

LANCOM Content Filter Option

- Handbuch
- Manual



LANCOM Content-Filter



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Wuerselen, May 2010

Preface

Thank you for your confidence in us!

The LANCOM Content-Filter acts to filter out Internet websites with undesirable content. It enables you to allow or forbid access to certain website pages and to carry out checks on the content of an online server according to predefined categories.



The use of the LANCOM Content-Filter Option may in certain countries be subject to certain restrictions by data-privacy laws or directives, and/or to company guidelines. Before activating the LANCOM Content-Filter Option, please be sure to check the relevant laws, directives or agreements.

Security settings

To maximize the security available from your product, we recommend that you undertake all of the security settings (e.g. firewall, encryption, access protection) that were not already activated when you purchased the product. The LANconfig Wizard 'Security Settings' will help you with this task. Further information is also available in the chapter 'Security Settings'.

We would additionally like to ask you to refer to our Internet site www.lancom.eu for the latest information about your product and technical developments, and also to download our latest software versions.

This documentation was created by ...

... several members of our staff from a variety of departments in order to ensure you the best possible support when using your LANCOM product.

Should you find any errors, or if you would like to suggest improvements, please do not hesitate to send an e-mail directly to:

info@lancom.eu



Our online services www.lancom.eu are available to you around the clock if you have any questions on the content in this manual, or if you require any further support. The area 'Support' will help you with many answers to frequently asked questions (FAQs). Furthermore, the knowledgebase offers you a large reserve of information. The latest drivers, firmware, utilities and documentation are constantly available for download.

In addition, LANCOM Support is available. For telephone numbers

■ Preface

and contact addresses for LANCOM Support, please refer to the enclosed leaflet or the LANCOM Systems Web site.

Information symbols				
(})	Very important instructions. Failure to observe these may result in damage.			
(!)	Important instruction that should be observed.			
i	Additional information that may be helpful but is not essential.			

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1 Activating the LANCOM Content-Filter Option

This brief chapter informs you how to activate the LANCOM Content-Filter Option on your LANCOM. Activation takes place in four steps:

- 1) Ensuring that the prerequisites for installation are fulfilled
- Online registration
- 3 Entry of the activating code
- 4 Checking the activation

1.1 Prerequisites for installation



The use of the LANCOM Content-Filter Option may in certain countries be subject to certain restrictions by data-privacy laws or directives, and/or to company guidelines. Before activating the LANCOM Content-Filter Option, please be sure to check the relevant laws, directives or agreements.

1.1.1 System requirements

Please ensure that you have met all of the requirements to successfully operate the LANCOM Content-Filter Option:

- LANCOM device with the option of activating the LANCOM Content-Filter Option.
- Proof of license for the LANCOM Content-Filter Option.

1.1.2 Package content

Please ensure that the Option package includes the following components:

- Proof of license with a printed license number
- Manual

1.1.3 Configuration computer with the Windows operating system

To install the LANCOM Content-Filter Option with LANconfig, you require a computer with the Windows operating system. Alternatively, activation can be performed via WEBconfig.

The computer must have access to the LANCOM device that is to be configured. Access may be via the LAN or via remote access.

1.1.4 Up-to-date LANconfig

The latest version of LANconfig and LANmonitor are available for download from the LANCOM Systems homepage under www.lancom.eu/download/. We recommend that you update these programs before continuing to the installation.

1.1.5 Up-to-date firmware in the LANCOM

The latest firmware updates are available for download from the LANCOM Systems Web site under www.lancom.eu/download/. Select your device from the list and download the firmware onto your computer.



Detailed information about updating the firmware is available in the documentation for your LANCOM device.

1.2 Online registration

To activate the LANCOM Content-Filter Option in the LANCOM you need an activation code.



Please note: The activation code is not included in the package. It will be sent to you on online registration.

The LANCOM Content-Filter Option is supplied with a proof of license. This has a license number printed on it. This license number gives you one opportunity to register with LANCOM Systems and to receive an activation code.



After successful online registration, the license number of your LANCOM Content-Filter Option becomes invalid. The activation code that is sent to you can only be used with the LANCOM device as identified by the serial number which you provided at registration. Please ensure that you only want to install the LANCOM Content-Filter Option on the corresponding device. It is not possible to change to another device at a later date.

Necessary registration information

Please have the following information at the ready for your online registration:

Precise designation of the software option

- The license number (from the proof of license)
- Serial number of your LANCOM (to be found on the underside of the device)
- Your customer data (company, name, postal address, e-mail address).



Registration is anonymous and can be completed without specifying personal data. Any additional information may be of help to us in case of service and support. All information is of course treated in the strictest confidence.

Online entry of registration information

- ① Start a web browser and access the LANCOM Systems web site under www.lancom.eu/routeroptions.
- ② Enter the information as required and follow the instructions that follow. After entering all of the data, you will be sent the activation code for your device and your customer data. If you submit an e-mail address you will receive the data including the activation code via e-mail. Online registration is now complete.



Make sure you store your activation code safely! You may need it at a later date to activate your LANCOM Content-Filter Option again, for example after a repair.

Help in case of problems

If you have problems with registering your software option, please contact us by e-mail at optionsupport@lancom.de.

1.3 Activating the LANCOM Content-Filter Option

Activating the LANCOM Content-Filter Option is very simple.

- In LANconfig, mark the appropriate device (simply click on the entry with your mouse) and select the menu item Device Activate software option. Alternatively, click on the entry for the device with the right-hand mouse key and select Activate software option from the context menu.
- Under WEBconfig you select the menu command Extras ➤ Enable software option.

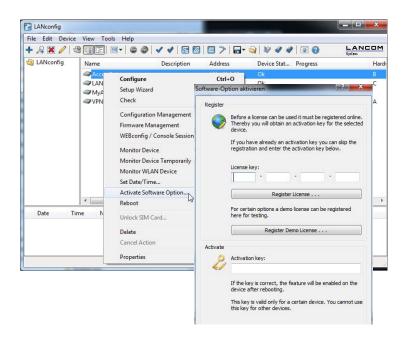
In the following window, enter the activation code that you received with your online registration. The device will then restart automatically.

■ When using the command line interface (e.g. Telnet), enter the command **feature** followed by the activation key:

Feature <activation key>

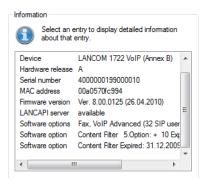
i Pl

Please be aware that activating the LANCOM Content-Filter Option is valid only for a certain time period. You can have an e-mail sent to you in good time before the license expires (WEBconfig: LCOS menu tree Setup Config License expiry e-mail).



1.4 Checking the activation

You can check if the online activation of your LANCOM Content-Filter Option was successful by selecting the device in LANconfig and selecting the menu item **Device Properties**. The properties windows contains a tab named 'Info' that lists the activated software options.



If activation was successful, you can continue by configuring the LANCOM Content-Filter.

2 Configuring the LANCOM Content Filter

2.1 Introduction

The LANCOM Content Filter enables you to filter certain content from your network, so preventing access to Internet pages with content that is illegal, dangerous or offensive. It also enables you to stop private surfing on specific sites during working hours. This not only increases staff productivity and network security but also ensures that the full bandwidth is available exclusively for your business activities.

The LANCOM Content Filter is an intelligent content filter that works dynamically. It contacts a rating server that evaluates Internet sites reliably and accurately in accordance with the categories that you select.

The LANCOM Content Filter operates by checking the IP addresses behind the URLs that are entered. For any given domain it is possible to differentiate according to the path, meaning that specific areas of a URL may be rated differently.



It is not possible for users to avoid the LANCOM Content Filter website rating by entering the website's IP address into their browsers.

The LANCOM Content Filter checks only unencrypted websites via HTTP.

The LANCOM Content Filter license you purchase is valid for a certain number of users and for a specific period (for one or three years). You will be informed of the expiry of your license in good time. The number of current users is monitored in the device, with the users being identified by their IP address. You can configure what should happen when the number of licensed users is exceeded: Access can either be denied or an unchecked connection can be made.



You can test the LANCOM Content Filter on any router that supports this function. All you have to do is to activate a 30-day demo license for each device. Demo licenses are generated directly with LANconfig. Click on the device with the right-hand mouse key and select the context menu entry **Activate software option**. In the dialog that follows, click on the button **Demo license**. You will automatically be connected to the website for the LANCOM registration server. Simply select the required demo license and you can register your device.



All settings relating to categories are stored in category profiles. You select from predefined main and sub-categories in the LANCOM Content Filter: 58 categories are divided into 14 subject groups such as "Pornography, Nudity", "Shopping" or "Illegal Activities". You can activate or deactivate each of the categories in these groups. Sub-categories for "Pornography/Nudity" are, for example, "Pornography/Erotic/Sex" and "Swimwear/Lingerie".

When configuring these categories, administrators have an additional option of activating an override. When the override option is active, users may still access the forbidden site for a particular period of time by clicking on a corresponding button, but the administrator will be notified of this by e-mail, syslog, or SNMP trap.

The category profile, whitelist and blacklist can be used to create a content filter profile that you can assign to particular users by means of the firewall. For example you can create a profile called "Employees_department_A" and assign this to all of the computers in that department.

When you install the LANCOM Content Filter, basic default settings are created automatically. These only need to be activated for the initial start. You can subsequently customize the behavior of the LANCOM Content Filter to match your own requirements.

2.2 Requirements for using the LANCOM Content Filter

The following requirements must be met before you can use the LANCOM Content Filter:

- 1 The firewall must be activated and an appropriate firewall rule must select the content filter profile.
- 2 The content filter profile must specify a category profile and if desired a whitelist and or blacklist for each part of the day. A content filter profile can consist of several different entries to provide different levels of protection during different parts of the day.

If a certain part of the day is not covered by an entry, access to websites will go unchecked for this period.



If the content filter profile is subsequently renamed, the firewall must also be modified.

2.3 Quick start

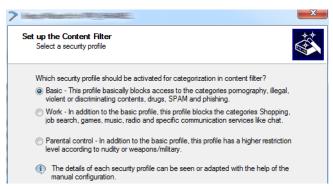
After installing the LANCOM Content Filter, all the settings have been made to get it up and running quickly.



The operation of the LANCOM Content Filter may be restricted by your country's data protection regulations or by company guidelines. Please check any regulations that may apply before putting the system into operation.

You activate the LANCOM Content Filter by:

- 1 Start the Setup Wizard for the device.
- 2 Select the Setup Wizard for configuring the Content Filter.



- 3 Select one of the pre-defined security profiles (basic, work, parental control):
 - Basic: This profile mainly blocks access to the categories pornography, illegal, violent or discriminatory content, drugs, SPAM and phishing
 - Work: In addition to the settings for the basic profile, this profile also blocks the categories shopping, job search, gaming, music, radio and certain communications services such as chat.
 - Parental-control: In addition to the settings for the basic profile, this profile also blocks nudity and weapons/military.

Should the firewall be deactivated, the Wizard will switch the firewall on. The Wizard then checks if the firewall rule is set correctly for the content filter and, if necessary, will take corrective measures. After activating the Content Filter with the steps outlined above, all stations in the network are being filtered according to the settings of the selected content-filter profile and the as-yet empty blacklist and whitelist. You can adapt these settings for your purposes, if necessary.

2.4 Default settings in LANCOM Content Filter

The following elements have been created in the default configuration of the LANCOM Content Filter:

- A firewall rule
- Three firewall action objects
- Three content filter profiles
- Two timeframes
- A blacklist

- Chapter 2: Configuring the LANCOM Content Filter
 - A whitelist
 - Three category profiles

Firewall rule

The preset firewall rule is named CONTENT-FILTER and uses the action object CONTENT-FILTER-BASIC.



The firewall rule is not created automatically if the LANCOM Content Filter is installed on a device that has been configured already. The rule must be added manually. This firewall rule must include one of the action objects that are pre-defined for the Content Filter.

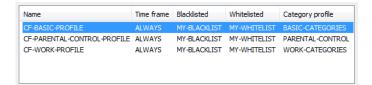
Firewall action objects

There are three firewall action objects: CONTENT-FILTER-BASIC, CONTENT-FILTER-WORK and CONTENT-FILTER-PARENTAL-CONTROL. These action objects work with the corresponding content-filter profiles.

Content filter profiles

There are three content filter profiles. All content-filter profiles use the timeframe ALWAYS, the blacklist MY-BLACKLIST and the whitelist MY-WHITELIST. Each content-filter profile uses one of the predefined category profiles:

- CF-BASIC-PROFILE: This content-filter profile features a low level of restrictions and works with the category profile BASIC-CATEGORIES.
- CF-PARENTAL-CONTROL-PROFILE: This content-filter profile protects minors (e.g. trainees) from unsuitable Internet content, and it works with the category profile PARENTAL-CONTROL.
- CF-WORK-PROFILE: This content-filter profile is intended for companies wishing to place restrictions on categories such as Job Search or Chat. It works with the category profile WORK-CATEGORIES.



Timeframe

There are two predefined timeframes:

ALWAYS: 00.00-23.59 hrsNEVER: 00.00-0.00 hrs

Blacklist

The preset blacklist is named "MY-BLACKLIST" and it is empty. Here you can optionally enter URLs which are to be forbidden.

Whitelist

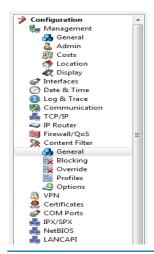
The preset whitelist is named "MY-WHITELIST" and it is empty. Here you can optionally enter URLs which are to be allowed.

Category profiles

There are three category profiles: BASIC-CATEGORIES, WORK-CATEGORIES and PARENTAL-CONTROL. The category profile specifies the categories which are to be allowed and forbidden, and for which one an override can be activated.

3 Advanced configuration of the LANCOM Content Filter with LANconfig

The program LANconfig contains a special menu to configure the content filter.





The operation of the LANCOM Content Filter may be restricted by your country's data protection regulations or by company guidelines. Please check any regulations that may apply before putting the system into operation.

3.1 General settings

Global settings for the LANCOM Content Filter are made here:



LANconfig: Content-Filter > General

WEBconfig: LCOS menu tree ► Setup ► UTM ► Content-Filter ► Global-Settings

Operating

This is where you can activate the LANCOM Content Filter.

Action-on-Error:

This is where you can determine what should happen when an error occurs. For example, if the rating server cannot be contacted, this settings either allows the user to surf without restrictions or access to the entire web is blocked.

Possible values:

□ Block, Pass

Default:

□ Block

Action-on-License-Exceedance:

This is where you can determine what should happen when the licensed number of users is exceeded. Users are identified by their IP address. The system keeps count of the IP addresses that connect via the LANCOM Content Filter. When the eleventh user establishes a connection with a 10-user license, no further checking is performed by the LANCOM Content Filter. Depending on this setting, the unlicensed user can either surf the web without restrictions, or access to the entire web is blocked.

Possible values:

□ Block, Pass

Default:

□ Block



The users of the content filter are automatically removed from the user list when no connection has been made from the IP address concerned via the content filter for 24 hours.

Action- on- License- Expiration:

The license to use the LANCOM Content Filter is valid for a certain period. You will be reminded of the license expiry date 30 days, one week and one day before it actually expires (at the e-mail address configured in LANconfig: Log & Trace > General).

This is where you can specify what should happen when the license expires (i.e. block everything or allow everything through). After the license used expires, this setting either allows the user to surf the web without restrictions, or access to the entire web is blocked.

Possible values:

□ Block, Pass

Default:

□ Block

Max. proxy connections

The maximum number of concurrent proxy connections can be configured here. The system load can be limited therewith. A notification is triggered if this limit will be exceeded. If the maximum number set here is exceeded, then the event defined for the proxy limit will be applied.

Possible values:

□ 0 to 999999 connections

Default:

device dependent

Proxy processing timeout

The time taken to check the URL can be limited. If the time set here is exceeded while the URL is being checked, then the event defined for errors will be applied.

Possible values:

Max. 9999 milliseconds

Default:

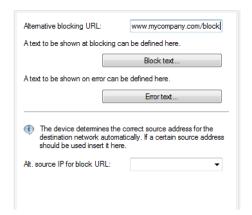
- Chapter 3: Advanced configuration of the LANCOM Content Filter with LANconfig
 - □ 3000 milliseconds

Special values:

 The value 0 means unlimited timeout. Values smaller than 100 milliseconds are not reasonable.

3.2 Settings for blocking

You adjust the website-blocking settings here:



LANconfig: Content-Filter > Blocking

WEBconfig: LCOS menu tree ► Setup ► UTM ► Content-Filter ► Global-Settings

URL-To-Show-On-Blocking:

This is where you can enter the address of an alternative URL. If access is blocked, the URL entered here will be displayed instead of the requested website. You can use this external HTML page to display your company's corporate design, for example, or to perform functions such as JavaScript routines, etc. You can also use the same HTML tags here as in blocking text. If you do not make any entry here, the default page stored in the device will be displayed..

Possible values:

□ Valid URI address

Default:

□ Blank

Alt. source IP for block URL:

This is where you can configure an optional sender address to be used instead of the one that would normally be automatically selected for this target address. If you have configured loopback addresses you can specify them here as sender address.

Possible values:

- □ Name of the IP networks whose address should be used
- □ "INT" for the address of the first intranet
- □ "DMZ" for the address of the first DMZ (caution: If there is an interface called "DMZ", its address will be taken in this case)
- □ LB0 ... LBF for the 16 loopback addresses
- □ GUEST
- Any IP address in the form x.x.x.x

Default:

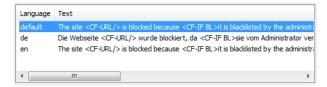
□ Blank



The sender address specified here is used unmasked for every remote station.

3.2.1 Block-Text

This is where you can define text to be displayed when blocking occurs. Different blocking texts can be defined for different languages. The display of blocking text is controlled by the language setting transmitted by the browser (user agent).



Language

Entering the appropriate country code here ensures that users receive all messages in their browser's preset language. If the country code set in the browser is found here, the matching text will be displayed.

You can add any other language.

Examples of the country code: □ de-DE: German-Germany de-CH: German-Switzerland de-AT: German-Austria en-GB: English-Great Britain en-US: English-USA The country code must match the browser language setting exactly, e,g, "de-DE" must be entered for German ("de" on its own is not sufficient). If the country code set in the browser is not found in this table, or if the text stored under that country code is deleted, the predefined default text ("default") will be used. You can modify the default text. Possible values: □ 10 alphanumerical characters Default: □ Blank Text Enter the text that you wish to use as blocking text for this language. Possible values: 254 alphanumerical characters Default: □ Blank Special values: You can also use special tags for blocking text if you wish to display different pages depending on the reason why the website was blocked (e.g. forbidden category or entry in the blacklist). The following tags can be used as tag values: <CF-URL/> for a forbidden URL <CF-CATEGORIES/> for the list of categories why the website was blocked <CF-PROFILE/> for the profile name <CF-OVERRIDEURL/> for the URL used to activate the URL (this can be integrated in a simple <a> tag or in a button)

- Chapter 3: Advanced configuration of the LANCOM Content Filter with LANconfig
 - <CF-LINK/> adds a link for activating the override
 - CF-BUTTON/> for a button for activating the override

You can use a tag with attributes to display or hide parts of the HTML document: <CF-IF att1 att2> ... </CF-IF>.

Possible attributes are:

- BLACKLIST: If the site was blocked because it is in the profile blacklist
- ☐ CATEGORY: If the site was blocked due to one of its categories
- ERR: If an error has occurred.
 - Since there are separate text tables for the blocking page and the error page, this tag only makes sense if you have configured an alternative URL to show on blocking.
- OVERRIDEOK: If users have been allowed an override (in this case, the page should display an appropriate button)

If several attributes are defined in one tag, the section will be displayed if at least one of these conditions is met. All tags and attributes can be abbreviated to the first two letters (e.g. CF-CA or CF-IF BL). This is necessary as the blocking text may only contain a maximum of 254 characters.

Example:

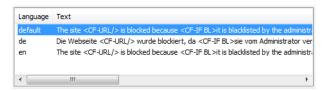
<CF-URL/> is blocked because it matches the categories <CF-CA/ >.
br>Your content profile is <CF-PR/>.
br><CF-IF



The tags described here can also be used in external HTML pages (alternative URLs to show on blocking).

3.2.2 Error-Text

This is where you can define text to be displayed when an error occurs.



Language

This item offers the same settings as described under 'Language' →Page 18 above.

Text

Enter the text that you wish to use as error text for this language.

Possible values:

254 alphanumerical characters

Default:

□ Blank

Special values:

You can also use HTML tags for the error text.

The following empty element tags can be used as tag values:

- <CF-URL/> for a forbidden URL
- <CF-PROFILE/> for the profile name
- □ <CF-ERROR/> for the error message
- Example:

<CF-URL/> is blocked because an error has occurred:
cF-ERROR/>

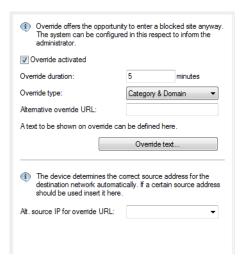
3.3 Override settings

The override function allows a website to be accessed even though it is classified as forbidden. The user must click on the override button to confirm that the forbidden page should be opened. You can configure this feature so that the administrator is notified when the override button is clicked (LANconfig: Content-Filter > Global-Settings).



If the override type "Category" has been activated, clicking on the override button makes **all** of the categories for that URL accessible to the user The next blocking page to be displayed has just one category explaining why access to the URL was blocked. After clicking on the override button, all of the allowed categories are displayed. If the override type "Domain" has been activated, then the entire domain can be accessed.

The settings for the override function are to be found here:



LANconfig: Content-Filter > Override

WEBconfig: LCOS menu tree ► Setup ► UTM ► Content-Filter ► Global-Settings

Override-Active

This is where you can activate the override function and make further related settings.

Override-Duration

The override duration can be restricted here. When the period expires, any attempt to access the same domain and/or category will be blocked again. Clicking on the override button once more allows the website to be accessed again for the duration of the override and, depending on the settings, the administrator will be notified once more.

Possible values:

1-1440 (minutes)

Default:

□ 5 (minutes)

Override-Type:

This is where you can set the type of override. It can be allowed for the domain, for the category of website to be blocked, or for both.

Possible values:

- Category: For the duration of the override, all URLs are allowed that fall under the affected categories (as well as those which would already have been allowed even without the override).
- □ Domain: For the duration of the override all URLs in this domain are allowed, irrespective of the categories they belong to.
- □ Category-and-Domain: For the duration of the override, all URLs are allowed that belong to this domain and also to the allowed categories. This is the highest restriction.

Default:

□ Category-and-Domain

URL-To- Show- On- Override:

This is where you can enter the address of an alternative URL. In the event of an override, the URL entered here will be displayed instead of the usual website. You can use this external HTML page to display your company's corporate design, for example, or to perform functions such as JavaScript routines, etc. You can also use the same tags here as in the override text. If you do not make any entry here, the default page stored in the device will be displayed..

Possible values:

Valid URL address

Default:

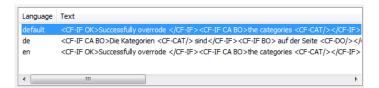
□ Blank

Override sender IP address:

This item offers the same settings as under 'Alt. source IP for block URL:' \rightarrow Page 18.

3.3.1 Override text

This is where you can define text that is displayed to users confirming an override.



Language

This item offers the same settings as described under 'Language' →Page 18 above.

Text

Enter the text that you wish to use as override text for this language.

Possible values:

254 alphanumerical characters

Default:

□ Blank

Special values:

You can also use HTML tags for blocking text if you wish to display different pages depending on the reason why the website was blocked (e.g. forbidden category or entry in the blacklist).

The following tags can be used as tag values:

- CF-URL/> for the originally forbidden URL that is now allowed
- <CF-CATEGORIES/> for the list of categories that have now been allowed as a result of the override (except if domain override is specified).
- <CF-BUTTON/> displays an override button that forwards the browser to the original URL.
- <CF-BUTTON/> displays an override link that forwards the browser to the original URL.
- <CF-HOST/> or <CF-DOMAIN/> displays the host or the domain for the allowed URL. The tags are of equal value and their use is optional.
- <CF-ERROR/> generates an error message in the event that the override fails.
- □ <CF-DURATION/> displays the override duration in minutes.

You can use a tag with attributes to display or hide parts of the HTML document: <CF-IF att1 att2> ... </CF-IF>.

Attributes can be:

- CATEGORY when the override type is "Category" and the override was successful
- DOMAIN when the override type is "Domain" and the override was successful

- BOTH when the override type is "Category-and-Domain" and the override was successful
- ☐ FRROR when the override fails
- □ OK if either CATEGORY or DOMAIN or BOTH are applicable

If several attributes are defined in one tag, the section should be displayed if at least one of these conditions is met. All tags and attributes can be abbreviated to the first two letters (e.g. CF-CA or CF-IF BL). This is necessary as the blocking text may only contain a maximum of 254 characters.

Example:

<CF-IF CA BO>Categories <CF-CAT/> are </CF-IF><CF-IF BO> in domain <CF-DO/></CF-IF><CF-IF DO>. Access to domain <CF-DO/> is allowed for </CF-IF><CF-IF OK> fauuml;r <CF-DU/> minutes. </cf-IF></cf-IF> <a

3.4 Profiles in the LANCOM Content Filter

This is where you can create content filter profiles that are used to check websites for prohibited content. A content filter profile always has a name and, for various time periods, it activates the desired category profile and, optionally, a blacklist and a whitelist.

In order to provide different configurations for the various timeframes, several content-filter profile entries are created with the same name. The content filter profile is thus made up of the sum of all entries with the same name.

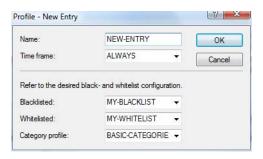
The firewall refers to this content-filter profile.



Please note that you must make corresponding settings in the firewall in order to use the profiles in the LANCOM Content Filter.

3.4.1 Profiles

The settings for the profiles are to be found here:



LANconfig: Content-Filter ➤ Profiles ➤ Profiles

WEBconfig: LCOS menu tree ► Setup ► UTM ► Content-Filter ► Profiles ► Profiles

Name

The profile name that the firewall references must be specified here.

Possible values:

Name of a profile

Default:

□ Rlank

Timeframe

Select the timeframe for this category profile and, optionally, the blacklist and the whitelist. The timeframes "ALWAYS" and "NEVER" are predefined. You can configure other timeframes under:

LANconfig: Date/Time ➤ General ➤ Timeframe

WEBconfig: LCOS menu tree ➤ Setup ➤ Time ➤ Timeframe

One profile may have several lines with different timeframes.

Possible values:

- □ Always
- Never
- □ Name of a timeframe profile

Default:

□ Blank



If timeframes overlap when multiple entries are used for a content filter profile, all pages contained in one of the active entries will be blocked for that period of time. If a period remains undefined when several entries are used for a content filter profile, access to all websites is unchecked for this period.

Blacklist

Name of the blacklist profile that is to apply for this content filter profile during the period in question. A new name can be entered, or an existing name can be selected from the blacklist table.

Possible values:			
□ Name of a blacklist profile			
□ New name			
Default:			
□ Blank			
\A/ a:4.a :.a4			

Whitelist

Name of the whitelist profile that is to apply for this content filter profile during the period in question. A new name can be entered, or an existing name can be selected from the whitelist table.

Possible values:

Name of a whitelist profile

New name

Default:

Blank

Category-Profile

Name of the category profile that is to apply for this content filter profile during the period in question. A new name can be entered, or an existing name can be selected from the category table.

Possible values:

Name of a category profile

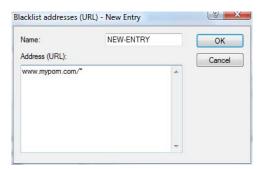
New name

Default:

Blank

3.4.2 Blacklist addresses (URL)

This is where you can configure websites which are to be blocked.



LANconfig: Content-Filter ▶ Profiles ▶ Blacklist addresses (URL)

WEBconfig: LCOS menu tree ► Setup ► UTM ► Content-Filter ► Profiles ► Blacklists

Name

Enter the name of the blacklist for referencing from the content-filter profile.

Possible values:

Blacklist name

Default:

□ Blank

Address (URL)

Access to the URLs entered here will be forbidden by the blacklist.

Possible values:

Valid URL address

The following wildcard characters may be used:

- * for any combination of more than one character (e.g. www.lancom.* encompasses the websites www.lancom.de, www.lancom.eu, www.lancom.es, etc.)
- □ ? * for any one character (e.g. www.lancom.e* encompasses the websites www.lancom.eu, www.lancom.es)



Please enter the URL **without** the leading http://. Please note that in the case of many URLs a forward slash is automatically added as a

suffix to the URL, e.g. www.mycompany.de/ . For this reason it is advisable to enter the URL as: www.mycompany.de* .

Individual URLs are separated by a blank.

Default:

□ Blank

3.4.3 Whitelist addresses (URL)

This is where you can configure websites to which access is to be allowed.



LANconfig: Content-Filter ➤ Profiles ➤ Whitelist addresses (URL)

WEBconfig: LCOS menu tree ► Setup ► UTM ► Content-Filter ► Profiles ► Whitelists

Name

Enter the name of the whitelist for referencing from the content-filter profile.

Possible values:

□ Name of a whitelist

Default:

□ Blank

Addresses (URL)

This is where you can configure websites which are to be checked locally and then accepted.

Possible values:

Valid URL address

The following wildcard characters may be used:

- * for any combination of more than one character (e.g. www.lancom.* encompasses the websites www.lancom.de, www.lancom.eu, www.lancom.es, etc.)
- □ ? * for any one character (e.g. www.lancom.e* encompasses the websites www.lancom.eu, www.lancom.es)



Please enter the URL **without** the leading http://. Please note that in the case of many URLs a forward slash is automatically added as a suffix to the URL, e.g. www.mycompany.de/ . For this reason it is advisable to enter the URL as: www.mycompany.de* .

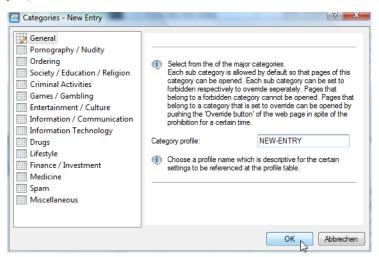
Individual URLs are separated by a blank.

Default:

□ Blank

3.4.4 Category-Profiles

Here you create a category profile and determine which categories or groups should be used to rate websites for each category profile. You can allow or forbid the individual categories or activate the override function for each group.



LANconfig: Content-Filter ➤ Profiles ➤ Categories

WEBconfig: LCOS menu tree ► Setup ► UTM ► Content-Filter ► Profiles ► Category-Profiles

Category profile

The name of the category profile for referencing from the content-filter profile is entered here.

Possible values:

□ Name of a category profile

Default:

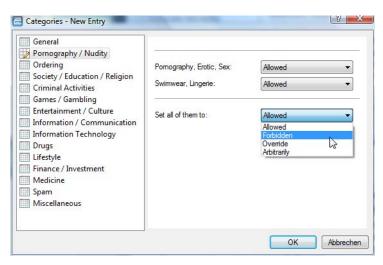
□ Blank

Category settings

For each main category and the associated sub-categories, it is possible to define whether the URLs are to be allowed, forbidden or allowed with override only.

The following main categories can be configured:

- Pornography/Nudity
- Shopping
- □ Society/Education/Religion
- Illegal Activities
- □ Games/Gaming
- Entertainment/Culture
- $\quad \ \Box \quad Information/Communication$
- □ Information Technology
- Drugs
- □ Lifestyle
- ☐ Finance/Investment
- Medicine
- □ Spam
- Miscellaneous



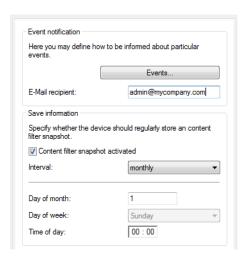
The category profile must subsequently be assigned to a content-filter profile (together with a timeframe) to become active.

Possible values:

- □ Allowed, forbidden, override
- Default:
- Allowed

3.5 Options with the LANCOM Content Filter

This is where you can determine whether you wish to be notified of events and where LANCOM Content Filter information is to be stored.



LANconfig: Content-Filter ► Options

WEBconfig: LCOS menu tree ► Setup ► UTM ► Content-Filter ► Global-Settings

Events:

This is where you define how you wish to receive notification of specific events. Notification can be made by e-mail, SNMP or SYSLOG. You can specify that messages for different events should be output in different ways.

Error:

- ☐ For SYSLOG: Source "System", priority "Alarm".
- Default: SNMP notification

License expiration:

- ☐ For SYSLOG: Source "Admin", priority "Alarm".
- Default: SNMP notification

License exceeded:

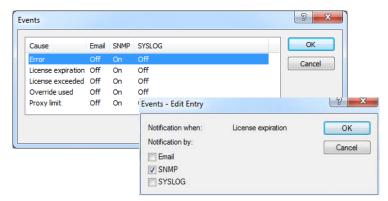
- ☐ For SYSLOG: Source "Admin", priority "Alarm".
- Default: SNMP notification

Override applied:

- For SYSLOG: Source "Router", priority "Alarm".
- Default: SNMP notification

Proxy Limit:

- For SYSLOG: Source "Admin", priority "Info".
- Default: SNMP notification



E-mail recipient:

An SMTP client must be defined if you wish to use the e-mail notification function. You can use the client in the device, or another client of your choice.



No e-mail will be sent if no e-mail recipient is defined,.

Content-Filter-Snapshot

This is where you can activate the content filter snapshot and determine when and how often it should be taken. The snapshot copies the category statistics table to the last snapshot table, overwriting the old contents of the snapshot table. The category statistics values are then reset to 0.

Interval

Here you decide whether the snapshot should be taken monthly, weekly or daily.

Possible values:

- Monthly
- □ Weekly
- Daily

Default:

Monthly

Day of month:

For monthly snapshots, set the day of the month when the snapshot should be taken.

Possible values:

Max. 2 characters

Default:

□ 1



It is advisable to select a number between 1 and 28 in order to ensure that it occurs every month.

Weekday:

For weekly snapshots, set the day of the week when the snapshot should be taken.

Possible values:

Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday
 Default:

Monday

Time:

If you require a daily snapshot, then enter here the time of day for the snapshot in hours and minutes.

Possible values:

Maximum 5 characters, format HH:MM

Default:

00:00

3.6 Additional settings for the LANCOM Content Filter

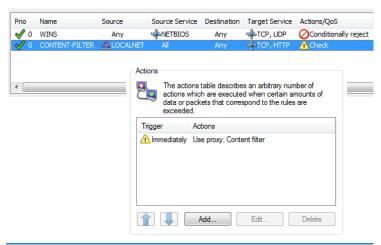
3.6.1 Firewall settings for the content filter

The firewall must be activated in order for the LANCOM Content Filter to function. You can activate the firewall under:

LANconfig: Firewall/QoS ➤ General

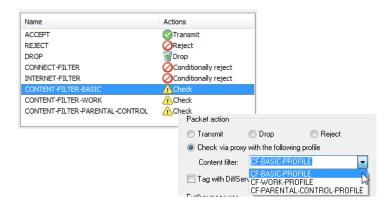
WEBconfig: LCOS menu tree ➤ Setup ➤ IP-Router ➤ Firewall

In the default configuration, you will find the firewall rule CONTENT-FILTER that refers to the action object CONTENT-FILTER-BASIC:



The firewall rule should be limited to the target service "http" so that only outgoing HTTP connections are examined. Without this restriction all packets will be checked by the content filter, which could lead to a loss of system performance.

A content-filter related firewall rule must contain a special action object that uses packet actions to check the data according to a content-filter profile. In the default configuration you will find the action objects CONTENT-FILTER-BASIC, CONTENT-FILTER-WORK and CONTENT-FILTER-PARENTAL-CONTROL, each of which refer to their corresponding content-filter profile:



Example: When a web page is accessed, the data packets pass through the firewall and are processed by the rule CONTENT-FILTER. The action object CONTENT-FILTER-BASIC checks the data packets using the content-filter profile CONTENT-FILTER-BASIC.

3.6.2 Timeframe

Timeframes are used to define the periods when the content-filter profiles are valid. One profile may have several lines with different timeframes. Different lines in a timeframe should complement each other, i.e. if you specify WORKTIME you will probably wish to specify a timeframe called FREETIME to cover the time outside of working hours.

The timeframes "ALWAYS" and "NEVER" are predefined. You can configure other timeframes under:



LANconfig: Date/Time ► General ► Timeframe

WEBconfig: LCOS menu tree ➤ Setup ➤ Time ➤ Timeframe

Name

Enter the name of the timeframe for referencing from the content-filter profile.

Possible values:

Name of a timeframe

Default:

Blank

Start

Here you set the start time (time of day) when the selected profile becomes valid.

Possible values:

Maximum 5 characters, format HH:MM

Default:

00:00

Stop time

Here you set the stop time (time of day) when the selected profile ceases to be valid.

Possible values:

☐ Maximum 5 characters, format HH:MM

Default:

23:59

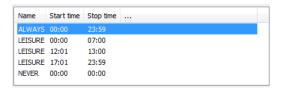
Weekdays

Here you select the weekday on which the timeframe is to be valid.

Possible values:

- ☐ Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday Default:
- Activated for Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday

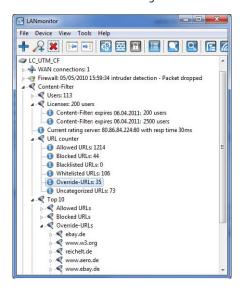
You can form a time schedule with the same name but with different times extending over several lines:



4 Status messages

4.1 LANmonitor

LANmonitor allows you to see the most important status messages from the LANCOM Content Filter at a glance.



4.1.1 Information displayed by LANCOM Content Filter in summary

LANmonitor shows the the following information about the LANCOM Content Filter:

- IP addresses and MAC addresses of the users
- LANCOM Content Filter license information
- Information on the currently used content-filter server
 - ☐ Used since: The time when the specified rating server was first used.
 - First response time: Time taken for the rating server to respond the first time.
 - URLs processed: Number of processed URLs.
 - Processing timeouts: Number of times that URL processing exceeded the timeout period.
 - ☐ Minimum processing time: Minimum time taken to process a URL.

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- ☐ Maximum processing time: Maximum time taken to process a URL, assuming this is less than the timeout value.
- ☐ Average processing time: Average time taken to process a URL.
- □ Average processing time (last 5 min.): The average time taken to process a URL in the last 5 minutes.
- Requests to rating server: Number of URL requests processed by the rating server.
- Rating server timeouts: Number of times that URL processing by the rating server exceeded the timeout period.
- ☐ Minimum rating server response time: Minimum time taken for the rating server to process a request.
- ☐ Maximum rating server response time: Maximum time taken for the rating server to process a request, assuming this is less than the timeout value.
- Average rating server response time: Average time taken for the rating server to process a request.
- □ Average rating server response time (last 5 min.): Average time taken for the rating server to process requests in the last 5 minutes.
- URL counter showing allowed URLs, blocked URLs, blacklisted and whitelisted URLs, override URLs and uncategorized URLs. (Only URLs without paths are counted).
- URL counter for blocked URLs, blacklisted URLs, whitelisted URLs, URLs accessed by override, uncategorized URLs.
- Top 10 allowed URLs, blocked URLs and URLs accessed using the override function. The category determined and the number of accesses are displayed.
- Cache use: Cache usage for categorizing URLs.
- Cache hit rate: Proportion of URL requests that were answered by the cache memory.

4.1.2 Detailed displays in LANCOM Content Filter

You can open two additional windows via the LANCOM Content Filter menu. Simply click on the entry "Content-Filter" with the right-hand mouse key and select the corresponding entry from the context menu.

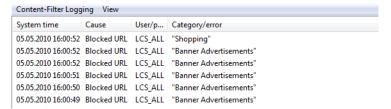
Displaying content filter category statistics

Content-Filter Categories View			
Category	Accesses	Accesses (%)	^
IT Security/IT Information	332	19,5	Ξ
Software/Hardware	309	18,2	
Architecture/Construction/Furniture	301	17,7	
Search Engines/Web Catalogs/Portals	291	17,1	
News/Magazines	152	8,9	
General Business	68	4,0	
Education	37	2,1	
Shopping	36	2,1	
Blogs/Bulletin Boards	34	2,0	
Communication Services	25	1,4	
Governmental/Non-Profit Organizations	18	1,0	+

This dialog displays the list of all categories with the number of blocked accesses to the content filter and the share of all accesses in percent.

You can use the **Content-Filter categories** menu to save the currently displayed values to a file or to load saved values for display in the LANmonitor.

Displaying the Content-Filter Log



This dialog displays the logged information for each individual access to the content filter with the following details:

- System time
- Cause of the log entry
- User/profile
- Category/Error
- URL called

You can reset (flush) the currently displayed values in the **Content-Filter Log** menu.

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4.1.3 Functions in LANmonitor

Additional functions are available for you to influence the LANmonitor display:

- Click with the right-hand mouse button on the URL counter entry in LANmonitor and select Reset URL counter to reset the values for this particular area to zero.
- Click on the right-hand mouse button on the Top-10 entry in LANmonitor and selectFlush Top-10 lists and cache to reset the values for this particular area to zero.

4.2 WEBconfig

Besides the status information displayed in LANmonitor you can access all status messages with WEBconfig under:

WEBconfig: LCOS menu tree ➤ Status ➤ UTM ➤ Content-Filter

The individual status messages are described below:

Uncategorized-URLs

Displays the number of websites accessed that are not assigned to a category.

Blacklisted-URLs

Displays the number of websites accessed that are on the blacklist.

Allowed-URLs

Number of websites that were accessed and which were allowed.

Error-Count

Displays the number of errors. An error can occur for example when the rating server cannot be contacted.

Blocked-URLs

Number of websites that were called and which were blocked.

License-Count

Number of licenses you have purchased. You can purchase additional licenses from your distributor.

Overridden-URLs

Number of websites accessed using the override function. You can set the override function to allow users to open a website following a prompt indicating that it is forbidden.

Whitelisted-URLs

Displays the number of websites accessed that are on the whitelist.

Cache-Flush

This option allows you to delete (flush) the cache and all Top-10 lists. The Cache-Current-Size is reset to 0 while the Cache-Maximum-Size remains unchanged.

Category-Statistics-Flush

This option allows you to delete (flush) the category statistics and the last snapshot.

Log-Flush

This option allows you to delete (flush) the log table and the override log.

Statistics-Flush

This option allows you to delete (flush) the statistics. The counters are reset to 0.

4.2.1 Users

The user table displays the IP address and the MAC address of all current users of the content filter.

IP address

Displays the user's IP address.

MAC address

Displays the user's MAC address.

4.2.2 Category statistics

The category statistics show all the categories and the number of websites assigned to these categories that have been called by a user.

Category

Name of the category in question.

Hits

Number of websites called that are assigned to the relevant category.

4.2.3 Last-Snapshot

The list of the last snapshot displays all categories and the number of websites assigned to these categories that have been called by a user. You can configure how often a snapshot is taken (see 'Options with the LANCOM

■ Chapter 4: Status messages

Content Filter' \rightarrow Page 32). The snapshot copies the category statistics table to the last snapshot table, overwriting the contents of the last snapshot table. The category statistics values are then reset to 0.

Category

Name of the category in question.

Hite

Number of websites called that are assigned to the relevant category.

4.2.4 Log

The log table displays the system time of the log, the cause for the log and additional information on the user profile, category or error and the URL.

System-time

Indicates the time of the log.

Cause

Indicates the cause of the log.

User/profile

The name of the user profile or the IP address of the user.

Category/Error

If the site was forbidden, the list of categories or the name of the blacklist that caused the website to be blocked is displayed here.

If the site could not be displayed due to an error, the cause of the error is indicated

When the number of licenses is exceeded, this entry indicates whether the site was blocked or allowed.

URL

The URL that the user wishes to access.

If the number of licenses is exceeded or if the license has expired, this entry remains empty.

4.2.5 Override-Log

Date/Time

Indicates the date and time of the override.

User-IP

Indicates the IP address of the user who performed the override.

User-MAC

Indicates the MAC address of the user who performed the override.

Target URL

Indicates the website for which the override was performed.

4.2.6 Cache

Cache-Current-Size

Indicates the current size of the cache. The cache stores the categorizations for the URLs that the evaluation server queries. There is one cache entry for each domain. The cache size influences how often the server needs to be queried.

Cache-Maximum-Size

This displays the maximum size of the cache. The cache stores the categorizations for the URLs that the evaluation server queries. There is one cache entry for each domain. The cache size influences how often the server needs to be queried.

Hit ratio in %

Proportion of URL requests that were answered by the cache memory.

Top-10-Allowed Hosts

This table lists the ten most frequently accessed websites from the whitelist.

Host

Indicates the host of the website.

Category

Indicates the category that the website is assigned to.

Hits

Number of allowed calls of this website.

Top-10-Blocked Hosts

This table lists the ten most frequent websites from the blacklist for which access attempts are made.

Host

Indicates the host of the website.

Category

Indicates the category that the website is assigned to.

■ Chapter 4: Status messages

Hits

Number of attempted calls of this website.

Top-10-Overidden-Hosts

This table lists the ten most frequently called websites accessed using the override function.

Host

Indicates the host of the website.

Category

Indicates the category that the website is assigned to.

Hits

Number of calls of this website that were allowed on the basis of an active override.

4.2.7 Performance

5min proc time

The average time taken to process a URL in the last 5 minutes.

5min serv time

Average time taken for the rating server to process requests in the last 5 minutes.

Ini serv time

Time taken for the rating server to respond the first time.

Used since

The time when the specified rating server was first used.

Proc URLs

Number of processed URLs.

Max proc time

Maximum time taken to process a URL, assuming this is less than the timeout value.

Max serv time

Maximum time taken for the rating server to process a request, assuming this is less than the timeout value.

Min proc time

Minimum time taken to process a URL.

Min serv time

Minimum time taken for the rating server to process a request.

Avg proc time

Average time taken to process a URL.

Avg serv time

Average time taken for the rating server to process a request.

Proc timeouts

Number of times that URL processing exceeded the timeout period.

Rating server

Indicates the current server that the content filter contacts and that rates the websites reliably and accurately in accordance with the categories you select.

Serv requests

Number of URL requests processed by the rating server.

Server timeouts

Number of times that URL processing by the rating server exceeded the timeout period.

Performance log

This table lists the above values for each rating server used. You can check the history of the rating server's performance.

4.2.8 Proxy connections

This menu contains information on the statistical values about the content filter's use of proxies.

Denied connection attempts

Number of connections not accepted by the content-filter proxy.

Current connections

Current number of active connections to the content-filter proxy.

Avg connections

The average number of connections to the content-filter proxy.

Total connections

The total number of connections to the content-filter proxy.

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Max connections

The maximum number of simultaneous connections to the content-filter proxy.

Proxy connections limit

The maximum allowed number of connections to the content-filter proxy.

5min avg connections

Number of connections to the content-filter proxy in the last 5 minutes.

Connection statistics since

The time when collection of the connection statistics started.

■ Chapter 5: Tutorial: Using multiple content filter profiles

5 Tutorial: Using multiple content filter profiles

This chapter shows how to use a number of content filter profiles to good effect and the settings that should be considered.

The LANCOM Content Filter allows you to configure several content filter profiles. You can use this option in order to create, for example, one content filter profile for your employees and another content filter profiles for trainees. When a company employs trainees under the age of eighteen this may not only be useful but also a legal requirement.

The following example describes the steps you should take to set up various content filter profiles for your employees and your trainees.

Activate the LANCOM Content Filter:

LANconfig: Content-Filter > General

WEBconfig: LCOS menu tree ► Setup ► UTM ► Content-Filter ► Operating Yes

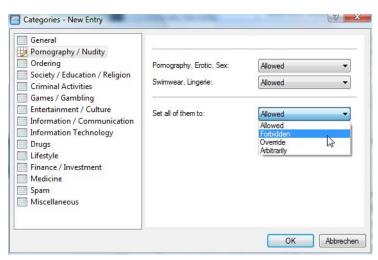
2 Create a content filter profile under:

LANconfig: Content-Filter ► Profiles

WEBconfig: LCOS menu tree ► Setup ► UTM ► Content-Filter ► Profiles ► Profiles

3 Create one or more category profiles under Category-Profiles and assign a name to them. For example, if you wish to allow or forbid your employees to access a different set of websites during working hours than in their free time, you could create the category profiles WORK_CATEGORIES and BASIC_CATEGORIES, for example. For your trainees, you can create the category profile TRAINEE_CATEGORIES, for example. You determine which categories or groups should be used to evaluate websites for each category profile. You can allow or forbid the individual categories or activate the override function for each of the 14 groups.

■ Chapter 5: Tutorial: Using multiple content filter profiles



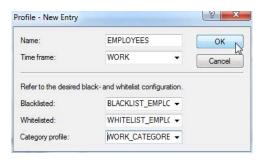
- 4 You then create your content filter profiles under Profiles. A content-filter profile assigns the relevant category profiles and optional blacklists and whitelists to different timeframes. The firewall refers to this content-filter profile.
- 5 Enter the Name EMPLOYEES for the content filter profile EMPLOYEES. Under Timeframe select the time when the category profile should apply, e.g. "ALWAYS". One profile may have several lines with different timeframes. The timeframes in different lines should supplement one another, i.e. if you define a timeframe for WORKTIME it makes sense to also specify a timeframe FREETIME. The timeframes "ALWAYS" and "NEVER" are predefined. You can configure further timeframes (e.g. for staff working time and free time) under:

LANconfig: Date/Time ➤ General ➤ Timeframe

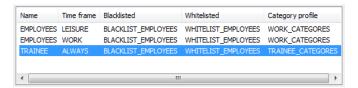
WEBconfig: LCOS menu tree ➤ Setup ➤ Time ➤ Timeframe

6 A blacklist or whitelist that you created previously can be selected under Blacklisted or Whitelisted, e.g. Blacklist_Employees and Whitelist_Employees. You can select the category profile that is to apply for this content filter profile in the selected timeframe under Category-Profiles, in this example EMPLOYEES. This completes the settings for the content filter profile EMPLOYEES in the content filter, and you can create further content filter profiles in the same way if needed.

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7 After you have created content filter profiles for your employees and for your trainees, the overview of content filter profiles could look like this:



If you have created different content filter profiles, you will have to modify the settings in the firewall (also see 'Firewall settings for the content filter' →Page 35).

8 A firewall rule must be created in the firewall for each content filter profile. An action object that selects the content-filter profile must be assigned to each firewall rule. One action object may be assigned to several firewall rules.

You can find the action object and the firewall rules under:

LANconfig: Firewall/QoS ► Rules

WEBconfig: LCOS menu tree ➤ Setup ➤ IP-Router ➤ Firewall

The example below shows the settings that you can make in the firewall for your content-filter profile EMPLOYEES:

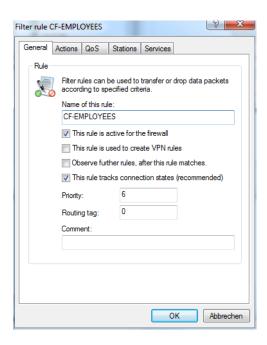
Add a new action object with the name "CONTENT FILTER EMPLOYEES" to the **Action-Objects** and, under Actions, assign it to the content-filter profile EMPLOYEES:

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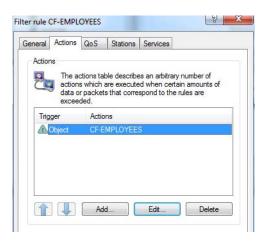


10 Define a rule for the action object CONTENT-FILTER-EMPLOYEES:

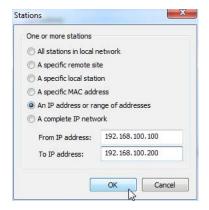
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Under Actions assign the action object CONTENT-FILTER-EMPLOYEES to the rule CF-EMPLOYEES:



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 - 2 You should now specify further details for the rule, e.g. whether the rule should apply to a certain IP range. To make this setting, click on **Stations** and specify a range of IP addresses to which this rule should apply.
 - These details in the firewall rule determine the criteria used to allocate users to a certain content-filter profile. The criteria you use here are those which enable you to differentiate between the various user groups.



This completes the settings for your content filter profile EMPLOYEES. You can configure your content filter profile TRAINEES in the same way.