Description of the message filter in CrashMail II

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Introduction

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The message filter makes it possible filter out messages that match a set of

critera and perform a number of commands on them. All messages that are handled

by CrashMail are checked against the filter statements in the configuration.

Filter statements have this general syntax in the configuration:

FILTER <expression>

<command 1>

<command 2>

...

This file will start by describing how expressions work and what variables

you can use in them and then continue by describing the available commands.

This file relies heavily on examples to describe how the filter works.

Expressions

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Expressions have this general syntax:

<variable><operator><pattern>

CrashMail understands the operator "=" for all variable types expect text

variables and also "|"(substring search) for string and text variables.

Boolean variables can be used without an operator in which case "variable"

equals "variable=TRUE". You cannot have space characters around the operator,

CrashMail will not understand for example "FILEATTACH = TRUE".

A few examples:

TONAME="Johan Billing"

SUBJECT=CrashMail

TEXT|"CrashMail"

TOLOCALAKA

If the variable matches the pattern, the expression is TRUE and the commands

for the filter will be performed. You can also use NOT to negate a statement

and perform the commands if the expression is not true:

NOT FROMNAME="AreaFix"

Expressions can be linked using AND and OR. Parentheses can be used to set

the evaluation order. (Default is evaluation from left to right.) Examples:

TYPE=NETMAIL and TOLOCALAKA and TONAME=Raid

TYPE=ECHOMAIL and (TONAME="Johan Billing" or TONAME="Billing Johan")

TYPE=NETMAIL and NOT (FROMNAME=AreaFix or FROMNAME=Raid)

Variables

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String variables

FROMNAME

TONAME

SUBJECT

AREA

TYPE

SOURCE

FROMNAME, TONAME and SUBJECT should be self-explanatory. AREA is the tagname

of the area for echomail messages and for netmail messages it will be empty.

TYPE can be either NETMAIL or ECHOMAIL. SOURCE describes where the message

came from and can have these values:

TOSSED message was read from a \*.pkt file

EXPORTED message was exported from a messagebase

CRASHMAIL message was generated by CrashMail (bounce messages, AreaFix

responses etc)

The "=" operator matches a variable against a pattern (see description of

CrashMail's patterns in ReadMe.txt). "|" makes a substring search.

Examples:

FROMNAME=Johan\*

SOURCE=CRASHMAIL

SUBJECT|AreaFix

Node variables

FROMADDR

TOADDR

For netmail messages, these are the addresses found in the message header.

For echomail messages, FROMADDR is taken from the Origin line and TOADDR

will be empty.

Node variables are matched against a node pattern using the "=" operator.

Examples:

FROMADDR="1:\*/\*.\*"

TOADDR="2:200/207.6"

Text variables

TEXT

KLUDGES

TEXT is the message text without kludges and KLUDGES contains all the kludges

(lines beginning with 0x01). You can only do substring searches on text

variables using the "|" operator.

Examples:

TEXT|CrashMail

KLUDGES|"TID: CrashMail"

Boolean variables

FILEATTACH

TOLOCALAKA

FROMLOCALAKA

TOLOCALPOINT

FROMLOCALPOINT

EXISTSCFG\_FROMADDR

EXISTSCFG\_FROMBOSS

EXISTSCFG\_TOADDR

EXISTSCFG\_TOBOSS

EXISTSNL\_FROMADDR

EXISTSNL\_FROMBOSS

EXISTSNL\_TOADDR

EXISTSNL\_TOBOSS

Boolean variables are always TRUE or FALSE. Boolean variables can be used

either alone (variable and variable=TRUE is the same thing) or as

variable=TRUE/FALSE.

FILEATTACH will be TRUE if the message has an attached file.

FROMLOCALAKA/TOLOCALAKA will be TRUE if the message is from/to one of the

AKAs configured in the configuration file. FROMLOCALPOINT/TOLOCALPOINT will

be TRUE if the message is from/to a point under one of the AKAs configured

in the configuration file.

EXISTSCFG\_FROMADDR will be TRUE if the message is from an address configured

as a NODE in the configuration file. EXISTSCFG\_FROMBOSS is similar, but if

the node is a point (x:y/z.p), CrashMail will look for the boss (x:y/z.0) in

the node configuration instead. EXISTSCFG\_TOADDR/EXISTSCFG\_TOBOSS are similar,

but for the destination address.

EXISTSNL\_\* are similar to EXISTSCFG\_\*, but instead of looking for the nodes

in the node configuration, the variable will only the TRUE if the node is

found in the external nodelist.

Examples:

TOLOCALAKA or TOLOCALAKA=TRUE (equivalent)

FROMLOCALPOINT=FALSE or NOT FROMLOCALPOINT (equivalent)

Commands

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TWIT

Don't import the message. The message will be sent to downlinks as usual.

Example:

FILTER TYPE=ECHOMAIL and FROMNAME="Hubba Hopp"

TWIT

KILL

Completely discard the message.

Example:

FILTER SOURCE=CRASHMAIL

KILL

COPY <area>

Write a copy of the message to a local area. The local area needs to be

configured in the configuration using LOCALAREA.

Example:

FILTER SOURCE=TOSSED and TYPE=ECHOMAIL and TONAME="Johan Billing"

COPY PERSONAL\_MESSAGES

EXECUTE <command>

Executes an external command. The following codes can be used in the command:

%r RFC-style with Fidonet addresses. Name of a file that contains a

message in a text format similar to that used for e-mail messages on

the internet, but addresses are still in x:x/x.x@domain format.

%R RFC-style with RFC-style addresses. Name of a file that contains a

message in a text format similar to that used for e-mail messages on

the internet, but addresses are in name@pX.fX.nX.zX.domain format.

%m Name of a file that contains the message as a \*.msg file

%a Area name (echomail only, will be empty for netmail areas)

%f From name

%o Originating node

%t To name

%d Destination node

%s Subject

%x Date and time of the message

CrashMail will react differently depending on the exit code of the executed

command:

0 The message is not imported

10 The message is imported

20 CrashMail aborts

Example:

FILTER TYPE=NETMAIL and TOLOCALAKA and TONAME="Raid"

EXECUTE "raid %r"

WRITELOG <message>

Writes a message to the logfile (loglevel 1). The same %-codes as for the

EXECUTE command can be used here as well except for %r, %R and %m.

Example:

FILTER TYPE=ECHOMAIL and SOURCE=TOSSED

WRITELOG "From: %f Subj: %s Area: %a"

WRITEBAD <reason>

Writes the message to the BAD area with <reason> specified as the reason. The

message is not deleted unless you also use the KILL command.

FILTER TYPE=NETMAIL and NOT EXISTSNL\_TOBOSS

WRITEBAD "Warning: Destination not in nodelist, message might not arrive"

BOUNCEMSG <message>

BOUNCEHEADER <message>

These commands writes an error message to the sender of the filtered message.

BOUNCEMSG includes a full copy of the original message and BOUNCEHEADER only

includes the message header. In the message to the sender, you can use the

same %-codes as for the EXECUTE command except for %r, %R and %m. The message

will not be deleted unless you also use the KILL command.

Example:

FILTER TYPE=NETMAIL and not TOLOCALAKA and not EXISTSCFG\_TOADDR

BOUNCEMSG "Destination node %d does not exist, message can not be delivered"

KILL

REMAPMSG <new name> <destination pattern>

This command can change the destination name and node of a netmail message. If

the new name is "\*", the old name will be kept.

Examples:

FILTER TYPE=NETMAIL and TOLOCALAKA and TONAME="Johannes"

REMAPMSG "Johannes Nilsson" 2:200/2075

FILTER TYPE=NETMAIL and TOADDR=2:999/\*.\*

REMAPMSG "\*" 2:200/\*.\*

Additional examples

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Copy all talk about me to a special area:

FILTER TYPE=ECHOMAIL and SOURCE=TOSSED and TEXT|billing

COPY BILLING\_DISCUSSIONS

Keep a copy of all sent netmails:

FILTER TYPE=NETMAIL and SOURCE=EXPORTED

COPY SENT\_NETMAILS

Log all routed messages:

FILTER TYPE=NETMAIL and SOURCE=TOSSED

WRITELOG "Routed message from %f (%o) to %t (%d)"

Search all messages for a string:

FILTER TEXT|CrashMail

COPY CRASHMAIL\_DISCUSSIONS

Make customized bounce messages:

FILTER TYPE=NETMAIL AND NOT EXISTSNL\_TOBOSS

BOUNCEMSG "Destination node %d does not exist in nodelist, your message cannot be delivered"

KILL

Make it possible to inspect all messages generated by CrashMail:

FILTER SOURCE=CRASHMAIL

COPY CRASHMAIL\_MESSAGES