hsc

PURIFY

The ultimate email filtering, and spam / phishing tracing and reporting solution.

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Description

P Purify is an email filter.
P Purify can trace and report email abuse (spam).

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Features

- Filter email using powerful statistical Bayesian type filter.
- Filter email by country of origin.
- Filter, accept, or ignore email based on user defined phrases.
- Accept email from easily imported friends list.
- Forward valid email to your iPhone, or other SMTP service.
- Filter image spam.
- Filter email not addressed to you, or uses incorrect proper name.
- Report spammers and phishers to their ISPs with a button click!
- Data feed for upcoming hsc product "Compass."
- Available for **Windows**, **Macintosh** (Universal Binary), and **Linux**.
- Works with virtually every email client (Apple Mail, Outlook, etc.).
- Supports POP, POP SSL, IMAP, IMAP SSL.
- Use in standalone, or workgroup mode.
- Workgroup mode supports combo of Windows, Macintosh, Linux users.
- Macintosh version is fully AppleScript-able.

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Operation

Purify acts as a "pass through" filter for your email.

What is a "pass through" filter? A filter that "takes a peek" at your email messages as they "pass through" the filter, rates the email based on rules that you've define, and appends rating information to the message for you to use with your email clients rules. Here are three examples of rating information.

X-PURIFY-RATING: SPAM
X-PURIFY-REASON: Country fault CN, China

X-PURIFY-RATING: HAM
X-PURIFY-REASON: Jeffrian Filter marked as HAM 0.0183654

X-PURIFY-RATING: IGNORE
X-PURIFY-REASON: Ignorelisted (PlnTxt)-'abuse@'

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Operation (Cont'd)

Using the rating information examples from the previous page, you can easily define a rule in your email client software (Thunderbird example shown) that will move messages rated as SPAM to the trash. Simple eh?
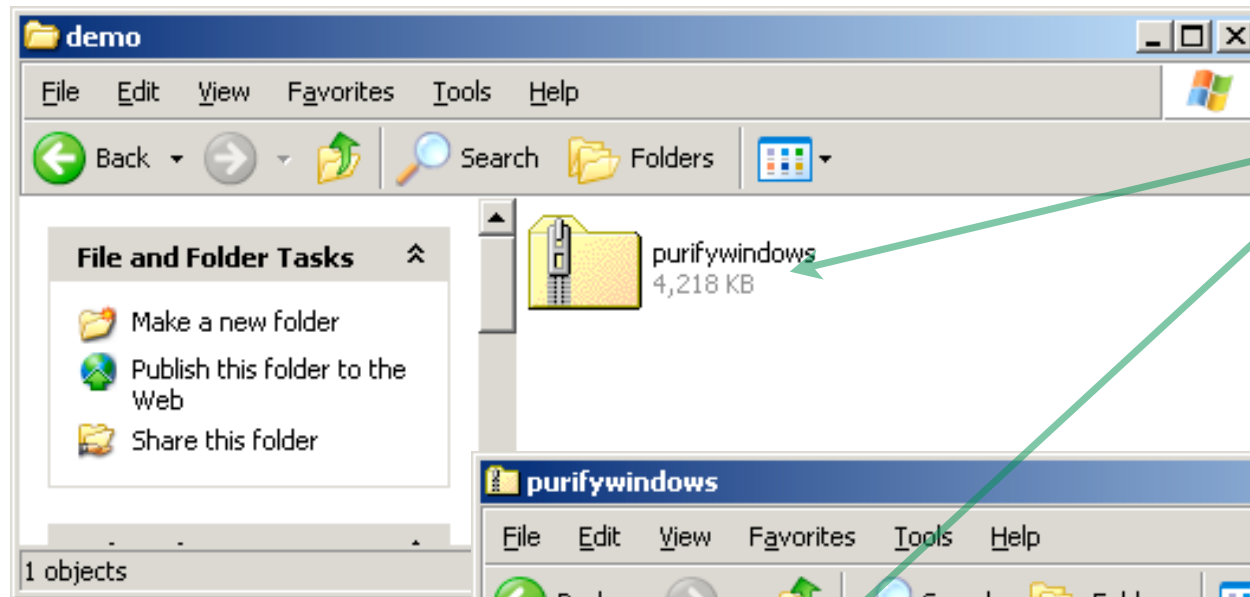
X-PURIFY-RATING: SPAM
X-PURIFY-REASON: Country fault CN, China
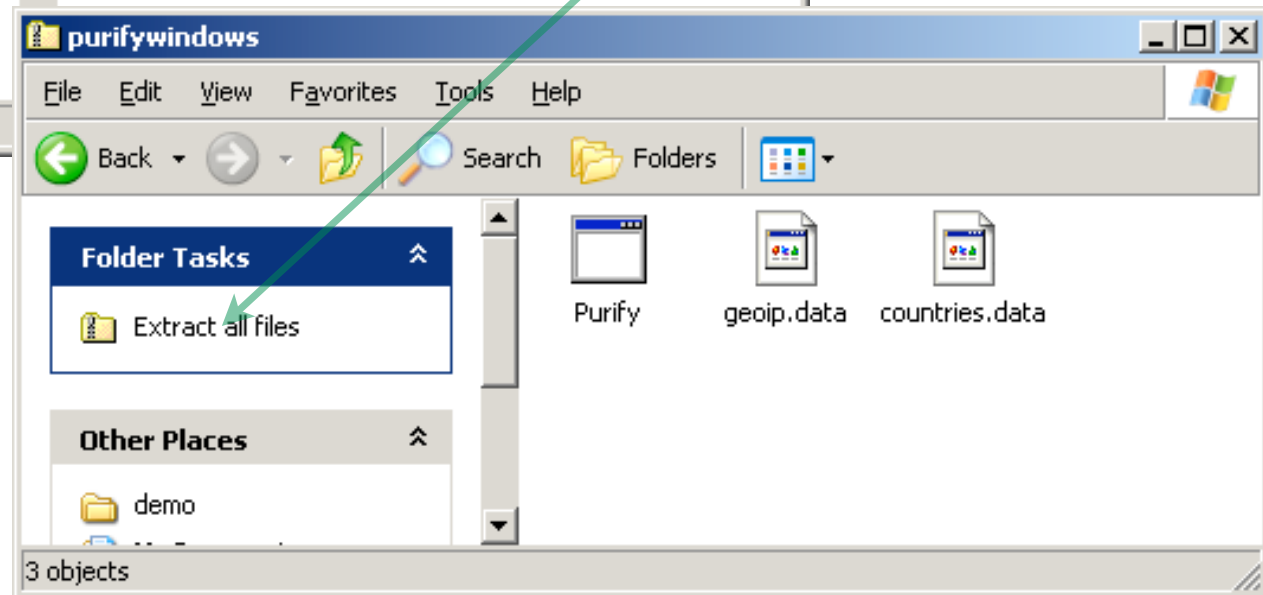
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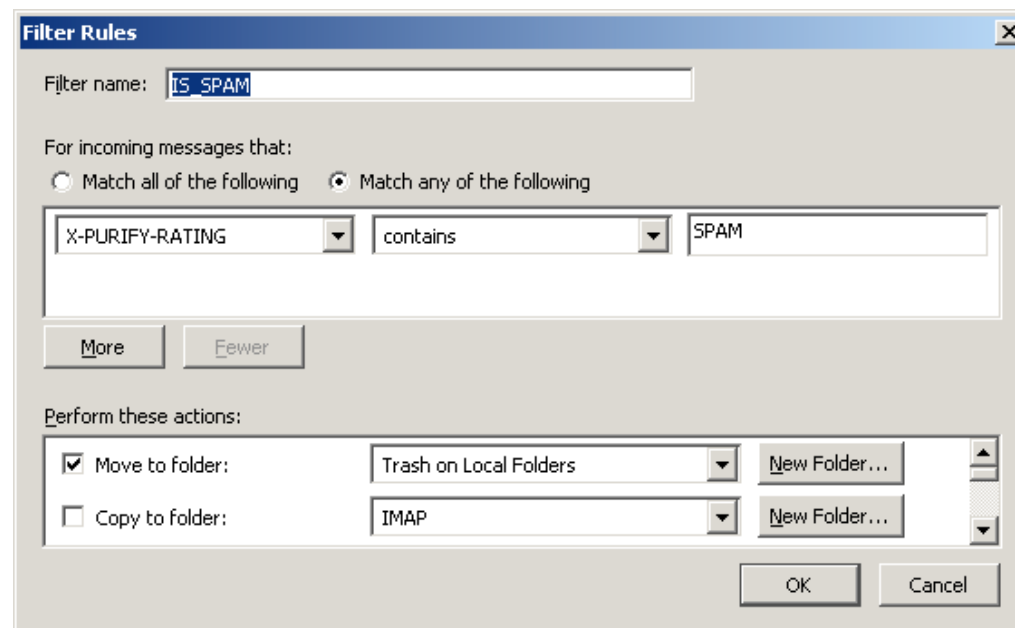
Installation

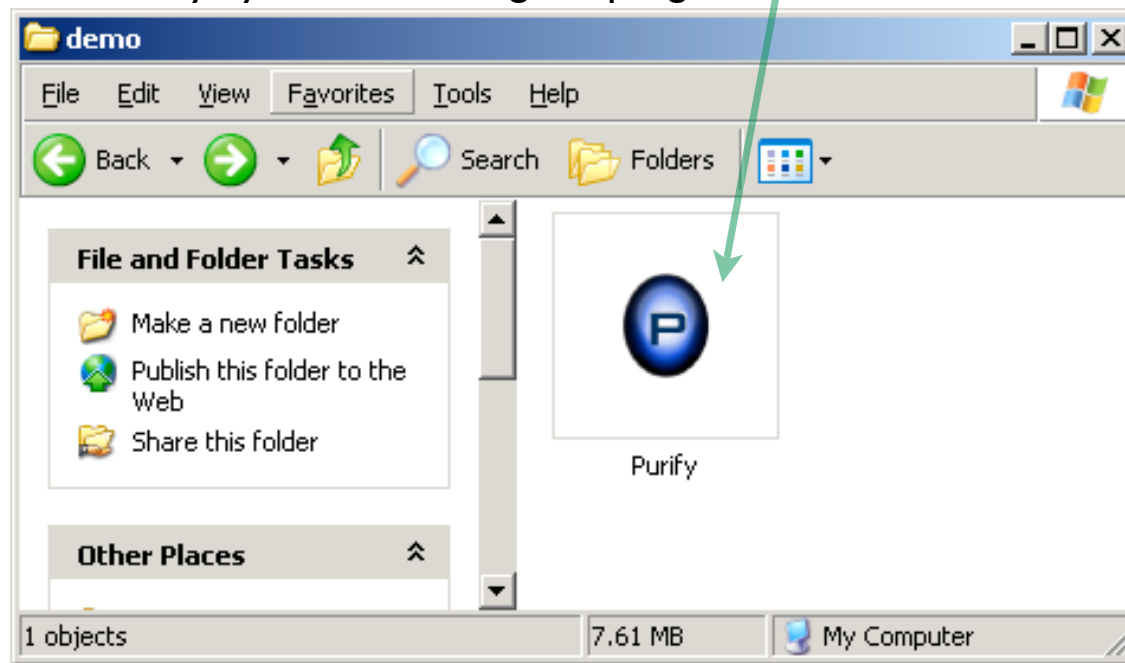So, how do we set this thing up?

Installation (Cont'd)

Double-click the downloaded zip file and extract the contents of the Purify download to the folder of your choice

Note! : Windows users copy ALL of the contents of the .zip file to your destination folder!

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Installation (Cont'd)

Start Purify by double clicking the program.

Note! : Windows 7 users, run Purify as admin!
   Right click, run as admin.

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Installation (Cont'd)

The first time that you run Purify, it will copy its geo reference database (geoip), and its country reference database (countries) to your Preferences folder. It will also create your preferences database (preferences), and rating database (purify) in the same folder.
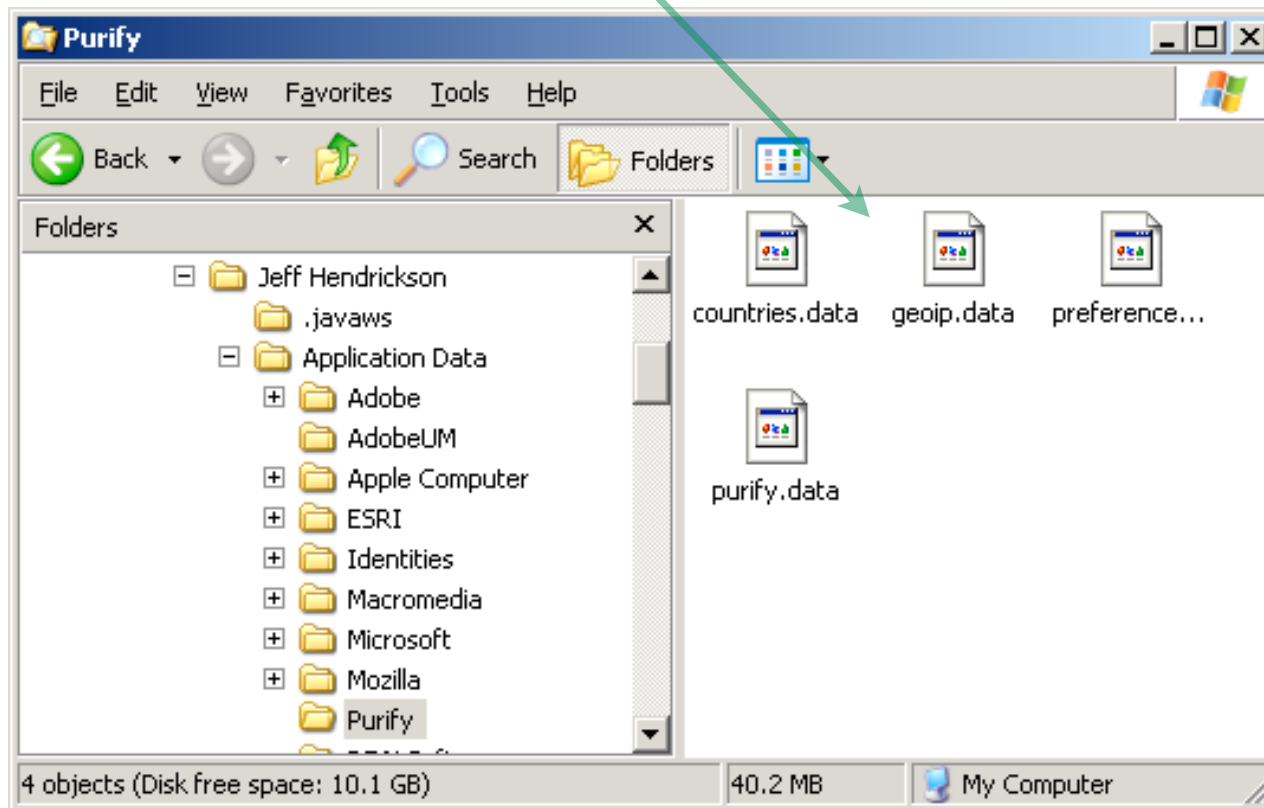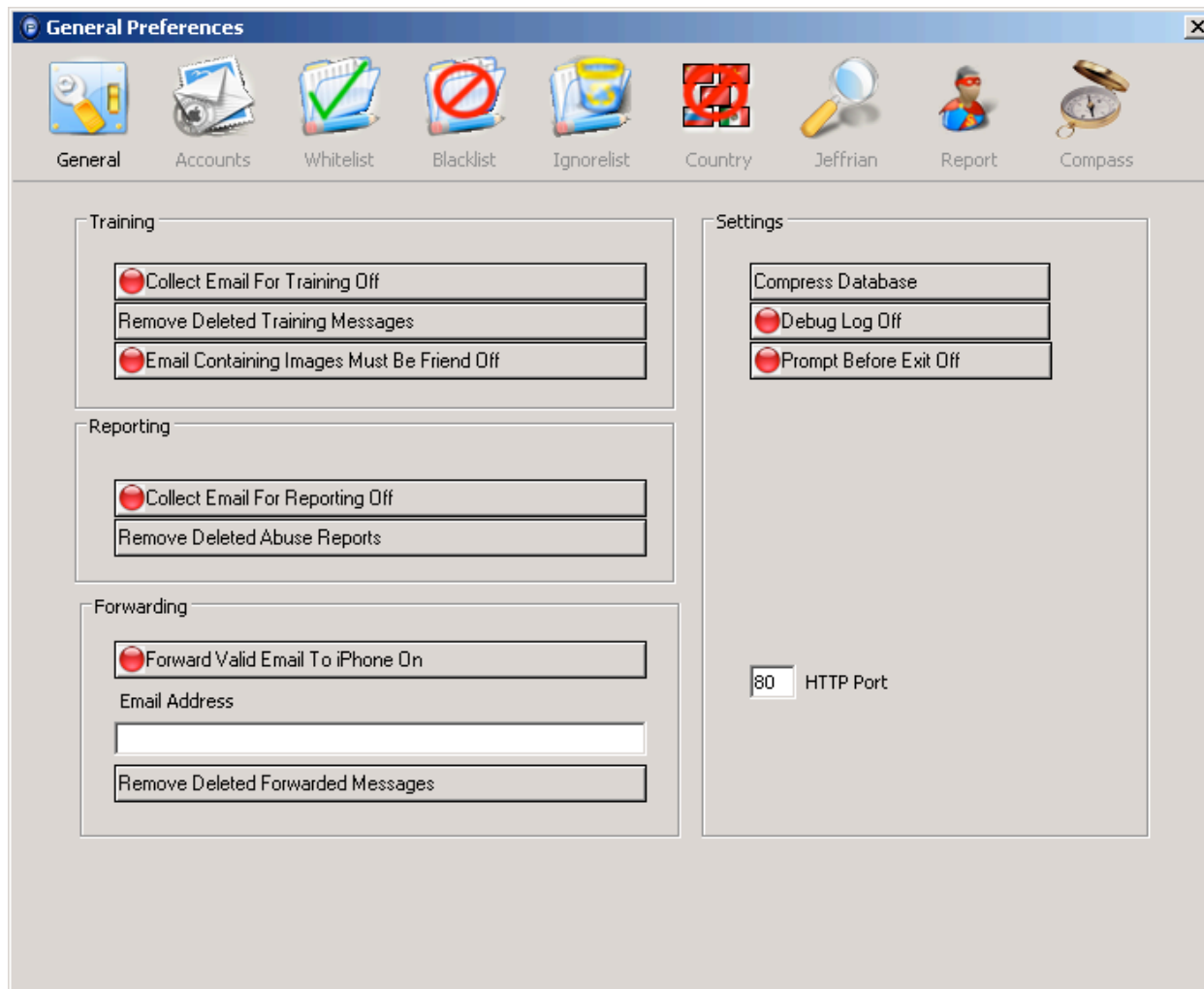
Configuration

From the Purify menu, click Preferences...

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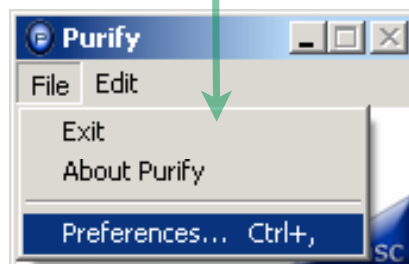
Configuration (Cont'd)

This will bring up the Preferences window.

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Configuration (Cont'd)
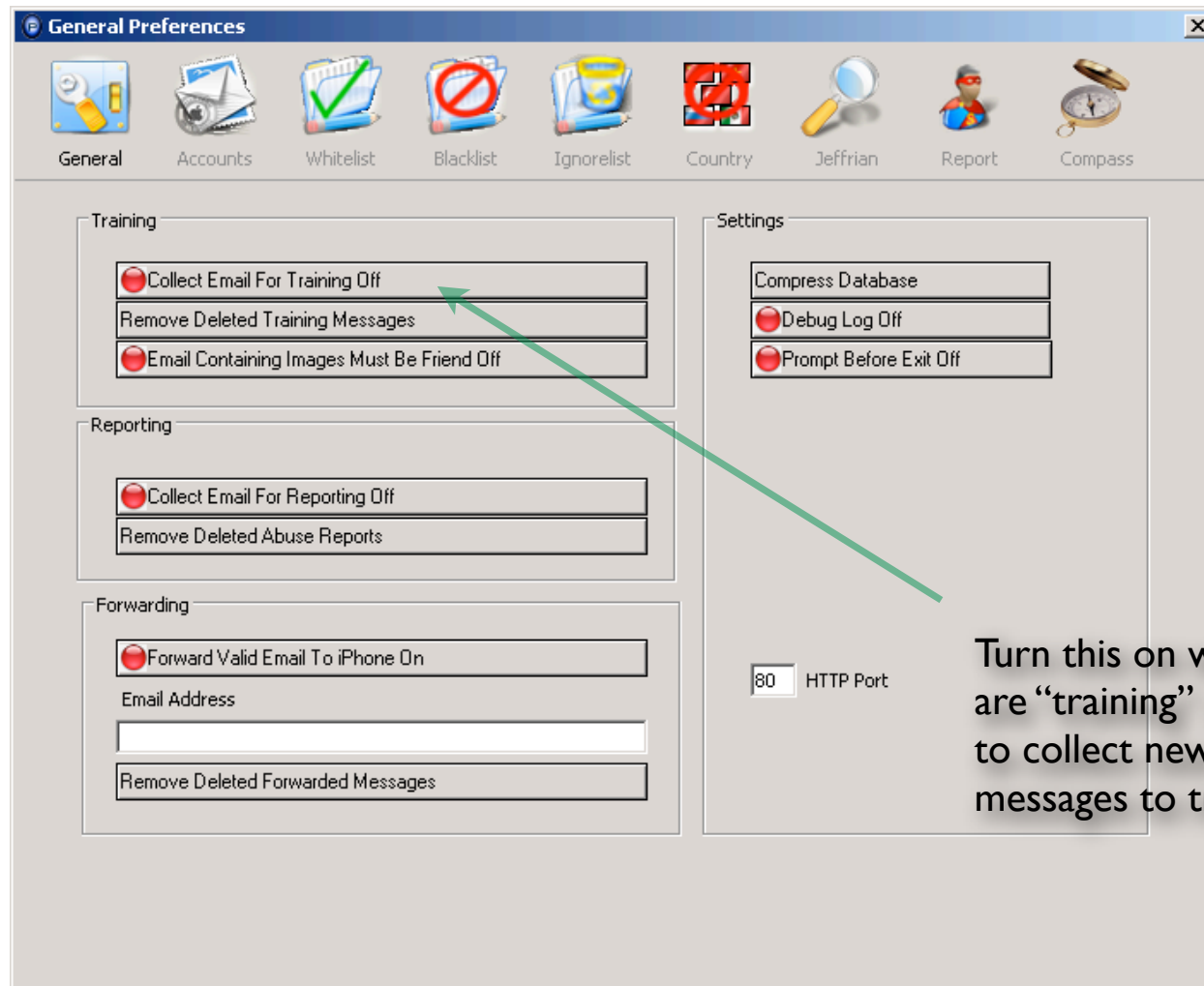
Turn this on while you are "training" your filter to collect new messages to train.

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Configuration (Cont'd)

General Preferences

General | Accounts | Whitelist | Blacklist | Ignorelist | Country | Jeffrian | Report | Compass

Training
- Collect Email For Training Off
- Remove Deleted Training Messages
- Email Containing Images Must Be Friend Off

Reporting
- Collect Email For Reporting Off
- Remove Deleted Abuse Reports

Forwarding
- Forward Valid Email To iPhone On
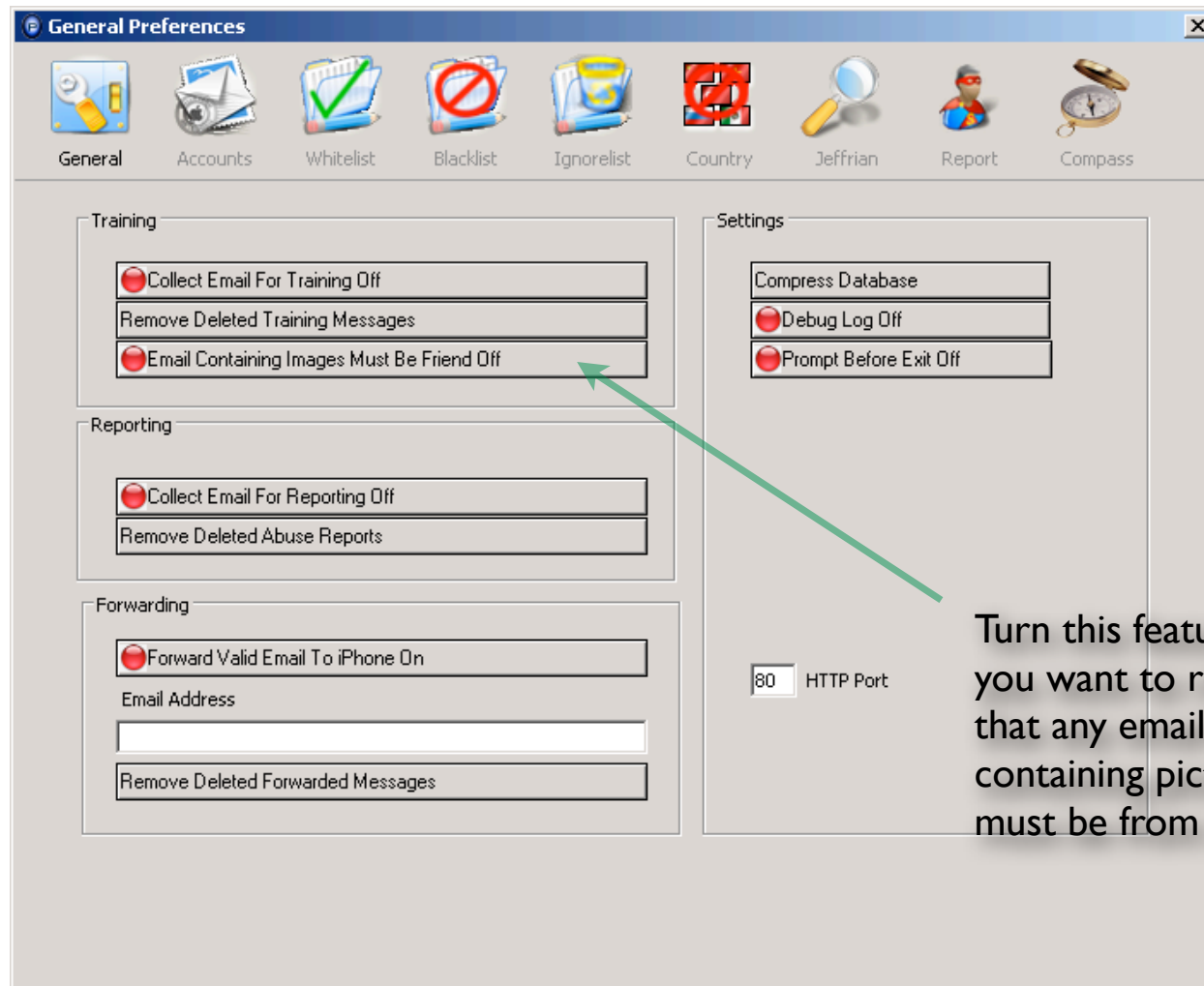- Email Address
- Remove Deleted Forwarded Messages

Settings
- Compress Database
- Debug Log Off
- Prompt Before Exit Off

80 HTTP Port

Click this button to remove the messages that you have trained and marked for deleted in the Purify database.

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Configuration (Cont'd)

General Preferences

General Accounts Whitelist Blacklist Ignorelist Country Jeffrian Report Compass

Training

Collect Email For Training Off

Remove Deleted Training Messages

Email Containing Images Must Be Friend Off

Reporting

Collect Email For Reporting Off

Remove Deleted Abuse Reports

Forwarding

Forward Valid Email To iPhone On

Email Address

Remove Deleted Forwarded Messages

Settings

Compress Database

Debug Log Off

Prompt Before Exit Off

80   HTTP Port

Turn this on if you want to collect abusive email for spam reporting.

Configuration (Cont'd)

Click this button to remove the spam that you have reviewed and marked for deletion.

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Configuration (Cont'd)

General Preferences

General | Accounts | Whitelist | Blacklist | Ignorelist | Country | Jeffrian | Report | Compass

Training
- Collect Email For Training Off
- Remove Deleted Training Messages
- Email Containing Images Must Be Friend Off

Reporting
- Collect Email For Reporting Off
- Remove Deleted Abuse Reports

Forwarding
- Forward Valid Email To iPhone On
- Email Address
- Remove Deleted Forwarded Messages

Settings
- Compress Database
- Debug Log Off
- Prompt Before Exit Off

80 HTTP Port

If you want to forward the email that Purify has rated as HAM, then turn this feature on, and enter the email address to which you would like your email forwarded. Every so often, you'll want to delete the record of your forwarded messages.

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Configuration (Cont'd)

Click this button every so often to recover the unused disk space in your database.

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Configuration (Cont'd)
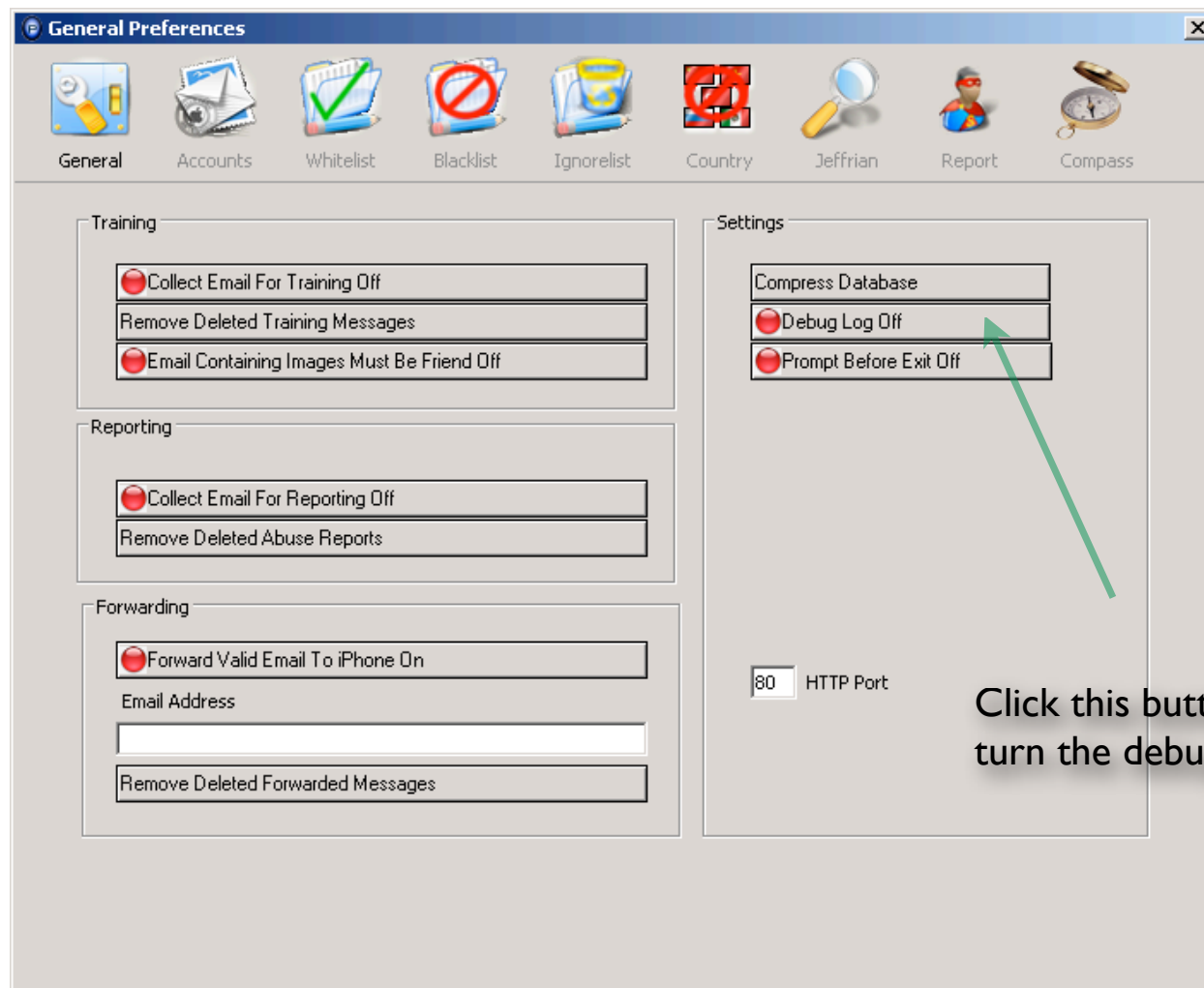
Click this button to turn the debug log on.

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Configuration (Cont'd)

Set this item to your preference of being prompted before Purify exits, or not.

Set your HTTP Port. This should be 80, unless you have been told differently.

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Configuration (Cont'd)

Ok, we're ready to set up your account(s).

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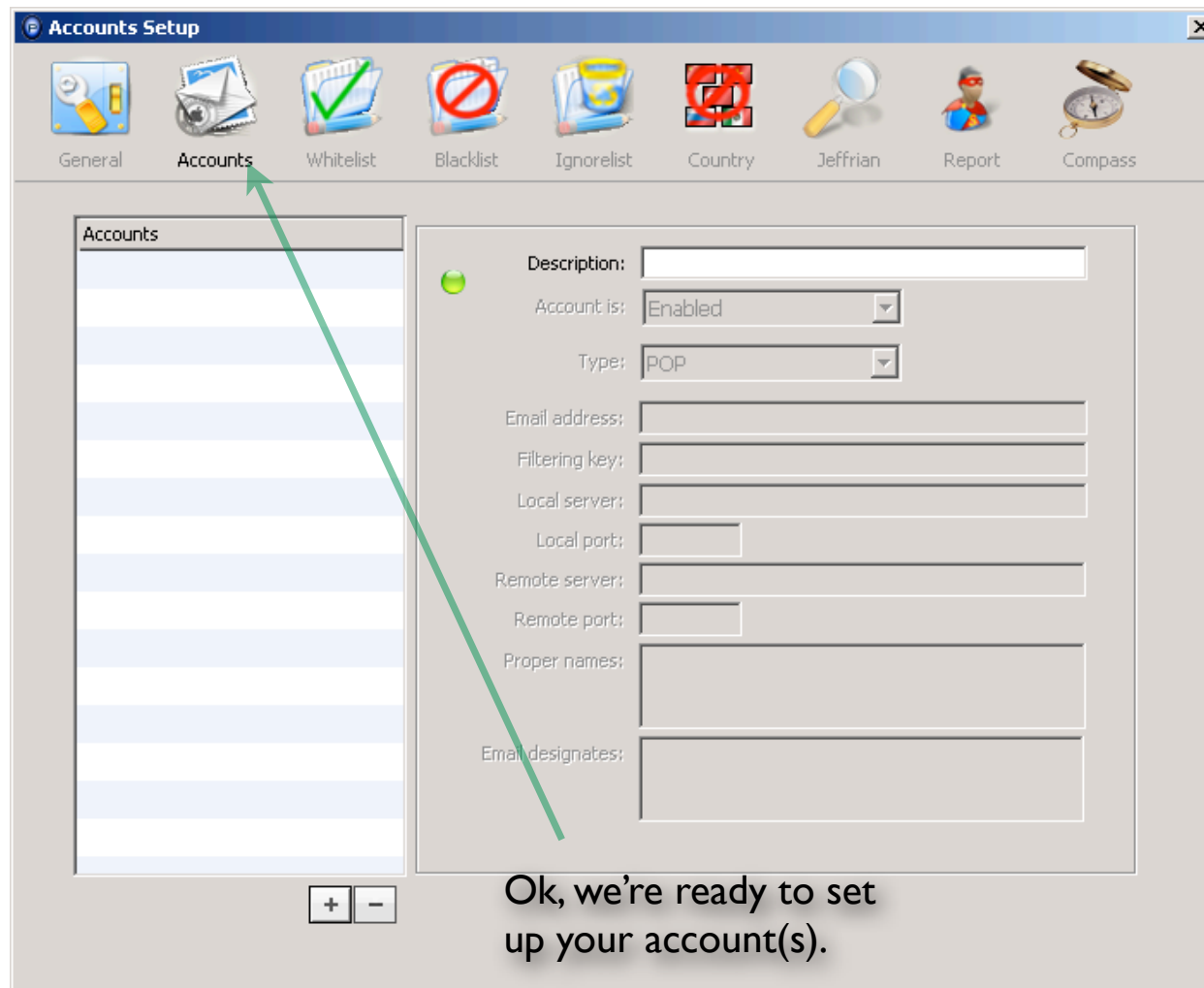
Configuration (Cont'd)

A word about this step before we continue. We need to configure Purify, and your email client software to cooperate to deliver spam-free email. Before introducing Purify to your email client, your configuration might look something like this (Thunderbird example shown)... Note the areas highlighted. These are the ONLY items that we are going to change to enable Purify (more on this in a moment).
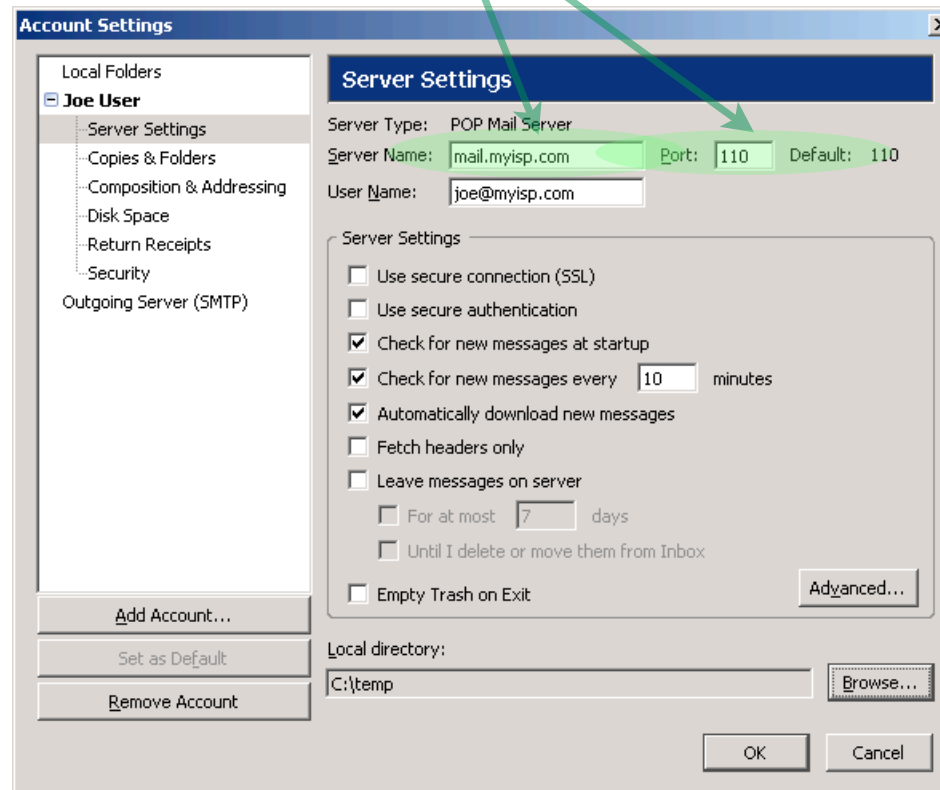
Configuration (Cont'd)

Let's setup a Purify account to support the previous example.

Description.

Status.

Type (POP, POP SSL, IMAP, IMAP SSL)

Email address.
Filtering key. You get this from us when you purchase Purify.

Local server name, this should be localhost unless you know differently.

Local port. Purify will "listen" on this port number for a connection from your email client. Your first account might use 2020, second 2021, etc....

Remote server, port. (Highlighted areas from previous page)

More on these two items in a moment.

Configuration (Cont'd)

Ok, let's configure our email client to match our Purify settings.
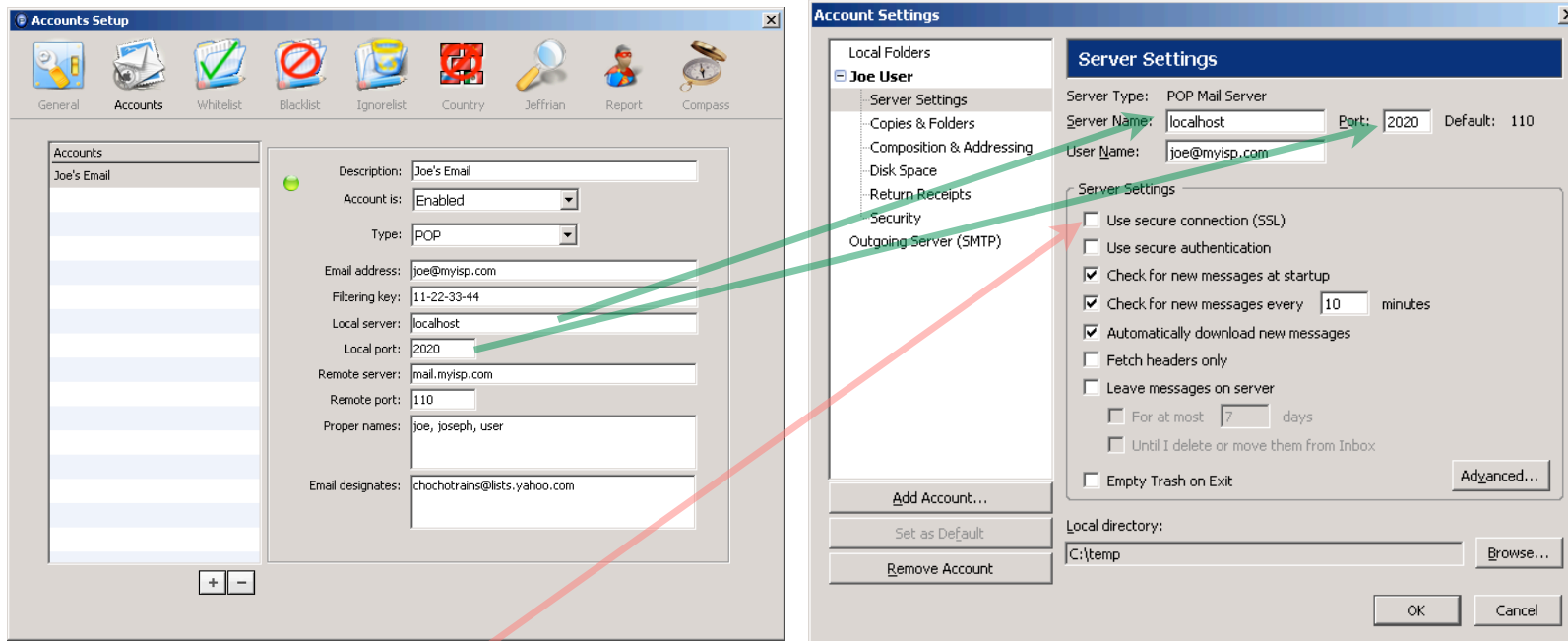
Note: Don't check Use SSL. Purify expects a plain connection between it and your email client. It takes care of the SSL part if/when you use POP SSL, or IMAP SSL in your Purify settings.

Remember "the only two items that will change" in your email client software? Let's change them.

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Configuration (Cont'd)

Ok, here are your email client configuration settings before, and after. Note, only two settings have changed in Thunderbird!

Thunderbird before.

Server Type:	POP Mail Server			
Server Name:	mail.myisp.com	Port:	110	Default: 110
User Name:	joe@myisp.com			

Thunderbird after.

Server Type:	POP Mail Server			
Server Name:	localhost	Port:	2020	Default: 110
User Name:	joe@myisp.com			

This now matches our Purify settings!

Local server:	localhost
Local port:	2020
Remote server:	mail.myisp.com
Remote port:	110

And Purify knows how to connect to your email server!

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Configuration (Cont'd)

Email designates. This is a very powerful Purify filtering feature. If you provide proper names (e.g. jeff, jeffrey, hendrickson), and email designates (e.g. techsupport@hendricom.com), then Purify will check these proper names, and email designates against your received messages, and verify that the message is for you.

Proper names. If supplied, Purify will verify that a message to your email address uses these proper names if they are provided in a message. This prevents the spammer trick of "guessing your proper name" when they send spam. A message to "Betty Hudson" <techsupport@hendricom.com> would be filtered using this feature. To disable this feature, leave proper names empty.

Email designates. If supplied, Purify will verify that a message not directly to your primary email address contains at least contains one of these email designate addresses. This is VERY useful to filter spammer shotgun emails, and will filter an email to nonexistent@hendricom.com. You can also use it to verify email lists to which you belong. e.g. chochotrains@lists.yahoo.com. To disable this feature, leave email designates empty.

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Configuration (Cont'd)

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Import your friends list as a flat ASCII text file. Formatted like:
addy1@dom.com
addy2@other.com

You can also add them one at a time.

Note: The whitelist, blacklist, and ignorelist are all power by "regular expressions." You can use this feature as plain text as demonstrated above, but you will not be fully utilizing its power. You can find out more about regular expressions by visiting the hsc message board, or googleing regular expressions.

Add "whitelist" expressions here. e.g. BIG PAYMENT Messages containing these phrases will be marked by the filter as HAM.

Test the expression (recommended).

Note: Whenever you rate an email as "good" using the Jeffrian filter, the email address of that message is automatically entered into your friends list (more on this in a moment).

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Configuration (Cont'd)

Get a head start by loading the hsc sample blacklist.

Blacklist Expressions

General Accounts Whitelist **Blacklist** Ignorelist Country Jeffrian Report Compass

Add "blacklist" expressions here. e.g. ROLEX WATCHES Messages containing these phrases will be marked by the filter as SPAM.

Test the expression (recommended).

Blacklist Expressions
An*.atrim
\b(C|c).alis\b
(V|v).agra
(L|l)ev.tra
(F|f).onax
(U|u).tram
(V|v).oxx
(V|v)al.um
(X|x)anax
(S|s)oma
(P|p)ainkiller(s*)
hydrocodone
phentermine
\bsexual\b
\bcasin(o|os)\b
hoodia
WONDERCUM
FDA Approved

Load hsc's

Test

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Configuration (Cont'd)

Ignorelist Expressions

| General | Accounts | Whitelist | Blacklist | Ignorelist | Country | Jeffrian | Report | Compass |

Ignorelist Expressions
abuse\@
mailer-daemon\@

Note: This is a very handy feature if you're spam reporting! If you do not wish to see the abuse responses, or bounces from full abuse inboxes, then you can filter them here. For more information please visit the hsc message board.
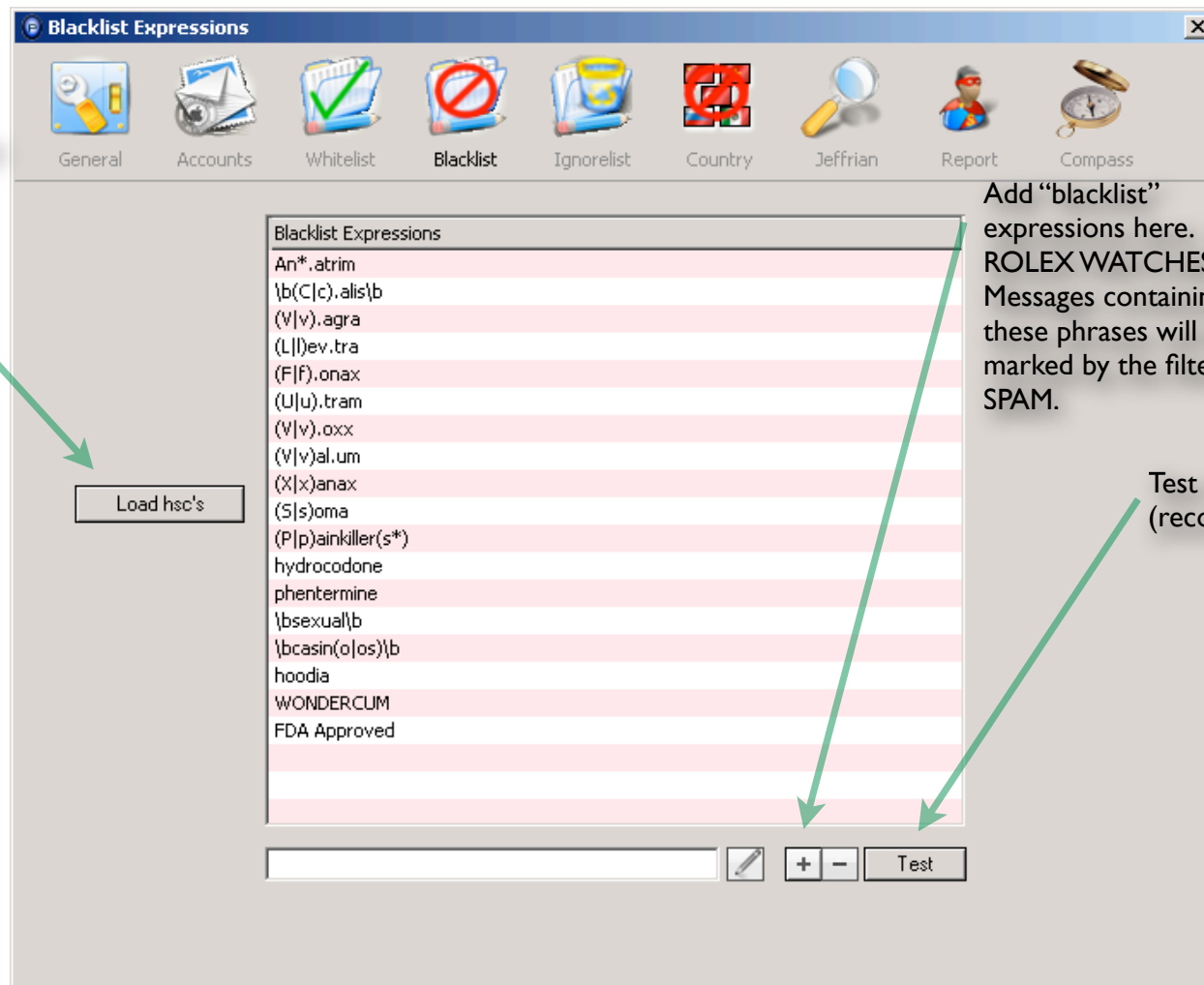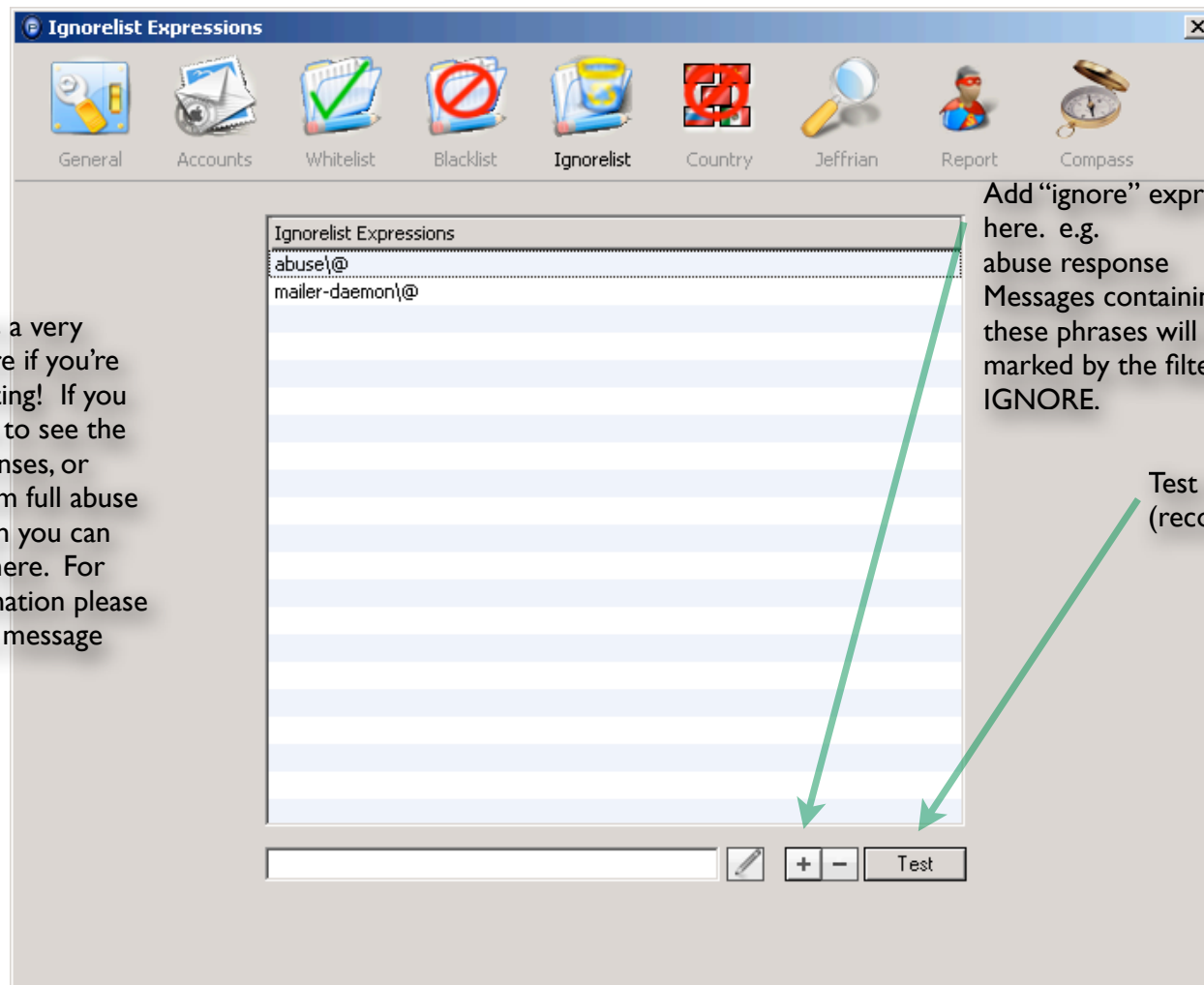
Add "ignore" expressions here. e.g. abuse response Messages containing these phrases will be marked by the filter as IGNORE.

Test the expression (recommended).

Test

Configuration (Cont'd)
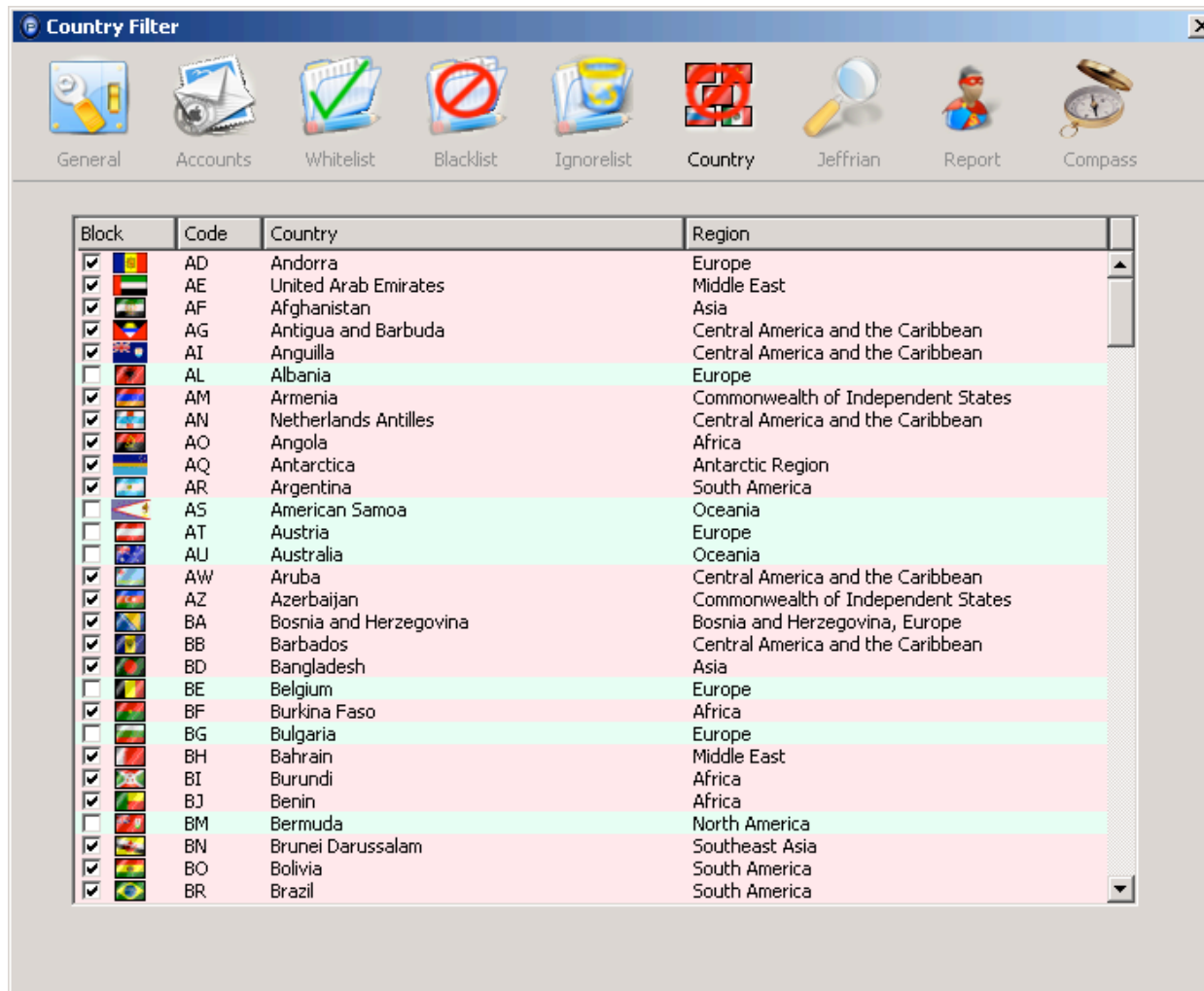
This is a very powerful Purify filtering feature. You can block email by its country of origin!

Imagine the immediate impact on your spam level if you could filter all email originating from Russia, China, Poland, etc...

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Configuration (Cont'd)

This is a another very powerful Purify filtering feature. You can "teach" Purify what you consider good/bad email!

You can train Purify using this user interface.

Train selected message as good or bad, or delete it after you're through training the message.

Test a selected message based on your current settings.
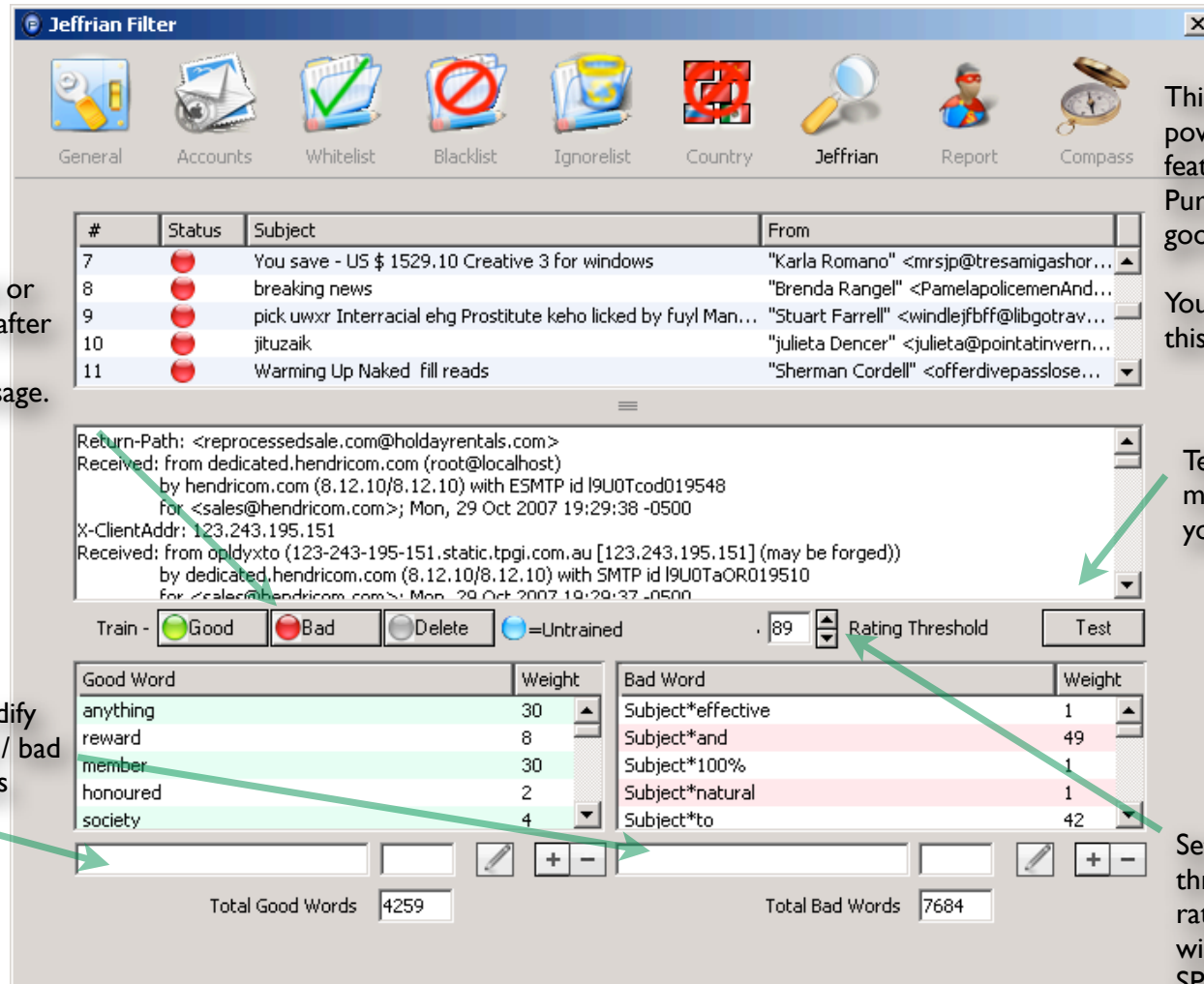
You can also modify your good word / bad word dictionaries here.

Set your rating threshold. Email rated above this figure will be marked as SPAM.

Jeffrian Filter

#	Status	Subject	From
7	●	You save - US $ 1529.10 Creative 3 for windows	"Karla Romano" <mrsjp@tresamigashor...
8	●	breaking news	"Brenda Rangel" <PamelapolicemenAnd...
9	●	pick uwxr Interracial ehg Prostitute keho licked by fuyl Man...	"Stuart Farrell" <windlejfbff@libgotrav...
10	●	jituzaik	"julieta Dencer" <julieta@pointatinvern...
11	●	Warming Up Naked fill reads	"Sherman Cordell" <offerdivepasslose...

```
Return-Path: <reprocessedsale.com@holdayrentals.com>
Received: from dedicated.hendricom.com (root@localhost)
        by hendricom.com (8.12.10/8.12.10) with ESMTP id l9U0Tcod019548
        for <sales@hendricom.com>; Mon, 29 Oct 2007 19:29:38 -0500
X-ClientAddr: 123.243.195.151
Received: from opldyxto (123-243-195-151.static.tpgi.com.au [123.243.195.151] (may be forged))
        by dedicated.hendricom.com (8.12.10/8.12.10) with SMTP id l9U0TaOR019510
        for <sales@hendricom.com>; Mon, 29 Oct 2007 19:29:37 -0500
```

Train - ○Good ●Bad ○Delete ○=Untrained   . 89 Rating Threshold   Test

Good Word	Weight
anything	30
reward	8
member	30
honoured	2
society	4

Bad Word	Weight
Subject*effective	1
Subject*and	49
Subject*100%	1
Subject*natural	1
Subject*to	42

Total Good Words 4259   Total Bad Words 7684

Configuration (Cont'd)

You can do your spam reporting from here.

This is a another very powerful Purify feature. Take revenge on spammers by reporting them to their Internet Service Providers!
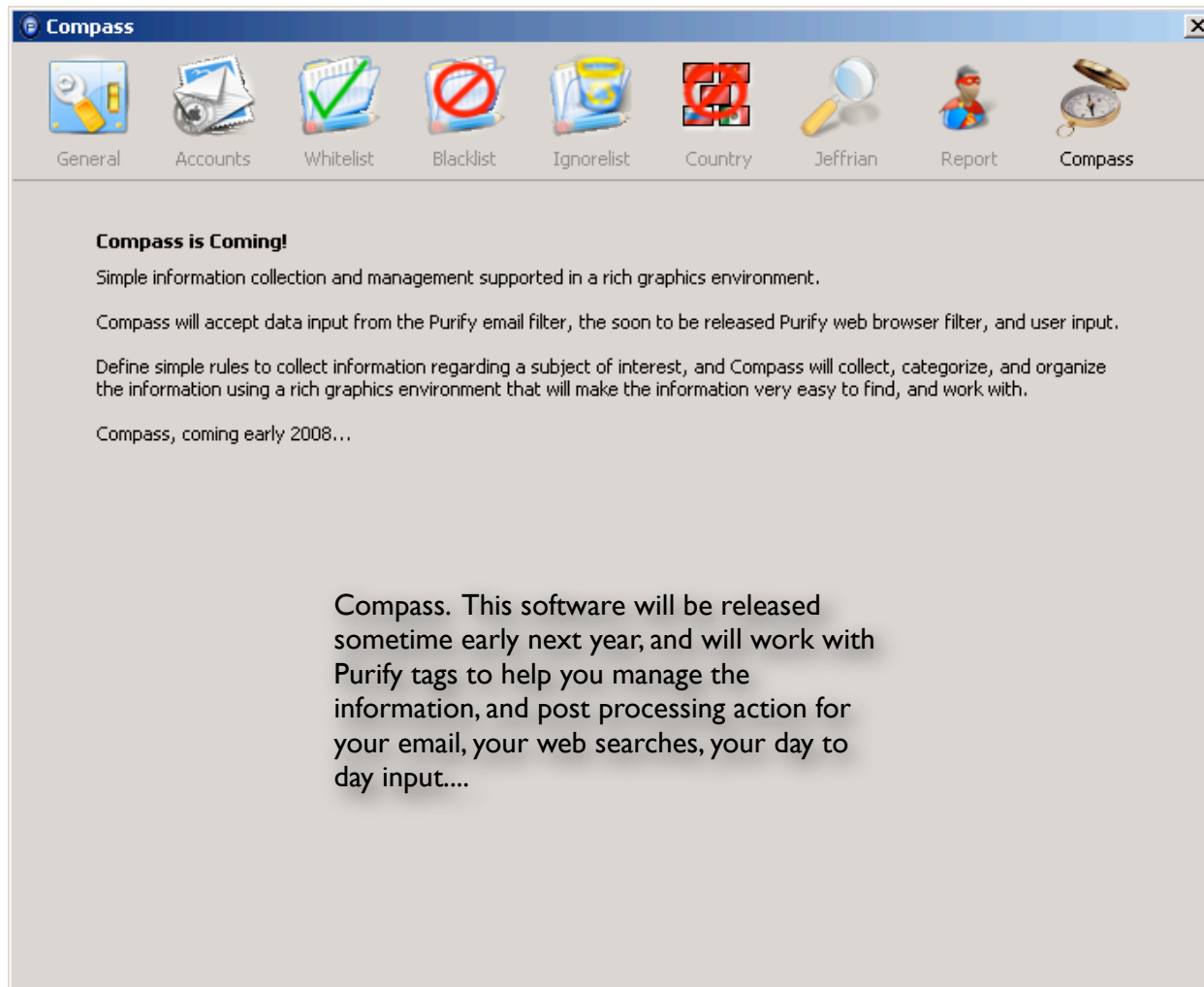
Most of the items on this page are self explaining.

Configure these settings just as if your were configuring your email client software to send email.

You need a reporting key to use this feature (you need to have purchased reporting with Purify).

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Configuration (Cont'd)

Compass is Coming!

Simple information collection and management supported in a rich graphics environment.

Compass will accept data input from the Purify email filter, the soon to be released Purify web browser filter, and user input.

Define simple rules to collect information regarding a subject of interest, and Compass will collect, categorize, and organize the information using a rich graphics environment that will make the information very easy to find, and work with.

Compass, coming early 2008...

Compass. This software will be released sometime early next year, and will work with Purify tags to help you manage the information, and post processing action for your email, your web searches, your day to day input....
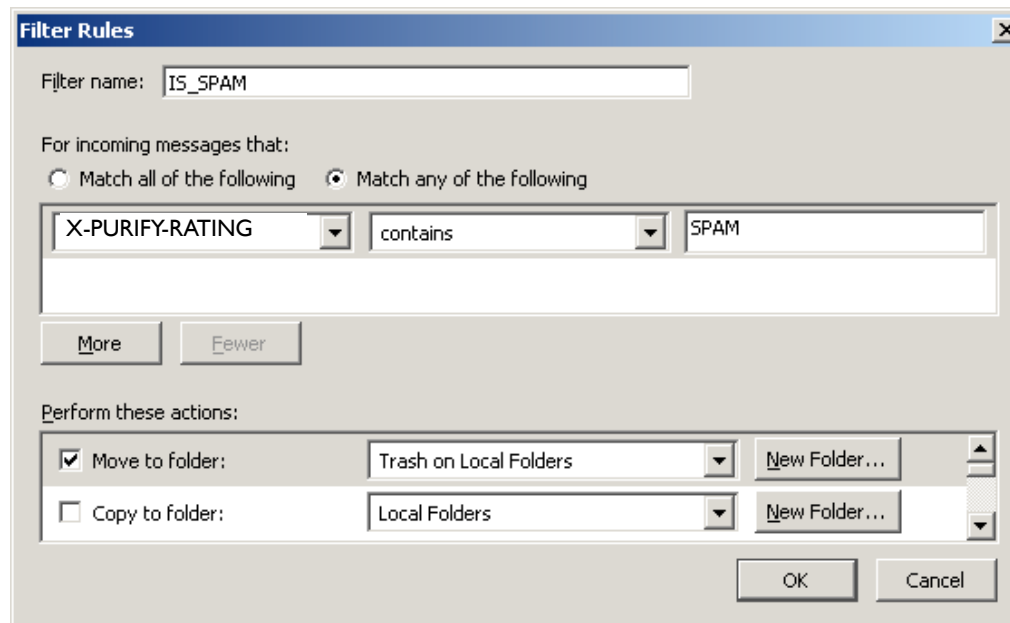
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Operation (Cont'd)

Using the rating information examples from the previous page, you can easily define a rule in your email client software (Thunderbird example shown) that will move messages rated as SPAM to the trash. More on next pages...
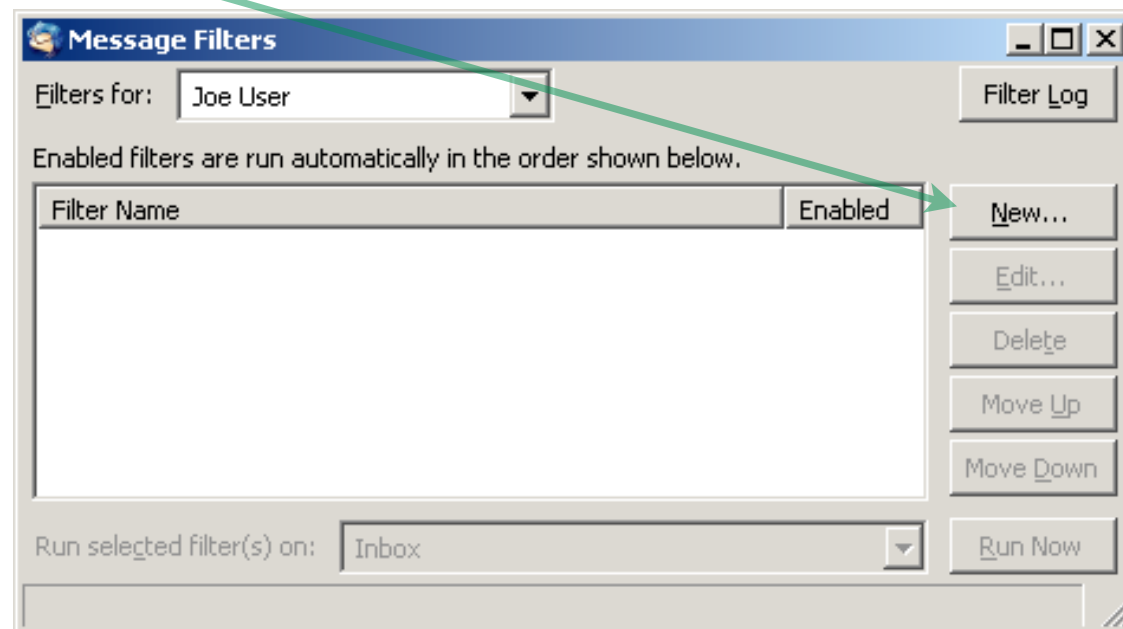
X-PURIFY-RATING: SPAM
X-PURIFY-REASON: Country fault CN, China

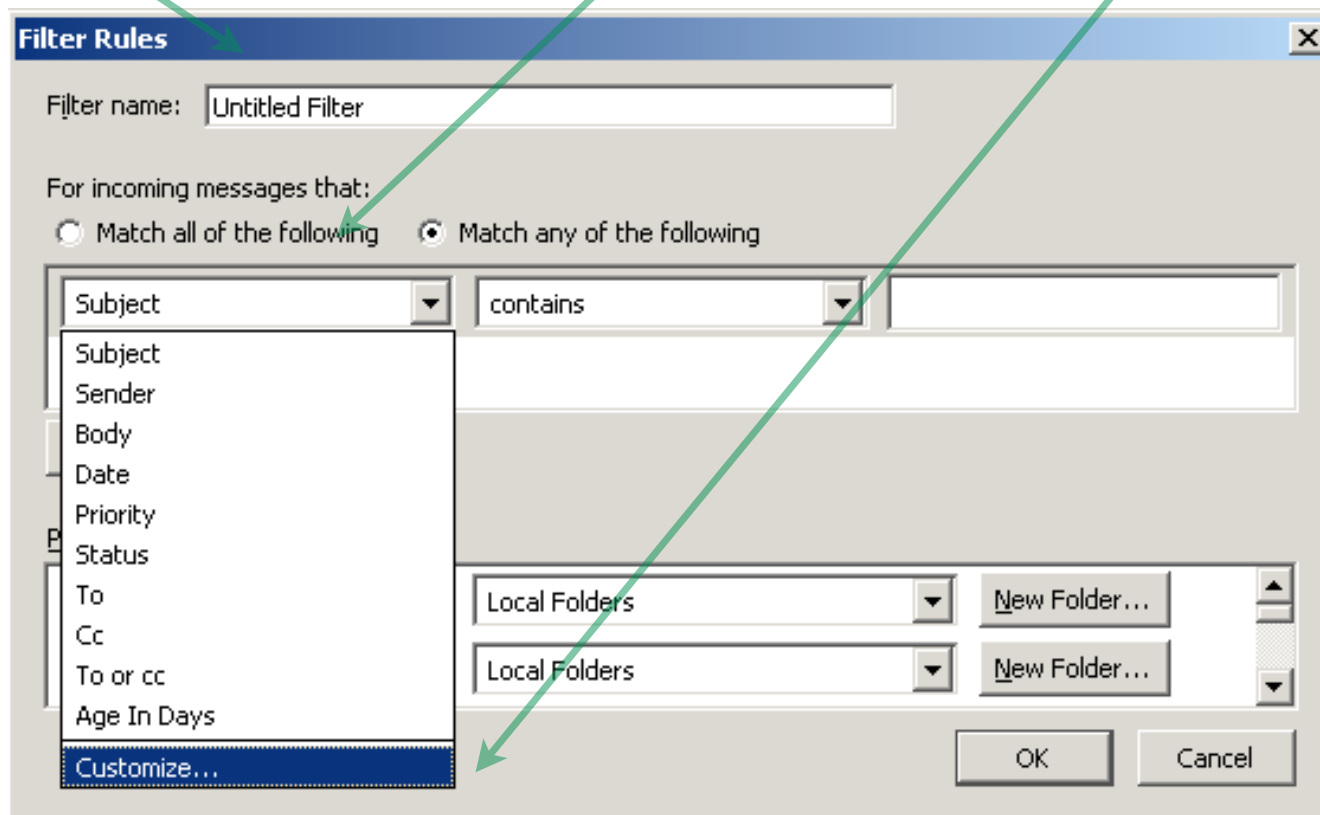hendrickson software components

Operation (Cont'd)

Defined rules to manage your email after it has been rated by Purify. First click New.

Operation (Cont'd)

Enter IS_SPAM in Filter name, click Subject drop down, and Customize...

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Operation (Cont'd)

Type X-PURIFY-RATING here, and click Add, then click Ok.

Customize Headers

New message header:

X-PURIFY-RATING

Add

Remove

OK   Cancel
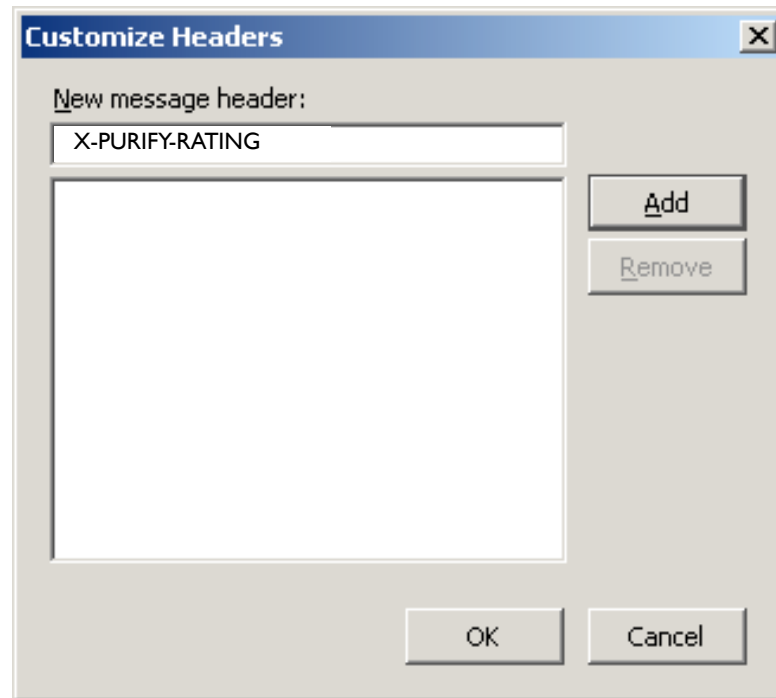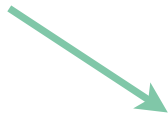
Operation (Cont'd)

Now select the new header that you just defined, Contains, and type SPAM here.

Filter Rules

Filter name: IS_SPAM

For incoming messages that:
○ Match all of the following   ● Match any of the following

| X-PURIFY-RATING ▼ | contains ▼ | SPAM |

[More] [Fewer]

Perform these actions:
☑ Move to folder: | Trash on Local Folders ▼ | [New Folder...] ▲
☐ Copy to folder: | Local Folders ▼ | [New Folder...] ▼

[OK] [Cancel]

Perform the following action, move to Trash, or take any other action that you like.

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Operation (Cont'd)

If you are using Purify's spam reporting feature, you can choose to ignore the abuse responses, and occasional bounces by defining your rule like so...

Filter Rules ⊠

Filter name: | IS_IGNORE |

For incoming messages that:
○ Match all of the following   ⦿ Match any of the following

| X-PURIFY-RATING ▼ | contains ▼ | IGNORE |

[More] [Fewer]

Perform these actions:

☑ Move to folder: | Trash on Local Folders ▼ | [New Folder...] ▲

☐ Copy to folder: | Local Folders ▼ | [New Folder...] ▼

[OK] [Cancel]

Questions?

Email tech support using the contact links on our web site www.hendricom.com.

Visit the hsc message board, users helping users.   www.hendricom.com

Call us: 703-499-6004
Please note: calling should be a last resort, after you've read the manual, and tried the message board.

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Addendum 2.0 Features

Turn this on to move messages trained as "bad" to reporting.

Turn this on to add messages trained as "good" to friends.

Turn this on to treat obfuscated words like v1agr@ as spam.

Set this size to allow large messages through without rating.

Turn this on to enforce country filter for embedded URIs.

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Addendum 2.0 Features

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Blacklist Expressions

General Accounts Whitelist **Blacklist** Ignorelist Country Jeffrian Report Compass

Blacklist Expressions

\btimepieces*\b

Obfuscated Words Check

porn
mortgage
watches
cialis
viagra
replica
order
quality

Add words to this list that
spammers usually purposely misspell
or hide, like v1agr@, m0rtgage, etc.
Purify will automatically generate
code to catch these phrases!

Test

Import   Export   Load hsc's