

Content Filtering Policy Configuration Mode Commands

The Content Filtering Policy Configuration Mode allows you to configure analysis and action when Content Filtering (CF) matches a Content Filtering Category Policy Identifier.

Command Modes

Exec > ACS Configuration > CFP Configuration

active-charging service *service_name* **> content-filtering category policy-id** *cf_policy_id*

Entering the above command sequence results in the following prompt:

```
[local]host_name(config-acs-content-filtering-policy)#
```

Important The commands or keywords/variables that are available are dependent on platform type, product version, and installed license(s).

- analyze, on page 1
- discarded-flow-content-id, on page 6
- end, on page 7
- exit, on page 7
- failure-action, on page 7
- timeout action, on page 9

analyze

Specifies the action to take for the indicated result after content filtering analysis.

Product

CF

Privilege

Security Administrator, Administrator

Command Modes

Exec > ACS Configuration > CFP Configuration

active-charging service *service_name* **> content-filtering category policy-id** *cf_policy_id*

Entering the above command sequence results in the following prompt:

```
[local]host_name(config-acs-content-filtering-policy)#
```

Syntax Description

In 12.2 and later releases:

analyze priority *priority* **{ all | category** *category* **| x-category** *string* **}**
action { allow | content-insert *content_string* **| discard | redirect-url** *url*
| terminate-flow | www-reply-code-and-terminate-flow *reply_code* **} [**
reporting-edr *reporting_edr_format_name* **]**
no analyze priority *priority*

In 12.1 and earlier releases:

analyze priority *priority* **{ all | category** *category* **| x-category** *string* **}**
action { allow | content-insert *content_string* **| discard | redirect-url** *url*
| terminate-flow | www-reply-code-and-terminate-flow *reply_code* **} [edr**
edr_format_name **]**
no analyze priority *priority*

no

Removes the specified analyze priority configuration.

priority *priority*

Specifies the precedence of a category in the content filtering policy.

priority must be an integer from 1 to 65535 that is unique in the content filtering policy.

all

Specifies the default action to take if the category returned after rating is not configured in the subscriber's content filtering policy. This has the lowest priority.

category *category*

Specifies the category.

category must be one of the following.

- ABOR
- ADULT
- ADVERT
- ANON
- ART
- AUTO
- BACKUP
- BLACK
- BLOG
- BUSI

- CAR
- CDN
- CHAT
- CMC
- CRIME
- CULT
- DRUG
- DYNAM
- EDU
- ENERGY
- ENT
- FIN
- FORUM
- GAMB
- GAME
- GLAM
- GOVERN
- HACK
- HATE
- HEALTH
- HOBBY
- HOSTS
- KIDS
- LEGAL
- LIFES
- MAIL
- MIL
- NEWS
- OCCULT
- PEER
- PERS
- PHOTO

- PLAG
- POLTIC
- PORN
- PORTAL
- PROXY
- REF
- REL
- SCI
- SEARCH
- SHOP
- SPORT
- STREAM
- SUIC
- SXED
- TECH
- TRAV
- VIOL
- VOIP
- WEAP
- WHITE
- UNKNOW



Important Content can simultaneously match multiple categories, therefore specific **priority** must be used for required evaluation precedence.

x-category *string*

This keyword can be used to configure runtime categories not present in the CLI.

string specifies the unclassified category to be rated, and must be an alphanumeric string of 1 through 6 characters.

A maximum of 10 x-categories can be configured.

action { allow | content-insert *content_string* | discard | redirect-url *url* | terminate-flow | www-reply-code-and-terminate-flow *reply_code* }

Specifies the action to take for the indicated result of content filtering analysis.

allow: With static content filtering, this option allows the request for content. In dynamic content filtering it allows the content itself.

content-insert *content_string*: Specifies the content string to be inserted in place of the message returned from prohibited/restricted site or content server.

For static content filtering, *content_string* is used to create a response to the subscriber's attempt to get content. In dynamic content filtering, it is used to replace the content returned by a server.

content_string must be an alphanumeric string of 1 through 1023 characters.

discard: For static content filtering, this option discards the packet(s) that requested. In dynamic content filtering, it discards the packet(s) that contain(s) the content.

redirect-url *url*: Redirects the subscriber to the specified URL.

url must be an alphanumeric string of 1 through 1023 characters in the *http://search.com/subtarg=#HTTP.URL#* format.

terminate-flow: Terminates the TCP connection gracefully between the subscriber and server, and sends a TCP FIN to the subscriber and a TCP RST to the server.

www-reply-code-and-terminate-flow *reply_code*: Terminates the flow with the specified reply code. *reply_code* must be a reply code that is an integer from 100 through 599.



Important Static-and-Dynamic Content Filtering is only supported in 9.0 and later releases.

edr *edr_format_name*



Important This option is available only in 12.1 and earlier releases. In 12.2 and later releases, it is deprecated and replaced by the **reporting-edr** option.

Generates separate EDRs for content filtering based on action and content category using a specified EDR file format name.

edr_format_name is the name of a pre-defined EDR file format name in the EDR Format Configuration Mode, and must be an alphanumeric string of 1 through 63 characters.



Important EDRs generated through this keyword are different from charging EDRs generated for subscriber accounting and billing. For more information on generation of charging EDRs, refer to the *ACS Rulebase Configuration Mode Commands* chapter.

reporting-edr *reporting_edr_format_name*



Important This option is available only in 12.2 and later releases.

Generates separate reporting EDRs for Content Filtering based on the action and content category using the specified EDR file format name.

reporting_edr_format_name must be an alphanumeric string of 1 through 63 characters.

Usage Guidelines

Use this command to specify the action and priorities for the indicated result of content filtering analysis.

Up to 64 priorities and actions can be entered with this command.

Example

The following command sets priority *10* for category *ADULT* with action as **terminate-flow**:

```
analyze priority 10 category ADULT action terminate-flow
```

discarded-flow-content-id

Accounts for packets discarded as a result of content filtering action.

Product

CF

Privilege

Security Administrator, Administrator

Command Modes

Exec > ACS Configuration > CFP Configuration

active-charging service *service_name* **> content-filtering category policy-id** *cf_policy_id*

Entering the above command sequence results in the following prompt:

```
[local]host_name(config-acs-content-filtering-policy)#
```

Syntax Description

discarded-flow-content-id *content_id*
no discarded-flow-content-id

content_id

Specifies the content ID for discarded flows as an integer from 1 through 65535.

Usage Guidelines

Use this command in the configuration to account for packets discarded as a result of CF action.

A flow end-condition EDR would be generated as a charging EDR for content-filtered packets. No billing EDRs (even with flow-end) would be generated for a discarded packet as the flow will not end. Dual EDRs would exist for customers who want to use "flow end" to get EDRs for charging, plus CF-specific EDRs. The second EDR for charging comes from the **flow end-condition content-filtering** configuration in the Rulebase Configuration Mode.

The **discarded-flow-content-id** configuration can be used for accumulating statistics for UDR generation in case CF discards the packets. These statistics for UDR generation (based on the CF content ID) would also be accumulated in case of ACS error scenarios where the packets are discarded but the flow does not end.

If, in the Rulebase Configuration Mode, the **content-filtering flow-any-error** configuration is set to **deny**, then all the denied packets will be accounted for by the **discarded-flow-content-id** config. That is, the *content_id* will be used to generate UDRs for the denied packets in case of content filtering.

Example

Use the following command to set the accumulation of statistics for UDR generation based on the CF content ID *1003*:

```
discarded-flow-content-id 1003
```

end

Exits the current configuration mode and returns to the Exec mode.

Product All

Privilege Security Administrator, Administrator

Syntax Description

```
end
```

Usage Guidelines Use this command to return to the Exec mode.

exit

Exits the current mode and returns to the parent configuration mode.

Product All

Privilege Security Administrator, Administrator

Syntax Description

```
exit
```

Usage Guidelines Use this command to return to the parent configuration mode.

failure-action

Specifies the failure action when the content filtering analysis results are not available to analyze.

Product CF

Privilege Security Administrator, Administrator

Command Modes Exec > ACS Configuration > CFP Configuration

active-charging service *service_name* **> content-filtering category policy-id** *cf_policy_id*

Entering the above command sequence results in the following prompt:

```
[local]host_name(config-acs-content-filtering-policy)#
```

Syntax Description

failure-action { allow | content-insert *content_string* **| discard | redirect-url** *url* **| terminate-flow | www-reply-code-and-terminate-flow** *reply_code* **} [edr** *edr_format_name* **]**
default failure-action [edr *edr_format_name* **]**

default

Configures the default setting to terminate the flow.

allow

In static content filtering, this option allows the request for content. In dynamic content filtering it allows the content itself.



Important Static-and-Dynamic Content Filtering is only supported in 9.0 and later releases.

content-insertion *content_string*

Specifies the content string to be inserted in place of the message returned from the content server due to connection timeout or when no category policy ID is available for the content.

For content filtering, the *content_string* is used to create a response to the subscriber's attempt to get content. In dynamic content filtering it replaces the content returned by a server.

content_string is an alphanumeric string of 1 through 1023 characters.



Important Static-and-Dynamic Content Filtering is only supported in 9.0 and later releases.

discard

In static content filtering, specifies discarding the packet(s) that requested. In dynamic content filtering it discards the packet(s) that contain the content.



Important Static-and-Dynamic Content Filtering is only supported in 9.0 and later releases.

redirect-url *url*

Redirects the subscriber to the specified URL.

url must be an alphanumeric string of 1 through 1023 characters, in the following format: *http://search.com/subtarg=#HTTP.URL#*

terminate-flow

Terminates the TCP connection gracefully between the subscriber and external server and sends a TCP FIN to the subscriber and a TCP RST to the server. This is the default behavior.

www-reply-code-and-terminate-flow *reply_code*

Sets action as terminate-flow with a reply code that is a 3-digit integer from 100 through 599.

edr *edr_format_name*

Specifies the name of a pre-defined EDR format to be generated on the content filtering action as an alphanumeric string of 1 through 63 characters.

Usage Guidelines

Use this command to set the failure action to take when no content filtering analysis result is available to analyze for **analyze priority** *priority* **category** *category_string* command.

Example

The following command sets the failure action as **discard**:

```
failure-action discard
```

timeout action

This command has been deprecated, and is replaced by the command.