	<input type="checkbox"/> URL Reclassification Settings	<input type="checkbox"/> LOCAL Groups	<input checked="" type="checkbox"/>
Slit Mode Savings Report	<input type="checkbox"/> Username Resolution	<input checked="" type="checkbox"/> Bridge Device Settings	<input type="checkbox"/> LDAP/eDirectory Groups	<input checked="" type="checkbox"/>
Webalizer Reports	<input type="checkbox"/> Live Filtering Settings	<input type="checkbox"/> Master/Slave Administration	<input type="checkbox"/>	
Advanced Reporting Module	<input type="checkbox"/>			

When both network operations and human resources staff are involved in the management of ContentKeeper, it is important that each group of staff members only has access to appropriate areas of the *Web Interface*. The new *Administration Accounts* facility provides for this kind of role-based access to the ContentKeeper *Web Interface*.

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 Mail	ContentKeeper Backups	Appliance Configuration Settings
View/Download Report Logs		Audit Trail	Log Offloader
Dynamic Activity Viewer			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 Groups
Webalizer Reports	Live Filtering Settings	Master/Slave Administration	
Advanced Reporting Module			

Each staff member has his/her own login credentials and after logging-in, may only access parts of the *Web Interface* that were preset by the master administrator when their account was created. All remaining Web Interface menus are greyed out.

Warning! The following users are logged in : {david} {admin} {matt}
 Caution! The following users are also on this page : {david} {admin}

ContentKeeper users are notified by a warning message when they access a menu in the *Web Interface* already being accessed by another user. If two users simultaneously save changes to the same menu, the most recent changes are applied. This is why it is important that logged-on users are aware of each other.

The *Administration Accounts* facility may be accessed by selecting *Administration Accounts* from the *Administration* menu in the ContentKeeper *Web Interface*.

Audit Trail

Complementing the new *Administration Accounts* facility, the ContentKeeper *Audit Trail* facility provides the ability to display all the *Web Interface* screens that a given user has accessed during a specified time period.

ContentKeeper Audit Trail

Display Audit Trail for last

1 Hour

Select a Username

Fred

This is an important feature as it allows full auditing of access to the ContentKeeper *Web Interface*, including the master administrator account (admin).

Date/Time	User	Description	Page
27-Apr-2004,10:31 a.m.	Fred	Status Information	logout.cgi
27-Apr-2004,10:31 a.m.	Fred	Create & Edit Policies	policyverify.cgi
27-Apr-2004,10:31 a.m.	Fred	Create & Edit Policies	policy.cgi
27-Apr-2004,10:31 a.m.	Fred	Create & Edit Policies	categories.cgi
27-Apr-2004,10:31 a.m.	Fred	Create & Edit Policies	policy.cgi
27-Apr-2004,10:31 a.m.	Fred	ContentKeeper Menu	index.cgi
27-Apr-2004,10:30 a.m.	Fred	Status Information	status.cgi
27-Apr-2004,10:30 a.m.	Fred	ContentKeeper Menu	index.cgi

Audit trail reports are generated by selecting a specific user or all users and then specifying a period of time that the report should cover. The *Audit Trail* facility may be accessed by selecting *Audit Trail* from the *Administration* menu in the ContentKeeper *Web Interface*.

Policy Expiry

The new *Policy Expiry* feature allows ContentKeeper policies to be configured with an expiry date. When a policy reaches its expiry date it is automatically disabled, and may be re-enabled or deleted depending on the administrators needs.

Policy Description	accounts department policy		
Select Policy	accounts-policy ▾	Clone	Report
Enable Policy	<input checked="" type="checkbox"/>	Delete	Verify
Policy Expiry	By Date ▾	22 ▾	Apr ▾ 2004 ▾

The *Policy Expiry* feature may be used when a special policy is required for a staff member or a group of staff members for a specific period of time. Educational organisations may find this facility particularly useful for special policies required for a study project or term/semester.

Policy URL Keywords

The new *Policy URL Keywords* facility allows policies to be configured with specific keywords that may result in search engines such as images.google.com or www.google.com returning undesirable, non-business oriented material, in particular thumbnail images.

With previous versions of ContentKeeper, clicking on any of the returned thumbnail images will result in a ContentKeeper BLOCK event taking place and the user will not be able to view the material. However, it is best practice to eliminate the thumbnail material in the first place, before it enters the workplace.

Keywords	URLS
xxx porn	images.google
When a Keyword is found	Block

Administrators are able to enter sets of keywords that will be matched against the search terms entered into the search engine dialogue boxes and block when a match is found.

The *Policy URL Keywords* facility also supports pattern matching of URL entries. This means that partial URLs may be specified and ContentKeeper will attempt to match them to actual URL requests, e.g. images.google will match to all of the following URLs, images.google.com, images.google.de, images.google.co.uk, etc.

Enhanced Features

This section of the release notes is focused on features that were present in earlier versions of ContentKeeper and have been enhanced in version 121.07. This section includes all feature enhancements between version 121.04 and version 121.07.

Current Internet Activity

The *Current Internet Activity Report* has been enhanced to include all Internet activity, i.e. both allowed and blocked URLs. All entries in the *Current Internet Activity Report* are now accompanied by their current categorisation, which may be any one of the *ContentKeeper Categories*, or the phrase *Unclassified* if the URL has not yet been categorised within the ContentKeeper *URL Database*.

Most visited sites by Hits in last 5 Minutes			
(Note : Only top level sites are shown)			
1,	45	- v4.windowsupdate.microsoft.com , Computing/IT, Allow	
		192.9.200.25,	
		alex,	
2,	32	- www.hotmail.com , www-Email Sites, Authenticate	
		192.9.200.32,	
		matthew,	
3,	31	- www.palyboy.com , Adult Content, Block	
		192.9.200.32,	
		matthew,	
4,	19	- ad.au.doubleclick.net , Advertising, Coach	
		192.9.200.174,	
		peter,	

Additionally, all entries in the *Current Internet Activity Report* are now accompanied by their blocking state, which may be *Allow*, *Coach*, *Authenticate* and *Block*.

These enhancements also apply to the Current Internet Activity Report available under the Current Username Activity menu.

Verify Policy

The ContentKeeper *Policy Verification* facility has been enhanced to support the new *Policy URL Keywords* facility. When policies under which the Policy URL Keywords have been configured are verified against URLs containing matching keywords, the *Policy Verifier Output* will contain a *Category* value of *URL Arguments*.

Policy Verifier Results	
access-policy	
Input	
Policy to verify	access-policy
Request URL	images.google.com.au/images?q=porn
Request Username	jamie
Output	
Status/Result	Block
Category	URL Arguments
Policy	Policy=access-policy; Username=jamie
Report Blocked	Yes
Blocking Page	Yes
Policy State	Currently Enabled

Dynamic Activity Viewer

The ContentKeeper *Dynamic Activity Viewer* now includes an enhanced *Dynamic Internet Activity Report*. The enhanced *Dynamic Internet Activity Report* contains a new *Bytes* column, in which the size, in bytes, of each corresponding URL is shown.

Live Current Internet Activity for the : 21-Apr-2004				
Time	Bytes	IP-Address	Username	URL
17:56:25	2588	192.9.200.46	duncan	www.elcom.co.uk/logos/microsoft.gif
17:56:25	3212	192.9.200.46	duncan	www.elcom.co.uk/logos/elcom_small.gif
17:57:07	594	192.9.200.46	duncan	www.google.com
17:57:08	1591	192.9.200.46	duncan	www.google.com.au
17:57:28	5587	192.9.200.46	duncan	www.google.com.au/search

Policy Report

The ContentKeeper *Policy Report* facility now reflects the new *Policy Expiry* feature with the addition of the *Expiry State* column. The *Expiry State* column contains the *Policy Expiry* settings of the corresponding policy.

No.	Policy Name	Description	Enabled	Expiry State	Directory Service	Report	Verify
1	global	Global Master Policy	Yes	Never	n/a	Report	Verify
2	5-layer-test	5-layer-test	No	Never	NT Security Groups	Report	Verify
3	aaron	aarons home policy	Yes	Never	Local Database	Report	Verify

View/Download Report Logs

Two enhancements have been made to the *View/Download Report Logs* menu. The first enhancement is to the ContentKeeper *Current Internet Activity Report Log*, which now reflects the enhancements to the *Current Internet Activity Report* by replacing the *TCP Port* data in column two with URL categorisation data and replacing the *Live Filter Flag* data in column six with *Block Mode* data.

The second enhancement is to the *Report Log Column Definition* table, which now reflects the enhancements to the *Current Internet Activity Report Log* through changes to the definitions of column2 two and six.

Column	Name	Description
1	Time	Time record was logged. Value is seconds since epoch (1st Jan 1970).
2	Category	-1=Unclassified, 1-32 System Categories, > 32 Custom Categories
3	IP Address	IP Address of workstation that URL was downloaded from.
4	Resolved IP Address	This could be 'null', 'DNS name Lookup', 'BIOS name Lookup' or 'UserName'
5	Bytes	Size in bytes of URL downloaded.
6	Block Mode	1=Allow, 2=Block, 3=Coach, 4=Authentication
7	Content Type	Content Type of URL Downloaded
8	Url	URL Accessed.

Change Administration Password

The *Change Administration Password* menu has been replaced with the *Administration Accounts* menu. The ContentKeeper *Web Interface* admin password may now be changed from the new *Administration Accounts* menu.

ContentKeeper Administration Accounts			
Username	Password	Password Again	Access Control
admin	*****	*****	Settings

ContentKeeper Mail

The new solution to all your email filtering needs. Visit www.contentkeeper.com for more information.

Webalizer Reports

The *Webalizer Reports* menu item has been moved to the *Blocking/Reporting* menu in the ContentKeeper *Web Interface*. The new location of the *Webalizer Reports* menu is indicated in the following diagram.

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 Mail	ContentKeeper Backups	Appliance Configuration Settings
View/Download Report Logs		Audit Trail	Log Offloader
Dynamic Activity Viewer			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
Bandwidth Savings Report	Username Resolution	Bridge Device Settings	LDAP/eDirectory Groups
Webalizer Reports	Live Filtering Settings	Master/Slave Setup	
Advanced Reporting Module			

Category Aliases

The *Category Aliases* menu has been moved to the *Miscellaneous* menu in the ContentKeeper *Web Interface*. The new location of the *Category Aliases* menu is indicated in the following diagram.

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 Mail	ContentKeeper Backups	Appliance Configuration Settings
View/Download Report Logs		Audit Trail	Log Offloader
Dynamic Activity Viewer			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
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Webalizer Reports	Live Filtering Settings	Master/Slave Setup	
Advanced Reporting Module			