

# Is there a filter condition matching on the file size of single attachment(s) instead of message size?



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## Contents

### Introduction

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### Related Information

## Introduction

This document describes a solution to match on attachment file size in a filter condition.

## Is there a filter condition matching on the file size of single attachment(s) instead of message size?

On the Cisco Email Security Appliance (ESA), there is no option in Message Filters or Content Filters to match on attachment file size in a filter condition. The only size related condition is the *Message Size* condition, which is taking the size of the complete message into consideration.

The solution is to make use of the *\$filesizes* Action Variable, which contains a comma separated list of the file size of all attachments contained in a message. If a X-header is added to the message with the value of *\$filesizes* then a Regular Expression (RegEx) can be constructed to match if any of the contained numbers (file sizes) exceeds a certain value.

The example below shows the setup of a content filter that drops a message if the size of attachment(s) equals to or exceeds 10000 bytes:

1. Create a Content Filter to add the value of the "\$filesizes" action variable in a X-header:

Content Filter Settings			
Name:	AddFileSizeHeader		
Currently Used by Policies:	No policies currently use this rule.		
Description:	Adds X-fileSizes header to messages containing a comma separated list of attachment file sizes using \$filesizes action variable		
Order:	1 (of 9)		

  

Conditions			
Add Condition...			
There are no conditions, so actions will always apply.			

  

Actions			
Add Action...			
Order	Action	Rule	Delete
1	Add Header	insert-header("X-fileSizes", "\$filesizes")	

2. Create another Content Filter to match on the file sizes contained in the new X–header, and drop the message if any of the files equals to or exceeds 10000 bytes:

Content Filter Settings			
Name:	DropOnBigAttachments		
Currently Used by Policies:	No policies currently use this rule.		
Description:	Drops messages when one or more attachments equals or exceeds a size of 10000 bytes		
Order:	2 (of 9)		

  

Conditions			
Add Condition...			
Order	Condition	Rule	Delete
1	Other Header	header("X-fileSizes") =~ "[1-9][0-9]{4,}"	

  

Actions			
Add Action...			
Order	Action	Rule	Delete
1	Strip Header	strip-header("X-fileSizes")	
Final	Drop (Final Action)	drop()	

3. Enable the two new Content Filters on all relevant Mail Policies in the above shown order.

**Note:** The \$fileSizes Action Variable is the number of bytes of the attachment, this is not related to the message size condition. Also "[1–9][0–9]{4,}" is a regular expression to match on any numbers from 10000 and upwards. If another limit is needed, the expression should be modified accordingly. For example:

size => 20000 : [2–9][0–9]{4,}  
 size => 25000 : (2[5–9][0–9]{3}|[3–9][0–9]{4,})

## Related Information

- *AsyncOS Email User Guide*
- *GLO Support Contact Information*
- *Technical Support & Documentation – Cisco Systems*