



Release notes for MailXServer 4.2a

MailXServer 4.2a is available for online update. The following new features are included:

1. **Rules→Edit MIME Type Blocking:**

Added support for attachment MIME type detection. MIME types can be detected and blocked or quarantined if defined per rule basis. The MIME type of a file will remain the same even if users rename the file extension.

Malicious embedded objects (e.g. executable files) can also be detected inside Microsoft Office applications.

Due to the nature of searching for file type signatures within attachments the load on the servers can increase if this feature is enabled.

2. **Rules→No Disclaimer**

Email addresses for recipients can be defined to not receive disclaimers. This is typically used for sending messages to cell phones where the message length is limited.

3. **Reports→Graphs** (see examples at the end of this document)

The ability to view graphs was added to MailXServer. Graphs can be generated for hourly, daily and monthly statistics. Dynamic graphs can also be generated.

The following can be viewed:

- Number of messages in the e-mail queue
- Graylist statistics and connection errors
- Sendmail, RBL, SPF and FL rejection statistics
- The total e-mail messages received grouped by rule match (Receive, Send and Default)
- Statistics on the number of e-mail messages Quarantined or Dropped
- A detail graph indicating the number of:
 - i. Messages that was archived
 - ii. Messages that exceeded the maximum e-mail size (per rule)
 - iii. Number of messages from blocked senders
 - iv. Number of messages with blocked subjects
 - v. Number of messages with viruses found
 - vi. Number of messages that was detected as SPAM
 - vii. Number of messages containing bad file extensions or MIME types.
- Top 10 SPAM graph: This graphs shows the relay addresses of the top 10 servers that is sending SPAM.

- Top 10 virus graph: This graphs shows the relay addresses of the top 10 virus sending servers.
 - Top 10 viruses detected: This graphs shows names of the top 10 viruses received.
4. Added support to set the e-mail size limit per rule. The limit must be smaller or equal to the server wide email size limit.
 5. Added the ability to do forward lookups for valid recipients on flat text files.
 6. Generate summery reports with custom senders or recipients. A report can now be generated for any user even if they do not have their own rule.
 7. Top entry queries can now be generated on cycled databases.
 8. Automatically executed scripts that will execute every 5 minutes, hourly and daily was added to MailXServer. These scripts contain the relevant procedures to ensure the stable running of MailXServer. The time these scripts execute can be defined through Tools → Schedule Jobs.

The Every 5min scripts will:

- Refresh graph statistics

The Hourly script will:

- Do minor maintenance on the auto learning bayes database
- Check disk space usage over 90% on all partitions and send a warning e-mail if the limit is exceeded. The e-mail will be sent to the e-mail address defined on Tools → Schedule Jobs.
- Write out queue graphs statistics
- Reduce known Perl memory leaks by restarting the Perl scheduler.

The hourly script will automatically execute 1 (one minute past every hour. This time can be adjusted using Tools → Schedule Jobs.

The Daily script will:

- Do major maintenance on the auto learning bayes database.
- Do maintenance on the graph database
- Delete old e-mail spool messages from the e-mail queue. Sendmail will automatically deleted expired e-mail messages from the e-mail queue, but some messages are not deleted due to a known Sendmail bug. The date for the deletion will be automatically parsed from the sendmail.cf file.

The daily script should be executed when the server load is low. The scripts will automatically be scheduled to execute daily on 2:06AM. This time can be adjusted using Tools → Schedule Jobs.

9. E-mail messages can be release via a link from administrator quarantine notification e-mail messages. The release page will also state the reason why the message was quarantined.

10. Other minor enhancements including:

- The port for forward lookups using ESMTP can be modified from the default port 25.
- Configuration files are also backed up with the database when the backup command is executed.
- The ability to update the server license key through the GUI after the key expired.
- Some e-mail servers will not accept e-mail messages if the date in the headers is too old. This can stop users from releasing old quarantined e-mail. To bypass this bug the date will be removed from the quarantine header when the message is released.
- The ability to clear session times from the GUI to allow login into the system. This will help bypass pop-up blockers that stop automatic logout from the system. To ensure high security the session can only be cleared through the GUI on the same PC where authentication initially took place.
- Added a logout option next to the authenticated user name
- Removed "Option Disabled" from top entry reports.
- Added select all/none when creating page user rights.
- Added search functions to:
 - i. Forward lookup cache
 - ii. Static white/black –lists
 - iii. RBL cache
- The ability to flush the Graylist Whitelist
- Added colour coded legend to Reports → View log DB and Query Wizard.
- Other minor improvements

NOTE: If you configured your server to automatically do maintenance on the Bayes database you should remove these settings to ensure that no tasks are duplicated.

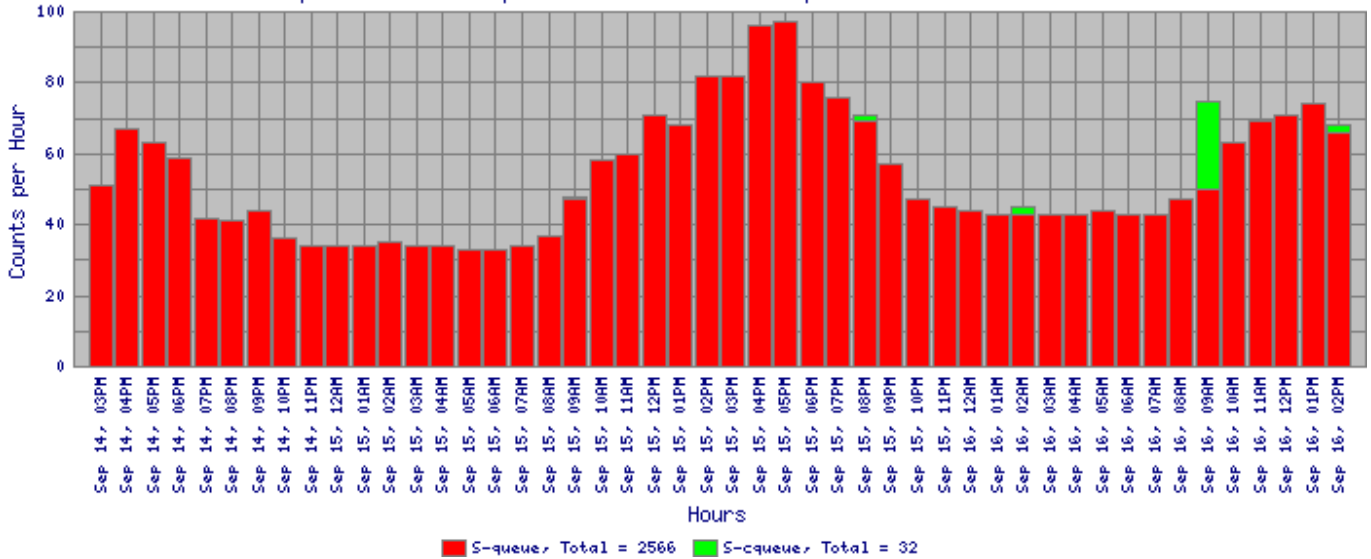
Graph Examples

Graphs: Hourly (Last 48 hours)

Graphs: General

Messages in e-mail queue and client queue

S-queue and S-cqueue Total Counts per Hour (last 48 hours)



X-grayNT: First time graylist entry

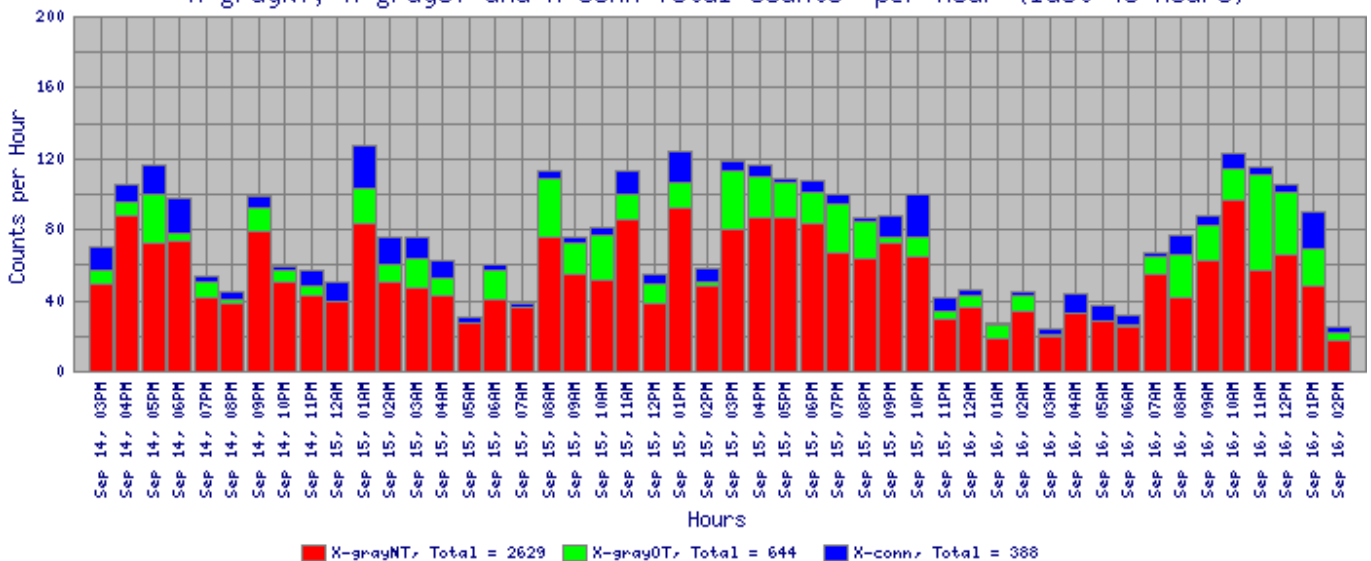
X-grayOT: Servers resending e-mail within the Blacklist or Tempfail Time

X-conn: Remote server did not issue MAIL/EXPN/VRFY/ETRN during connection to MailXServer

Graphs: Before complete message is received (only e-mail headers)

Graylist and connection errors

X-grayNT, X-grayOT and X-conn Total Counts per Hour (last 48 hours)



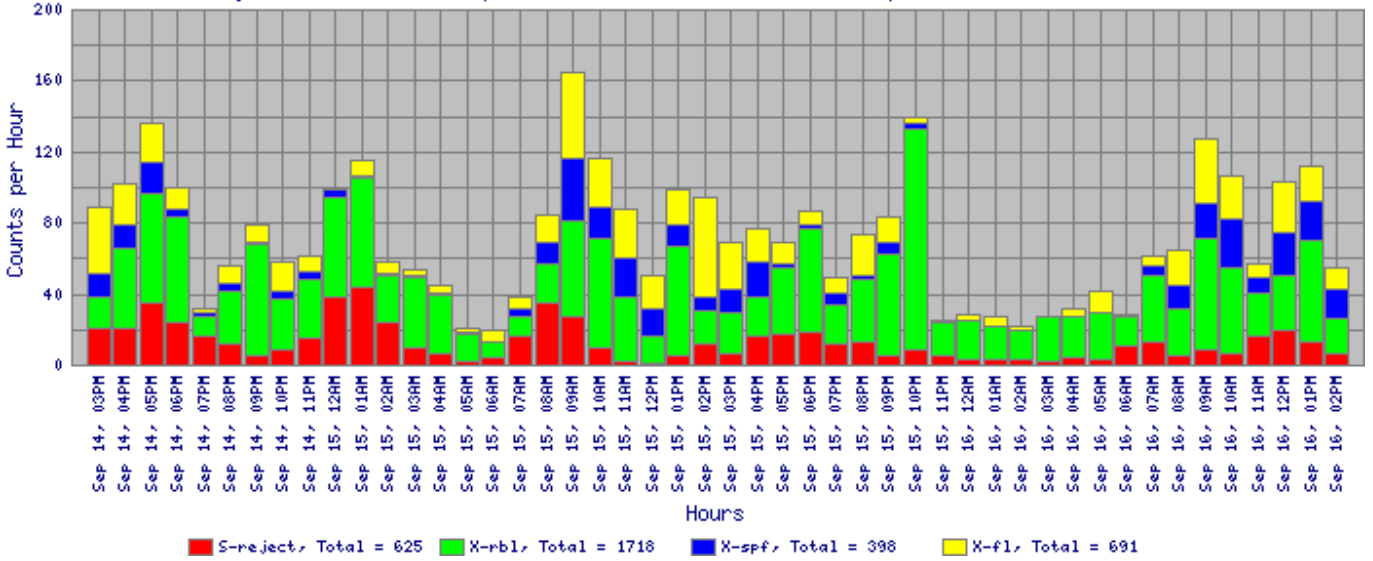
X-grayNT: First time graylist entry

X-grayOT: Servers resending e-mail within the Blacklist or Tempfail Time

X-conn: Remote server did not issue MAIL/EXPN/VRFY/ETRN during connection to MailXServer

Sendmail, RBL, SPF and FL Rejection

S-reject, X-rbl, X-spf and X-fl Total Counts per Hour (last 48 hours)

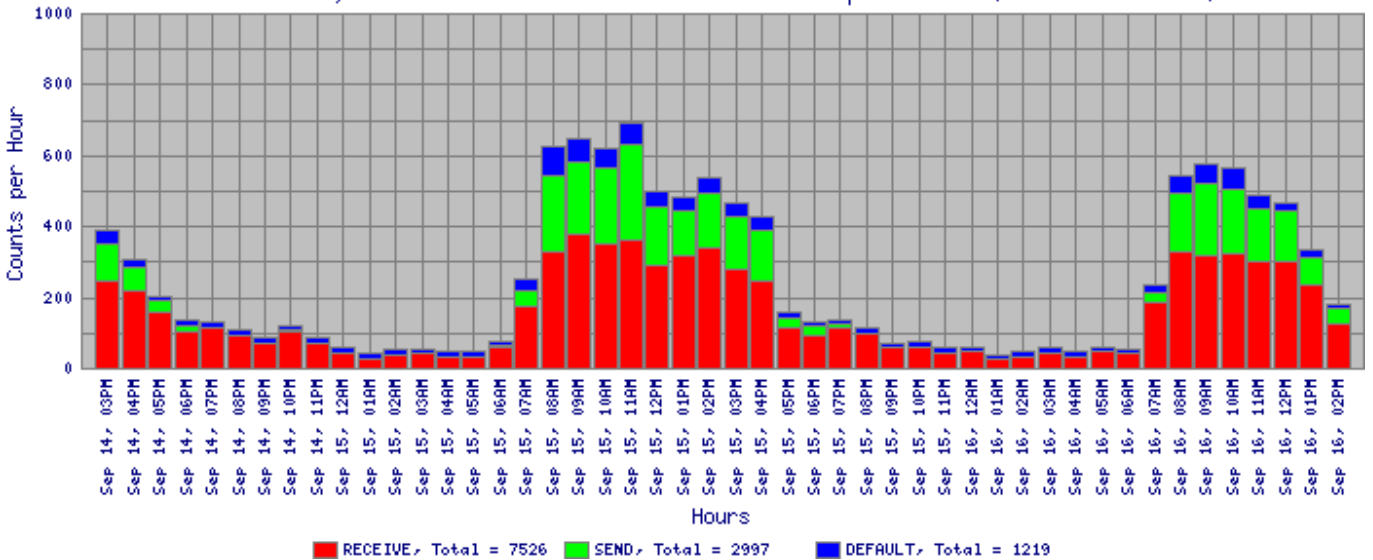


S-reject: Sendmail rejection (e.g. No DNS reverse lookup or global e-mail size limit exceeded)
 X-rbl: Real time spam black lists (RBL) rejection
 X-spf: Sender Policy Framework (SPF) rejection
 X-fl: Forward e-mail lookup rejection

Graphs: After complete message is received

Total e-mail received grouped by rule match

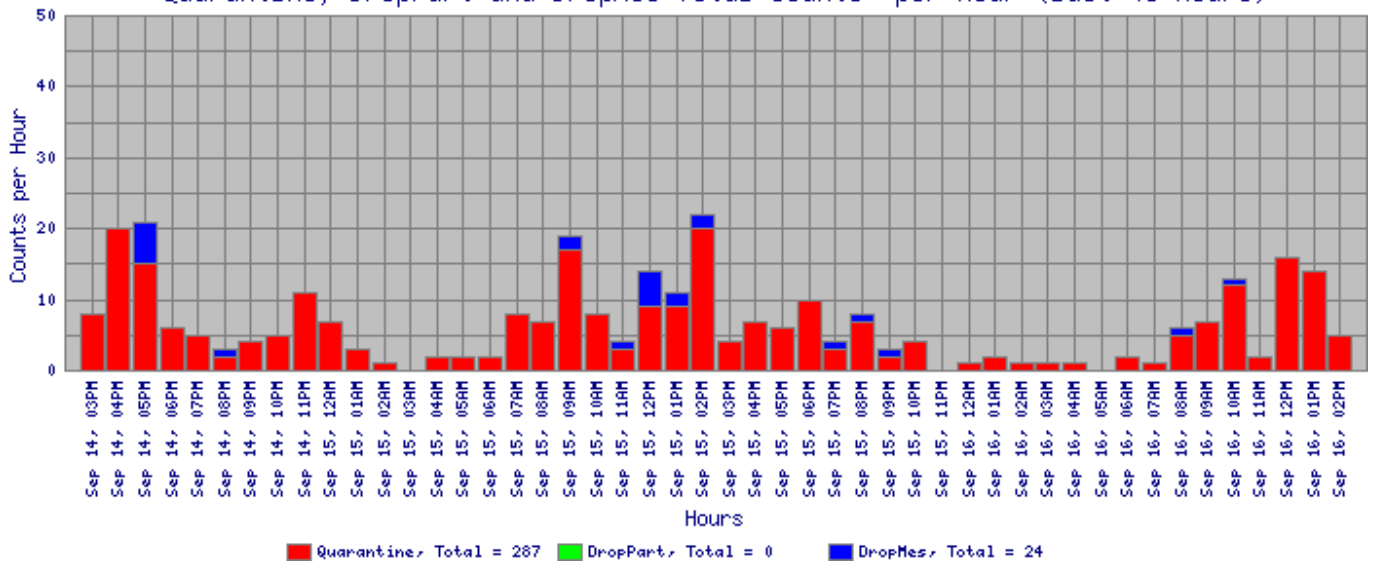
RECEIVE, SEND and DEFAULT Total Counts per Hour (last 48 hours)



RECEIVE: E-mail matched receiving rule
 SEND: E-mail matched sending rule
 DEFAULT: No rule matched for e-mail. Default rule applied.

E-mail Quarantined or Dropped

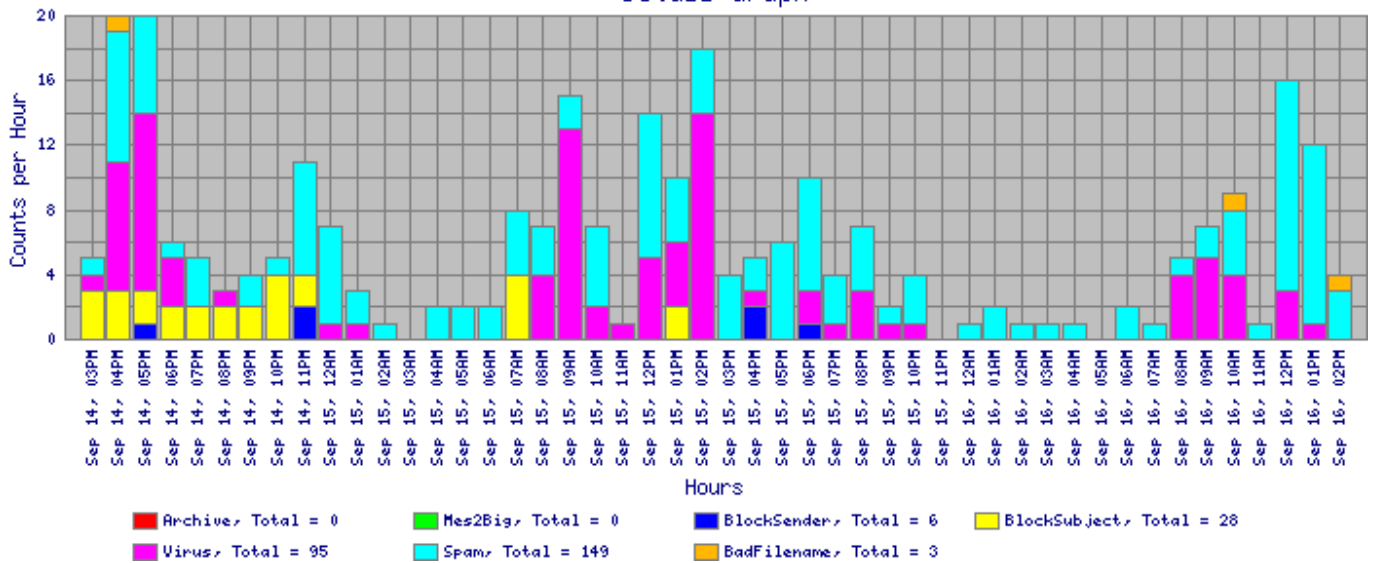
Quarantine, DropPart and DropMes Total Counts per Hour (last 48 hours)



■ Quarantine, Total = 287
 ■ DropPart, Total = 0
 ■ DropMes, Total = 24
 Quarantine: E-mail quarantined
 DropPart: Part dropped
 DropMes: Entire message dropped.

Detail Graph

Detail Graph

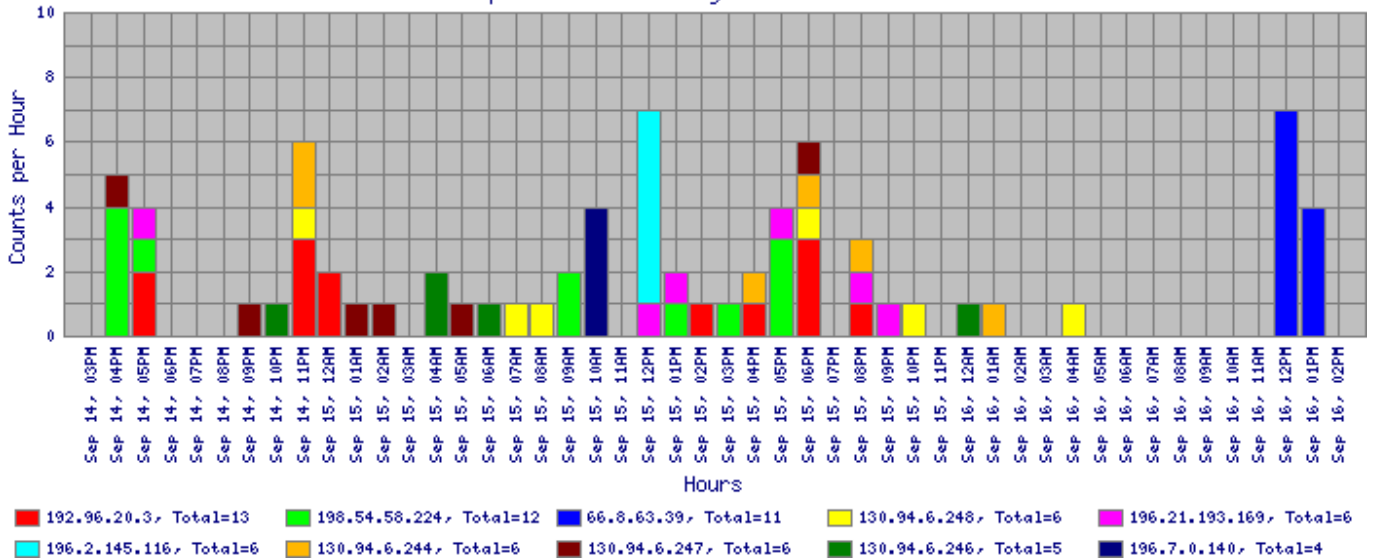


■ Archive, Total = 0
 ■ Mes2Big, Total = 0
 ■ BlockSender, Total = 6
 ■ BlockSubject, Total = 28
■ Virus, Total = 95
 ■ Spam, Total = 149
 ■ BadFilename, Total = 3
 Archive: Messages Archived
 Mes2Big: Message size to big
 BlockSender: E-mail sender blocked
 BlockSubject: Message subject blocked
 Virus: Messages detected with viruses
 Spam: Messages detected with spam
 Badfilename: Messages detected with blocked file types

Graphs: Top 10

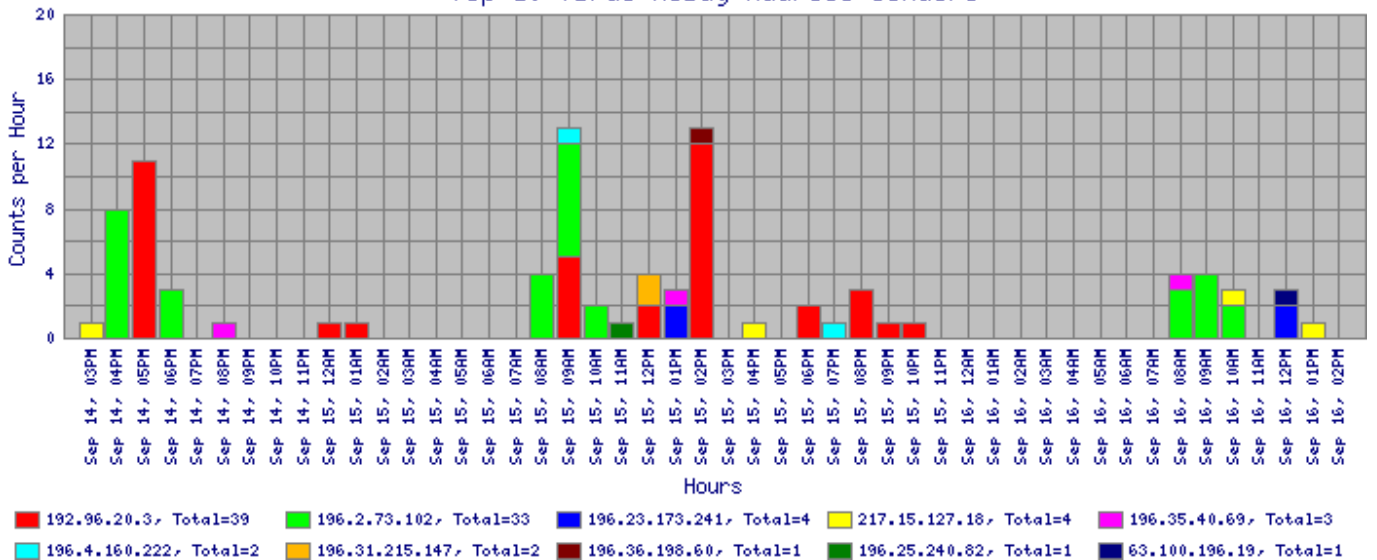
Top 10 SPAM senders

Top 10 SPAM Relay Address Senders



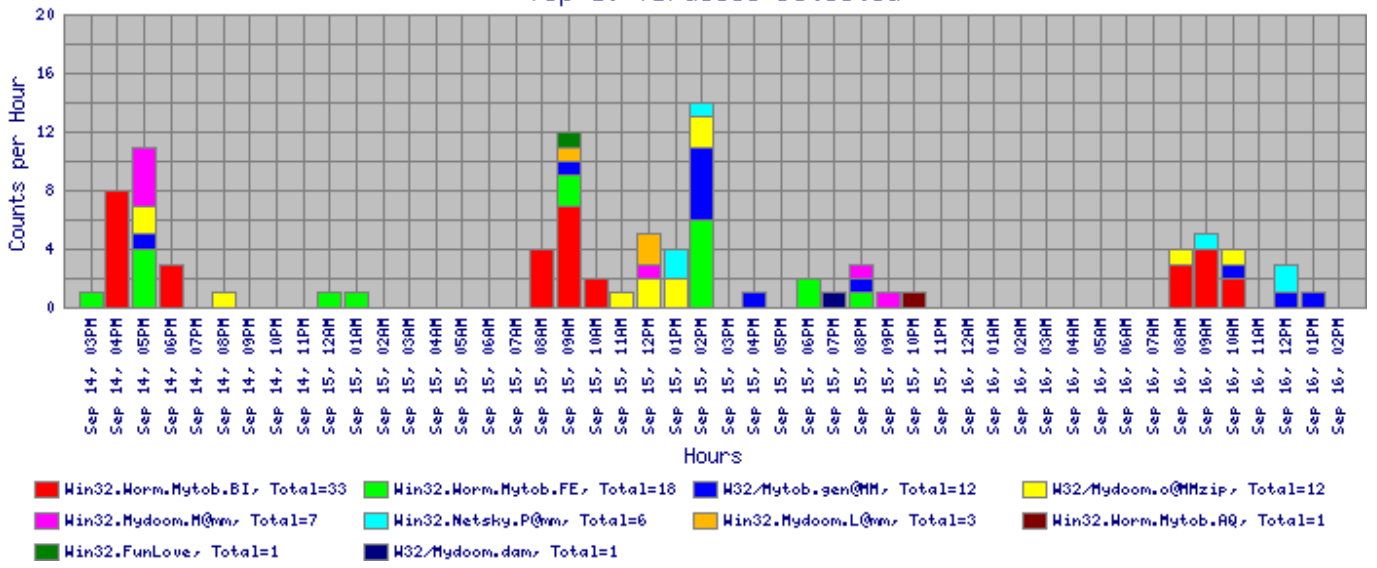
Top 10 Virus senders

Top 10 Virus Relay Address Senders



Top 10 Virusses detected

Top 10 Virusses Detected



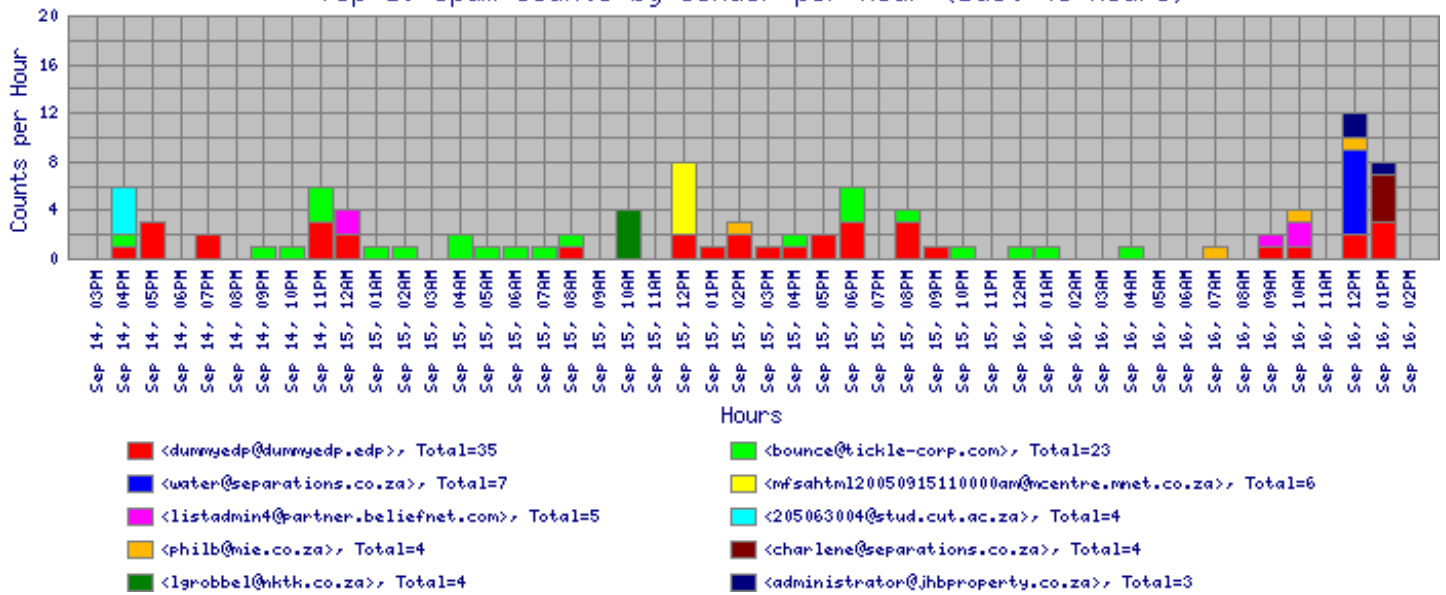
Dynamic Graph Examples

Select graph attributes and click the Submit button

Data Types	Grouping Time	Grouping	Graph Type
<input type="checkbox"/> *SEND	<input checked="" type="checkbox"/> hourly <input type="text" value="48"/>	<input type="checkbox"/> summary	<input type="checkbox"/> line
<input type="checkbox"/> BadFilename	<input type="checkbox"/> daily <input type="text" value="60"/>	<input checked="" type="checkbox"/> sender	<input checked="" type="checkbox"/> stacked_bar
<input type="checkbox"/> BlockSender	<input type="checkbox"/> monthly <input type="text" value="24"/>	<input type="checkbox"/> recipient	
<input type="checkbox"/> BlockSubject		<input type="checkbox"/> subject	
<input type="checkbox"/> DEFAULT		<input type="checkbox"/> value1	
<input type="checkbox"/> DropMes		<input type="checkbox"/> value2	
<input type="checkbox"/> Quarantine		Top N: <input type="text" value="10"/>	
<input type="checkbox"/> RECEIVE			
<input type="checkbox"/> SEND			
<input type="checkbox"/> s-queue			
<input type="checkbox"/> s-queue			
<input type="checkbox"/> s-reject			
<input checked="" type="checkbox"/> spam			
<input type="checkbox"/> virus			
<input type="checkbox"/> x-conn			
<input type="checkbox"/> x-fl			
<input type="checkbox"/> x-grayNT			
<input type="checkbox"/> x-grayOT			
<input type="checkbox"/> x-rbl			
<input type="checkbox"/> x-spf			

X Graph Size: Y Graph Size:

Top 10 Spam Counts by Sender per Hour (last 48 hours)



es, Quarantine, RECEIVE, SEND, S-queue, S-queue, S-reject, Spam, Virus, X-conn, X-fl, X

