# Configuring MDaemon for Centralized Spam Blocking and Filtering

Alt-N Technologies, Ltd 2201 East Lamar Blvd, Suite 270 Arlington, TX 76006 (817) 525-2005 http://www.altn.com

July 26, 2004

# Contents

A Centralized Approach to Blocking and Filtering Spam	<b>2</b>
MDaemon AntiSpam Tools Overview	<b>2</b>
Spam Blocking	2
Spam Filtering	3
Content Filtering	4
IMAP Public Folders	5
Step-by-Step Instructions for Configuring MDaemon AntiSpam	7
Check Spam Blocker	7
Create Public Folders	9
Configure Spam Filter	17
Create Content Filter for Collecting Spam	21
Using the AntiSpam Configuration	26
Using the Public Folders for Spam Processing	26
Administrator Instructions	27
User Instructions	29
IMAP Email Client Method	29
WorldClient Method	29
POP Email Attachment Method	30

### A Centralized Approach to Blocking and Filtering Spam

MDaemon PRO contains antispam tools capable of blocking 95% of spam, while allowing all legitimate messages to reach their destinations.

This document describes one way to configure MDaemon PRO to fight spam using a centralized method.

This configuration centralizes the collection and processing of spam. It routes all messages flagged as spam to an IMAP public folder. By reviewing the contents of this folder, an administrator can make sure messages are really spam before deleting them.

In addition, this configuration distributes to authorized email users the ability to identify spam and legitimate messages for the Bayesian filter. Users do this by copying spam messages and legitimate messages to IMAP public folders. The Bayesian filter processes these messages to "learn" the differences between junk mail and real mail, as defined by the users of each email server. Both IMAP and POP account holders can add messages to these public folders.

### MDaemon AntiSpam Tools Overview

These configuration instructions use these MDaemon tools:

- Spam Blocker
- Spam Filter
- Content Filter
- IMAP server public folders



The instructions assume the Spam Blocker is enabled and using one or more realtime black lists.

The Spam Filter and IMAP server are features of MDaemon PRO. They are not available with MDaemon Standard.

While the IMAP server must be running, this configuration works for both POP and IMAP email accounts.

MDaemon must be in *Advanced* mode to configure the antispam tools. When MDaemon is in its *Easy* mode the antispam tools use MDaemon's intelligent defaults.

You can change between the *Easy* and *Advanced* modes by using the **File** > **Switch to...mode** command. If the command reads **Switch to easy mode** you are already using *Advanced* mode.

#### Spam Blocking

The Spam Blocker uses publicly available "black lists" to control incoming email sent from likely sources of spam. Several Internet organizations create and maintain these black lists in hopes of blocking email

from both known and potential spammers. The goal is to pressure these email sources into being better neighbors on the Internet.



When enabled, the Spam Blocker looks up the IP addresses of incoming email in the black lists. The the IP addresses match, the messages can be flagged for the content filter, isolated or deleted. The inbound SMTP session can also be immediately terminated, refusing the email.



#### Spam Filtering

Spam Filtering uses heuristic matching and Bayesian classification to intelligently detect and tag email spam.



Heuristics employ pattern-matching technology to identify spam.

Bayesian Filtering separates junk mail from legitimate mail by statistically comparing the words of incoming messages to the contents of previous emails known to be either spam or non-spam. The Spam Filter includes white listed email addresses, black listed addresses and addresses excluded from any

3

4

processing. Recent experience shows Bayesian filtering to be particularly effective at blocking spam while allowing legitimate mail through.

Spam Filter	? ×
White List (auto) White List (to) White List (from) Spam Filtering Heuristics Bayesian Reporting Exc	3lack List   clusion List
Spam Filter options — MDaemon's Spam Filter uses a variety of techniques to detect and spam.	deal with
If the Spam Filter determines that a message is spam then bounce the message back to sender just delete the message completely flan the message but let it continue down the delivery path	
<ul> <li>Don't filter messages sent from local sources</li> <li>Don't filter messages from trusted or authenticated sources</li> </ul>	
Don't filter messages larger than 50 kb (0 = up to 2 me Don't forward messages marked as spam Automatically filter spam messages into user's IMAP spam folde	gs) #
A white list match subtracts this many points from the spam score A black list match adds this many points to the spam score Spam Blocker match adds this many points to the spam score	100.0 100.0 3.0
Scheduled updates	
OK Cancel	Apply

#### **Content Filtering**

Content filtering operates as a sieve and re-distribution system for MDaemon. It is one way to regulate the flow of messages in, through, and out of your email server.



Content filtering analyzes email content by looking at headers, senders, recipients, subjects and the words in a message.

Depending on the analysis, Content filtering can, for example:

- Delete a message.
- Redistribute a single email to multiple addresses.
- Run a program.
- Copy a message to a public folder.

Content Filter	×
Content Filter Admins/Attachments File Compression Notifications	
Content filtering rules	
🕒 🔽 Enable rules processing engine	
When active, the content filtering system will test all new messages using the rules specified below and perform the requested action if a match is made.	
Existing content filter rules	
✓ Message/Partial vulnerability [Move to bad message queue] ✓IFRAME vulnerability [Move to bad message queue]	
New rule         Edit rule         Copy rule         Delete rule         Move up	
Click the checkbox to the left of each rule to enable/disable it. Move down Rule Description: Message/Partial vulnerability (Enabled)	
Apply this rule to messages in the LOCAL & REMOTE queue If the message has an attachment with a CONTENT-TYPE of <u>message/parti</u> then send note <u>"to <postmaster@\$primarydomain\$>","from <mdaemc< u=""> and move message to bad message directory</mdaemc<></postmaster@\$primarydomain\$></u>	
OK Cancel	

#### **IMAP** Public Folders

IMAP public folders enable the sharing of email and attachments. They are part of the Internet Message Access Protocol, also known as IMAP.



IMAP is an industry standard protocol for processing email. An IMAP email server stores and keeps email messages for recurring user access. The IMAP account holder can read messages, move them into other folders on the server or copy them to shared folders for access by others, as examples. The account holder can access the same email from any computer with an IMAP client. Because of this, the same email is available at work, at home, from a wireless notebook computer on the road or from a web email client at a computer cafe.

For the purposes of antispam, public folders are useful for collecting spam messages. They are also useful for enabling users to identify spam and legitimate messages for the Bayesian filter.

Shared IM	AP Folders		? ×
Shared Fo	olders Public Folders		
IMAP fol	ders		[
	Folder name	Per-u	Submission Address
	Newsletter	Yes	<none></none>
	New MAR folder		
	Folder name	Folde	rtype
	Newsletter	Mail	▼
	Store IMAP message flags on a per-use	er basis	_
	Submission address <pre></pre>		<b>-</b>
	Mail sent to this address will route directly in have 'post' access).	nto this fold	der (note: sender must
	Create Replace	Ed	dit access control list
	Creating, removing, or changing entries ca	nnot be un	done by clicking 'Cancel'.
	OK		ancel Apply

## Step-by-Step Instructions for Configuring MDaemon AntiSpam

#### Check Spam Blocker

The defaults for the Spam Blocker are very effective. The Spam Blocker is enabled in MDaemon by default. You should check to make sure the Spam Blocker is enabled.

The instructions start on the main screen of the MDaemon administration user interface.



1. Use the Security > Spam blocker... command. This displays the Spam Blocker dialog.

Spam Bloo	ker 🤶 🕺				
Spam Blo	ocker RBL Hosts Caching White List				
Spam B	locker engine				
	Enable Spam Blocker engine				
	The Spam Blocker is MDaemon's built-in RBL querying engine. It checks RBL sites on the Internet for matches and then acts accordingly.				
Spam Blocker options					
	▼ Flag messages from blacklisted sites but go ahead and accept them				
	This option inserts an X-RBL-Warning' header into flagged emails.				
	Check 'Received' headers within SMTP collected messages				
	Check only this many 'Received' headers (0 = all)				
	Skip this many of the oldest 'Received' headers (0 = none)				
	Check 'Received' headers within POP collected messages				
	Check only this many 'Received' headers (0 = all)				
	Skip this many of the oldest 'Received' headers (0 = none)				
	Skip 'Received' headers within messages from white listed sites				
	You can white list sites using the White List tab.				
	Automatically filter spam messages into user's IMAP spam folder				
	Add blacklisted sites to the IP Screen (under 'All IPs')				
	Authenticated sessions are exempt from Spam Blocker lookups				
	Always exempt Trusted IPs from Spam Blocker lookups				
	OK Cancel Apply				

- 2. Select the **Spam Blocker** tab.
- 3. Check the settings on this tab. The spam blocker engine should be enabled. The other settings should be those that fit the needs of your organization—in most applications these are the defaults. The other tabs on this dialog are:
  - *RBL Hosts* where you enter the Internet addresses of the black lists you want to use.
  - *Caching* for use if you have a dialup email server and want to store black list look up results "off-line" for a specified period of time.
  - White List where you can enter the email addresses you want to always exclude from black list processing.
- 4. Use the **OK** button to exit from the **Spam Blocker** dialog.

#### **Create Public Folders**

These instructions show how to create public folders for:

- centralizing the collection of spam for administrative review.
- collecting "learning" samples of spam and legitimate messages submitted by users to the Bayesian filter.

The instructions show how to create the folders and apply access permissions to the folders. You first create a root folder, then add sub folders for collecting spam and managing messages for the Bayesian filter learning samples.

The instructions start on the main screen of the MDaemon administration user interface.



1. Use the **Setup** > **Shared IMAP folders** command. This displays the **Shared IMAP Folders** dialog.



- 2. Activate the **Enable public folders** check box.
- 3. Enter a short prefix, such as # or PF- for **Public folder prefix string**
- 4. Use the **Apply** button.

Shared IM	AP Folders		? ×
Shared Fe	olders Rublic Folders		
IMAP fol	ders		
	Folder name	Per-u Submi	ssion Address
	•		Þ
	New IMAP folder		Remove
	Folder name	Folder type	
	J	Mail	<b>_</b>
	Store IMAP message flags on a per-use	er basis	
	Submission address	•	
	Mail sent to this address will route directly in have 'post' access).	nto this folder (note	: sender must
	Create Replace	Edit acces	es control list
	Creating, removing, or changing entries ca	nnot be undone by	clicking 'Cancel'.
	OK	Cancel	Apply

5. Select the **Public Folders** tab. This tab is for adding, changing and deleting IMAP Public Folders. You manage access permissions to the public folders by using the **Edit access control list** button. (The Alt-N web site has a white paper—*Public Folders Concepts and Applications*— explaining IMAP Public Folders.)

Shared IM	AP Folders			? ×
Shared Fo	olders Public Folders			
IMAP fol	ders			[
	Folder name	Per-u	Submission	Address
	Corvus Press	No	<none></none>	
	•			
	New IMAP folder			Remove
	Folder name	Folder	type —	
	Corvus Press	Mail		
	Store IMAP message flags on a per-use	er basis		
	Submission address <a>  <none></none></a>		•	
	Mail sent to this address will route directly in have 'post' access).	nto this folde	er (note: sen	der must
	Create Replace	Edi	it access cor	ntrol list
	Creating, removing, or changing entries ca	nnot be und	lone by click	ing 'Cancel'.
	OK	Ca	ancel	Apply

One way to organize public folders is under a "root" folder named for a department or domain, for example. Sub folders of the root folder inherit the access permissions of the root. The access permissions can be edited for each sub folder.

6. Type the name of the root folder for Folder name (in this example Corvus Press) and use the Create button.

Shared IM	AP Folders		? ×
Shared Fo	olders Public Folders		
IMAP fol	ders		
	Folder name	Per-u	Submission Address
	Corvus Press	No	<none></none>
	•		
	New IMAP folder		Remove
	Folder name	Folde	r type
	Corvus Press	Mail	
	Store IMAP message flags on a per-use	er basis	
	Submission address <none></none>		•
	Mail sent to this address will route directly in have 'post' access).	nto this fold	ler (note: sender must
	Create Replace	Ec	dit access control list
	Creating, removing, or changing entries ca	nnot be un	done by clicking 'Cancel'.
	OK		ancel Apply

7. Select from the **IMAP folders** list the folder you just created and use the **Edit access control list** button.

IMAP Folde	er - Corvus Press				? ×
Access C	ontrol List				
Access r	ahts				
	Email		Access lev	/el	
	Default rights (ar	nyone)	<none></none>		
	l Email address				
	Default rights (apuon	vel 🔻	bbA [	Benlace	Bemove
	period in ignice (anyon				
	Access rights		<b>—</b>	_	
	Lookup I	Insert	Set Seen	Flag	Setsub
	Read C	Create	Administe	ir.	
	🗆 Write 🗖	Delete	Post		Help
			1	1	
			OK	Cancel	Apply

8. Select **Default rights (anyone)** from the list, uncheck all *Access Rights* and use the **Replace** button. This prevents global access to your folders.

IMAP Fold	er - Corvus Pre	:55				? ×
Access C	ontrol List					
Access	rights					
	Email			Access leve	el	
	👲 Default righ	ts (anyone)		<none></none>		
	, Email address					
	anyone@corvu	spress.com	•	Add	Replace	Remove
	Access rights					Import
	🔽 Lookup	🗌 Insert	ſ	Set Seen F	lag	Set sub
	🔽 Read	🗌 Create	ſ	Administer		
	🗆 Write	🗌 Delete	ſ	Post		Help
				ок	Cancel	Apply

9. Type anyone@yourdomain (where yourdomain is your domain), activate the Lookup and Read Access Rights check boxes and use the Add button. This provides read access to the public folder for all MDaemon users in your domain.

Email	Acces	slevel
👲 Defaul	rights (anyone) <none< td=""><td>&gt;</td></none<>	>
👲 anyone	@corvuspress.com Ir	
Email addre	\$	
Email addre	s Ada	Replace Rem
Email addre	s Ada	d Replace Rem
Email addre Access righ	s	d Replace Rem Imp een Flag Set
Email addre Access righ V Lookup V Read	s Insert Set S	d Replace Rem lmp een Flag Set : nister

10. Use the **OK** button. This redisplays the **Public Folders** tab of the **Shared IMAP Folders** dialog.

Shared IM	IAP Folders		<u>?</u> ×
Shared F	olders Public Folders		
IMAP fol	Iders		
	Folder name	Per-u	Submission Address
	🖗 Corvus Press	No	<none></none>
	New IMAP folder		Remove
	Folder name	Folde	er type
	Corvus Press\Spam	Mai	▼
	Store IMAP message flags on a per-us	er basis	
	Submission address <pre><none></none></pre>		<b>•</b>
	Mail sent to this address will route directly have 'post' access).	into this fold	der (note: sender must
	Create Replace	E	dit access control list
	Creating, removing, or changing entries ca	annot be un	done by clicking 'Cancel'.
	ОК		Cancel Apply

- 11. Type name of the root folder/ Spam for Folder name (in this example Corvus Press/Spam) and use the Create button.
- 12. Select from the **IMAP folders** list the folder you just created and use the **Edit access control** list button.

IMAP Fold	ler - Corvus Press/Spam	? ×
Access C	Control List	
Access	rights	_ 1
		τl
	Chone     Access level     Access level     Access level     Access level	1
	anyone@corvuspress.com <none></none>	
		1
		- 1
	Email address	
	anyone@corvuspress.com	4
	Access rights Import	
	🗖 Lookup 🔲 Insert 🔲 Set Seen Flag Set sub	
	🗖 Read 🔲 Create 🔲 Administer	-
	□ Write □ Delete □ Post Help	
	OK Cancel Apply	

13. Select from the Access rights list **anyone@yourdomain**, deactivate all Access Rights and use the **Replace** button. This removes access for everyone in the domain.

I٢	1AP Fold	er - Corvus Pre	ss/Spam		? X
	Access C	ontrol List			
	Access	ights			
		Email		Access level	
	<b>T</b>	👲 Default righ	ts (anyone)	<none></none>	
		👷 anyone@co	orvuspress.com	<none></none>	
		l Email address			
		pendragon@co	rvuspress.com	Add Replace	Remove
		, Access rights			Import
		🔽 Lookup	🔲 Insert	🔲 Set Seen Flag	Set sub
		🔽 Read	Create	Administer	
		🗌 Write	🔽 Delete	Post	Help
				OK Cancel	Apply

- 14. Select from the *Email address* list the address of the person to review the messages (pendragon@corvuspress.com in this example) labeled as spam, activate the **Lookup**, **Read** and **Delete** access rights check boxes and use the **Add** button. This enables access for the person who reviews the messages. More than one person can be given this access.
- 15. Add any other users to the access list.
- 16. Use the **OK** button. This redisplays the **Public Folders** tab of the **Shared IMAP Folders** dialog.

- 17. Add these two public folders to your domain:
  - name of the root folder/Real Mail
  - name of the root folder/Junk Mail

Shared IM	AP Folders			? ×
Shared Fo	olders Public Folders			
IMAP fol	ders			[
	Folder name	Per-u	Submissio	on Address
	🖗 Corvus Press	No	<none></none>	
	🙀 Corvus Press/Junk Mail	No	<none></none>	
	🙀 Corvus Press/Real Mail	No	<none></none>	
	🙀 Corvus Press/Spam	No	<none></none>	
	•			•
	New IMAP folder			Bemove
	Folder name	Folde	r type	
	Corvus Press/Junk Mail	Mail		•
	Store IMAP message flags on a per-us	er basis		_
	Submission address <pre>cnone&gt;</pre>		•	
	Mail sent to this address will route directly in have 'post' access).	nto this fold	ler (note: se	ender must
	Create Replace	Ec	dit accers o	control list
	Creating, removing, or changing entries ca	nnot be un	done by cli	cking 'Cancel'.
	ОК		ancel	Apply

These two folders are for users to identify spam and legitimate messages for the Bayesian filter. Users do this by copying spam messages and legitimate messages to the IMAP public folders. The Bayesian filter processes these messages to "learn" the differences between junk mail and real mail, as defined by the users of your email server. Both IMAP and POP account holders can add messages to these public folders.

POP account users can copy messages to these folders by mailing the messages as attachments to **SpamLearn@yourdomain** and **HamLearn@yourdomain**. For example, these email addresses could be **SpamLearn@corvuspress.com** and **HamLearn@corvuspress.com**.

18. Select the **Real Mail** and **Junk Mail** folders in turn, then use the **Edit access control list** button

Email		Access leve	el	
👲 Default rig	hts (anyone)	<none></none>		
🕵 anyone@(	corvuspress.com	li		
👲 pendragor	n@corvuspress.com	n Irid		
Email address				
Email address Default rights (	anyone) 💌	Add	Replace	Rem
Email address Default rights ( Access rights	anyone) 💌	Add	Replace	Rem
Email address Default rights Access rights Lookup	anyone) 💌	Add	Replace	Rem Imp Set
Email address Default rights ( Access rights Lookup Read	anyone) 🔽	Add	Replace	Rem Imp

19. Set these access permissions for both the **Real Mail** and **Junk Mail** folders:

Default rights (anyone) <none>

anyone@yourdomain Lookup, Insert

With these settings, general users (anyone) can add messages to the public folders cannot see the contents of the folders.

your email administrator Lookup, Read, Insert, Delete

- 20. Use the **OK** button. This redisplays the **Public Folders** tab of the **Shared IMAP Folders** dialog.
- 21. Use the **OK** button to exit from the **Shared IMAP Folders** dialog.

#### **Configure Spam Filter**

These instructions show how to configure the Spam Filter, including general settings, Heuristic Filtering and Bayesian learning.

The instructions start on the main screen of the MDaemon administration user interface.



1. Use the Security > Spam Filter... command. This displays the Spam Filter dialog.

Spam Filter
White List (auto)         White List (to)         White List (from)         Black List           Spam Filtering         Heuristics         Bayesian         Reporting         Exclusion List
Spam Filtering       Heuristics       Bayesian       Reporting       Exclusion List         Spam Filter options       If the options       If the spam Filter uses a variety of techniques to detect and deal with spam.         If the Spam Filter determines that a message is spam then       If the Spam Filter determines that a message is spam then         If the Spam Filter determines that a message is spam then       If the Spam Filter determines that a message is spam then         If the Spam Filter determines that a message is spam then       If the spam filter determines that a message is spam then         If the Spam Filter determines that a message is spam then       If the spam filter determines that a message is spam then         If the Spam Filter determines that a message is spam then       If the spam filter determines that a message is spam then         If the Spam Filter determines that a message spam the message is option to a spam.       If the message is spam trusted or authenticated sources         If the messages larger than       50       kb (0 = up to 2 megs)         If the messages marked as spam       Automatically filter spam messages into user's IMAP spam folder
A white list match subtracts this many points from the spam score       100.0         A black list match adds this many points to the spam score       100.0         Spam Blocker match adds this many points to the spam score       3.0         Scheduled updates       100.0
OK Cancel Apply

- 2. Select the **Spam Filtering** tab.
- 3. Choose the ... flag the message but let it continue down the delivery path option. The other settings should be those that fit the needs of your organization—in most applications these are the defaults.



- 4. Select the **Heuristics** tab. Heuristic filtering is enabled in MDaemon by default.
- 5. Check the settings on this tab. **Enable heuristic message scoring system** should be enabled. The other settings should be those that fit the needs of your organization—in most applications these are the defaults.

Spam Filter				? ×	
White List (auto) Spam Filtering	White L Heuristics	ist (to)   V Bayesian	/hite List (from) Reporting	Black List Exclusion List	
Bayesian classification Bayesian classification is a statistical process through which a machine can actually learn. By analyzing hundreds of known spam and known non-spam messages, detection of both types of mail becomes more and more accurate with time. ☑ Apply Bayesian knowledge to heuristic message scoring					
Llick here Enable Enable Path to kn	and scoring pro e Bayesian sche e spam and han own spam direc	ocess will incorpo eduled learning n forwarding addi story (false negat	rate what has bee resses ives):	en learned so far.	
Path to kn	own non-spam	directory (false p	ositives):	Pub Folder	
At midnigh the conter Important:	t each night ME ht of these two o Messages are	)aemon will run a directories. removed from th	a learning program ese folders after p	which examines rocessing.	
Advanc	ed		1 Consul		

- 6. Select the **Bayesian** tab.
- 7. Activate all check boxes on this tab.
- 8. Use the **Pub Folder** button to select the *spam* Public Folder you created earlier. Using a **Pub Folder** button displays a **Public Folders** dialog.

F	Public Folders	? ×
	Public Folder	
	Public folder Select a public folder where MD aemon can expect to find copies of spam or non-spam messages. Public folder support will need to be enabled before users can access these folders. Corvus Press Corvus Press/Junk Mail Corvus Press/Real Mail Corvus Press/Spam	
		;el

- 9. Select the appropriate public folder for spam and use the **OK** button.
- 10. Repeat steps 8 and 9 for the non-spam **Pub Folder** button.

õpam Filter				? ×	
White List (auto)	White L	ist (to)	White List (from)	Black List	
Spam Filtering	Heuristics	Bayesian	Reporting	Exclusion List	
Bayesian classification					
Bayesian classification is a statistical process through which a machine can actually learn. By analyzing hundreds of known spam and known non-spam messages, detection of both types of mail becomes more and more accurate with time.					
🔽 Apply B	Bayesian knowl	edge to heurist	ic message scori	ng	
Click here	and scoring pro	cess will incor	oorate what has b	een learned so far.	
🔽 Enable	e Bayesian sche	eduled learning		Learn	
🔽 Enable	e spam and ham	n forwarding ad	dresses		
Path to kn	Path to known spam directory (false negatives):				
mon\Publi	mon\Public Folders\Corvus Press.IMAP\Junk Mail.IMAP\ Pub Folder				
Path to kn	own non-spam	directory (false	positives):		
C:\Alt-N\A	C:\Alt-N\MDaemon\Public Folders\Corvus Press.IMAP\R Pub Folder				
At midnight each night MD aemon will run a learning program which examines the content of these two directories.					
Important:	Messages are	removed from I	hese folders afte	r processing.	
Advanc	ed				
		OK	Canc	el Apply	

11. Use the **OK** button to exit from the **Spam Filter** dialog.

#### Create Content Filter for Collecting Spam

These instructions create a content filter for routing all messages flagged as spam into the public folder you created in step 11 on page 13.

The instructions start on the main screen of the MDaemon administration user interface.



1. Use the **Security > Content filter...** command. This displays the Content Filter dialog.



2. Use the **New rule** button. This displays the **Create Rule** dialog.

The new rule processes local queue messages containing the X-Spam-Flag header. A message contains this header if MDaemon antispam has labeled it as spam.

Create R	ule 🔀
Give this	rule a name
	Divert Potential Spam
Define n	ew content filter rule
ñ.	Select Conditions For This Rule
<b>15</b> 25	If the user defined 2 HEADER contains If the user defined 3 HEADER contains If the user defined 4 HEADER contains If the user defined 5 HEADER contains
	Select one or more conditions that will trigger this rule into action.
	Select Actions For This Rule
	Move the message to a public folder     Search and replace words within a message header     Search and replace words within the message body     Jump to a rule     Send an instant message
	Select one or more actions that this rule will take.
	NOTE: Actions will be processed in sequential order and any messages deleted or moved will cease all further actions from being processed. Rule Description
	Apply this rule to messages in the LOCAL & R6MOTE queue
	If the <u>userdef1</u> ; HEADER <u>contains specific strings</u> then move message to public folders <u>specify information</u>
	OK Cancel

- 3. Type Divert Potential Spam into the Give this rule a name box.
- 4. Scroll to and activate If the user defined 1 HEADER contains in the Select Conditions For This Rule box.
- 5. Scroll to and activate Move the message to a public folder... in the Select Actions For This Rule box.



- 23
- 6. Click on Local & Remote in the Rule Description box of the Create Rule dialog. This displays a dialog for selecting local and remote queues.
- 7. Deactivate the **Remote queue** box. Keep the **Local queue** box active. Use the **OK** button.



- 8. Click on **userdef1** in the **Rule Description** box of the **Create Rule** dialog. This displays a dialog for entering a user-defined header.
- 9. Type X-Spam-Flag into the User defined header box. Use the OK button.

Create Rule	2	×
Give this rule a name		
Divert Potential Spam		1
Define new content filter rule		
Specify Search Text	× ×	
Specify strings that this content filter rule should look for	Ľ	
Lheck for this string	Add	
Currently specifed strings (right click on the strings to remove)		
If the X-Spam-Flag HEADER contains		1
	Ľ	
	P	
	H	
If the <u>userder1:X-Spam-Hag</u> HEADER <b>contains seeding singles</b> then move message to public folders <u>specify information</u> M		
ОК	Cancel	

10. Click on **contains specific strings** in the **Rule Description** box of the **Create Rule** dialog. This displays a **Specify Search text** dialog for specifying the string.

Create Rule	×
Give this rule a name	-
Divert Potential Spam	1
Define new content filter rule Specify Search Text	[
Check for this string	
Add	
Currently specifed strings (right click on the strings to remove) If the X-Spam-Flag HEADER contains	
Options	
Rule options If the X-Spam-Filter HEADER Exists Does Not Contain Is Equal To Is Not Equal To Starts With Exists Does Not Exist Matches Regular Expression Contains Local Accout Does Not Contain Local Accout OK Cancel	

- 11. Click on **contains...** in the dialog. This displays an **Options** dialog for selecting content options.
- 12. Select **Exists** from the drop down list.
- 13. Use the **OK** button on the **Options** dialog. Use the **OK** button on the **Specify Search text** dialog.



- 14. Click on **specify information** in the **Rule Description** box of the **Create Rule** dialog. This displays a **Move to Public Folders...** dialog.
- 15. Select the public folder you created in step 11 on page 13. This is the public folder for centralizing the collection of spam for administrative review.
- 16. Use the >> button to choose the selected folder.

Create Rule	×
Give this rule a name	_
Divert Potential Spam	
Define new content filter rule 🏎 Select Conditions For This Rule	_
Move To Public Folders	×
Select public folders to move this message to	-
Existing Folders Selected Folders	
Corvus Press/Junk Mail Corvus Press/Real Mail	
OK Cancel	
If the <u>userdef1:X-Spam-Flag</u> HEADER exists then move message to public folders <mark>"Corvus Press/Spam"</mark>	
OK Cance	

- 17. Use the **OK** button on the **Move to Public Folders...** dialog.
- 18. Use the **OK** button on the **Create Rule** dialog.



19. Use the **OK** button to exit from the Content Filter.

### Using the AntiSpam Configuration

#### Using the Public Folders for Spam Processing

From the administrator and user points of view, MDaemon has two public folders for processing spam. Both of these were created in step 17 on page 15.

- **Junk Mail** This folder is for spam messages not identified as spam by the antispam tools. When a message is placed in this folder it is processed by Bayesian learning. In this way the next similar message received will be labeled as spam.
- **Real Mail** This folder is for legitimate messages falsely identified as spam by the antispam tools. When a message is placed in this folder it is processed by Bayesian learning. In this way the next similar message received will be passed to its recipient and not labeled as spam.

In addition, the administrator has a third spam-related public folder: Spam. This folder is for messages identified as spam by the antispam tools and routed to the folder by the content filter rule.

#### Administrator Instructions

Using an IMAP email client, the administrator checks all messages routed to the Spam folder.

The main purpose is to find messages marked incorrectly as spam.

When such a wrongly-marked message is found, the administrator should:

- 1. Copy the message to the Real Mail folder.
- 2. Forward the message to the original recipient.

These functions can be carried out by using an IMAP email client and subscribing to the three public folders used for processing spam.

For example, the administrator can drag and drop mis-labeled messages into the Real Mail folder.



The administrator can also do these functions using WorldClient as shown on the next page.

🚰 WorldClient - Microsoft Internet Explorer 📃 🔟 🗵						
File Edit View Favorites Tools Help						
⇔Back • → - 🔕 😰 🖓 🥘 Search 📷 Favorites 🥬 Media 🥨 🖏 • 🎒						
Address 🖗 http://192.168.1.105:3000/WorldClient.dll?View=Main 💌 🔗 Go Links »						
S WorldClient	Spam					
for MDaemon@						
	Email Address Subject Date 🔽	From: globallotteryintern1 <globallotteryintern1@telstra.com1< td=""></globallotteryintern1@telstra.com1<>				
🖻 pendragon@corvuspress.com 📥	0 AILER [***SPAM*** Score/Req: 12 07/01/	Date: 06/14/2004 06:12 AM				
Calendar	⊠ 3Dslesli [***\$PAM*** Score/Req: 06/23	To:				
Sel Address Book	europelo[****SPAM*** Score/Req: 09 06/21/	[***SPAM*** Score/Req:				
🔄 Inbox (10/10)	U 🖾 Mail Deli [***SPAM*** Score/Req: 04 06/16/	Subject: 06.00/04.40] AWARD				
🔄 Drafts (0/0)	☐ globallot [***SPAM*** Score/Req: 06 06/14/	NOTIFICATION				
Sent Items (0/0)	Morgan [***SPAM*** Score/Req: 16 06/08/	-				
Deleted Items (0/0)	serg@bbMDaemon Warning - virus fou 05/18/	GLOBAL LOTTERY				
E PF-Corvus Press (0/0)	🖾 andrew MDaemon Warning - virus fou 04/10/	INTERNATIONAL				
Junk Mail (8/1)		BUNDERSTRAATE 645,				
		ROTTERDAM-NETHERLANDS.				
Spam (8/1)		FROM: THE DESK OF THE				
🖂 Irash (2/0)		VICE PRESIDENI.				
- Inhov		PROMOTIONS/PRIZE AWARD.				
Cupox .		BACTH NO:				
😼 Calendar		GLNL/009842/04.				
🙀 Address Book		REF. NO. GLNL/107654/04				
👹 Options						
🕵 Sign Out	◀ ▶	RE: AWARD				
🙆 WorldClient		📄 📄 💕 Internet 🏼 🎼				

#### User Instructions

Users can help define spam and legitimate email for a site by copying messages of both types to the *Junk Mail* and *Real Mail* folders, respectively.

**Note:** Because of the type of permissions assigned to these folders for **anyone@yourdomain**, users can drag and drop email messages into the spam processing public folders but cannot view the contents of the folders.

By defining both types of messages, the users help the Bayesian filter do a better job of separating junk mail from real mail.

Users can copy messages to the spam processing public folders by using any of three methods:

- 1. IMAP email client
- 2. WorldClient webmail
- 3. Email attachments sent to the public folders from a POP email account

#### **IMAP Email Client Method**

With this method, the user has an IMAP email account. Many enterprises are now deploying IMAP because of the obvious convenience factors of having your email always available online and sharing messages online.

Using an IMAP email client, the account holder can just copy spam and real mail to their respective public folders.

🧐 Inbox - Ou	tlook Ex	press								
<u> </u>	⊻iew	<u>T</u> ools	<u>M</u> essage	e <u>H</u> elp						<b>E</b>
Create Mail	• ! R	<b>2</b> 2 eniv	g Reply	k Z All	₩ <u>©</u> Forward		<i>E</i>	X	Send/Be	*
😰 Inbox				, , , , ,					1	
Folders			×	! 0	91	From			Subject	
👘 🙀 Inb	ох (11)				I	🜌 ma	ryood@n	etscape.n	charitable	proposal
🖓 🏹 Senl	t Items					述 Dar	1 Stowell		Deconvolu	Ition
👘 🖗 Draf	its					💛 Tre	vor Harr	ison	[MacWrite	e] Friday July 1
🗌 👘 🎾 Dele	eted Item	s			I	💛 Mae	Zealots.	com	Press Rele	ase: Using CVS
👘 🖄 Dele	eted Mess	sages			I	💛 Mae	cromedia	1	Announcir	ng MAX 2004
📄 🔞 PF-0	Corvus Pr	ress			1	💛 Uni	x in the E	interprise	Unix in the	e Enterprise: Th
	Junk Mail				l	🗹 Joh	n		VARSITY 9	STUDENT E-MAI
	Real Mail	<b>ি</b> চ্চ			l	🚾 ERN	EST TAM	IET	Good Day	
Tras	:h	늰			1	💛 Nin	tendo Re	pairs	Check out	the My Ninten
			-		l	🜌 She	lly Breit	peil	FW: Brows	ing Your Site
Contacts 🔻			×		l	🜌 Pub	lic Affair	s Rep 8	Re: Genov	a Statement?
There are no co on Contacts to	ontacts to create a	o display i new co	y. Click Intact.							
<u> </u>										<b>_</b>

#### WorldClient Method

In terms of helping define spam and real mail, WorldClient operates similarly to an IMAP client.

🖉 WorldClient - Microsoft Int	ternet Explorer		_ D ×			
WorldClient - Microsoft )	Internet Explorer					
Destination Folder:	Inbox 💌	Copy Move	v ∂Co Links≫			
Le la	Inbox					
	Drafts Sant Itanua		1/1▶			
	Deleted Items					
	Deleted Messages					
Folders	PF-Corvus Press	pject D	at From: MDaemon@corvuspress.com			
JBanner@corvuspress.com	Junk Mail	ritable proposal 07	Date: 07/16/2004 08:37 PM			
🛄 Calendar	Real Mail	onvolution 07	Welcome to the email system for			
Sea Address Book	Trash	cWrite] Friday July 16,07	Subject: domain corvuspress.com			
🔤 Inbox (11/11)	MaczeaPre	ss Release: Using CVS 07	/			
🖂 Drafts (0/0)	🖂 newsfla An	nouncing MAX 2004 07	/ Welcome John Banner! 📃			
Sent Items (0/0)	🖂 Unix in Un	ix in the Enterprise: The 07	Gines way and you to this			
Deleted Items (12/0)	🖂 John VA	RSITY STUDENT E-MAIL 07	domain there are some			
Duck Mail (0/0)	EKNEST GO	od Day 07	things you should know:			
Real Mail (0/0)		Browsing Your Site 04				
Spam (0/0)	Public A., Re	: Genova Statement? 04	Account Information			
🔤 Trash (0/0)		denora seatement.	/			
•			Real name: John Banner			
😴 Inbox			Email:			
🕵 Calendar			JBanner@corvuspress.com			
Address Rook			Mail server:			
Address DOOK			Corvuspress.com			
Options			Account name: JBanner			
🖏 Sign Out	•					
CarldClient			📄 📄 🥸 Internet 🥢			

The account holder selects the messages and copies them to the corresponding public folder.

#### **POP** Email Attachment Method

Note: SMTP authentication must be enabled for this method to prevent abuse of the SpamLearn and HamLearn email addresses. You enable SMTP authentication by using the Security > IP Shielding / AUTH / POP Before SMTP ... command. The default settings work well.

On email servers with POP accounts only, users can email spam and real mail to:

SpamLearn@yourdomain for spam HamLearn@yourdomain for real mail

The messages must be sent as attachments of the type message/rfc822. MDaemon rejects all other types of messages sent to these accounts.



Note: You can change the addresses MDaemon uses by editing these lines the CFILTER.INI file: [SpamFilter] SpamLearnAddress=SpamLearn@ HamLearnAddress=HamLearn@

The last character of these must be '@'.