



GWAVA 5

General Administration Guide

GWAVA 5

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How GWAVA works

GWAVA is an anti-malware and content management solution which provides complete protection for your mail system through real time scanners. The new Signature scanning engine in GWAVA allows for instant protection with virtually no false-positives without the need for training. The Signature scanner recognizes spam due to a managed definition base which can also recognize most viruses before the mail reaches the virus scanner, adding an extra layer of protection.

GWAVA can fit its scanner to any mail system through a SMTP interface scanner to protect the mail system from attack and wasted bandwidth. In addition, GWAVA is able to implement its scanner in the following GroupWise agent interfaces:

- GWIA scanner
- MTA scanner
- POA scanner
- Teaming scanner
- WASP (WebAccess) scanner

How the different scanners work

The different scanner interfaces offered by GWAVA all utilize the same 'scanner' in the base of the GWAVA system, but each is configured separately to integrate to the different components they are named for. For this reason, each different interface is referred to as a 'scanner', and will be briefly explained below.

SMTP Scanner

The SMTP scanners are the most recent of the scanner options to the GWAVA system, and allow the incoming and, or, outgoing mail to be intercepted, scanned, and filtered completely independent of the mail system. This setup has the distinct advantage of relieving the mail system of unnecessary and unwanted traffic, leaving the mail system resources open to function with greater performance and security.

The SMTP scanner adds a scanning layer between any mail system's SMTP agent and the internet. Outbound mail is forwarded through the GWAVA SMTP, (like a proxy), which can scan the mail and then send messages to the internet. Incoming mail is first received by the SMTP scanner which then sends the filtered mail to the SMTP agent. This scanner allows GWAVA to act independently of your mail system. If used behind a firewall, see the [appendix](#) on suggested open ports.

GWIA Scanner

The GroupWise Internet Agent scanner, or GWIA scanner, intercepts the mail flowing through the GWIA folder structure, scans the mail, then passes clean mail back to the GWIA for normal mail processes. The point of interception comes directly after the GWIA receives the mail from the internet source, or right before the connected GWIA sends the mail across the internet. The GWIA scanner does not directly receive mail or send mail, and has no connection to the internet whatsoever. GWAVA's GWIA scanner instructs the GWIA to place mail it has received into a holding folder structure, called the 3rd folder,

where the mail waits to be scanned by GWAVA. Once the mail has been scanned and sorted, GWAVA places the clean message files into the proper folder, where the GWIA then moves the incoming mail to the MTA and the outgoing mail to the internet destination, as part of its normal process. Clean messages are passed through the system as normal, with no alterations to the file.

Because the GWIA scanner is integrated in the base folder structure, and not in the actual processes of the GWIA agent itself, there is no start or stop order for GWAVA or the GWIA. If a GWIA scanner has been created and installed correctly, then if GWAVA is not running while the GWIA is attempting normal operation, then mail received from the internet, and mail waiting to be sent to the internet, will queue up in the holding folders created for the scanner. Once GWAVA is started, the queued mail will be processed and sent to the internet or the MTA as normal.

MTA Scanner

The Message Transfer Agent scanner integrates into the process of the actual GroupWise agent, adding an anti malware scanner into the normal processes of the MTA. GWAVA utilizes the GWMTAVS virus scanning API provided by Novell. To utilize this API, GWAVA invokes the virus scanning switches in the MTA startup file, calling first GWMTAVS, which then loads the GWAVA MTA scanner interface. Each file passing through the MTA is handed to the GWMTAVS and then the GWAVA MTA interface, which scans the message, reporting to the GroupWise MTA if the message should be blocked or is clean, and can be passed through to the rest of the system. Clean messages are passed through the system as normal, with no alterations to the file.

Because of the nature of the API and the loading process, there is an order to starting and stopping the GroupWise MTA and GWAVA with a MTA scanner. Because it is called during start and not controlled by the MTA on shutdown, the GWAVA interface is the first started, and the last stopped in order to prevent the GroupWise MTA from failing to start or stop. The order to start a GroupWise MTA with an attached GWAVA MTA scanner is, first to start GWAVA, and then start the MTA. To shutdown the MTA and GWAVA, first stop the MTA, then shutdown GWAVA.

Due to environmental variables, the MTA scanner will not function on Windows GroupWise systems.

POA Scanner

The Post Office Agent scanner is the only scanner in the GWAVA suite which is not a real time scanner. There is no API or process that allows the Post Office to be scanned in real time, so GWAVA has created a scheduled scanner which can periodically sweep the Post Office for malware and unwanted or unapproved messages and files.

Utilizing a trusted application key generated by the system administrator, the POA scanner enters and scans each user's post office and messages individually. The POA scanner can be set on a reoccurring schedule or set to run as a single use job, and has the ability to exclusively target or exclude specific user mailboxes as desired for security or policy. Clean messages and files are left completely unaltered. The POA scanner requires the POA to be running in order to operate, but has no start or stop order associated with the operation.

Teaming Scanner

GWAVA can implement a scanner into the Novel Teaming interface to scan virtually all correspondence and work flow through the interface. All input text and transferred files can be scanned through the Tomcat servlet. Essentially, all text messaging, emails, threaded conversation, sent files, and attachments can be scanned by GWAVA.

Files and messages which are caught by the scanner will be blocked, deleted, or quarantined according to the settings and configuration of the scanner. Notification and released messages and mail will be sent through the email system, allowing the teaming interface to be effortlessly moderated, protected, and controlled according to company policy.

WASP Scanner

The GroupWise WebAccess scanner integrates into the WebAccess interface by hooking into the WebAccess servlet, working between the message composition interface of WebAccess and the WebAccess agent. This allows WASP2 to scan all messages for viruses and any defined content before they are sent to the GroupWise server. If a problem is found, the message will not be sent and the user is notified of the problem.

The WASP scanner scans the message as soon as the user clicks 'send' in the WebAccess interface. In case of a problem, the notification that WASP sends to the user will inform them which part has the targeted problem, so they may correct the blocked item and send their message.

WASP can be operated remotely to the GWAVA server, to run on a separate, dedicated WebAccess server if desired, though there must be a quick and reliable network connection between the WebAccess machine and the machine running GWAVA.

Choosing a scanner for your system

The most recommended scanner for any mail system is the SMTP scanner, which has the highest performance and least intrusion to a mail system as well as providing a few services that are not available to the MTA and POA scanners. But the SMTP scanner may not be the best fit for your system.

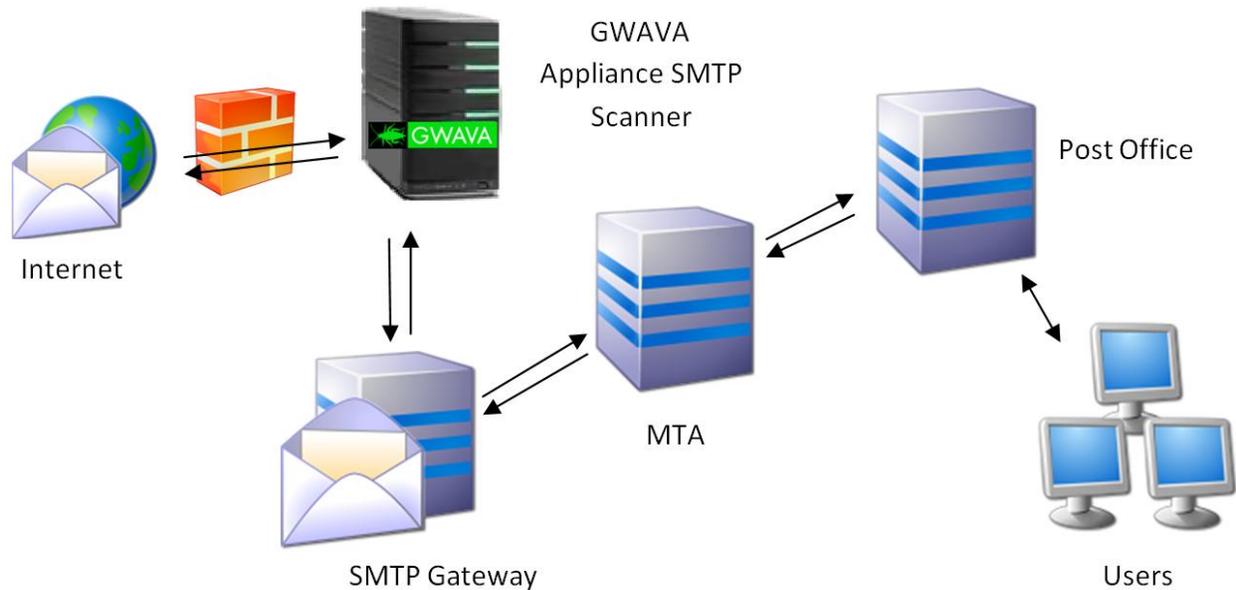
Determine what protection and service needs you have for your GroupWise system in order to determine which scanner would fit best. The POA scanner will only protect the Post Offices on a scheduled basis, and should never be relied on for full protection of your system. The MTA scanner will provide protection between domains and different post offices as well as external mail, but the MTA scanner also has a specific start and stop process, connects directly into the GroupWise Agent structure, and cannot provide the signature service, which appends a specific signature to the end of each message sent.

The GWIA scanner sorts all mail passing through the GWIA, which protects the GroupWise system from all external mail threats. The GWIA scanner provides all options available, including the signature service, and does so without connecting directly into the GroupWise agent structure or requiring a start and stop procedure. If the client computers connected to the GroupWise system are equipped with

virus protection software of their own, there is little advantage to choosing an agent scanner other than the GWIA or SMTP scanner.

The SMTP scanner is designed to provide protection for any email system in the market. The easiest solution to implement the SMTP scanner is to use it in conjunction with the GWAVA Appliance, which completely separates the GWAVA system from any mail structure.

The SMTP scanner acts as a proxy for the SMTP Gateway of your mail system.

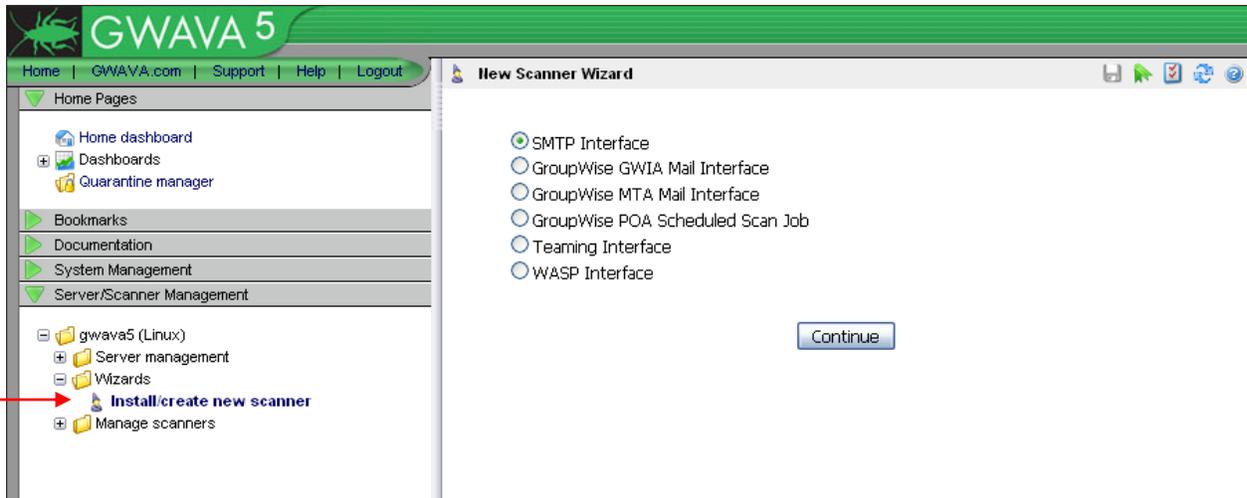


The SMTP scanner and GWAVA appliance are meant to be placed in front of the current GWIA or SMTP Gateway for the mail system. Incoming email sent to your domain will first go to the GWAVA appliance, which scans then sends clean email to the GWIA or SMTP Gateway. Mail sent from your domain will pass through the normal system, but the SMTP Gateway will send the mail to the GWAVA appliance, which sends the email to the internet.

Contact the sales representative for your area if you wish to implement the GWAVA 5 Appliance and SMTP scanner for your system.

Creating a Scanner

Installing a scanner is nearly the first step in creating a functioning GWAVA system, following domain configuration, (covered in the SMTP Interface wizard section), and licensing. If the GWAVA server is to be used in a trial period, the scanner will be automatically placed into bypass mode as soon as the trial period is over unless a license has been applied.



The Scanner creation wizards, (found under Server/Scanner Management | <Server name> | Wizards | Install/create new scanner), walk through the steps and information required to install the different scanners for your system. Select the desired scanner and follow the instructions to install the scanner.

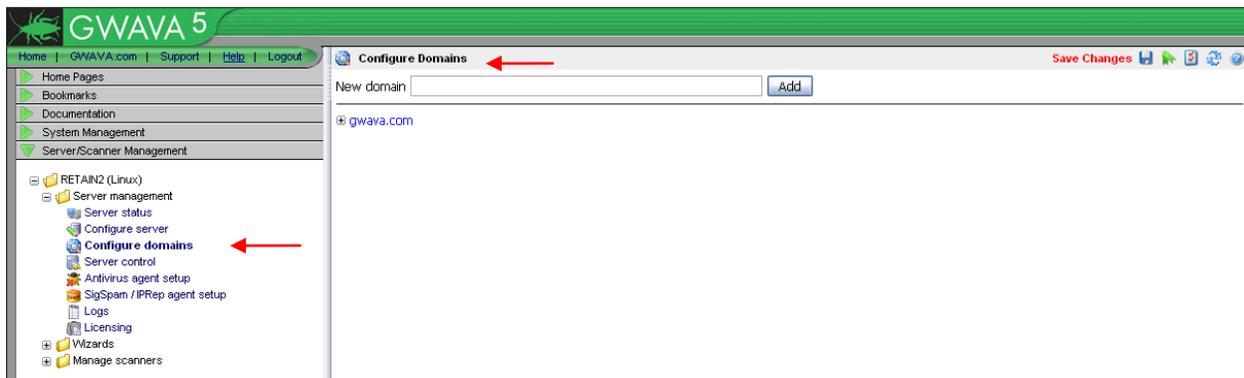
SMTP Scanner

The SMTP scanners are the most recent options to the GWAVA system, and allow the incoming and, or, outgoing mail to be intercepted, scanned, and filtered completely independent of the mail system. This setup has the distinct advantage of relieving the mail system of unnecessary and unwanted traffic, leaving mail system resources open to function with greater performance and security.

The SMTP interfaces add a layer between the GWIA, or any other mail system's SMTP sending agent, and the internet. Sending mail is forwarded through an SMTP proxy, which then sends the filtered, clean mail to the original recipient. Incoming mail is scanned via the SMTP scanner, which then sends the filtered and clean mail to your mail system, unaltered. These scanners allow GWAVA to act independently of your mail system.

The SMTP scanner will only work if your MX record points to the GWAVA SMTP interface for mail delivery, and if your domain and mail system SMTP are listed correctly in your GWAVA system.

GWAVA SMTP will then forward the clean mail to the SMTP Gateway specified during server activation. To view or change the domain and SMTP for your Mail system, go to [Server/Scanner Management | <Server Name> | Server Management | Configure domains](#).



The default domain specified during Server Activation will be specified. Additional domains may be added through the new domain addition field along the top of the screen. As always, make sure you save all desired changes made to the page before browsing to a different section of the management console.

The Mail relay agent SMTP Server and Default domain **MUST** be correct for your system. If you have multiple domains, you must list the additional domains. GWAVA will only accept mail for the listed domain(s). Domains can be deleted or removed from the system by selecting the domain, then the red 'X' next to the selected domain name.

Select the desired domain to expand and modify the settings for the desired domain. The default domain settings are shown below.

When a domain is selected, it is expanded and allows for multiple settings for user mail validation.

GWAVA checks for valid users for each message received, blocking those which are undeliverable due to an incorrect domain or nonexistent user for each domain. GWAVA must have a connection to an active SMTP server for each domain to verify the users. LDAP lookup is also supported. If users or messages are received which do not contain domain information, GWAVA checks these users against the default domain. Be sure to set the default domain for your system.

Multiple SMTP or LDAP servers are supported for failover purposes. If a SMTP server is unavailable GWAVA will send messages to the next available SMTP server listed according to the 'order' value. The 'order' values lowest numbers first, usually with the default SMTP listed as '0', second as '1', and so on.

If the SMTP server requires authorization then the user name and password must be provided for each SMTP server listed. Generally, the authorization username and password will not be needed unless the SMTP server has been specifically configured to only accept authorized connections.

GWAVA shares the user list for each domain between the GWAVA modules, and specific SMTP servers can be selected to serve in different roles for each system, such as using one to receive mail, digests, and notifications, while another is used by QMS to authenticate users. Default settings allows SMTP servers to serve in all roles.

If the SMTP server requires encryption such as TLS or SSL, the setting must be correct.

If the GWAVA server is part of a GWAVA system network with multiple GWAVA servers, then the information from the domains can either be shared across the GWAVA network, or it can be made specific to this one server. For most all systems the option of 'Global' will work sufficiently.

LDAP (optional)

GWAVA supports the option to use LDAP user authentication instead of SMTP authorization for QMS authorization and recipient verification. In general, this will not be required for most systems; LDAP information is only required if you wish to use LDAP for lookup or authentication.



In order to use LDAP for user lists and authorization, the LDAP lookup information must be filled in.

ldap server	username	password	encryption	DN search base	search fields (optional)	order	
ldap1.gwava.com	cn=admin,o=gwava	•••••	no encryption	ou=users,o=gwava		0	✖

For the LDAP server connection address, place DNS name or IP address of the server

The username and password needs to be a full LDAP username including context. The user should have administrator rights.

The DN search base can be set to specify the LDAP tree where GWAVA will begin to search for objects. For eDirectory this field can be left blank, though if set, it specifies a starting point for the search in the LDAP tree. (For instance: ou=users,o=gwava) If using Active Directory the DN **must be set** for the user list to work. (ie. Cn=users,dc=exg,dc=gwava,dc=com)

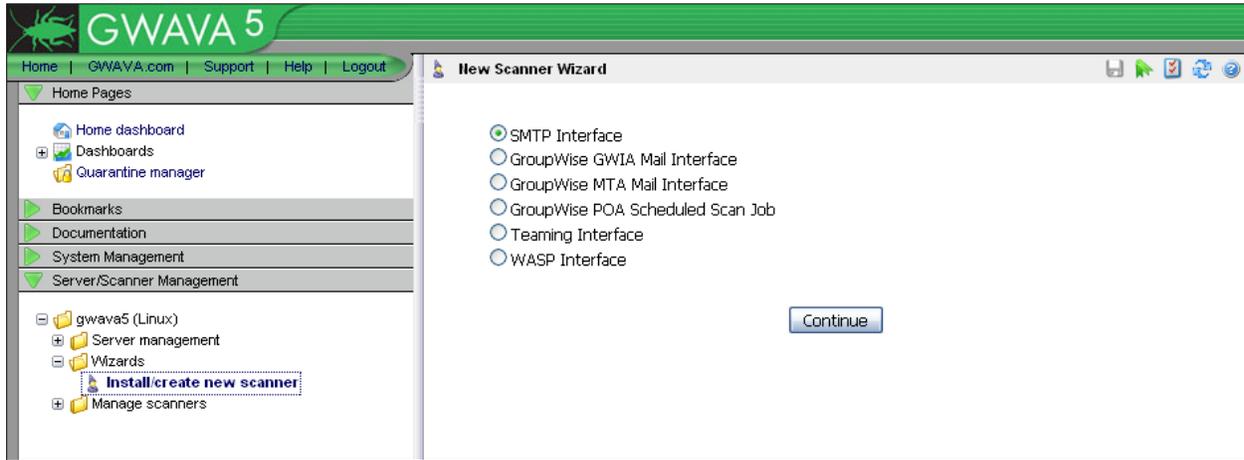
Search fields are usually not necessary for any system to setup, but can be useful if desired. By default most LDAP servers (including eDirectory and Active Directory) have an attribute applied to an object of the type "mail" which contains the object's or user's email address. If you have email addresses for users stored under an attribute other than mail you can specify the possible attributes by separating them with commas.

In the example below the LDAP server is set to search for the attributes 'mail' and 'secondarymail'.

ldap server	username	password	encryption	DN search base	search fields (optional)	order	
10.1.5.12	cn=admin,o=robtain	•••••	no encryption	ou=users,o=robtain	mail,secondarymail	0	✖

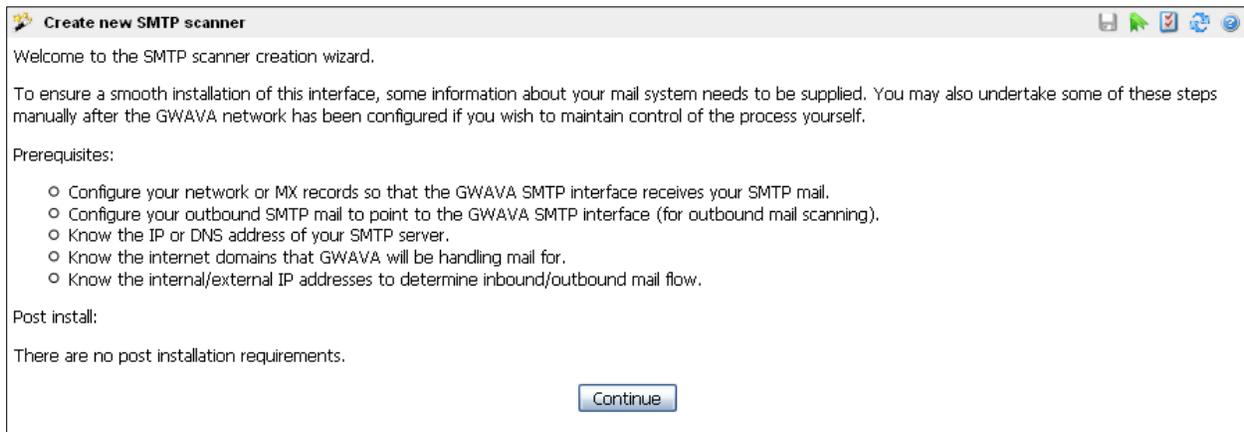
Once the Domains have been properly configured for the system, the SMTP scanner, and any other scanners may be properly created.

Open the Scanner creation wizard, (found under Server/Scanner Management | <Server name>| Wizards | Install/create new scanner), and select the SMTP Interface scanner and follow the instructions to install the scanner.



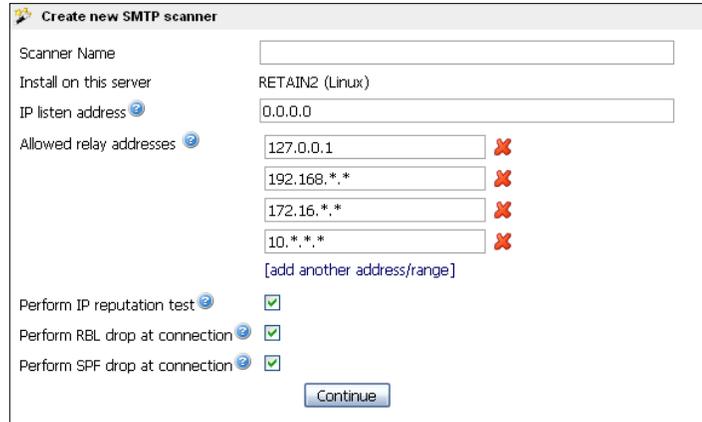
To install a SMTP scanner, select the SMTP scanner option from the wizard and click next.

The SMTP scanner creation wizard informs you of the information you must know to successfully create the scanner.



The **Scanner Name** is whatever you wish the scanner to be named in the GWAVA server.

The **IP listen address** is the address that the SMTP scanner will bind to and listen on. It should be the address of the GWAVA server. This should also be listed on the MX record for your domain. (If the SMTP scanner resides on the same machine as the GWIA, then the GWIA must be



changed to listen on a port other than 25, as the SMTP scanner uses that port. Then inform GWAVA that the 'Mail relay agent SMTP server' – or GWIA – listens on a port other than default. This setting is found on the Server Configuration page. Append the port at the end of the address with a colon. (10.1.1.10:25) See <http://support2.gwava.com/kb/?View=entry&EntryID=1215> for more details.

Allowed relay addresses are the source addresses which are allowed to send mail through the GWAVA SMTP scanner. Your mail system SMTP address should be listed here, as well as any other mail sending source for your domain. Mail coming from these addresses will be treated as outbound mail. No source but these listed addresses will be allowed to send mail through the SMTP interface.

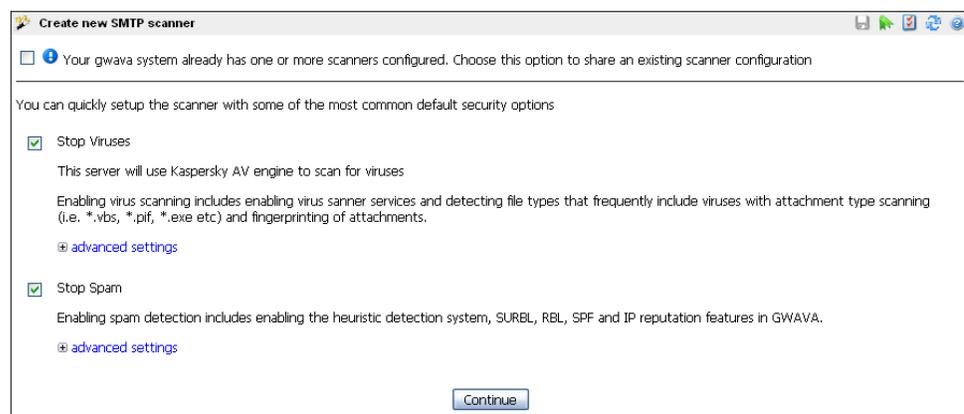
The red 'X' removes listed address ranges and the blue 'add...' link provides an extra address/ range box.

IP Reputation, **RBL**, and **SPF** drop at connection settings are recommended as default. This dumps any incoming message that fails these initial incoming tests, saving bandwidth and performance.

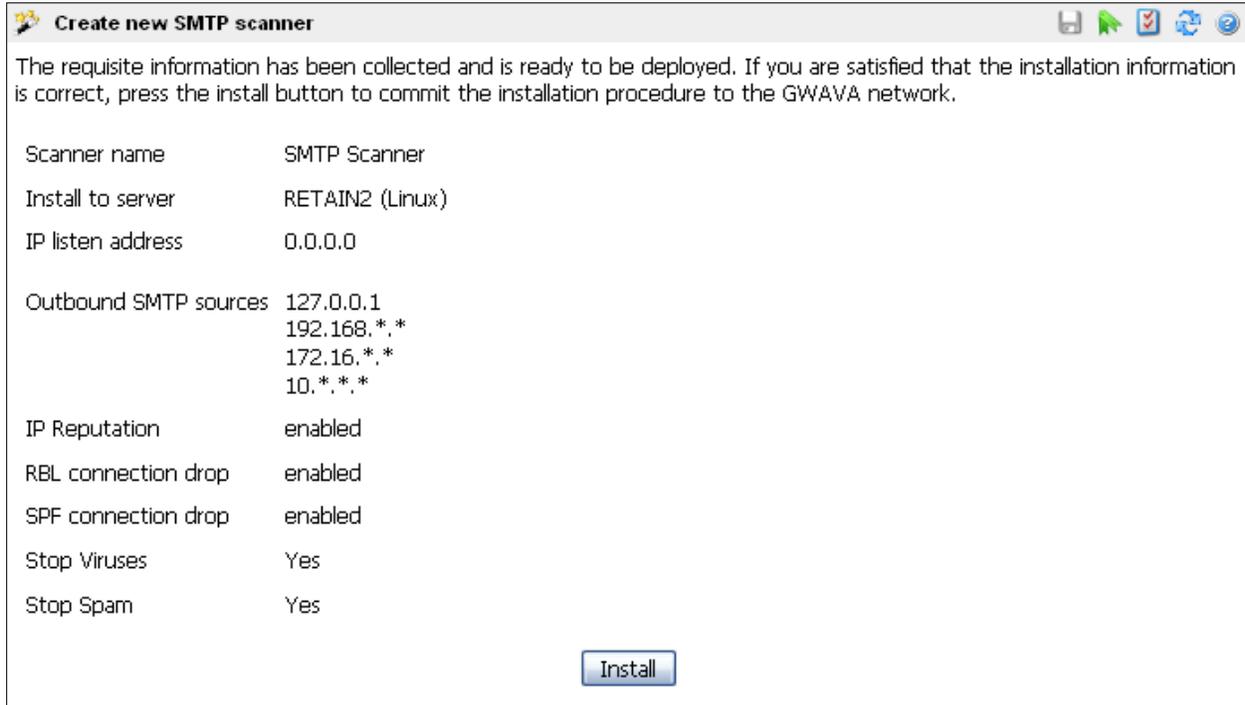
Select your default preferences, and click 'Continue'.

Set the default actions for viruses and spam. These settings can be changed after scanner creation.

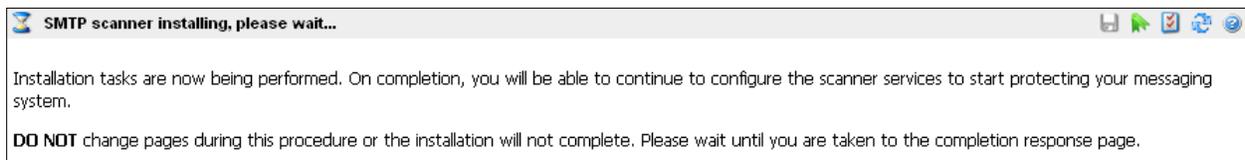
Click 'Continue'.



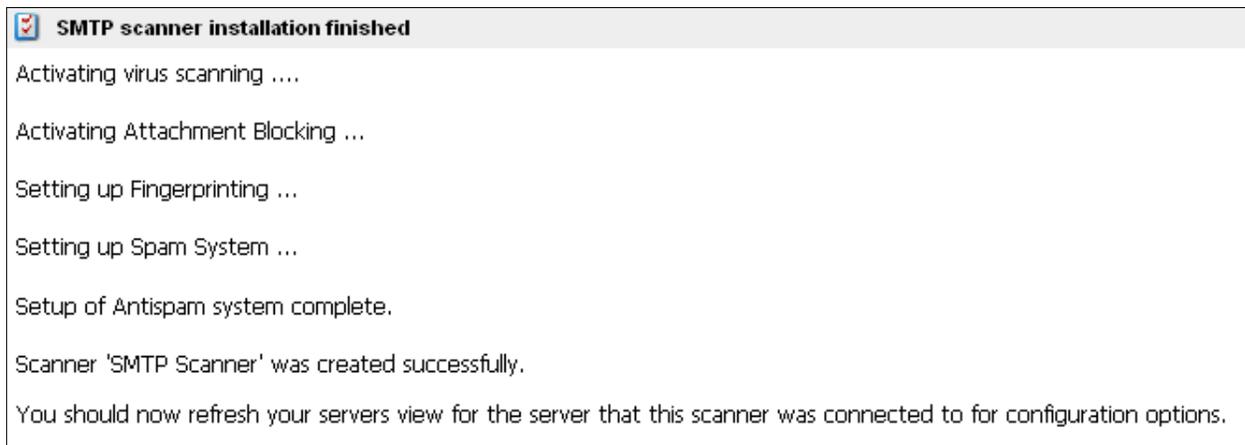
Review and confirm your settings. If you wish to make changes, use the 'back' button on your browser, correct the information, and continue.



Click 'Install' to continue.



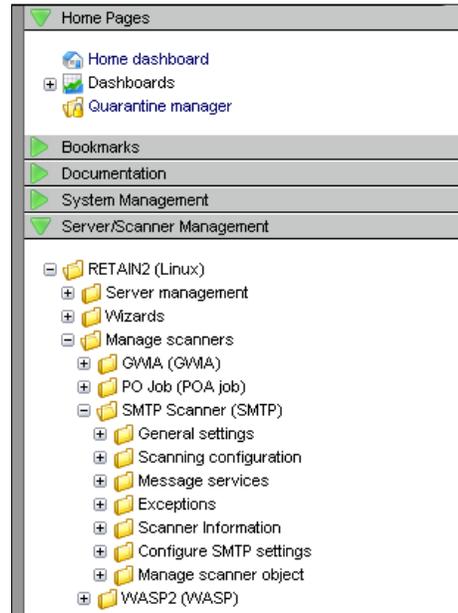
Wait while the installation completes.



Once installation is complete, refresh the Server/Scanner Management | <Server Name> | Manage scanners folder to view your new SMTP scanner.

Your SMTP scanner is now created and ready to configure.

As soon as the MX record pointing to the GWAVA SMTP is active, the SMTP scanner will begin filtering mail.



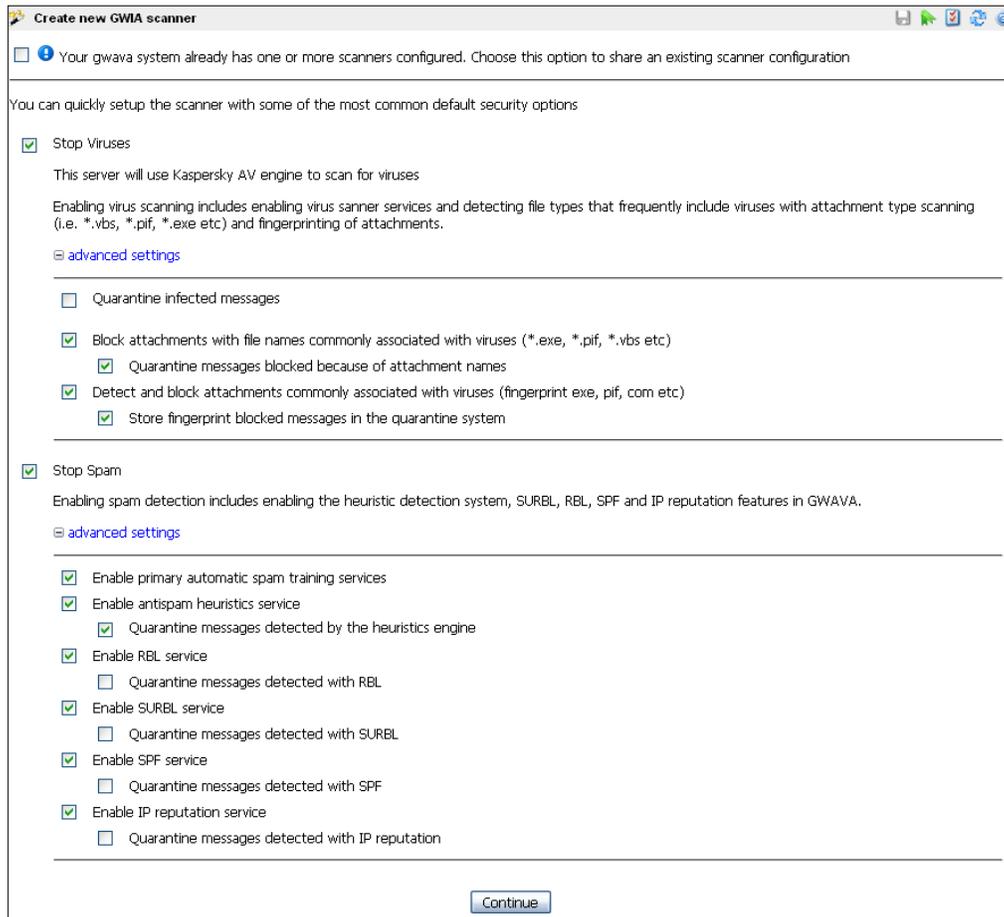
GWIA scanner

To install a GWIA scanner, you must tell the wizard where the active GWIA directory and the GWIA configuration file are located. The GWIA scanner puts startup information in the GWIA configuration file and adds the 3rd directory to the GWIA directory structure. To make the changes to the GWIA configuration file active, the GWIA must be restarted after the installation is complete.

Name the scanner and provide the locations to the directory and file required. Use the example paths as your guide, though they are only examples and will differ from your actual paths. Always double-check your paths to ensure that the scanner will install correctly. **If the directory path is incorrect, your mail will not flow after the GWIA has been restarted to enact the changes.**

A screenshot of a wizard window titled 'Create new GWIA scanner'. It contains four input fields: 'Scanner Name' (empty), 'Install on this server' (set to 'RETAIN2 (Linux)'), 'GWIA Startup File' (set to '/opt/novell/groupwise/agents/share/gwia.cfg' with an example below), and 'GWIA Path' (empty with an example below). A 'Continue' button is at the bottom right.

Select your basic scanning setup. All the default options are shown below and are fairly self-explanatory. The virus and basic spam scanning options are for setup purposes only. These can all be changed and customized after the scanner setup is complete. There are many other options to fine-tune the scanner which are only available after the scanner has been created. Select the basic setup options you wish to use as default and click continue. The default configuration is shown.

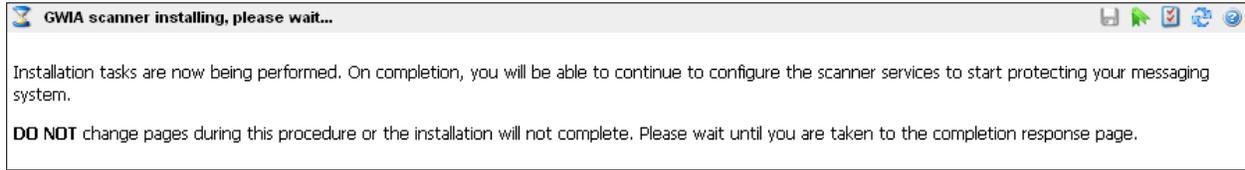


The wizard will ask for confirmation on the information provided. Double check all information and paths to ensure that the scanner will function correctly.

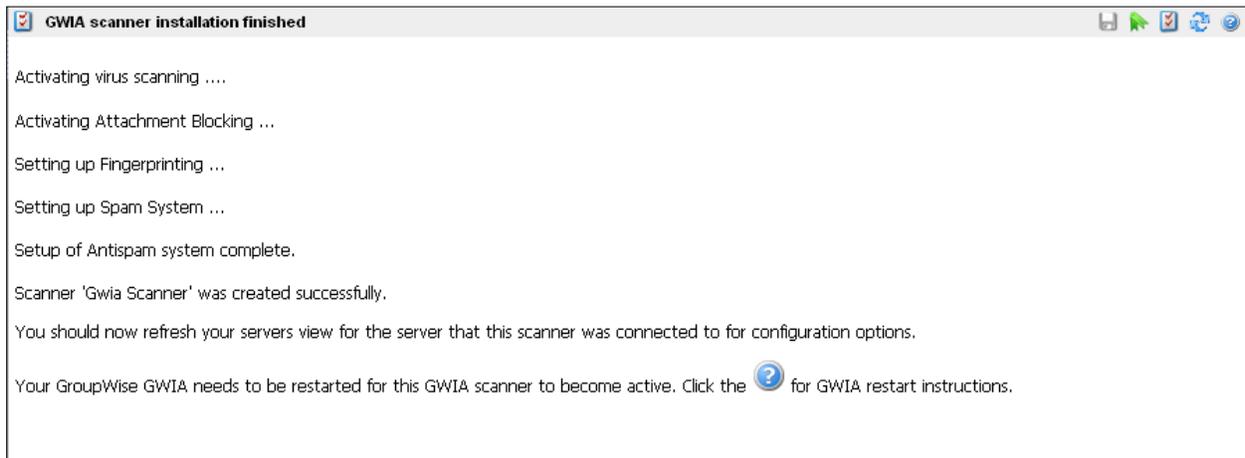


Select the install button when you have verified the information.

The wizard will display this page while it is working.



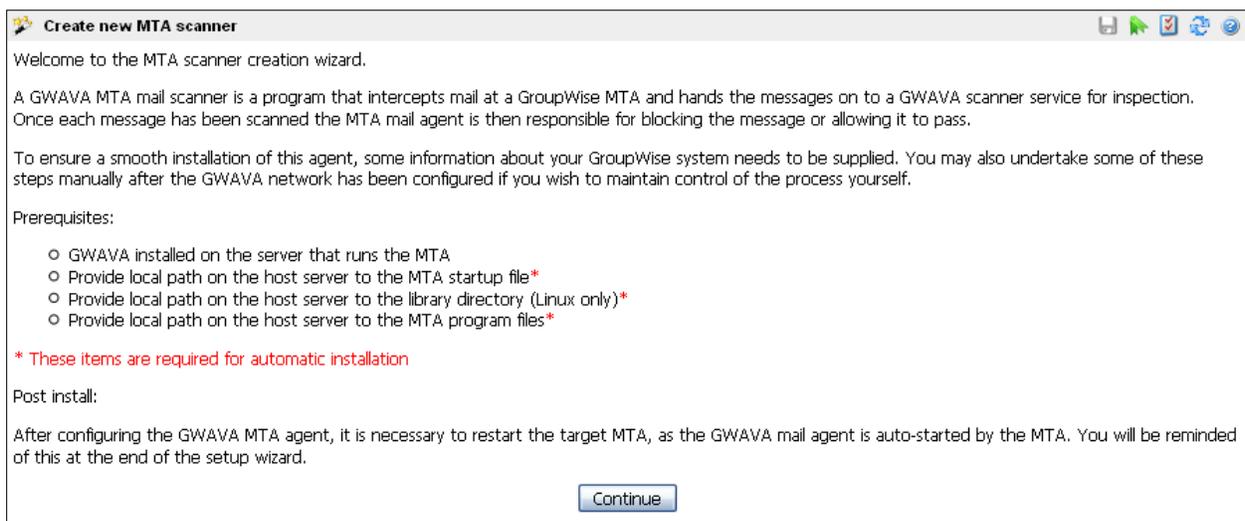
DO NOT browse away from the page until the next page is displayed showing a confirmation that the process is complete and detailing instructions to move forward.



The scanner installation is now complete and the scanner is now available for fine-tuning and customization.

MTA Scanner

To create an MTA scanner, select the MTA scanner interface from the wizard and click next.



MTA scanner creation lists the information that is required. The paths to the MTA startup file and MTA program files are required on all platforms. Installing the MTA scanner on Linux systems also requires the path to the library directory.

Create new MTA scanner

Scanner Name: MTA Scanner

Install on this server: RETAIN2 (Linux)

MTA Startup File: /opt/novell/groupwise/agents/share/domain.mta
Example: /opt/novell/groupwise/agents/share/domain.mta

GWMTA Program Location: /opt/novell/groupwise/agents/bin/
Example: /opt/novell/groupwise/agents/bin/

GroupWise Library Programs Location: /opt/novell/groupwise/agents/lib/
Example: /opt/novell/groupwise/agents/lib/

Continue

Provide a scanner name and the paths listed. Use the example paths as a guide, but know that the paths will differ from system to system.

Create new MTA scanner

Your gwava system already has one or more scanners configured. Choose this option to share an existing scanner configuration

You can quickly setup the scanner with some of the most common default security options

Stop Viruses
This server will use Kaspersky AV engine to scan for viruses
Enabling virus scanning includes enabling virus scanner services and detecting file types that frequently include viruses with attachment type scanning (i.e. *.vbs, *.pif, *.exe etc) and fingerprinting of attachments.
[advanced settings](#)

Stop Spam
Enabling spam detection includes enabling the heuristic detection system, SURBL, RBL, SPF and IP reputation features in GWAVA.
[advanced settings](#)

Continue

Set your desired settings and click 'continue' to progress to the next page.

Due to environmental variables, the MTA scanner will not function on Windows GroupWise systems.

Create new MTA scanner

The requisite information has been collected and is ready to be deployed. If you are satisfied that the installation information is correct, press the install button to commit the installation procedure to the GWAVA network.

Scanner name	MTA Scanner
Install to server	RETAIN2 (Linux)
MTA startup file	/opt/novell/groupwise/agents/share/domain.mta
MTA programs directory	/opt/novell/groupwise/agents/bin/
GroupWise library directory	/opt/novell/groupwise/agents/lib/
Stop Viruses	Yes
Stop Spam	Yes

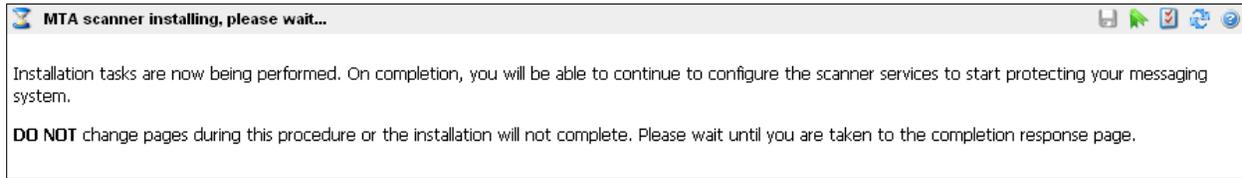
 Hide install procedures

- Step 1: Create object: MTA Scanner
The 'network object', or put more simply, the MTA configuration, will be inserted into the database for managing this device.
- Step 2: Copy program files to: /opt/novell/groupwise/agents/bin/
Copy library files to: /opt/novell/groupwise/agents/lib/
File Copy. The GWAVA program files necessary for the server will be copied (or symbolic links will be created) from the gwava/assets directory into the folder(s) that your GroupWise MTA is located at. For Linux, libgwvsmoc.so is required in the GroupWise lib directory and in /lib. For NetWare, vs.nlm is copied to the same location as the MTA NLM.
- Step 3: Modify MTA startup file: /opt/novell/groupwise/agents/share/domain.mta
MTA Startup File Modification. Your MTA Startup file will be adjusted to contain the following lines which indicate to the GroupWise to direct all mail through the GWAVA mail scanning service.

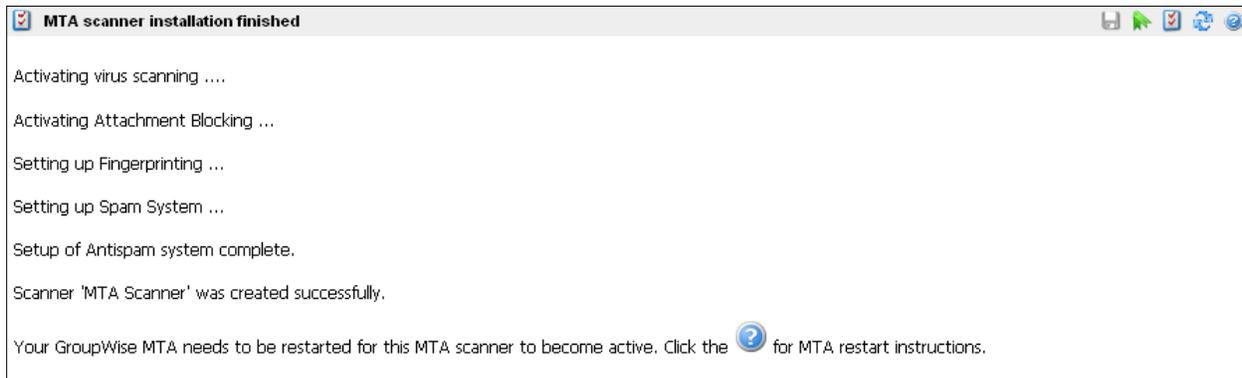
```
/vsaction=DISCARD
/vstype=MESSAGE
/vsnamevalue=GWAVA
/vsthread=64
/vscan=exclude
/vsdomain=IGNORE
/vsport=7108
```
- Step 4: Create configuration file: gwavamta.xml in directory /opt/novell/groupwise/agents/bin/
GWAVA MTA Agent startup file created. In the same directory that the program is copied to, a startup file named 'gwavamta.xml' will be created which contains the network object ID that the GWAVA MTA agent requires to initialize.

Double check and confirm the information provided. Steps for installation can be expanded, shown, and deselected if a postponement of a certain step is desired. (These steps must still be completed in order for the scanner to function.)

Once the information has been confirmed, select install.

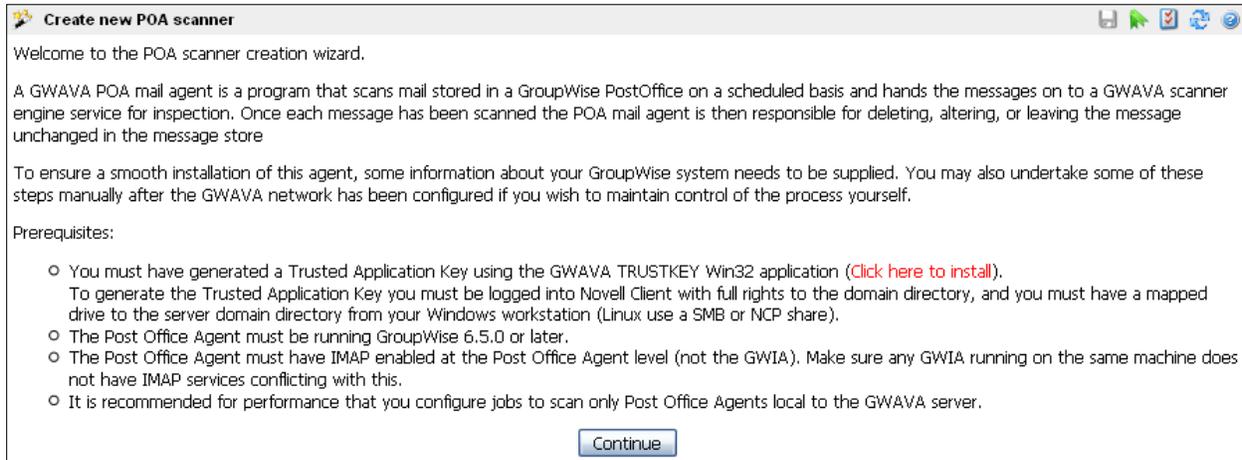


Wait until the following page is displayed. Your scanner is installed and ready to use following a restart of the MTA.



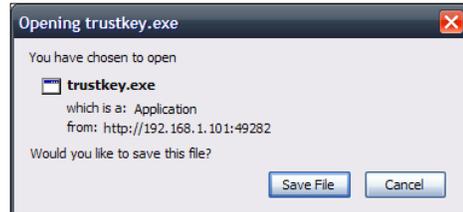
POA Scanner

To install a POA scheduled scanner, select the POA scanner from the wizard menu and click next.

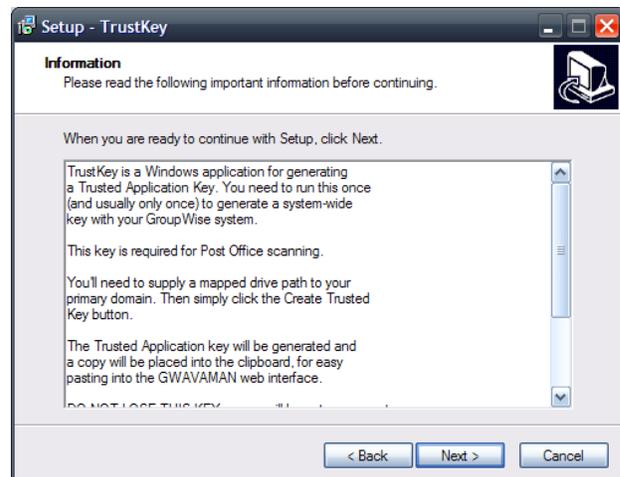


The POA scanner connects directly to the POA through the IMAP interface. As such, it requires a trusted application key to be created and IMAP must be enabled and open on the POA. Download and install the TRUSTKEY application and generate the Trusted Application key. To generate a trusted application key, you must run the TRUSTKEY application from a windows workstation that is logged into the GroupWise system with Administrator rights. TRUSTKEY also requires access to the wpdomain.db file. If installing on Linux, this must be accessible through a SAMBA share.

Click on the TRUSTKEY install link, and save then run the trustkey.exe application.



Click 'Next' and read the information provided before continuing.



The Trustkey application will create a trusted application key for GWAVA 5 to access the Post Office with administrator rights. The information dialog also details exactly what is required to create the trusted application key.

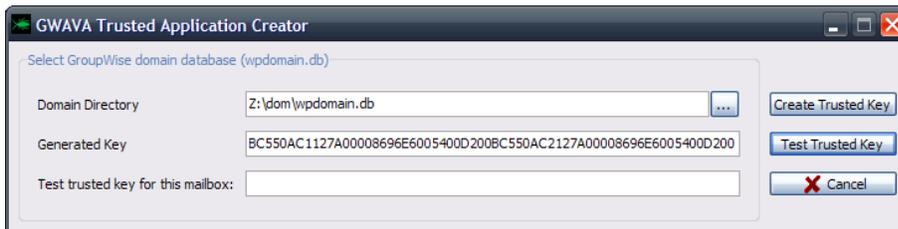
Click 'Next' to continue to the application creator window.



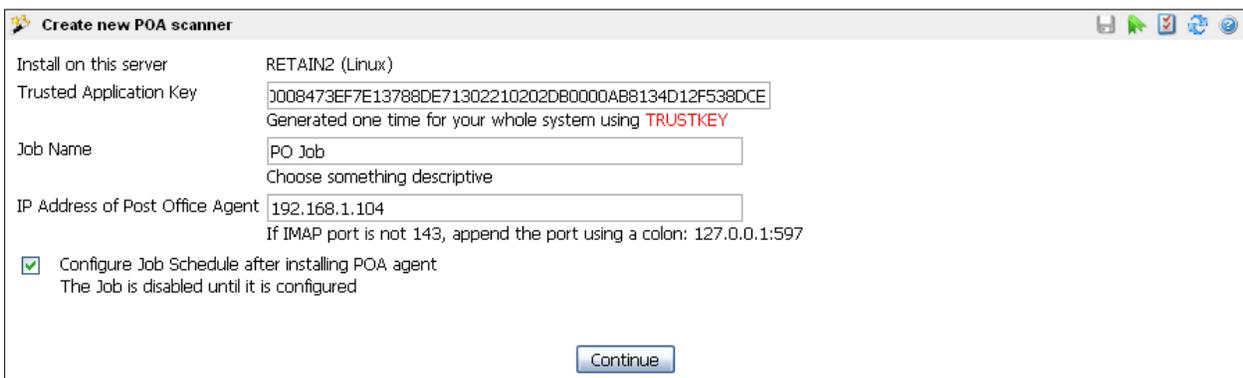
Browse to the domain directory containing the active wpdomain.db. This directory must be accessible from the Win32 workstation where the TrustKey application is running. The Win32 box also must be logged into the GroupWise system via the Novell client, with administrator rights. On Linux, this directory must be accessible through a SAMBA share.

After browsing to and selecting the wpdomain.db file, click 'Create Trusted Key'.

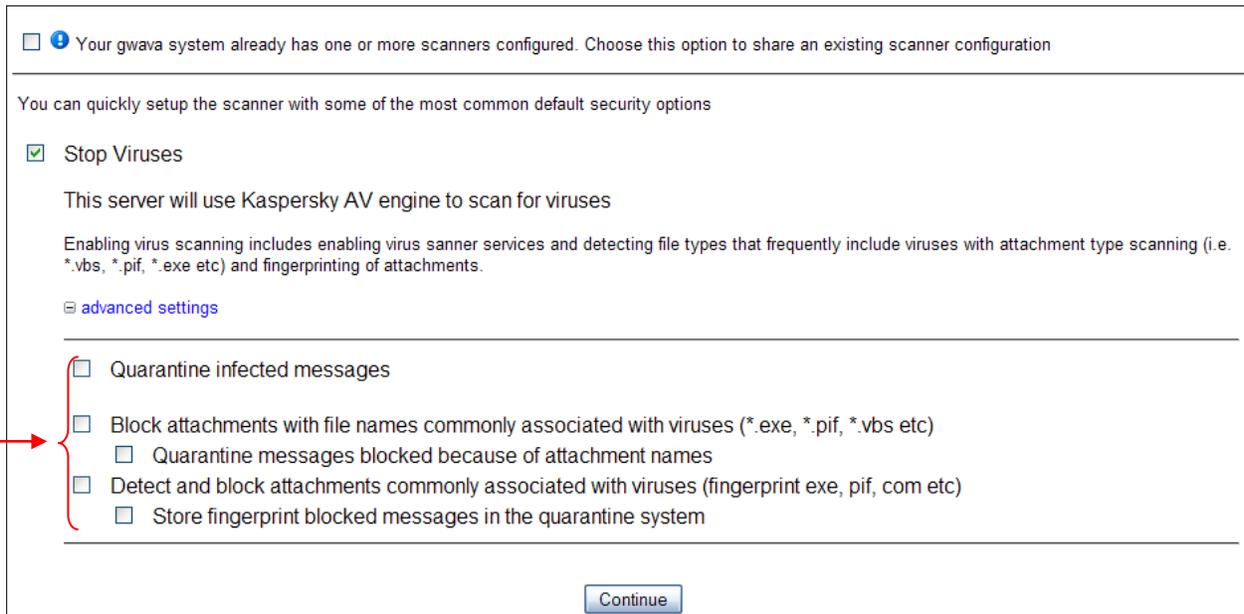
The TrustKey application will create a trusted application key and automatically copy it to the clipboard as well as display it in the 'Generated Key' box.



Paste the copied trusted application key into the POA scanner creation wizard and fill out the post office job name as well as the IP address of the Post Office Agent. The IP address must have the IMAP port specified as shown if it is not default. (Default: 143) See the following link for details on how to enable or change the IMAP port: <http://support.gwava.com/kb/?View=entry&EntryID=1099> Make sure 'Configure Job...' is checked. If the POA Job is not configured after creation, it will not run until it is configured.



IMPORTANT: On the creation page, ensure that the 'Stop Viruses' box is checked, and then expand the 'advanced settings' link and **uncheck all other boxes**. If the scanner is configured to delete email containing attachments, all mail with attachments contained in the fingerprinting and attachments lists will be removed from the post office. Removed mail may be unrecoverable.



ⓘ Your gwava system already has one or more scanners configured. Choose this option to share an existing scanner configuration

You can quickly setup the scanner with some of the most common default security options

Stop Viruses

This server will use Kaspersky AV engine to scan for viruses

Enabling virus scanning includes enabling virus scanner services and detecting file types that frequently include viruses with attachment type scanning (i.e. *.vbs, *.pif, *.exe etc) and fingerprinting of attachments.

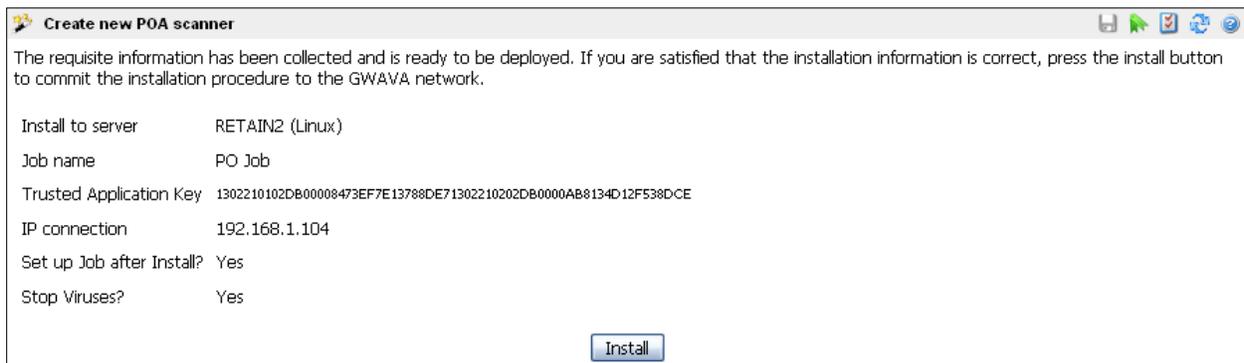
[advanced settings](#)

Quarantine infected messages

Block attachments with file names commonly associated with viruses (*.exe, *.pif, *.vbs etc)

- Quarantine messages blocked because of attachment names
- Detect and block attachments commonly associated with viruses (fingerprint exe, pif, com etc)
- Store fingerprint blocked messages in the quarantine system

After verifying that the scanner creation page looks identical to the one shown above, click 'Continue'.

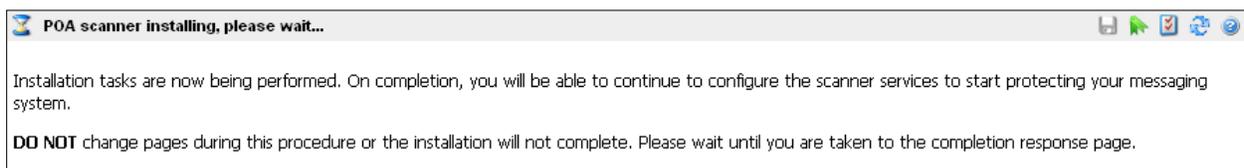


Create new POA scanner

The requisite information has been collected and is ready to be deployed. If you are satisfied that the installation information is correct, press the install button to commit the installation procedure to the GWAVA network.

Install to server	RETAIN2 (Linux)
Job name	PO Job
Trusted Application Key	1302210102DB00008473EF7E13788DE71302210202DB0000AB8134D12F538DCE
IP connection	192.168.1.104
Set up Job after Install?	Yes
Stop Viruses?	Yes

Verify the specified information and select 'Install' if the information is correct. If you need to correct anything, use the 'back' button on your browser.

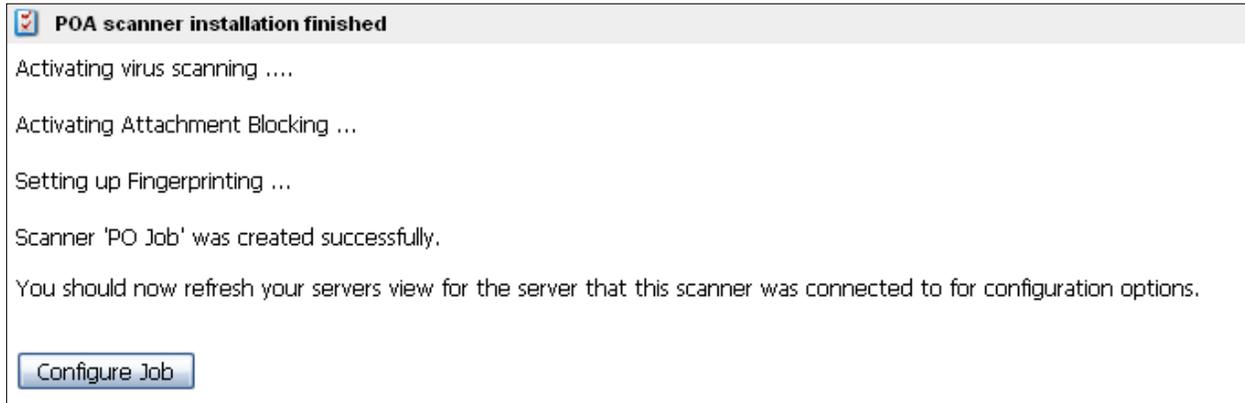


POA scanner installing, please wait...

Installation tasks are now being performed. On completion, you will be able to continue to configure the scanner services to start protecting your messaging system.

DO NOT change pages during this procedure or the installation will not complete. Please wait until you are taken to the completion response page.

Follow the instruction to wait until the success page is displayed.



Once the installation has completed, select the 'Configure Job' button to be taken to the configuration page.

The first task to complete on the configuration page is to enable the job. If the job is not enabled, it will not run.

This page configures the job to include or exclude specific users, folders, and the job start time. Note: the POA job may cause the Post Office response time to lag, causing any connected clients to become sluggish. It is best to schedule the Post Office job to run during off hours, or at times when the Post Office is not under load.

The screenshot shows the 'Job Config' window with the following settings:

- Enable Job
- Job Name: PO Job
- Trusted Application Key: 1302210102DB00008473EF7E13788DE71302210202DB0000
- POA Hostname:Port: 192.168.1.104
- Scan Users
- Scan Resources
- Scan Trash
- Expunge purged items
- Job Frequency: Just Once
- Job Date: 03 Aug 2010
- Delete job upon completion
- Time to run job: 00 : 00
- Scan messages in date range: All days
- Scan these users: All Users
- Remove Selected User button
- User input field and Add button
- Scan these folders: All Folders
- Remove Selected Folder button
- Folder input field and Add button

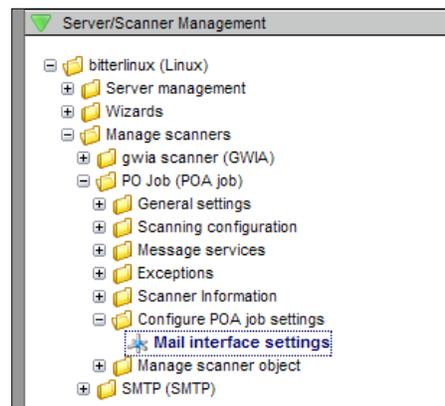
To add specific users to be included, or to exclude specific user mailboxes, you must provide the mailbox name.

The same applies for Folders. If you wish to include or exclude specific folders, you must supply the folder name.

To specify whether the job will apply to all users or folders, only specified users or folders, or to set a date range to scan through, use the drop-down menu for each section.

Once you have enabled and configured the job, make sure to select the 'save changes' button at the top of the window before browsing away from the page. Once the changes have been saved, the changes will be sent to the GWAVA 5 system and will become active within a couple of minutes.

To access the POA Job settings page just described, expand the POA scanner and select the 'Mail interface settings' object under the 'Configure POA job settings' folder, as shown.

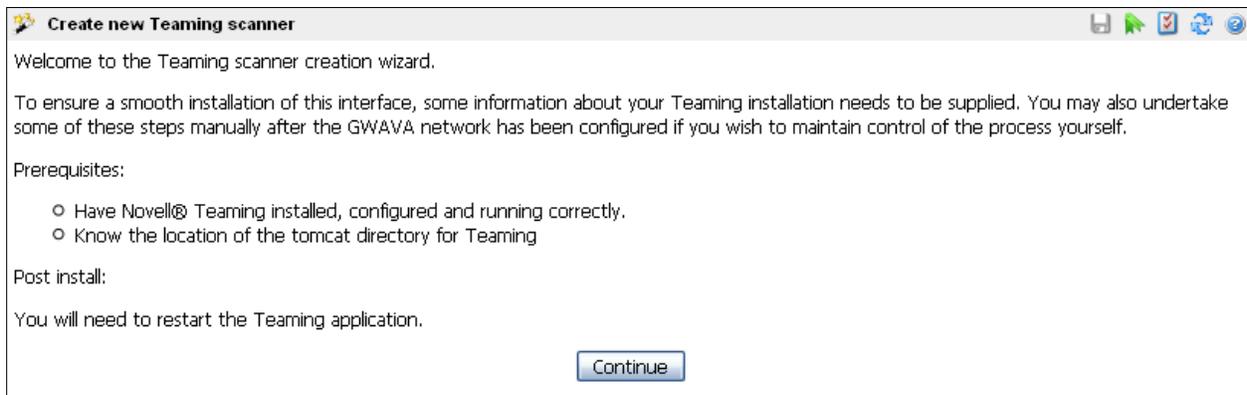


Teaming Scanner Install

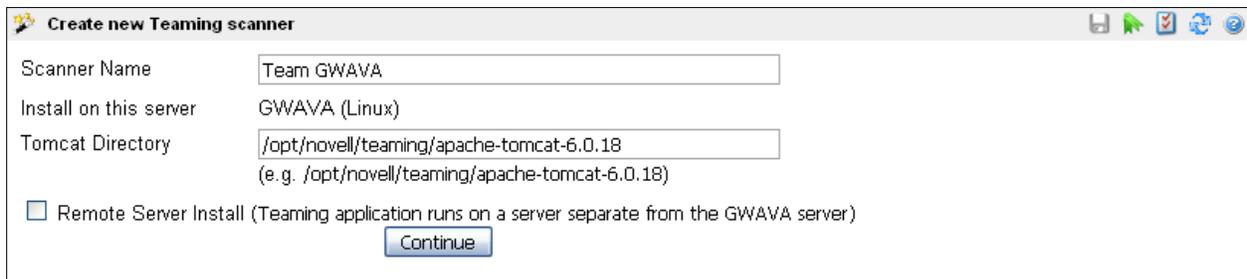
The Teaming scanner filters all text and attachment workflow through the scanning interface, including input text, all attached files, email, and messaging. To install a scanner in the Teaming interface, teaming must be installed and running correctly and the tomcat directory of the teaming interface must be known. The teaming scanner may be installed either on the local machine or remotely, similar to a WASP remote scanner.



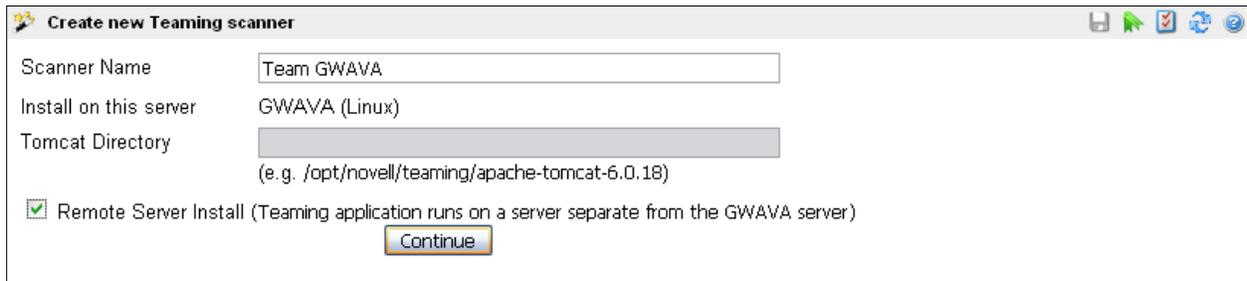
Open the New Scanner creation Wizard and select the 'Teaming Interface' option. Click 'Continue'.



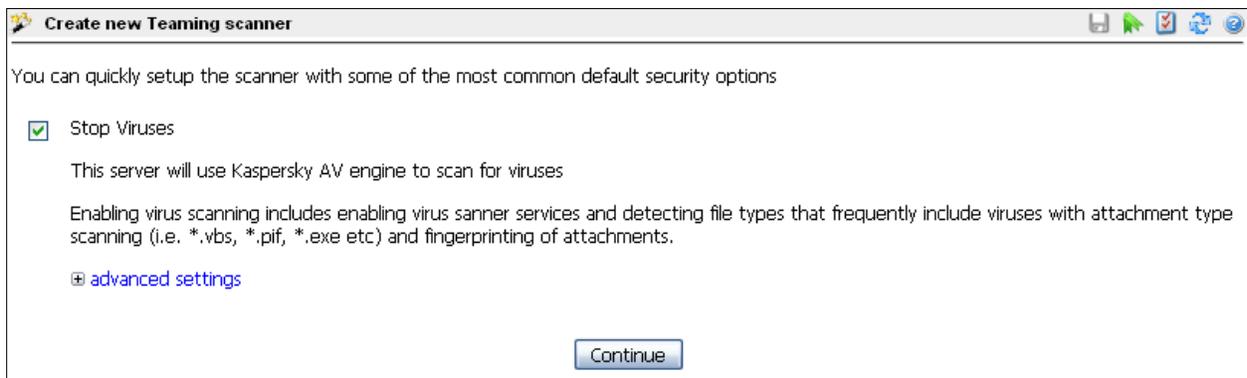
The wizard states the install process and the required information. Gather the information and select 'Continue' when you are ready to install the scanner.



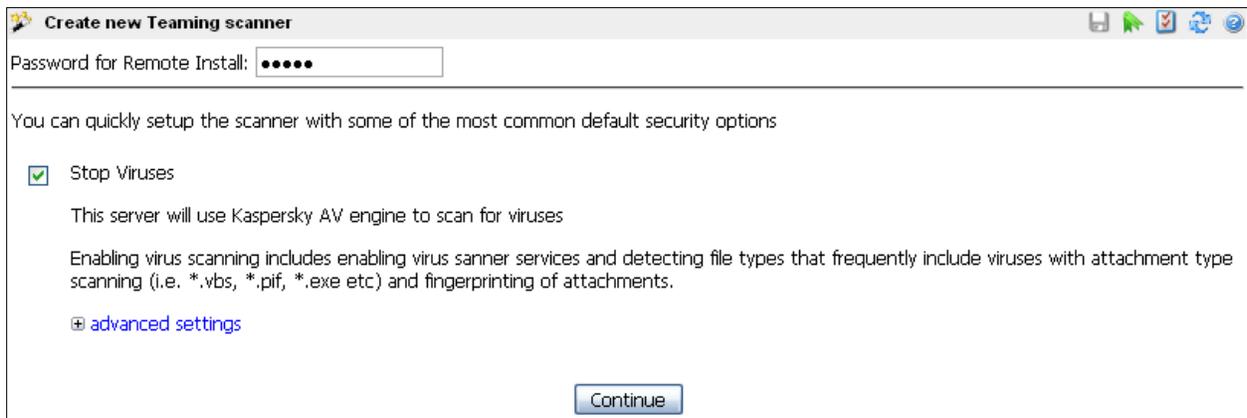
Name the scanner and input Tomcat directory serving the Teaming interface.



If the scanner is to be installed on a remote server, select the 'Remote Server Install' option and select 'Continue'.



Select the scanning options and configuration for the scanner. The scanner settings may be changed after the scanner is created, and defaults show the blocking of viruses and spam.

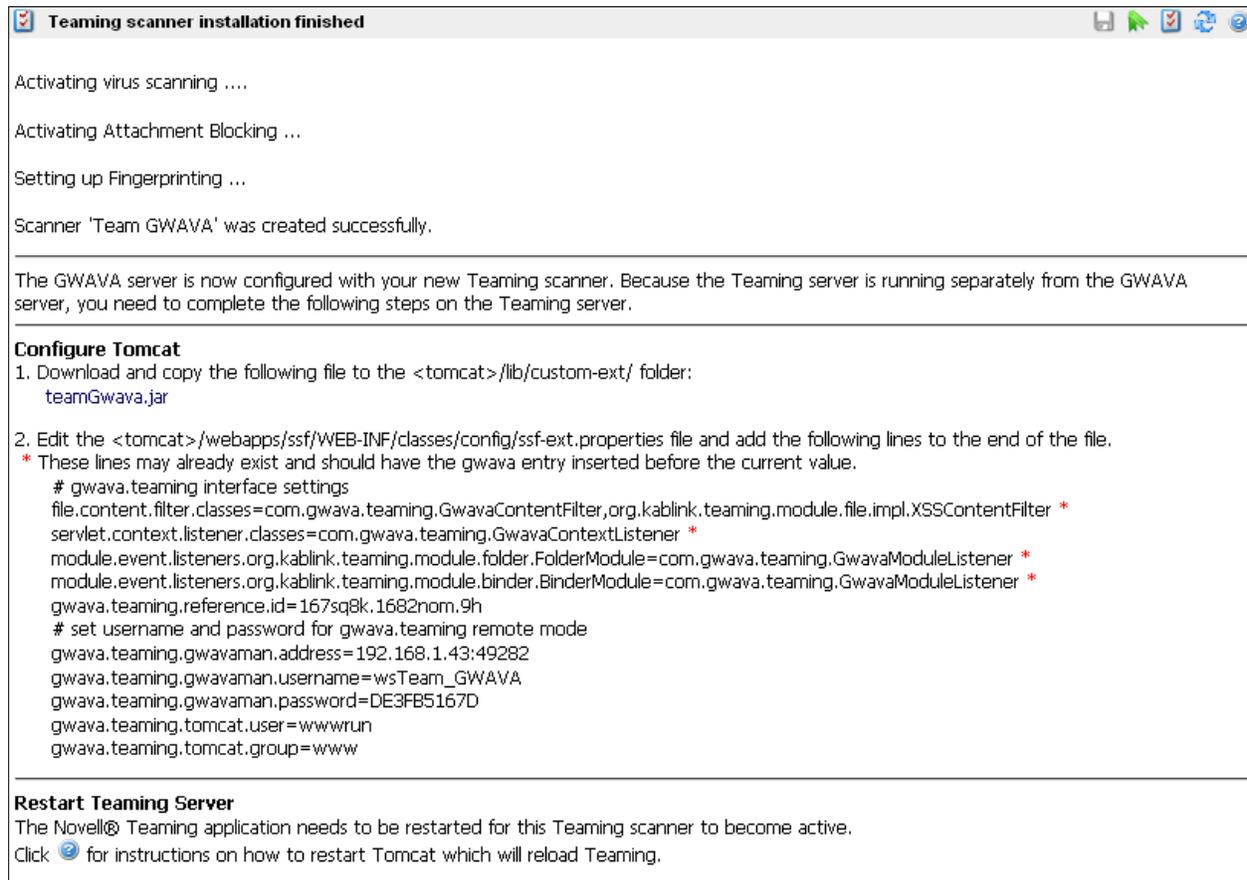


If the scanner is being installed to a remote server, a password must be supplied to allow the remote scanner to connect to the GWAVA 5 scanning engine.

Select 'Continue' when the appropriate settings have been configured.

All other configuration for the scanner, including keyword filtering, attachment size, attachment type, fingerprinting, oversize and undersize messages, and specific quarantine settings will all be available for configuration after the scanner has been created.

Wait for the scanner to be installed.



After the Teaming scanner has been installed, follow the ending instructions for both local and remote installations. Remote installations will require manual editing of the Tomcat files, as the scanner wizard will not have access to them during install. Input the specified lines around the indicated, existing lines in the ssf-ext.properties file, so the file section matches the one shown.

Local and remote installs require a restart of the Tomcat system to restart the tomcat server. Instructions on the restart of Tomcat are provided, select the “?” icon to show the instructions.

Now that the scanner has been created, it is available to be further configured and customized.

WASP Local Scanner

To create a scanner you must know the correct information for the location of the Web Access directory and the active Tomcat directory. Click **Continue**.

(The WebAccess startup file is the webacc.cfg – specify the entire path, including the webacc.cfg filename.)

(The Tomcat directory desired is the one containing the ‘webapps’ directory from which your WebAccess is run. In a standard SLES 10.x system, the path would be: /usr/share/tomcat5. If you have several instances of Tomcat on the same machine, locate the working webapps directory by searching the webacc.cfg file for the “Templates.path=...” line. It will specify the Tomcat path that WebAccess is using. The correct webapps directory will also contain a gw folder - ../webapps/gw.)

It is important to specify the tomcat instance that WebAccess is running on. There may be several instances of Tomcat installed on the same machine at the same time, depending on the way WebAccess was installed.

Create new WASP scanner

Scanner Name:

Install on this server: RETAIN2 (Linux)

GroupWise WebAccess startup file:
(e.g. GW7: /opt/novell/groupwise/webaccess/webacc.cfg)
(e.g. GW8: /var/opt/novell/groupwise/webaccess/webacc.cfg)

Tomcat Directory:
(e.g. Tomcat 4 on SLES 9/OES: /srv/www/tomcat)
(e.g. Tomcat 5 on SLES 10: /srv/www/tomcat5)
(e.g. Tomcat 4 on SLES 10/OES2: /var/opt/novell/tomcat4)
(e.g. Tomcat 6 on SLES 10/11: /usr/share/tomcat6)

Remote Server Install (WebAccess Application runs on a server separate from the GWAVA server)

Enter the correct path and name information and click **Continue**.

Create new WASP scanner

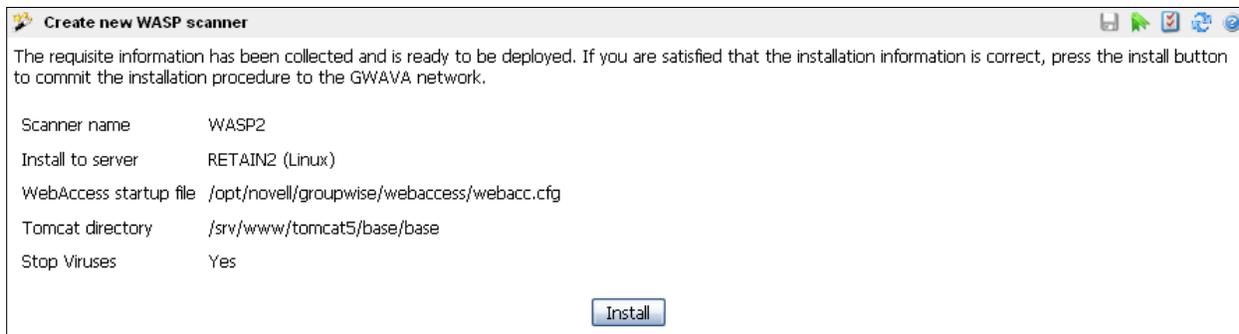
Your gwava system already has one or more scanners configured. Choose this option to share an existing scanner configuration

You can quickly setup the scanner with some of the most common default security options

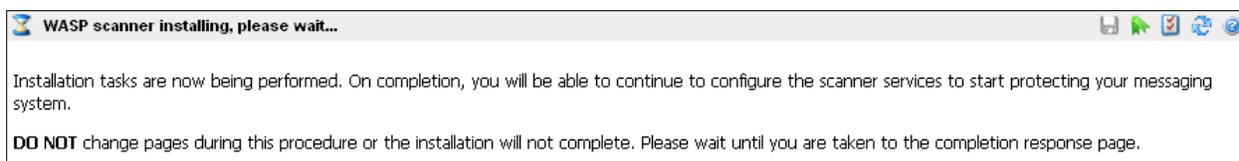
Stop Viruses
This server will use Kaspersky AV engine to scan for viruses
Enabling virus scanning includes enabling virus scanner services and detecting file types that frequently include viruses with attachment type scanning (i.e. *.vbs, *.pif, *.exe etc) and fingerprinting of attachments.
[advanced settings](#)

To enable protection from viruses, select an anti-virus engine. On Linux and Windows, the Kaspersky engine is the only engine available and will be selected for you.

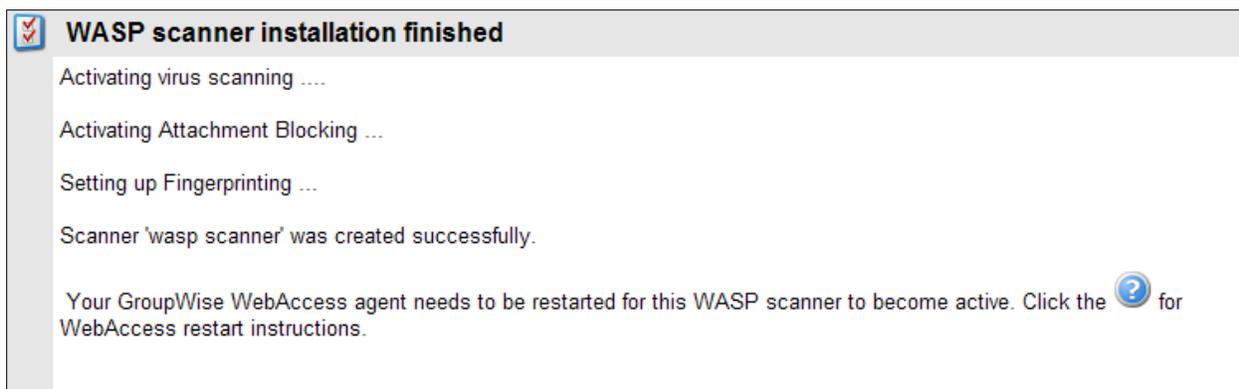
Click **Continue**.



Double check all the information for accuracy, then click **Install** if it is correct. Use the back button on your browser if you need to correct any of the information.



Wait until the next page appears. This may take several minutes depending on the speed of the machine and current load. Please be patient.



Once this page appears, your scanner has been successfully created and you can browse away from the scanner creation interface.

NOTE: Your WASP scanner will be dormant until Tomcat is restarted and a browser calls the Web Access interface. This is required to initiate the WASP servlet for the web server. Restart the Tomcat instance you installed WASP to before testing the scanner.

WASP 2 scanners rebrand the WebAccess login and mailbox screens to alert users that WASP 2 is in use. If you do not want this and wish to return to the original branding and artwork, the files were renamed and reside in the following directories:

For GroupWise 7:

<tomcat_path>/webapps/gw/com/novell/webaccess/images/splash.png

For GroupWise 8:

<tomcat_path>/webapps/gw/webaccess/<build_date>/images/install_watermark_n.png

WASP 2 has renamed these to *.bak, (or .bak0 if .bak already exists). Simply rename the file to the original and restart your WebAccess system to return them to default.

WASP Remote Scanner

Running WASP 2 in remote mode means that WASP 2 needs to transfer the mime files via the network to GWAVA 5 in order to be scanned. To create a remote WASP 2 scanner, you will need the following information:

The location of the WebAccess configuration file on remote computer (webacc.cfg)

The location of the Functioning WebAccess Tomcat directory – Or IIS directory (The folder containing the ‘webapps’ directory. See notes [above](#).)

Start the scanner creation wizard as above, but select the ‘Remote Server Install’ option instead of filling in the paths.

Create new WASP scanner

Scanner Name: WASP2

Install on this server: RETAIN2 (Linux)

GroupWise WebAccess startup file: /opt/novell/groupwise/webaccess/webacc.cfg
(e.g. GW7: /opt/novell/groupwise/webaccess/webacc.cfg)
(e.g. GW8: /var/opt/novell/groupwise/webaccess/webacc.cfg)

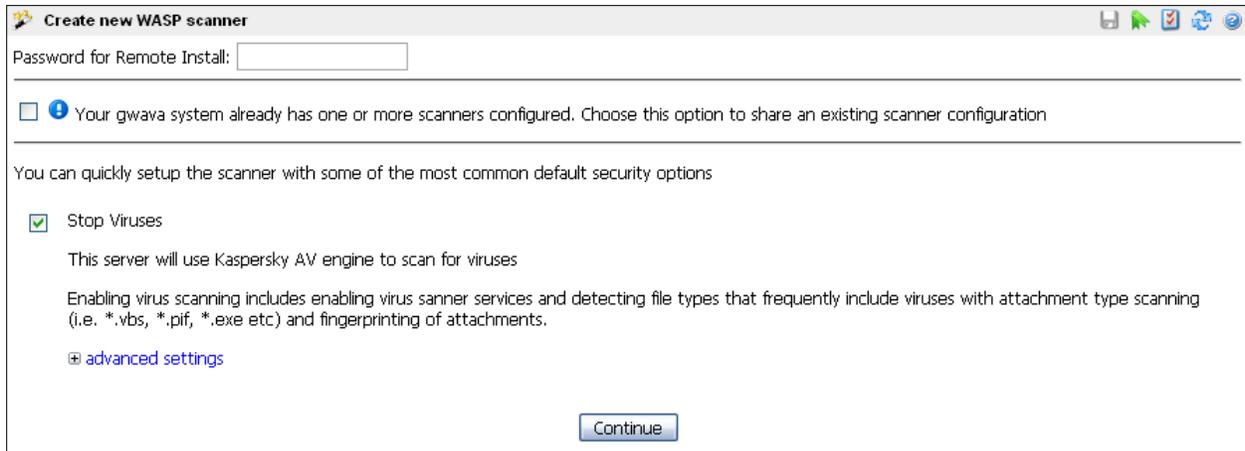
Tomcat Directory: /srv/www/tomcat5/base
(e.g. Tomcat 4 on SLES 9/OES: /srv/www/tomcat)
(e.g. Tomcat 5 on SLES 10: /srv/www/tomcat5)
(e.g. Tomcat 4 on SLES 10/OES2: /var/opt/novell/tomcat4)
(e.g. Tomcat 6 on SLES 10/11: /usr/share/tomcat6)

Remote Server Install (WebAccess Application runs on a server separate from the GWAVA server)

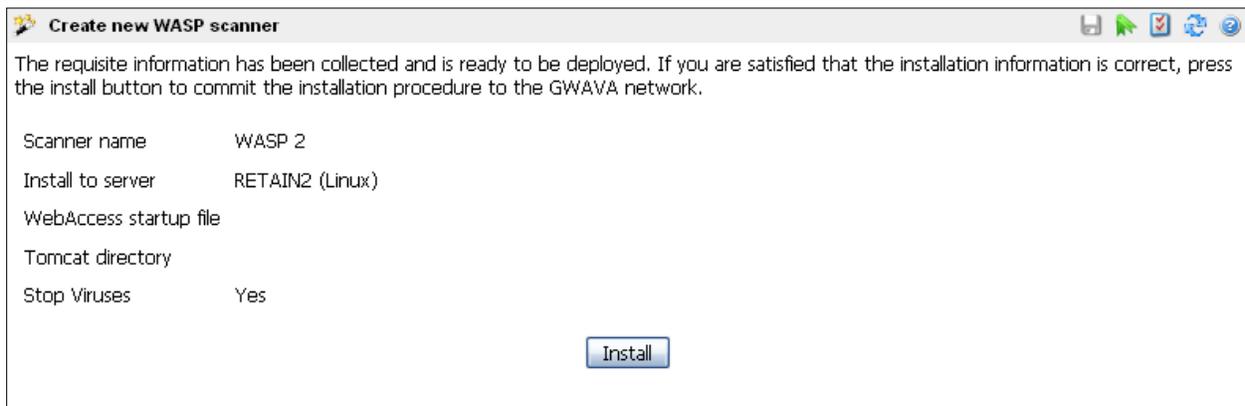
Continue

This triggers the remote install mode for the scanner.

In remote mode, the installer creates a wasp user and password to connect to GWAVA 5. The Username is created automatically, but you must specify the password. The user and password will only be used by the wasp scanner to connect remotely to the GWAVA 5 server and gain access to the scanner. Any password will do. Configure as desired.



Verify all information, and click 'install' when the information is correct. Use the 'back' button on your browser if you need to change any of the information before you continue.



You MUST wait until this page is shown. WASP 2 requires you to copy some files and edit the webacc.cfg on the remote machine for the installation to be successful. If the .jar files are not copied to the locations specified, or the lines supplied are not added to the webacc.cfg, then the remote install will not be able to connect to the GWAVA 5 server and perform scans. **Make sure you copy the supplied lines before browsing away from this page.**

The following page contains instructions that must be followed; the steps must be completed before WASP 2 will function correctly.

WASP scanner installation finished

Activating virus scanning

Activating Attachment Blocking ...

Setting up Fingerprinting ...

Scanner 'WASP 2' was created successfully.

The GWAVA server is now configured with your new WASP scanner. Because the WebAccess server is running separately from the GWAVA server, you need to complete the following steps on the WebAccess server.

Configure Tomcat

- Copy the following files to both the <tomcat>/webapps/gw/WEB-INF/lib and <tomcat>/common/lib (if present on Tomcat version 5 and earlier) folders:
mail.jar, activation.jar
- Copy the following files to the <tomcat>/webapps/gw/WEB-INF/lib folder:
gwava.jar, wasp.jar

Configure WebAccess

For GroupWise@ 8

- Create a folder named "wasp" in the WebAccess Application home folder (this is where the webacc.cfg file is located).
- Create a file named "wasp.cfg" in the new wasp folder that contains the following:

```

Provider.GWAP.class=com.gwava.wa.provider.gwava.GwavaProvider
Provider.Wasp.gwavaman.address=192.168.1.104:49282
Provider.Wasp.gwavaman.username=wsWASP_2
Provider.Wasp.gwavaman.password=D84BBBED64
Provider.Wasp.reference.id=15ra8jf.165m2rc.v

```
- Rename the file install_top_n.png in the <tomcat>/webapps/gw/webaccess/<build>/images folder to "install_top_n.png.bak".
- Copy the file install_top_n.png to that folder.

For GroupWise@ 7

- Edit the WebAccess configuration file (webacc.cfg) on the WebAccess server:
 - Insert a pound "#" character at the beginning of the line
"Provider.GWAP.class=com.novell.webaccess.providers.gwap.XGWAP"
 - Add a new line "Provider.GWAP.class=com.gwava.wa.provider.gwava.GwavaProvider"
 - Add the following lines to the bottom of the file:

```

Provider.Wasp.gwavaman.address=192.168.1.104:49282
Provider.Wasp.gwavaman.username=wsWASP_2
Provider.Wasp.gwavaman.password=D84BBBED64
Provider.Wasp.reference.id=15ra8jf.165m2rc.v

```
- Rename the files splash.png and splash-02.png in the <tomcat>/webapps/gw/com/novell/webaccess/images folder to "splash.png.bak" and "splash-02.png.bak"
- Copy the files splash.png and splash-02.gif to that folder.

Restart WebAccess

The GroupWise@ WebAccess application needs to be restarted for this WASP scanner to become active.

Click  for instructions on how to restart Tomcat which will reload WebAccess.

Note: OES Linux users, [click here](#) to set the proper Linux user and group for your version of Tomcat.

The files that need to be downloaded are linked from this page. Create a backup of the current versions of the files you are copying over. Clicking on the name will download the necessary files you need to copy to the locations defined. You must restart Tomcat after the files have been copied over, and the lines added, before the WASP 2 scanner will become active.

Recommended Scanner configuration

Every scanner configuration will be different depending on the different situations existing in the email world. **However, the recommended settings are set as default, and no changes are needed to implement the best settings for a general system.**

The default settings for most scanners are as follows:

- Signature spam engine enabled
- RBL and SURBL block enabled
- Conversation Tracking enabled

The POA and WASP scanners, due to their respective agent's functions, have the following as defaults:

- Antivirus
- Attachment
- Fingerprinting

The SMTP scanner also has IP Reputation enabled by default. The Signature spam engine works on Linux and Windows. Linux is the recommended platform for GWAVA.

For every situation it may become necessary to create exceptions to the scanning rules as well as adjustments to the different scanners and text filters to catch unwanted mail. Create these new rules and exceptions as required. The rules and settings for individual scanners are found under **Server/Scanner Management | <Server-name> | Manage Scanners | <Scanner name>**. See the respective sections for information on how to use each section.



General Administration

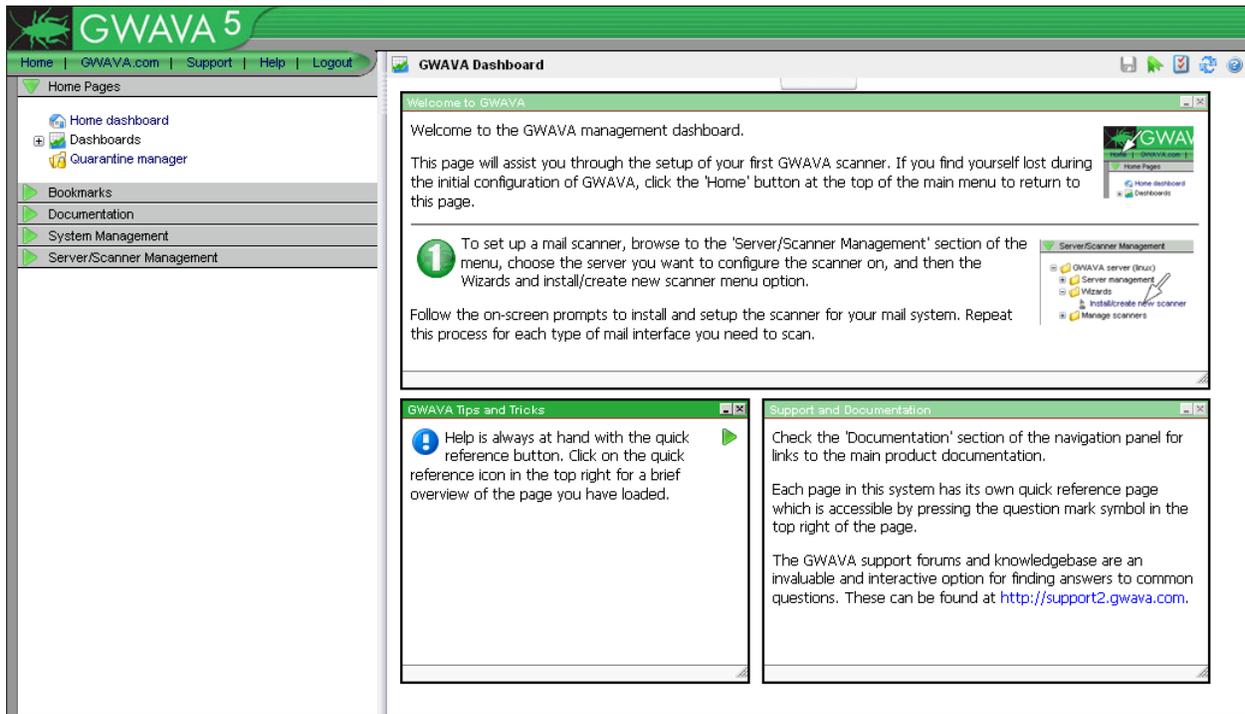
GWAVA administration is completed between two interfaces: the management console, and the QMS management console. The management console runs all administration of the main GWAVA system and scanners: scanner creation, configuration, updates, server settings and management user accounts. The QMS management console contains the administration over the quarantine system: digests, user accounts and login rights, release rights, and Quarantine database size.

GWAVA Management Console

When you log into the GWAVA Management console, you will view the default user Dashboard. This page displays default gadgets and basic info for your GWAVA 5 system.

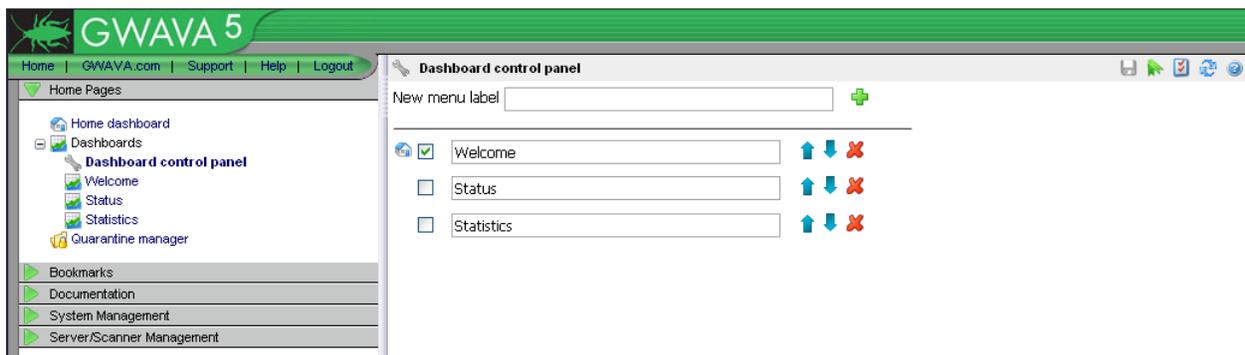
The System Status window shows the blocking statistics for your server as well as your evaluation deadline, if you have not licensed your GWAVA 5 system. The statistics window has the option to change the statistics to represent the total, day, last hour, or current hour statistics for each of the shown statistics.

Dashboards



GWAVA 5 has a user-defined area which opens by default, which can be filled with 'gadgets'. Though there are three default dashboards already defined, the dashboard area was created with the expectation that each system administrator will create and configure their own personal dashboard.

Dashboard Control Panel

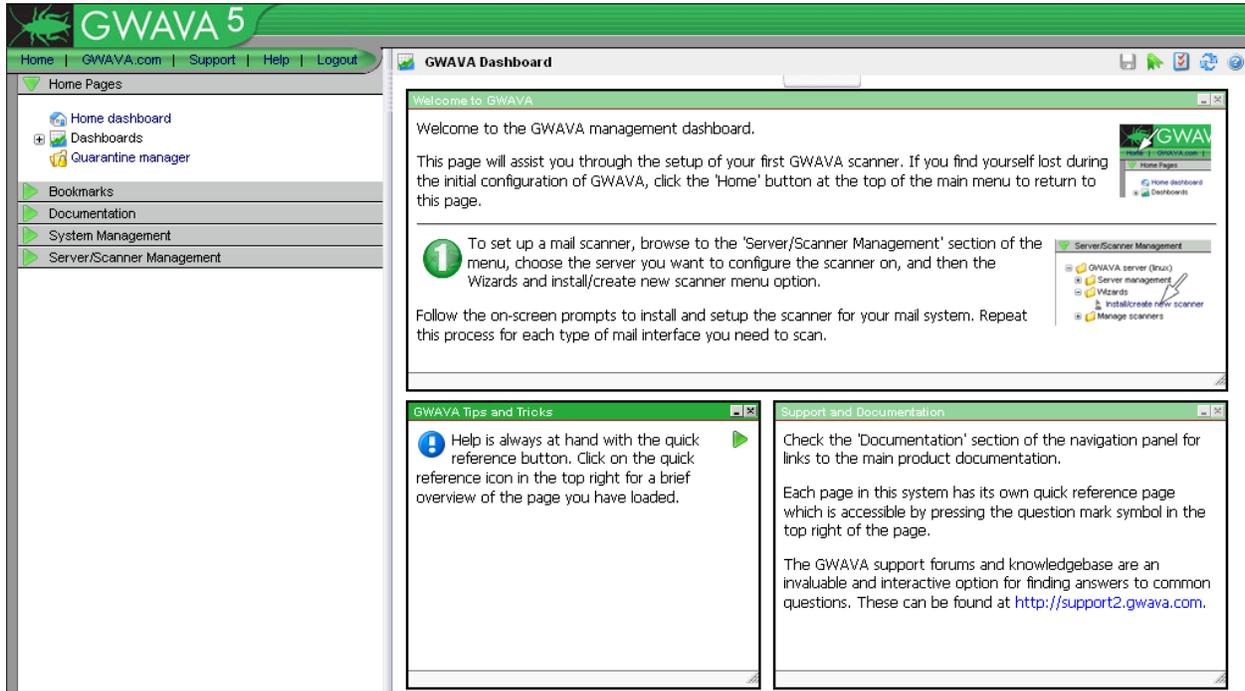


The Dashboard control panel allows for the management of multiple dashboards, and the creation of new dashboards. The dashboard is the default page displayed when users login to the GWAVA Management console. The default dashboard for the homepage is indicated by check mark and little house next to the dashboard name. To change the default dashboard, select the desired dashboard by placing the checkmark in the box next to your choice, and save the changes.

Multiple dashboards may be created or deleted. The current dashboards may be removed, renamed, or reconfigured. The dashboard control panel allows for the creation of new dashboards, renaming or removal of old dashboards, and the selection of the default dashboard.

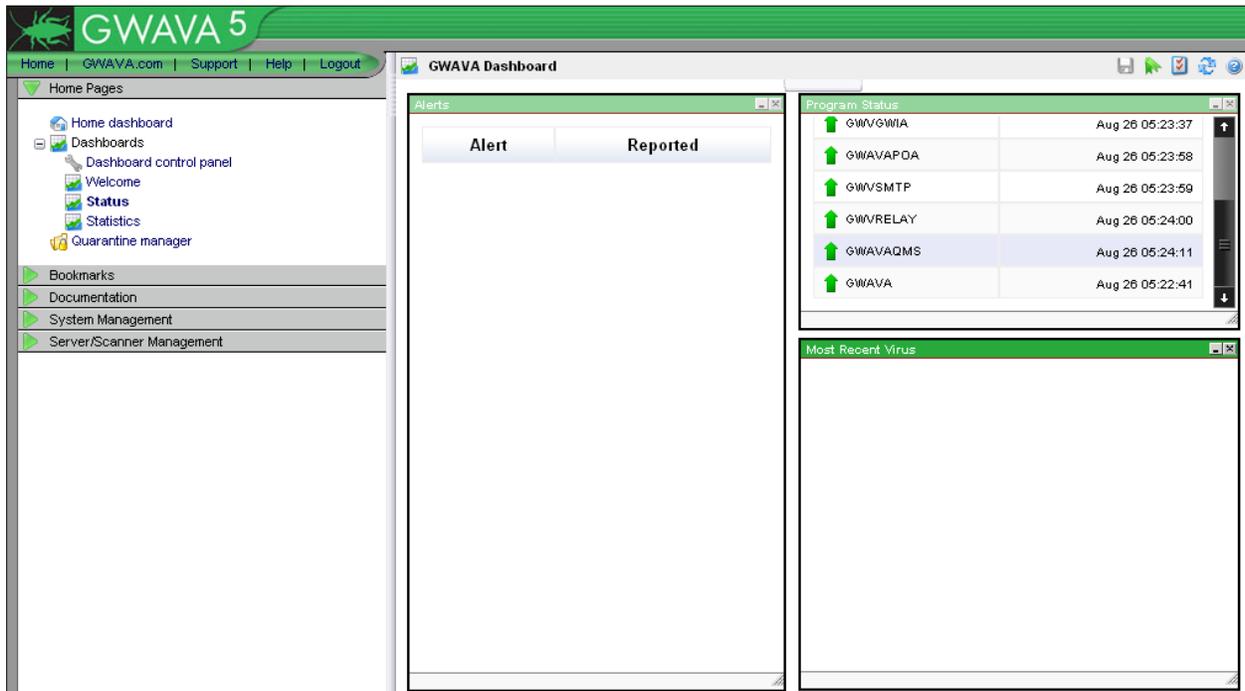
Default Dashboards

Welcome



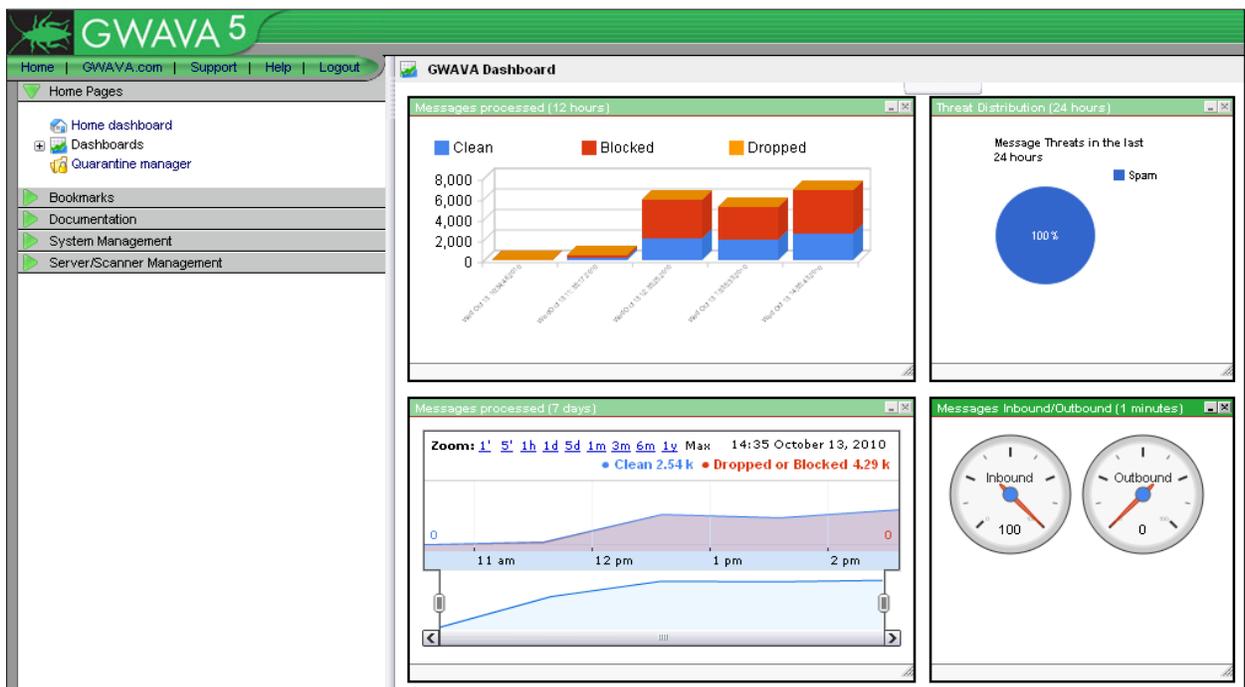
The Welcome dashboard is the default dashboard for upgrades and new installations of GWAVA 5, and will be the page seen on first login. The Welcome dashboard has gadgets showing tips, tricks, new information, and links to documentation. The welcome dashboard is not meant to be a permanent default page, but will remain default until changed. As with all dashboards, the welcome dashboard may be configured at any time.

Status



The status dashboard displays the general status of the GWAVA 5 system; modules reporting working status with the date and time last reported are listed, as well as any alters and detected viruses. Known viruses will be named, while unspecified or unnamed viruses will remain unnamed. All virus hits are reported.

Statistics



The statistics dashboard contains basic statistics for the entire system with all scanner stats available to be monitored. The statistics vary from total messages processed in the system and breakdowns of different blocked messages to the number of operational threads and system loads according to time of day.

Configuring and customizing Dashboards

Dashboard pages are essentially blank pages which can be filled with configurable modules called 'gadgets'. Gadgets are gauges, charts, and graphs tied to different statistics and information in the GWAVA 5 system. Different gadgets display information such as statistics on message flow, system load, detected viruses, blocked connections, RBL hits, and user traffic.

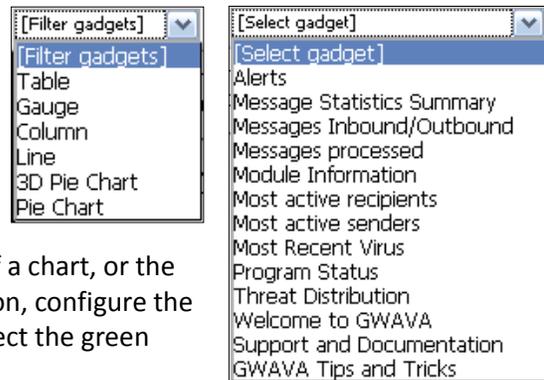
Configuration of any new or existing dashboard is accomplished by adding and removing gadgets to the desired dashboard and configuring the gadget to the desired specifics. Each gadget, after being added to a page, may be moved to any desired location on the dashboard, and the size of the gadget and, or the containing frame.

To add or configure a gadget, open the desired GWAVA dashboard, or create a new dashboard page and select the dropdown tab from the top of the dashboard window to show the gadget selection interface. Clicking on the tab again will either show or hide the gadget selection menu.



Select the desired gadget type and gadget from the dropdown menus and select the add button. The different gadgets may be selected by gadget type, and then desired statistic, or from the desired statistic first, followed by the desired gadget type. Not every gadget type is available for each statistic, as some statistics would not function well in a gauge, graph, or chart form, and is best represented in the forms available.

The currently available gadget types and statistics include the ones shown.



After selecting the gadget desired, some gadgets offer more configuration options, such as time frame, scope of a chart, or the top limit of a gauge. If a gauge offers further configuration, configure the gauges to achieve the desired information needs and select the green plus sign to add the gadget to the dashboard.

Moving gadgets is simple; click and drag the desired gadget to the desired location and orientation in the dashboard window by selecting the top of the containing frame. Different frames may also be sized as desired by selecting the bottom right corner of the desired frame. The mouse pointer will be changed from the system default arrow to a 'move' or a 'resize' arrow. Place and configure the gadgets as desired to create a customized dashboard.

After modifying, moving, adding, removing, or resizing any module, the 'Save Changes' icon must be clicked or the settings will not be saved.

As GWAVA 5 is updated, further gadgets may be added to the GWAVA 5 system.

Quarantine manager

The Quarantine Manager link opens the Quarantine Manager in a separate browser window or tab. The Quarantine Manager can also be accessed from any browser through the following URL:

http://<GWAVA_server_address>:49285

The Quarantine Manager is covered later on in the document. Please see the [Quarantine Manager](#) section.

Bookmarks

The Manage quick access pages link allows the administrator to provide quick access to any page with the bookmark icon in the top right-hand corner. This may shorten browsing times to often visited pages deep in the folder structure of a scanner, such as scanner statistics or exceptions.

Documentation

Online documentation is linked from the documentation menu, as is the quick install guide, which will not only guide you through basic installation instructions, but will also help in the immediate basic setup for scanners and management.

System Management

Under the System management link, default settings for the system are listed. The settings here are the base used when creating scanners. Each scanner's settings may be modified individually after scanner creation, but by changing the default settings here each scanner will be created with the basic default settings correctly.

System Management contains two sections: System management and Advanced. Most work will be completed through the System management item, while the Advanced section contains tools which should be generally left alone unless specified by support.

System Management

Admin accounts

Admin accounts allow you to add and remove administrator accounts from the GWAVA 5 system. These accounts will have full administrator rights to GWAVA Management, as well as default full administrator rights to the Quarantine system.

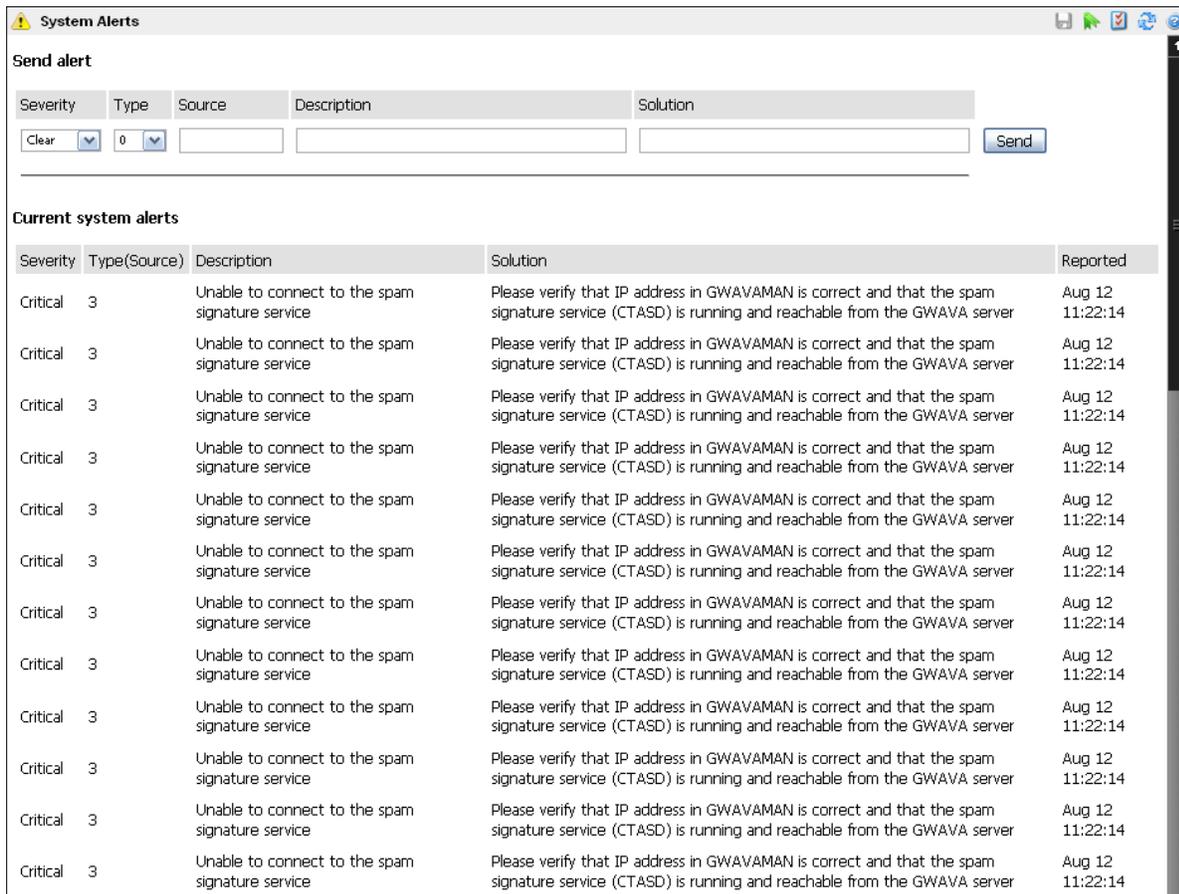
You may enable or disable four state checkboxes preference from this interface. Four state checkboxes may also be enabled or disabled from any configuration window where the preferences icon is displayed in the top right-hand corner.

System Information

System information displays exactly that. The Server name, ID, operating system, activation date, address and general status are shown. The status of each of the different running pieces of GWAVA 5 are listed here, along with their latest report-in date, time, and location. This page provides basic information on the system at a glance.

System Alerts

The System Alerts page displays all the system alerts active, as well as alert history. An Administrator can issue an alert to the system if desired, by selecting the alert and type, then selecting the Send button. Descriptions, severity, source, and solutions may be added to any alert generated from this window.



The screenshot shows the 'System Alerts' window. At the top, there is a 'Send alert' section with a table for creating new alerts. Below this is a section for 'Current system alerts' displaying a list of active alerts.

Severity	Type	Source	Description	Solution
Clear	0			

Send

Severity	Type(Source)	Description	Solution	Reported
Critical	3	Unable to connect to the spam signature service	Please verify that IP address in GWAVAMAN is correct and that the spam signature service (CTASD) is running and reachable from the GWAVA server	Aug 12 11:22:14
Critical	3	Unable to connect to the spam signature service	Please verify that IP address in GWAVAMAN is correct and that the spam signature service (CTASD) is running and reachable from the GWAVA server	Aug 12 11:22:14
Critical	3	Unable to connect to the spam signature service	Please verify that IP address in GWAVAMAN is correct and that the spam signature service (CTASD) is running and reachable from the GWAVA server	Aug 12 11:22:14
Critical	3	Unable to connect to the spam signature service	Please verify that IP address in GWAVAMAN is correct and that the spam signature service (CTASD) is running and reachable from the GWAVA server	Aug 12 11:22:14
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Critical	3	Unable to connect to the spam signature service	Please verify that IP address in GWAVAMAN is correct and that the spam signature service (CTASD) is running and reachable from the GWAVA server	Aug 12 11:22:14
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Critical	3	Unable to connect to the spam signature service	Please verify that IP address in GWAVAMAN is correct and that the spam signature service (CTASD) is running and reachable from the GWAVA server	Aug 12 11:22:14
Critical	3	Unable to connect to the spam signature service	Please verify that IP address in GWAVAMAN is correct and that the spam signature service (CTASD) is running and reachable from the GWAVA server	Aug 12 11:22:14
Critical	3	Unable to connect to the spam signature service	Please verify that IP address in GWAVAMAN is correct and that the spam signature service (CTASD) is running and reachable from the GWAVA server	Aug 12 11:22:14
Critical	3	Unable to connect to the spam signature service	Please verify that IP address in GWAVAMAN is correct and that the spam signature service (CTASD) is running and reachable from the GWAVA server	Aug 12 11:22:14
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Critical	3	Unable to connect to the spam signature service	Please verify that IP address in GWAVAMAN is correct and that the spam signature service (CTASD) is running and reachable from the GWAVA server	Aug 12 11:22:14
Critical	3	Unable to connect to the spam signature service	Please verify that IP address in GWAVAMAN is correct and that the spam signature service (CTASD) is running and reachable from the GWAVA server	Aug 12 11:22:14

Reports

The Reports function allows the Administrator to setup, send out, or receive regular system reports on the functions and different status of the system. Reports include statistics on:

- Active alerts
- Alerts cleared
- Alerts summary
- Most active recipients
- Most active senders
- Messages processed
- Messages process with a detailed summary
- Most active IP addresses

There are different types of reports based on time frame: daily, weekly, and monthly. Reports are sent to the specified recipients in the list.

The screenshot shows the GWAVA 5 System Reports interface. On the left is a navigation menu with categories like Home Pages, System Management, and Server/Scanner Management. The main area is titled 'System Reports' and contains a 'Schedule an event to execute' form. The form has fields for Name, Frequency, Report Time, Day, and Recipients. Below the form is a table of 'Currently scheduled events' with columns for Next Scheduled Time, Name, Frequency, Report Time, Day, and Recipients.

Next Scheduled Time	Name	Frequency	Report Time	Day	Recipients
Oct 20 2010 12:00:00	Daily Report	daily	midnight		[Default report recipients]
Oct 24 2010 12:00:00	Weekly Report	weekly	midnight	Sunday	[Default report recipients]
Nov 01 2010 12:00:00	Monthly Report	monthly	midnight	1	[Default report recipients]

To create and send out a report, specify the name, frequency, and time for the report, and then add the report modules desired to be included in the report.

This screenshot shows the 'Schedule an event to execute' form in more detail. The 'Name' field is set to 'daily', 'Frequency' to 'daily', 'Report Time' to 'midnight', and 'Day' to '0'. The 'Recipients' field contains 'admin@gwava.com'. Below the form, a dropdown menu is open, showing a list of report modules to be included in the report. The 'Report' field is currently empty, and the dropdown menu is open, showing a list of report modules to be included in the report.

Name	Frequency	Report Time	Day	Recipients
daily	daily	midnight	0	admin@gwava.com

Report modules available in the dropdown menu:

- Active alerts
- Alerts cleared
- Alerts summary
- Most active recipients
- Most active senders
- Messages processed
- Messages processed detailed summary
- Most active ip addresses

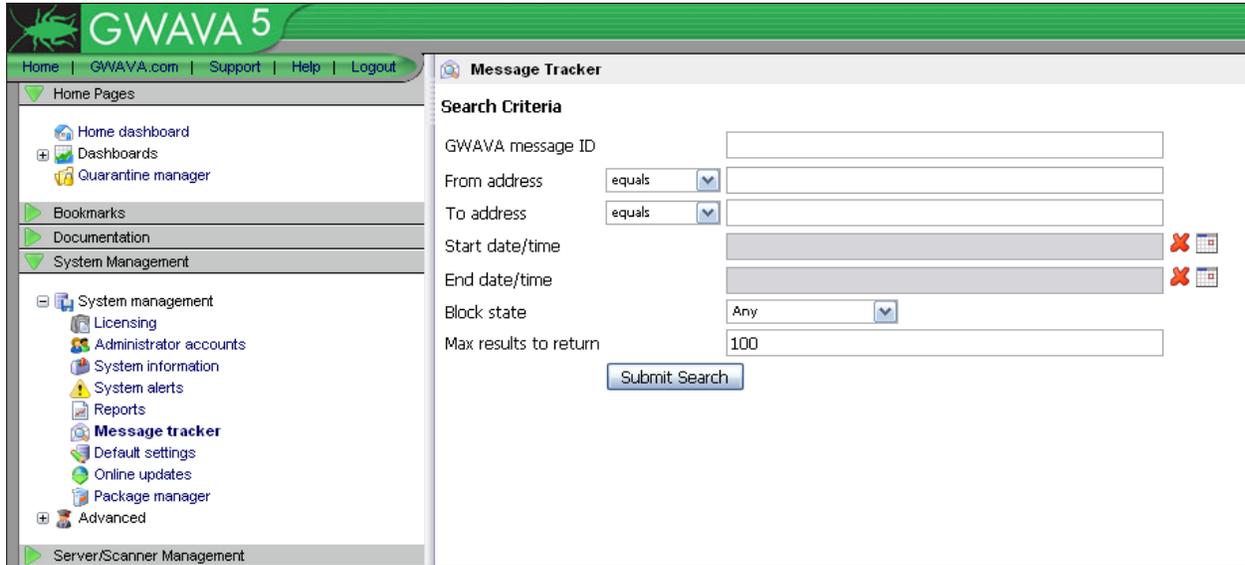
Add as many or as few report modules to any desired report, but a report should have at least one module to be of worth. Result lists may be limited to a manageable size, and the default is set to 25 items.

GWAVA 5																				
Daily Report															Oct 21 2010 12:00:00					
The reports below were generated and e-mailed to you by a GWAVA scheduled event. If you do not want to receive these reports please reply to this email and the administrator can remove you from the recipient list.																				
Detailed summary of messages processed between 10/20/10 00:00:00 and 10/21/10 00:00:00																				
Total Messages	Inbound	Outbound	Dropped	Blocked	Quarantined	Recipient Exception	Spam	RBL	SURBL	SPF	IP Reputation	Source Address	Destination Address	IP Address	Attachment	Fingerprint	Viruses	Oversize Message	Undersize Message	Text Filter
4400	4400	0	3316	373	371	0	0	966	71	28	0	0	0	0	0	0	0	0	0	0
Most active senders between 10/20/10 00:00:00 and 10/21/10 00:00:00																				
Email Address																Count				
gwava@server.cabserver.net																62				
ngw-bounces+stephenc=gwava.com@ngwlist.com																24				
root@gwavasupport050338.ded.nethosting.com																22				
ngw-bounces+rong=gwava.com@ngwlist.com																21				
ngw-bounces+ernie=gwava.com@ngwlist.com																18				
ngw-bounces+tonyc=gwava.com@ngwlist.com																18				
nomain@gwava.com																18				
ngw-bounces+sorchard=gwava.com@ngwlist.com																17				
ngw-bounces+msa=gwava.com@ngwlist.com																16				
ngw-bounces+un=gwava.com@ngwlist.com																14				

Reports may vary on exactly what is specified to be included and how many items are displayed. The Reports are subject to change and may end up being quite long, yet may be incredibly detailed and helpful in monitoring and managing the mail system.

Message tracking

GWAVA 5 contains the ability to track all messages which pass through the system, report when they passed and what action was performed on the specified message, and for what reason the action was taken. To access the Message tracker, select 'Message tracker' from the System Management window.



To track the path of a message through the system, specific information must be known about the message. GWAVA will search through the records to find a message which fits the criteria provided. The tighter the criteria provided, the smaller the results list will be.

Search terms can include:

- GWAVA Message ID
- From and To address
- Timeframe window
- Block state

The GWAVA Message ID is most useful to re-track a message that has been located beforehand, as the message ID's are unique, the result will be the specific message desired. The rest of the criteria is useful to find a message from a specific sender, to a specific user, during a specified timeframe. Setting the Block state search option limits the resulting pool of messages to only those which have either been passed through, or which have been blocked by GWAVA. A search may be performed on one criteria.

GWAVA 5

Home | GWAVA.com | Support | Help | Logout

Message Tracker

Search Criteria

GWAVA message ID:

From address: equals

To address: equals

Start date/time:

End date/time:

Block state: Any

Max results to return:

Search result

Message ID	Timestamp	Message size	Source IP address	Sender	Block state
16b9pmin.1286988123.1i	Wed 13 Oct 2010 11:30:54	652		bot@net.com	none
16b9pmin.1286988123.1m	Wed 13 Oct 2010 11:30:54	597		bot@net.com	none
16b9pmin.1286988123.1k	Wed 13 Oct 2010 11:30:54	918		bot@net.com	none
Block state: none Recipients: chris@gwava.com Message events:					
16b9pmin.1286988123.1o	Wed 13 Oct 2010 11:30:54	1049		bot@net.com	full
Block state: full Recipients: chris@gwava.com Message events: text_filter					

Messages that show up in the search may be expanded by clicking on the corresponding folder to display the pertinent information: all recipients, the block status, and a responsible scanner event causing the block.

The full message text is not available in the tracking window. Blocked messages are available to the owner or administrator via QMS. Messages which have not been blocked have been passed to the resident mail system for normal processing.

Default settings

This page displays and allows editing of the default settings used when adding a new server to the GWAVA network. The settings listed here are used to fill out the [Configure Server page](#), which the scanners read from. It is vitally important that the information supplied for this page is correct for the mail system.

The Administrator email address and name supplied here will appear on all mail notifications and digests sent by the GWAVA 5 system. Any responses to these mail items will be sent to the Administrators address. The Mail relay agent SMTP Server and the QMS SMTP Authentication server are the connection addresses used by GWAVA when sending notifications, digests, and authenticating users for access to their mail in the quarantine system.

Online updates

When a notification that updates are available for the GWAVA 5 system shows on the GWAVA 5 management homepage, this page is where the update is performed. Different update servers may be selected as the source for updated code. The 'beta' server contains unproven code and should not be

used on a production system, unless specified by support. The default download servers should be sufficient for most systems.

If the system requires a proxy to access the internet on port 80, then the proxy settings must be provided under the 'Proxy Server Configuration' section under Server/Scanner Management | <server name> | Server management | Configure server. There is a link on the update page leading directly to the appropriate page. (The Proxy Server Configuration settings may need to be 'shown' before they are accessible.)

To initiate an update, select the desired update server, and select 'Submit Update Request'. Once an update request has been initiated, GWAVA 5 will contact the update server and begin the download and update process.

Package manager

The Package manager allows the addition of third party and additional plugins to be added and installed to the GWAVA 5 mail system.

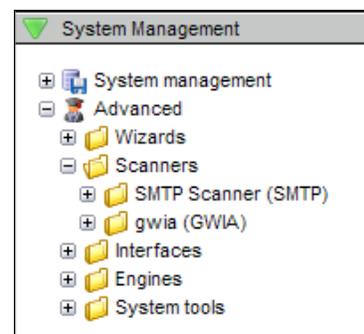
To use the Package manager, browse to and select the desired package by using the 'browse' button, then click 'upload' to load the plugin to the GWAVA 5 system. The uploaded package is usually zipped, and the GWAVA 5 system can unzip and install the package.

To unzip, install, or uninstall any third party plugin package, use the associated icon under the 'Actions' column. The 'Actions' column will only display the available actions which will identify themselves on mouse-over.

After a package has been unzipped and installed, the GWAVA 5 system may require a restart to initialize the package. See the documentation included with the additional package for details.

Advanced

The settings in the advanced section of the menu contain categorically organized items for your system. This menu provides scanning configuration identical to the scanning configuration under Server/Scanner Management, but differs in that the advanced configuration items are organized by each individual component. It is recommended to use the Server/Scanner Management menu for configuration. The advanced section should only be used by support or under the instruction of support. Items listed under 'Advanced' which are listed under the **Server/Scanner Management** section are explained where they reside under the **Scanner management** section. The menu items which are separate from the scanner tree found below are explained here.



System Tools

System Tools contains powerful tools which modify the core system of a GWAVA 5 server. These tools are not to be used on a regular basis, and should not be used unless instructed to do so by GWAVA 5

support. Editing the database, removing objects and modifying Servers in the GWAVA 5 network may render the GWAVA 5 system inoperative. Only proceed with such operations if you fully understand the process and possible repercussions and on instructions by GWAVA 5 support. The System Tools section will be added to as necessity requires, and new menu items will be self-documented within the system.

Network, Server & DB Tools

Replication manager

The replication manager is a tool to push settings found in the current GWAVA 5 system to other servers in a GWAVA network. The connection between two GWAVA servers is created during server activation. Instead of setting up the GWAVA 5 server as a 'new server', select the new server to become part of an existing GWAVA network. If chosen to do so, the manager will assist in replicating the existing configuration database and settings across multiple servers.

Database Editor

The database editor allows both the viewing and the editing of the GWAVA 5 configuration database. This can be used in coordination with GWAVA 5 support to correct some corruption and add or fix missing items in the database on occasion.

The editor prompts you to spawn a new window and then offers the option to open the selected table in either viewing only, (default setting), or in the editing mode, which allows changes to be committed to the database. The editor also includes a search function which passes queries to the database and allows the response to be limited to a desired level of results. Changes to the database in the editor are immediate. To exit the editor, simply close the window.

Server Maintenance

Standard core functions for GWAVA 5 maintenance are listed here. Removing and renaming a GWAVA 5 server from the GWAVA 5 networks correctly severs or renames a connection between two GWAVA 5 servers. Removing a connected server from a network should be done prior to uninstalling the GWAVA 5 server in order to avoid connection issues with the remaining GWAVA 5 server(s).

Due to updates and changes in the GWAVA 5 interface, it may be necessary to rebuild the system Menu's. Selecting this option causes the GWAVA 5 system to discard the current menu tree and system in the GWAVA 5 interface, and recreated them from the current system files. If a new item has been installed or downloaded to the GWAVA 5 system during an update and a menu rebuild is appropriate, you will be notified on the default GWAVA 5 home page, under the system status window. The notice will be a link which initiates a menu rebuild. Utilization of this option under the system tools should not be necessary under normal operation.

Scanner Object Map

The scanner map menu section is simply a linear object tree showing associations of the different scanner objects. Multiple scanners will show multiple maps in a separate row. The view can be spanned in a scrollable window via a link at the top of the page. Also along the top of the page, are tabs which change the 'map' shown for each scanner and interface. This page does not have any editing windows.

Server/Scanner Management

The Server/Scanner Management is setup in a directory tree-view organized around tasks. The Server management offers active setup information on the GWAVA 5 server. The Wizards menu contains all scanner creation options. The Manage scanners menu contains all currently active and created scanners and their configuration options.

Server management

This menu contains all of the active settings in the GWAVA 5 system for the GWAVA 5 server. Editing and saving changes in this section changes the active settings in the GWAVA 5 server within a couple of minutes.

Server status

The Server status page displays the basic status and rundown of the server and the platform it detects as the running system. The server name, up time, server time, database ID, object, and record count, thread count, and replicator status and queue are listed.

Configure Server

In the Configure server window, the basic connection settings for the server are listed. The default log level, the SMTP connection and authorization, and the administrator address and name are configured on this page.

The Admin name and address is the default source address for digests and notification messages sent by GWAVA to users in the system. If replied to, the messages will return to the address listed here.

The QMS authentication server should be the connection to the GWIA for GroupWise systems, in order to allow user-level access to the quarantine manager for each user's respective quarantined mail.

Server Configuration

GWAVAMAN root directory: /opt/beginfinite/gwava/

[Show Advanced Connectivity Settings](#)

Administrator e-mail address: admin@buycrap.org

Administrator Full Name: admin

E-mail administrator of system status alerts:

Log level: Errors only

Keep log files for: 3 days

Global mail relay agent SMTP Server: 192.168.1.104

Global mail relay agent SMTP auth login name: chris

Global mail relay agent SMTP auth login password: ●●●●

[Show Advanced Message Relay Settings](#)

Proxy Server Configuration

Enable QMS data pruning

Days to retain messages in QMS: 30 days

Prune stored messages:

Prune database entries:

Backup and maintenance time: 02:00

[Show Advanced QMS Settings](#)

[Show Advanced Statistics Settings](#)

SSL configuration is offered on the Linux OS platform, and is setup under the 'Advanced Connectivity Settings' link, which exposes the options on the page.

[Hide Advanced Connectivity Settings](#)

GWAVAMAN Connection/Replication Address: 192.168.1.104:49282

Program	IP Address[:port]	Enable SSL	SSL address[:port]
GWAVAMAN	0.0.0.0	<input type="checkbox"/>	0.0.0.0:49382
QMS	0.0.0.0	<input type="checkbox"/>	0.0.0.0:49385
GWAVA	0.0.0.0		
STATS	0.0.0.0		
AENGINE	0.0.0.0		

SSL Cert. File:

SSL Key File:

SSL Key Password:

Note: Changes to the connection addresses and SSL settings require the GWAVA programs to be restarted to ensure they take effect

The connection addresses for the different objects in GWAVA 5 are listed and configured on this page. *There is no reason to configure these settings on standard GWAVA 5 installations unless the GWAVA server has been installed to a cluster.* These settings should not be changed unless instructed by GWAVA support.

Hide Advanced SMTP Settings	
SMTP outbound queue directory (relative to root)	services/smtp_mailer/outbound
Mail relay agent SMTP greeting (optional)	
Mail relay agent SMTP Authentication Method	Auto-detect
Maximum SMTP send threads	16
Retry sending message every (minutes)	15
Maximum number of message retries	16

If your GWIA requires a special greeting, or authentication type, or you use an external SMTP server which requires special authentication or login information, this is where GWAVA is informed of the connection. For most systems, the only configuration performed on this page is the “Maximum SMTP send threads” variable. This determines the maximum amount of threads which GWAVA will use to send notification or digest messages to the GWIA or receiving SMTP gateway in the mail system. This should be less than the total number of receive threads open on the GWIA or the SMTP agent, to ensure that the mail system is not overwhelmed when digests are sent. Default is shown.

Hide Proxy Server Configuration	
Use proxy server	<input type="checkbox"/>
Proxy server address	<input type="text"/> (ex: proxy.myfirewall.com:8080)
Proxy server login	<input type="text"/>
Proxy server password	<input type="text"/>
Note: Some services require a restart for proxy settings to come into effect.	

If your system accesses the internet through a proxy, add the information here using the syntax shown. If a proxy is not used, this should be let blank.

Hide Advanced QMS Settings	
QMS role	Master
QMS parent server (when in slave mode)	[none]
QMS queue directory (relative to root)	services/qms/in_queue
Enable QMS nightly backup procedures	<input checked="" type="checkbox"/>
Enable QMS nightly reindex	<input type="checkbox"/>
Enable QMS nightly database vacuum	<input type="checkbox"/>
Enable QMS integrity checks	<input checked="" type="checkbox"/>

The Advanced QMS Settings allow the function of newer QMS tools to help clean and maintain the qms database. The nightly backup and integrity checks do exactly as they say. The database vacuum and reindex services clean out bad links and files, and reindex the files in the database for faster searching. The database vacuum and reindex services normally do not need to be run, and should only be done so under the direction of support.

The QMS role is an option to allow all QMS data to be stored in a central location when utilizing multiple GWAVA servers in a system. The ‘Master’ role sets QMS to have all quarantine data copied to that server from ‘Slave’ QMS servers. Slave QMS servers will contact the Master QMS and copy all quarantined data and messages to the master, storing all quarantined messages in a central location. This should not be changed unless multiple GWAVA servers exist in the system.

Advanced Statistics settings

Configure Domains

All domains for which the host mail system receives mail must be listed on this page, as either the default domain or as an additional domain; otherwise, GWAVA will not accept mail sent to a domain(s) not listed. This section is covered under the [SMTP scanner creation section](#).

Appliance control

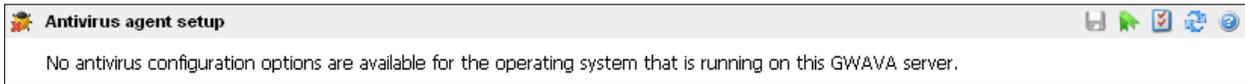
Program/Server Control	
Restart GWAVA:	<input type="button" value="Restart GWAVA"/>
Restart the server:	<input type="button" value="Restart Server"/>
Shut down the server:	<input type="button" value="Shut down server"/>
Mail Flow Control	
Enable/disable Mail flow:	<input type="button" value="Enable"/> <input type="button" value="Disable"/>
Utility Control	
Enable/disable SSH permanently:	<input type="button" value="Enable"/> <input type="button" value="Disable"/>
Turn on/off SSH until next restart:	<input type="button" value="On"/> <input type="button" value="Off"/>
Synchronize the time using NTP:	<input type="button" value="Sync"/>
Current system time: 09:54:23 AM Tue, 14 Apr 2009	

If the GWAVA Server was installed using the GWAVA Appliance ISO or installed to a Linux server, then the Appliance Control menu will be available to provide the base control of the appliance. Windows servers will retain some functionality here, with all but the Utility control section. If the The commands are self-explanatory; Restart GWAVA, Restart Server, Shut down server, Enable/disable Mail flow, SSH configuration, and NTP sync.

Unless configured otherwise, SSH access will be opened or disabled for the default port, (22).

Antivirus agent setup

GWAVA 5 systems do not need to specify or choose an antivirus engine, as the Kaspersky engine is the only one currently available and runs automatically. Kaspersky Antivirus will connect to the internet and download virus updates hourly, therefore the Linux antivirus only needs to be configured if the network utilizes a proxy to access the internet. (Proxy server settings are specified during server activation, and may be added or configured later on the **Server/Scanner Management | <Server name> | Configure Server** page under the **Proxy Server Configuration** section.)



SigSpam / IPRep agent setup

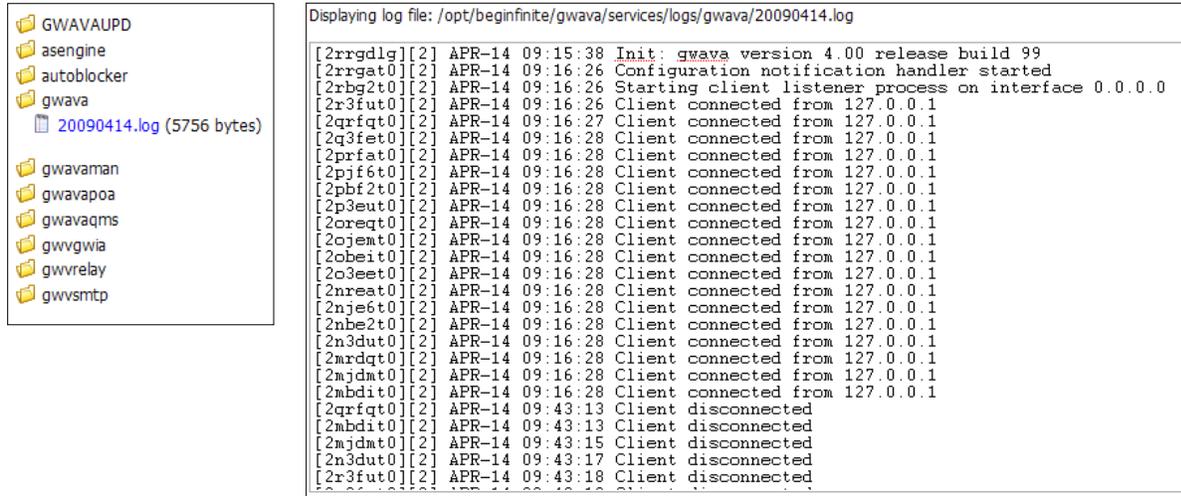
Note: Changes to these settings may require GWAVA on server gwava-iso (Linux) to be restarted to take effect	
Signature spam connection address	<input type="text" value="127.0.0.1"/>
IP reputation service connection address	<input type="text" value="127.0.0.1"/>

The GWAVA 5 scanning system can provide signature and IP reputation services to other GWAVA 5 servers in the same network. If a secondary GWAVA 5 server is to provide the scanner service, the connection information for that server must be specified via IP address. The default configuration is to have the local host provide the scanning service.

Logs

GWAVA 5 keeps logs for each major module in operation, with the logging level determined by the server configuration. For most situations, leaving the log level at normal will be sufficient. The Log menu option allows the admin to view the logs from the GWAVA management console. The logs are also available in the file structure for offline viewing. The file location is listed at the top of the log page.

<Where gwava is installed>/gwava/services/logs/<module>/<log>



The screenshot shows a file explorer window on the left with a tree view of the GWAVA directory structure. The 'gwava' folder is expanded, showing a file named '20090414.log (5756 bytes)'. To the right, a preview window displays the contents of this log file. The log entries show the initialization of GWAVA version 4.00, the start of the configuration notification handler, and the starting of the client listener process on interface 0.0.0.0. It then lists numerous client connections from 127.0.0.1, each with a unique module ID and a timestamp of 09:16:28. Finally, it shows several client disconnections with timestamps ranging from 09:43:13 to 09:43:18.

```
Displaying log file: /opt/beginfinite/gwava/services/logs/gwava/20090414.log

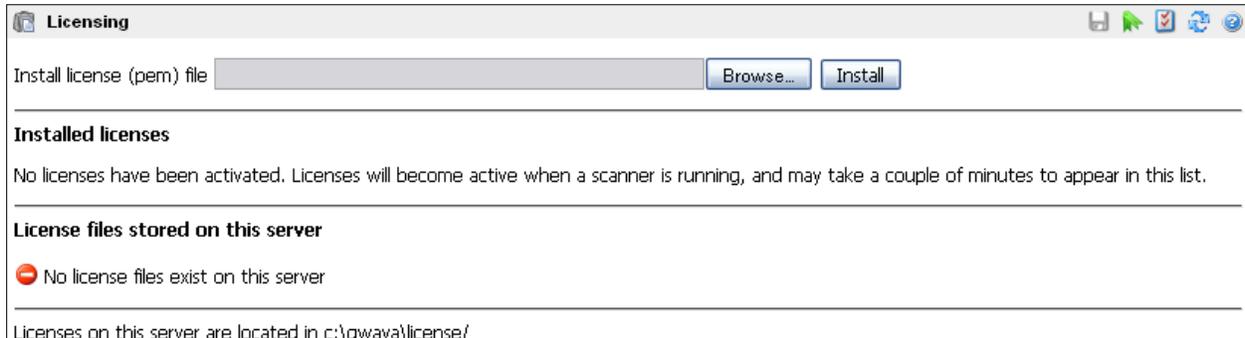
[2rrgd1g][2] APR-14 09:15:38 Init: gwava version 4.00 release build 99
[2rrgat0][2] APR-14 09:16:26 Configuration notification handler started
[2rbg2t0][2] APR-14 09:16:26 Starting client listener process on interface 0.0.0.0
[2r3fut0][2] APR-14 09:16:26 Client connected from 127.0.0.1
[2qrfqt0][2] APR-14 09:16:27 Client connected from 127.0.0.1
[2q3fet0][2] APR-14 09:16:28 Client connected from 127.0.0.1
[2prfat0][2] APR-14 09:16:28 Client connected from 127.0.0.1
[2pjf6t0][2] APR-14 09:16:28 Client connected from 127.0.0.1
[2pbf2t0][2] APR-14 09:16:28 Client connected from 127.0.0.1
[2p3eut0][2] APR-14 09:16:28 Client connected from 127.0.0.1
[2oreqt0][2] APR-14 09:16:28 Client connected from 127.0.0.1
[2ojemt0][2] APR-14 09:16:28 Client connected from 127.0.0.1
[2obeit0][2] APR-14 09:16:28 Client connected from 127.0.0.1
[2o3eet0][2] APR-14 09:16:28 Client connected from 127.0.0.1
[2nreat0][2] APR-14 09:16:28 Client connected from 127.0.0.1
[2nje6t0][2] APR-14 09:16:28 Client connected from 127.0.0.1
[2nbe2t0][2] APR-14 09:16:28 Client connected from 127.0.0.1
[2n3dut0][2] APR-14 09:16:28 Client connected from 127.0.0.1
[2mrdqt0][2] APR-14 09:16:28 Client connected from 127.0.0.1
[2mjdm0][2] APR-14 09:16:28 Client connected from 127.0.0.1
[2mbdit0][2] APR-14 09:16:28 Client connected from 127.0.0.1
[2qrfqt0][2] APR-14 09:43:13 Client disconnected
[2mbdit0][2] APR-14 09:43:13 Client disconnected
[2mjdm0][2] APR-14 09:43:15 Client disconnected
[2n3dut0][2] APR-14 09:43:17 Client disconnected
[2r3fut0][2] APR-14 09:43:18 Client disconnected
```

The different modules perform different tasks. The main modules to view, if desired, are:

- gwava – the main scanner
- gwavapoa – post office scanner
- gwavaman – management
- gwavaqms – quarantine manager
- gwvsmtp – GWAVA Smtip service

Licensing

GWAVA 5 must be licensed to use for longer than 30 days and WASP 2 requires a similar license. These licenses may be obtained by contacting the sales representative for your area. Please visit <http://www.gwava.com/company/contact-us.html> to contact your sales representative.



If no licenses are present, the window will state that no licenses have been found. To install a license, select the 'Browse' button and locate the unzipped license file (.pem). After the license file has been located and selected, click the 'Install' button and the license file will be uploaded to the GWAVA 5 server. GWAVA 5 will look for, and recognize the license file in a few minutes. If impatient, restarting GWAVA 5 will trigger the system to look for the license file on startup. Keep an archive copy of the license file for disaster recovery. The license storage location on the GWAVA 5 server is listed at the bottom of the screen.

Wizards

This feature is covered under the [scanner creation](#) section.

Manage scanners

The Manage Scanners menu option contains the settings for each scanner, organized under each scanner's name. To bulk modify scanners, the scanners must share a scanner engine. See the [Advanced](#) section for more information.



Manage Scanners

The General settings of each scanner configuration contains the basic settings for the system configuration and the notification settings.

General Configuration

General Configuration

- Enable scanner services
- Enable outbound scanning
- Enable inbound scanning
- Enable collected item scanning (POA)

[Show per event scan direction settings](#)

- Use message 'date' field for quarantine timestamp

- Enable decompression services

[Show Advanced Decompression Settings](#)

[Show Advanced System Settings](#)

Administrator e-mail address:

Administrator Full Name:

Enable Scanner services: Enables the scanner, or places the scanner in bypass mode.

Enable outbound scanning: Enables the scanner to filter outbound mail.

Enable inbound Scanning: Enables the scanner to filter inbound mail.

Enable collected item scanning (POA): Enables the POA scanner to function if attached.

The defaults for the above settings are shown, (all enabled).

The Per event scan direction settings perform the same as the global settings described above, except that it only applies to specific scanner events. The default is shown, with all enabled except outbound Antispam scanning. In example: if SURBL, RBL, IP reputation or SPF are enabled

[Hide Per event scan direction settings](#)

Scanner event	Scan inbound	Scan outbound	Scan collected
Virus scan	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Antispam heuristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
RBL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SURBL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
IP reputation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SPF	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Text filtering	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Raw MIME filter	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Header filter	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Oversize	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Fingerprint	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Attachment type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Source address	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Destination address	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
IP address	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

on the scanner, but are not desired for outbound mail, unselect the scan outbound box for those services and click the save changes button to apply them in the scanner. The 'Scan Collected' box ONLY applies to scanning a GroupWise Post Office, and will only be useful if the scanner being modified is a POA scanner.

The Advanced Decompression Settings dictate how deep a message is scanned. Default recursion is 4, and all options are selected.

Hide Advanced Decompression Settings	
Maximum Recursion Depth	<input type="text" value="4"/>
<input checked="" type="checkbox"/> Scan Archive shell	
<input checked="" type="checkbox"/> Decompress EXEs	

Advanced System Settings provides customization on the timed delay. This delay is the amount of time that GWAVA waits to reload system configuration after a change has been made in the management console. Default is 30 seconds for a change delay, and the max delay is set to 60 seconds.

Hide Advanced System Settings	
Settings change timed delay (seconds)	<input type="text" value="30"/>
Settings change max delay (seconds)	<input type="text" value="60"/>
Generate diagnostic CF files with PCR files	<input type="checkbox"/>

By default, GWAVA 5 will not generate a diagnostic CF file with the scanning PCR files. These files are temporary files used when troubleshooting the message scanning process. Unless specified by support, there is no need to create a CF file.

Notification

Administrator notification template	notify_admin.shtml
Originator notification template	notify_originator.shtml
Recipient notification template	notify_recipient.shtml
Defined addresses notification template	notify_generic.shtml

Administrator e-mail address	admin@gwava.com
Administrator full name	admin

	Inbound	Outbound
Notify sender	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Notify recipient	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Notify administrator	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Notify defined users	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

[Hide Advanced Notification Settings](#)

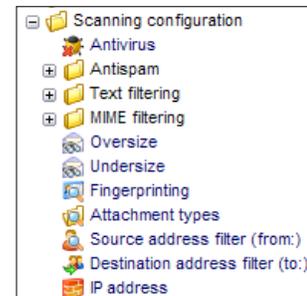
Notification from name	
Notification from e-mail address	
<input type="checkbox"/> Use custom logo in notifications	
Custom logo relative path	assets/global/images/gwava.jpg

The notification options allow you to specify which templates are used to create the message, the send from address, (the admin address and name are the default used as the 'From:' address), and the events specified for notification. Events specified for notification here still depend on the notification setting to be active in the individual scanner events.

Scanning configuration

Antivirus

The default antivirus scanning settings are set to scan messages for viruses, and if a virus is found, the message is immediately blocked/deleted, and, regardless of any other setting in the system, never added to the quarantine. See the [four state checkbox](#) section in the appendix for details.



<input checked="" type="checkbox"/> Enable virus scan event

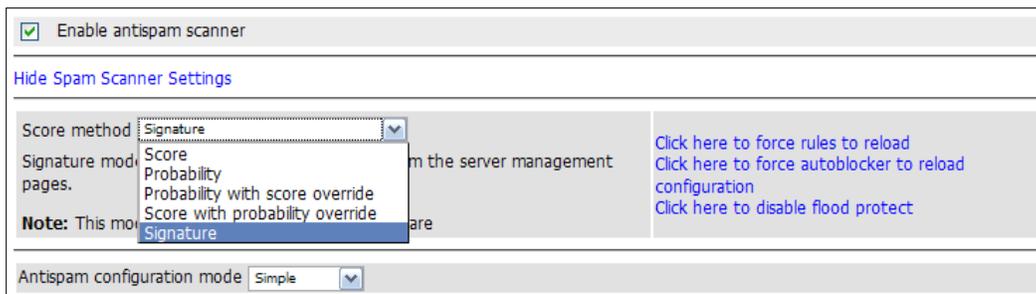
Activate the following services when a virus is detected

<input checked="" type="checkbox"/> Block the message
<input type="checkbox"/> Notify the sender
<input type="checkbox"/> Notify the recipient(s)
<input type="checkbox"/> Notify the administrator
<input type="checkbox"/> Quarantine the message

Antispam | Heuristics

Spam Scanning Engines

The different scanner engines may be selected for use under the **Heuristics** page, by selecting the '**show spam scanner settings**' text link, then selecting the different scanners from the '**Score method**' drop down menu.



The **Signature** engine, (only available on Linux and Windows), replaces the original anti-spam heuristic engine, and uses definitions and rules in an advanced method to block and sort spam. False positives are virtually non-existent and the signature engine requires no training whatsoever. Periodic updates to the rule set will be performed with the system update, when appropriate. **The Signature engine is highly recommended.** The Signature engine replaces the following two spam engines, and should be used in place of the following scanners.

The **Score** method is the heuristic scanning engine which uses a set collection of rules to grade and categorize spam. Every word or empty white space in a message combines to form a total score for each message, which is then compared to a 'threshold' score level. Mail that passes 'under' the threshold score level is allowed to continue into the system, while mail that does not exceeds the threshold score level is blocked and/or placed into the quarantine .

The **Probability** engine is superseded by the signature spam engine and is considered old technology by GWAVA 5. If desired, the Probability engine is an intelligent learning engine that will actively create and change rule sets based on mail fed into the learning system. This allows the administrator to actively create custom scanner based on the mail the organization keeps and sends. To use this engine effectively, it must be trained. Until there is a minimum of 1000 'ham' and 5000 'spam' example messages in the learning database, the probability engine will be unreliable. (The Signature spam engine requires no training, is extremely accurate, and is ready to be used as soon as it is installed. The Signature engine is highly recommended.)

The best way to train the probability engine is through the auto-learn feeders. The Non-spam auto learn, and the Spam auto-learn services take a carbon copy of a message and place that into the advanced learning engine of GWAVA 5. The learning engine then consumes the message and creates a rule set based on the message, either for spam, or for non-spam, or 'ham'. None of the auto-learn training methods will disrupt the delivery of mail to users in the system. These methods are completely transparent to standard users.

The defaults for each service and best practices are listed below.

Spam auto-learn

The **Spam auto-learn** menu, when expanded, looks as shown with SURBL and RBL selected as training sources by default. SURBL alone is a sufficient source for training the probability engine for spam, but extending the training to RBL expands and accelerates the process. DO NOT use outbound mail or inbound mail for spam training.

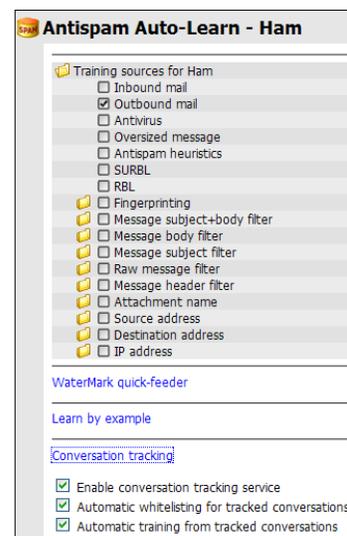
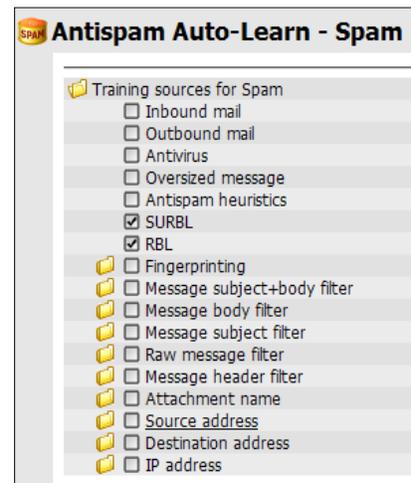
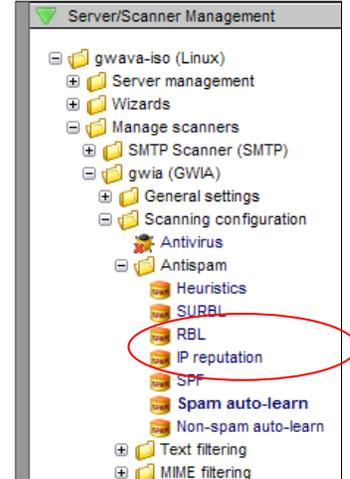
The Source address option allows for the creation of a 'honey pot' account or accounts that will only receive spam, and automatically adds copies of the messages and adds them to the advanced learning engine. Source addresses, as well as any item in this list marked with a folder, may be expanded and event items individually selected or excluded. Some of the item events here must be created by the admin. To create an item event, add a new item to the filter that matches the folder item desired. For example; to create a source address to train from, enter a new address to the **Source address (from:)** filter, then return to this dialog and select the desired address as a learning source.

Non-spam auto learn

The Non-spam, or Ham auto-learn menu options are nearly identical to the spam auto-learn. Outbound mail and Conversation tracking are enabled by default. With outbound mail, every message that passes through the GWAVA scanner to destinations outside the host domain will have an identical copy placed in the advanced learning database, as an example of good mail. Because ham requires examples of good mail, any source of mail that could include spam should NOT be used, (inbound, antivirus, oversized, Antispam, SURBL, RBL, etc...).

Conversation Tracking

Conversation tracking keeps tabs of continued email correspondence between local users and their outside contacts. These email 'conversations' are, by default, automatically added to a white list as well as copied and added to the advanced learning engine as examples of good mail.

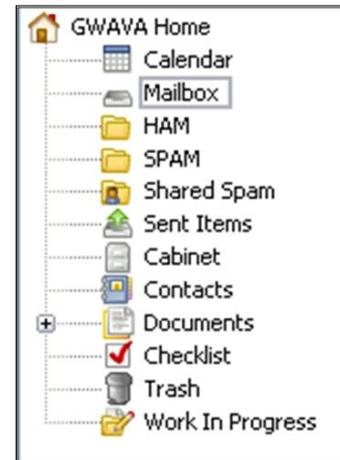


Ham and Spam fine tuning

The signature spam engine does not need fine tuning; this step only applies to the probability spam engine. Until the probability engine is fine tuned for any specific system, there may be some false positives and negatives which make it through or are blocked by the mail system. The Probability engine will create rules based entirely on the type of mail it is fed to create a rule set from. Feeding the system incorrect mail types will result in an faulty rule set for the filter which will produce false positives and allow spam through the system.

To fine tune the probability engine, GWAVA 5 can be fed the spam that slips past the filter, as well as the ham that is caught in the quarantine, to adjust the filter rules. GWAVA 5 is fed this mail through 'feeder' folders created in a GroupWise account. The folders are specified in the GWAVA system, one for 'Ham' and one for 'Spam'. A module of GWAVA 5 connects, via IMAP, to the specified account and pulls the messages found in the 'ham' and 'spam' folders, and appropriately creates rules to the filter based on those messages.

The GroupWise account does not need to be an admin account, but it is recommended that a new account be created in order for ease of management. This new account, (it can be named anything, ie. 'GWAVA Home'), should have at least three folders created at the root of the account: Shared spam, Spam, and Ham. (A shared ham folder can also be created, if desired, to increase the amount of ham collected.) The shared folders are for collecting and verifying the mail type, the spam and ham folders are the IMAP feeder folders for GWAVA.



If spam gets through the filter, the users should be instructed to move their unwanted mail into the shared spam folder, so it can be verified as spam, and placed in the spam feeder folder. *Not everything placed in the shared spam folder will be spam, depending on what users deem as 'unwanted mail'.*

False positives, ham, will be stored in the GWAVA Quarantine system. This mail will need to be released back into the system. By default, users can release messages flagged as spam and blocked from their mailbox, and can be alerted of this mail. To harvest ham for fine tuning, the Quarantine system can be set to send a blind carbon copy, (BCC), when a message is released from the quarantine. Set the BCC on release address to your feeder folder account, and each time a message is released from the Quarantine, a copy will be sent to the feeder account. *Not all messages released by users will be 'ham' or desired for a general rule set for the GWAVA filter system. Some users may release everything to their mailbox regardless of whether it is spam or not.* Fine tuning the system requires the administrator to manually sort through the released mail and only move the desired ham into the 'ham' feeder folder.

Once mail is placed in either the Ham or Spam feeder folders, GWAVA should remove them from these folders within a few minutes. These messages are consumed by GWAVA and are removed from the system. Messages that need to be available later on should not be dropped into the Ham folder, as they will be removed from the GroupWise system.

Before GWAVA can utilize the feeder folders, GWAVA must be made aware of them. The learning feeder folders option is found under **Server/Scanner Management | <server name> | Manage Scanners | <scanner name> | Scanning Configuration | Antispam | Heuristics**. To change the scanner, click ‘Show Spam Scanner Settings’ and select the Probability engine from the drop down menu and ‘Save Changes’. When the Probability engine is selected under the **Heuristics** page, the learning feeder services option will become available.

<input checked="" type="checkbox"/> Enable antispam scanner						
Show Spam Scanner Settings						
Antispam configuration mode: Simple						
<input checked="" type="checkbox"/>	Quarantine message at this threshold		97.0000	%		
<input checked="" type="checkbox"/>	Delete message at this threshold		99.9000	%		
<input checked="" type="checkbox"/> Enable learning feeder services						
Spam / Ham	Feeder type	Server	Login	Password	Folder (IMAP)	Flood protect
Spam	IMAP					<input type="checkbox"/>
Spam	IMAP	192.168.1.104	gwava-home	SPAM	false
Ham	IMAP	192.168.1.104	gwava-home	HAM	false

Enable the learning feeder services, and fill out the appropriate information. The IMAP address should match the address and port of the IMAP interface of the Post Office containing the specified user. The IP address and port are specified in the following syntax: <ip_address:port>. If no port is specified, the default port, 143, is assumed. If the Post Office IMAP is listening on a port other than 143, it must be specified. The Login name only requires the name, not the whole address. The IMAP folder must be specified and should match the Spam / Ham folder choice at the beginning. DO NOT assign your spam folder for ham feeding, or your ham folder for spam feeding as this would reverse the training and rule set. Flood protect should not be enabled unless instructed by support.

After the feeders have been setup, make sure to save the changes. Once the changes have been saved, the feeders will become active in a few minutes.

SURBL

The SURBL event checks each message against the SURBL databases listed in the SURBL servers listed, to see if the sending server is included on the SURBL list. If it is included, the message is blocked. SURBL servers may be added or removed from the active list as desired. (It is not recommended to have more than two SURBL servers active at the same time as it may extend the scanning time with extra lookups.)

The screenshot shows the SURBL configuration window. At the top, there is a checked checkbox for "Enable SURBL event". Below this, a section titled "Activate the following services when SURBL event is detected in message header lines" contains five options, all of which are unchecked: "Block the message", "Notify the sender", "Notify the recipient(s)", "Notify the administrator", and "Quarantine the message". The main area is labeled "SURBL Servers" and contains a list box with the entry "multi.surbl.org". To the right of the list box is a "Remove Server" button. At the bottom of the window, there is an empty text input field and an "Add Server" button.

RBL

The RBL event functions the same as the SURBL event does. Incoming messages are checked to see if any sending server(s) are included on the list of the RBL servers listed. If a match is found, the service specified will be performed, (block, notify, quarantine).

The RBL event may be limited to certain lines in the message. The default is to scan the entire header of a message. (It is not recommended to have more than two RBL list servers active at the same time as it may extend the scanning time with extra lookups.)

The screenshot shows the RBL configuration window. At the top, there are two checked checkboxes: "Enable RBL event" and "Enable connection drop.". Below these is an unchecked checkbox for "Enable message received header line scan". Underneath, there is an unchecked checkbox for "Limit received header lines scanned", followed by two input fields: "First received header line to scan" with the value "1" and "Last received header line to scan" with the value "16". A section titled "Activate the following services when RBL event is detected in message header lines" contains five options, all of which are unchecked: "Block the message", "Notify the sender", "Notify the recipient(s)", "Notify the administrator", and "Quarantine the message". The main area is labeled "RBL Servers" and contains a list box with the entries "sbl-xbl.spamhaus.org" and "bl.spamcop.net". To the right of the list box is a "Remove Server" button. At the bottom of the window, there is an empty text input field and an "Add Server" button.

IP Reputation

IP Reputation works much like the RBL scanner does, in that it uses a black list, but also has a white list for common mail sources. But when used on a SMTP scanner and configured for a connection drop, IP Reputation will temporarily fail messages from sources not found on either list. The temporary fail will allow the sending SMTP gateway to retry, and IP Reputation will allow a repeated unknown attempt to pass on to the Antispam filter. As with RBL, the header lines scanned may be limited and specified. (This can be used to skip lines added to the header by a proxy server or other service.)

<input checked="" type="checkbox"/>	Enable IP reputation event
<input checked="" type="checkbox"/>	Enable connection drop. 
<input type="checkbox"/>	Enable message received header line scan 
<input type="checkbox"/>	Limit received header lines scanned
	First received header line to scan <input type="text" value="1"/>
	Last received header line to scan <input type="text" value="16"/>
Activate the following services when IP reputation event is detected in message header lines	
	<input type="checkbox"/> Block the message
	<input type="checkbox"/> Notify the sender
	<input type="checkbox"/> Notify the recipient(s)
	<input type="checkbox"/> Notify the administrator
	<input type="checkbox"/> Quarantine the message

SPF

Sender Policy Framework can be used with the GWIA and SMTP scanners. Sender Policy Framework, (SPF) attempts to verify the sender of each email message, which can eliminate spoofed email and most backscatter attacks. For SPF to work correctly, the sending domain must have an updated SPF record set up in DNS. If the sending domain does not have a SPF record set in their DNS, then their mail will not be blocked. Setting up a correct SPF record will block messages from spammers who are pretending to be you, to your system.

To use SPF on a GWIA scanner, you must correctly specify which line in the header of mail messages is to be used. If the mail system is using a relay or proxy which adds a line to the message, then you should set SPF to use the second line (2), otherwise, the line used should be set to one (1), which is the default.

<input checked="" type="checkbox"/>	Enable SPF event
<input checked="" type="checkbox"/>	Enable connection drop. 
<input type="checkbox"/>	Enable message received header line scan 
Received header line to extract source IP address from <input type="text" value="1"/>	
Activate the following services when SPF event is detected in message header lines	
<input type="checkbox"/>	 Block the message
<input type="checkbox"/>	 Notify the recipient(s)
<input type="checkbox"/>	 Notify the administrator
<input type="checkbox"/>	 Quarantine the message

SPF can be configured to perform connection blocks in conjunction with the SMTP scanner, which drops the receiving connection of a message before the message transfer is complete, if the sending server fails to be verified by SPF. This saves bandwidth as well as denying the messages from spammers.

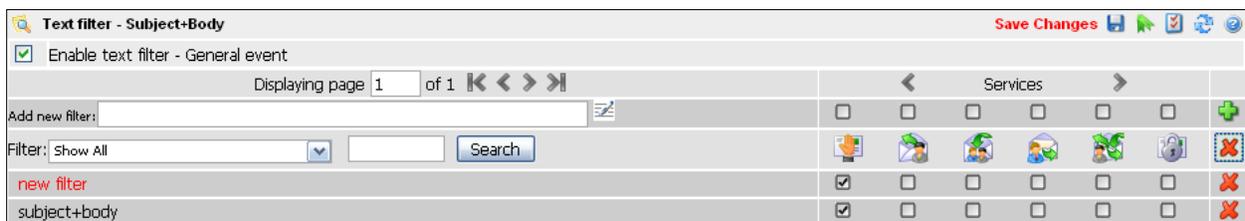
Text filtering

Subject + Body

Subject + Body Text filtering searches the subject line and body of the message for a match to any filter specified. Filters must be added manually. GWAVA 5 recognizes all plain text filters as well as standard regular expressions, or RegEx. GWAVA does not recognize RegEx ranges, (values in between { } braces), unless the entire RegEx string is followed by a '/q' at the end. (See the appendix for details.)

Subject or Body

Both the Subject and Body filters work identically to the Subject+Body filter except that the filters added to these sections are restricted to only the subject of the message for the subject filters, and likewise only the body of a message for the Body filters.



There are five, (six for some), optional actions for every scanner event or filter that fires on a message:

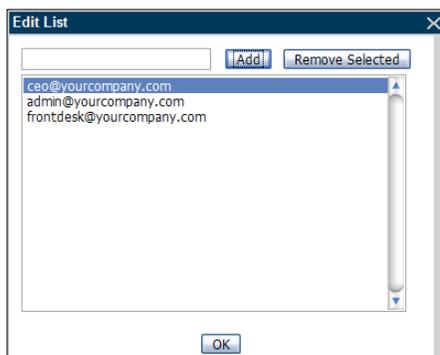
Block, Notify Sender, Notify Recipient(s), Notify Administrator, Quarantine, and, for some, **Notify Defined Addresses.** The action icons work as a global button.

Selecting the icon globally activates, or deactivates, the event for every listed option.

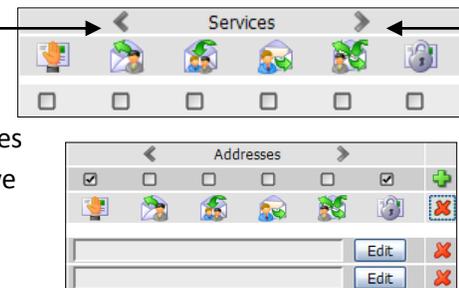


The block and the quarantine options are not the same. If you select to quarantine a message, but do not select the block action, then the message will have a copy placed in the quarantine, but still be allowed to reach the destination mailbox. Blocking a message without selecting quarantine will simply prevent a message from entering the GroupWise system.

The different notification options are exactly as they are named and are active for every time the event fires. The Notify Defined Addresses sends a notification to the addresses defined under the services carousel. To access the different options, click



on either arrow to the sides of the word **Services** above the action icons until you reach 'Addresses'. Select **Edit** to open the defined address list for this action.

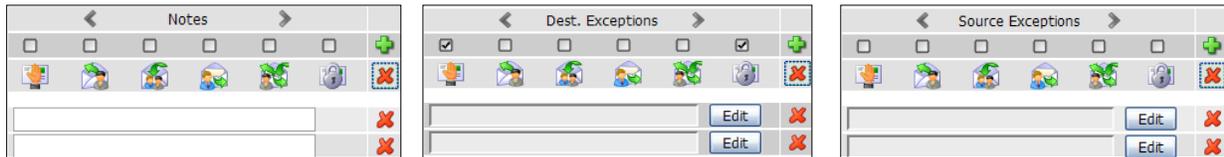


When you have defined the addresses you desire, select **OK** and enable the action.

Now that addresses have been defined and the notify addresses option is active, every time this specific text filter is found in a message, the defined addresses are notified. This is only active for the text filter which the address is tied to.

In addition to the 'addresses' option, there are three other options available to modify and customize your text filter. The different options are self-explanatory and only apply to the text filter they are defined under. The 'Notes' option allows for any particular notes to be applied to the text filter. Notes does not modify the function of the filter, but is provided for convenience. To modify the notes field, simply enter text into the provided field. Make sure to save the changes before leaving the page to commit the notes to the system.

The exceptions options, both destination and source, will only apply to the filter where they are defined. Source addresses allows incoming mail to be exempted from the filter based on the source address of that mail, while the destination exceptions allows any defined address to be exempted from the filter for all incoming mail. These exceptions only apply to the filter which they are connected to.



The different exceptions are modified in the same manner as the 'addresses' field. Select the 'edit' button and add or remove the desired addresses. Select 'ok' and make sure to save the changes before browsing away from the page to commit them to the system.

MIME filtering

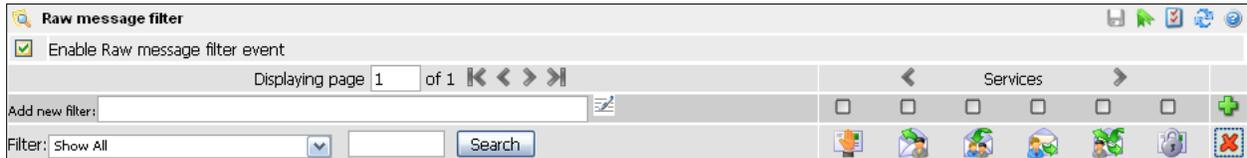
Every message passing through the mail system comes through as a MIME file. MIME filtering scans the message in its basic raw form, the MIME file, for patterns matching any filter specified by the Administrator. GWAVA 5 does not come with any raw message filters pre-configured. The MIME filters work in the same way as the text filters do for events and options. To create an effective MIME filter, the original MIME file for an offending message must be examined to identify a string or variable to create the filter for. Any line or variable in a MIME file may be subject to a filter. Specify the filters in plain text. For instance, to create a filter to block out a specific character set; create a filter looking for 'charset=<desired character set>'.

I.e.

'charset=US-ASCII'

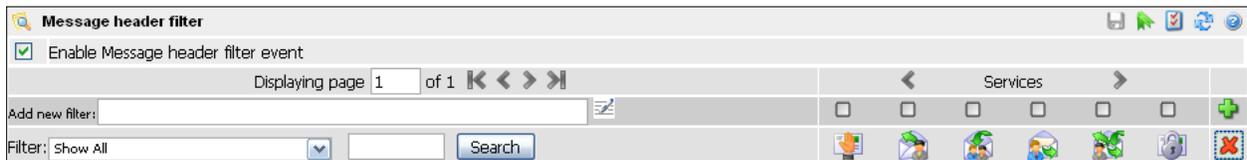
Raw

The Raw message filter searches the message section of the message MIME file. Create filters in this section to target variables in the message section of a MIME file.



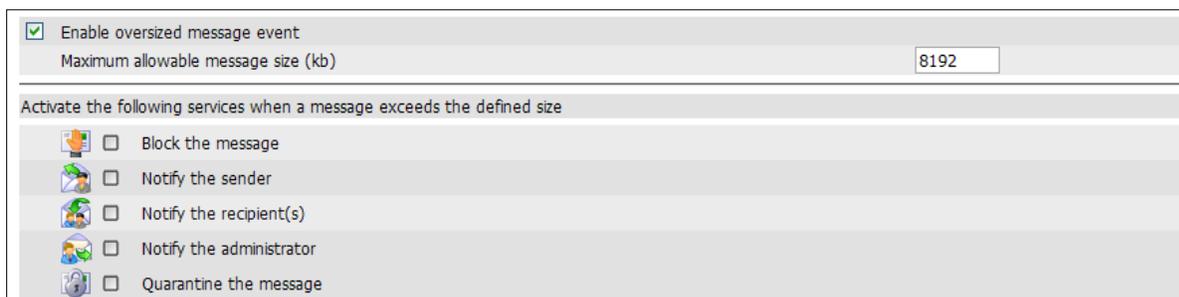
Message Header

The Message header filter searches the header of the MIME file. Create filters in this section to target variables in the header of the MIME file.



Oversize

The Oversize message event scanner targets the total size of a message to make it subject to a block, quarantine, or notification. The maximum message size allowable is specified in kilobytes, enabled with a default of 8.1 MB. If you wish to allow larger messages through the system, increase the allowable size or disable the Oversize event.



Undersize

The Undersize message event is designed to filter incomplete message files or 'blank message spam'. It may also be used to filter all messages below the standard message size in the system. The default size is 100 bytes, and may be tailored to each specific system. This scanner is not enabled by default, and must be enabled before it becomes active.

<input type="checkbox"/> Enable undersized message event
Minimum allowable message size (bytes) <input type="text" value="100"/>
Activate the following services when a message falls below the defined size
<input type="checkbox"/> Block the message
<input type="checkbox"/> Notify the sender
<input type="checkbox"/> Notify the recipient(s)
<input type="checkbox"/> Notify the administrator
<input type="checkbox"/> Quarantine the message

Fingerprinting

The Fingerprinting event scanner works like a virus scanner does, to identify the patterns of files for specific file types. This allows the fingerprinting scanner to identify renamed .exe or other file types, and keep them from advancing through the system. See the Fingerprinting scanner for defaults and all included file types. Additional file types cannot be added manually. Default actions for active file types are block and quarantine.

Fingerprinting		Services					
Filter: Show All							
ANM File (.anm)		<input type="checkbox"/>					
ARJ Compressed File (.arj)		<input type="checkbox"/>					
ASF Multimedia File (.asf)		<input type="checkbox"/>					
AVI Multimedia File (.avi)		<input type="checkbox"/>					
Adobe Font File (.afm)		<input type="checkbox"/>					
Adobe PDF File (.pdf)		<input type="checkbox"/>					
Adobe Pagemaker File (.pm)		<input type="checkbox"/>					
Adobe Photoshop File (.psd)		<input type="checkbox"/>					
Adobe Postscript File (.ps)		<input type="checkbox"/>					
AutoAnim File		<input type="checkbox"/>					
BAG Compressed File (.bag)		<input type="checkbox"/>					
BMP Graphics File (.bmp)		<input type="checkbox"/>					
BZIP File (.bzip)		<input type="checkbox"/>					
CAB Compressed File (.cab)		<input type="checkbox"/>					
CorelDraw File (.cdr)		<input type="checkbox"/>					
CorelPresentation File		<input type="checkbox"/>					
DBASE File (.dbf)		<input type="checkbox"/>					
DCX Graphics File (.dcm)		<input type="checkbox"/>					

Attachment types

The Attachment types event scanner reads the extension of an attachment and either allows or blocks the file depending on the extension. Because this is not dependent on the file's profile, as the fingerprinting scanner does, additional file extensions may be specified as desired. See the Attachment types event page for default attachment types. For all default types active in the system, the default action is to block and quarantine.

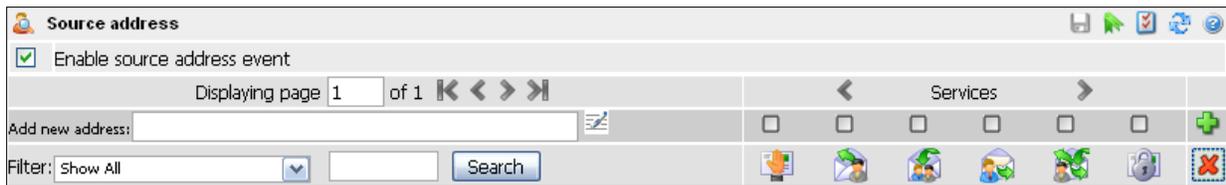
Attachment types							
<input checked="" type="checkbox"/> Enable attachment blocking event							
Displaying page 1 of 1		Services					
Add new attachment:	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Filter: Show All	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>				
*.386	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.ade	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.adp	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.bas	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.bat	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.chm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.cmd	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.cpl	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.crt	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.csh	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.dll	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.dot	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.eml	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.exe	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.hlp	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.hta	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.htt	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.inf	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.ins	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.isp	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.js	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.jse	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.lnk	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.msc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.msi	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.msp	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.mst	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.ocx	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.pcd	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.pif	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.ppa	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.ref	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.scr	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
*.sct	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				

Source address filter (from:)

The Source Address event allows specific addresses to be specified for a block, quarantine, or different notifications. The Source Address filter searches incoming message's 'From:' address for a match with any specified addresses in the list. There are no default addresses in this list.

Wildcards are recognized, though not recommended unless an entire domain is desired to be blocked. For example, to block a single address, add the undesired "username@domain.com" as a filter and specify the desired action: block, quarantine, notify.

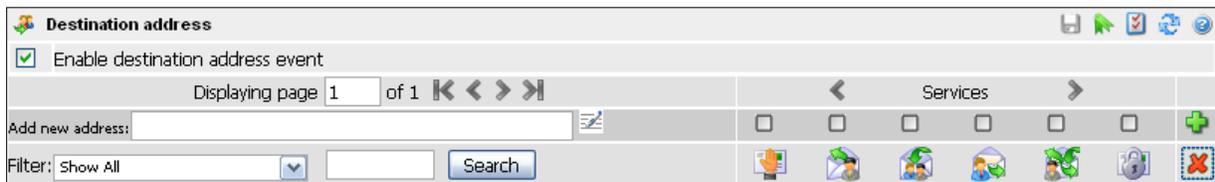
To block an entire domain, enter the undesired "*@domain.com" as a filter and specify the desired action. A filter that specifies an entire domain, will act on all messages from that domain.



Destination address filter (to:)

The Destination address filter works the same way as the Source address filter, except for the 'To:' address instead of the from address. This can be used to deny specific users messages. Specify the address with standard syntax: "username@domain.com". This is useful for when an account is no longer desired to be used, or when a notification is desired for each time a message comes to a specific user.

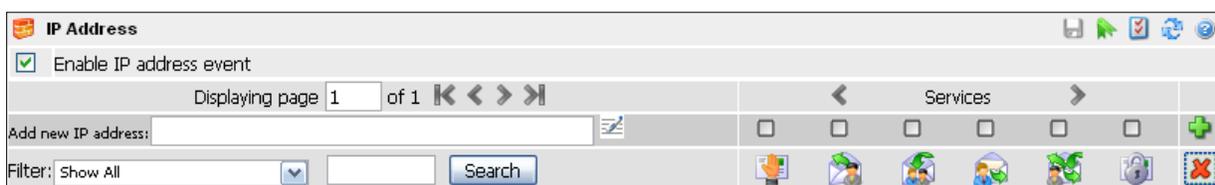
When notifications are set for a specific user, note that each time a message is sent to a specified address then the filter will fire and a notification will be sent, even if the message was blocked as spam. Every message is scanned by every enabled scanner, (except for the SPF and IP reputation scans if they are configured for connection drop).



IP Address

The IP Address event searches the message for a match to any specified address in the filter list. There are no default addresses listed. If any IP address contained in the MIME file matches one specified here, the selected event will be processed. Specify filters with the bare IP address desired.

I.e. 192.168.56.21

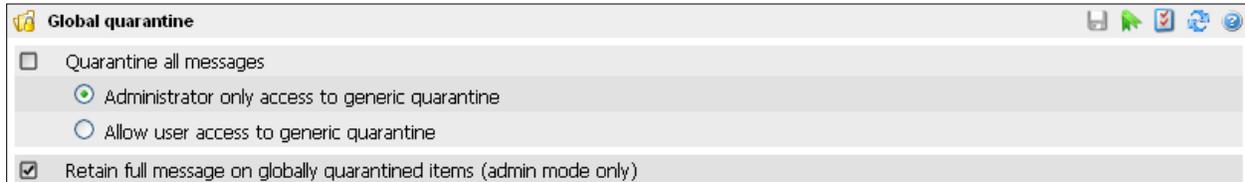


Message services

GWAVA 5 can perform three general services for the entire message system. These services are performed on all messages passing through the system.

Global quarantine

The Global quarantine message service acts exactly as it sounds; every single message passing through the mail system has a copy placed into the quarantine. This option overrules all other settings in the system, including forced deletion of virus infected messages; a copy will be placed in the quarantine.



The screenshot shows a window titled "Global quarantine" with a toolbar containing icons for save, mouse, checkmark, refresh, and help. The settings are as follows:

- Quarantine all messages
 - Administrator only access to generic quarantine
 - Allow user access to generic quarantine
- Retain full message on globally quarantined items (admin mode only)

Signatures

The Signatures service instructs GWAVA to add any specified signature to the selected directional mail. Signatures WILL NOT WORK with POA scanners. If incoming mail is selected, all messages coming into the mail system will have the signature appended to the end of the message. The same applies to outgoing mail messages. If selected, all outgoing mail will have the specified signature added to the end of the message.



The screenshot shows a window titled "Signatures" with a toolbar containing icons for save, mouse, checkmark, refresh, and help. The settings are as follows:

- Enable signature service for outgoing mail
- Enable signature service for incoming mail

Below the settings are three sections:

- HTML Signature Editor**: A text area for editing HTML signatures, accompanied by a vertical toolbar with buttons for Bold, Italic, Underline, New Line, New Para., and Horiz. Line.
- HTML Signature Preview**: A large empty rectangular area for previewing the HTML signature.
- Text Signature Editor**: A large empty rectangular area for editing plain text signatures.

Blind Carbon Copy

The Blind Carbon Copy event instructs GWAVA 5 to create a BCC message and send it to the specified address. (If you wish to send to multiple addresses, an email group should be created in the email system.) This may be specified by a custom or default event, simply by selecting the event from the list provided. For instance; if an administrator desires to be sent a BCC each time a specific user or address receives a message, they may specify a destination address event, and then select that scanner | address under this list and specify the BCC address. After saving changes, the BCC will become active in a few moments.

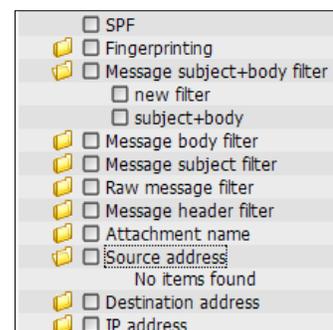
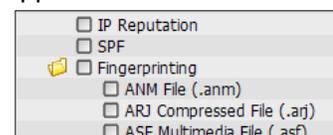


Exceptions

GWAVA 5 is designed to avoid needing exceptions. When using the Signature spam engine, there should be no reason to create exceptions on a regular basis, as caught mail will be due to a setting in one of the other filters. If mail is caught incorrectly by the oversized message, fingerprint, subject or body filters, etc... the offending engine should be adjusted. Adjust the scanner settings if exceptions are created regularly; the exception list should be used sparingly, when no other option applies.

GWAVA 5 provides the option to create exceptions to the event scanners, to allow specific messages or addresses to pass filters that would otherwise have blocked them. An exception in GWAVA 5 consists of two main parts: the identifying item and the event scanner(s) it is exempted from. Until you have specified both, the exception will not be valid and cannot be saved.

The different exception pages are essentially the same, though their function and syntax vary. Make sure you use the appropriate exception for each situation.



The exception menu items which have folders are expandable to allow the selection of specific filters inside each event scanner. For example, this allows the creation of an exception from specific file types from the fingerprinting system, instead of the entire event filter, though the entire filter may also be selected.

If an expandable event scanner does not have any filters, it will show a “No items found” notification. Since each exception adds time, though negligible, to the scanning process, only add necessary exceptions to the system.

Source address (From:)

The Source (From:) Exceptions are based on the ‘From:’ address listed for the message. The majority of exceptions are created here, as it is the easiest exception to correctly create. Source exceptions are used to allow an outside address to pass by a specific filter or filters. These exceptions are specified in the following syntax:

user@domain.com

The address exception should exactly match the source address listed on the message. Source Exceptions also recognize wildcards, and, though it is not recommended, entire domains may also be specified. (i.e. *@domain.com) However, if a simple wildcard is specified, such as *msn.com, then any message with ‘msn.com’ included in the address will be matched with the exception and will pass the selected scanners.

After adding the exception, make sure you select a scanner to apply the exception to, then save the change by clicking the colored disk to make the exception active.



Destination address (to:)

The Destination address (to:) exception list uses the “to:” address listed on the message to identify messages exempted from specific filters. Destination exceptions are used to allow a specific internal user to receive messages normally blocked by a specific filter or filters. For a destination exception to work, the domain the excepted address belongs to must be managed by GWAVA5. DO NOT USE WILDCARDS with destination exceptions. Creating a destination exception allows all external mail coming to the specified address to pass the selected filter. If a wildcard and domain is specified here, all external mail to that domain will be exempted from the selected filter and spam will be allowed through. Use the same syntax as the Source Address exceptions. (i.e. user@domain.com)

Message subject

The Message subject exception uses the subject line of the message file to identify and apply an exception. The Message Subject exception should not be used often, as repeated conversations are better identified by '[Conversation Tracking](#)' (found under the Non-spam auto-learn section). The syntax is specified in plain text.

Message text

Message text exceptions search the text of a MIME file for matches to any specified exception. Regex and plain text are accepted. Specific and exclusive signatures are a good target for message text exceptions.

Message header

Message header exceptions search the MIME header for a match to a listed exception. Header exceptions should be specified with regex or plain text as found in the header of the message.

Message source

This exception searches the entire MIME file for specified text to identify a trusted server or mail source. This is used only when the identifying information is not in a specified place in the MIME file. Any message sent from the specified source will be allowed through to the system.

IP Address

The IP Address exception searches for a specified IP address anywhere in the message header. IP addresses specified in this exception list are considered 'trusted', and no messages from these IP addresses will be blocked.

Scanner information

The general status and statistics of any specific scanner is listed here.

Status

The status page shows the health of the scanner, when it came online, and the last time it gave a health status. If the “(healthy)” does not appear within the first few minutes of scanner operation, or is not present later when checked, then the scanner may not be working correctly, and the logs should be checked.

Status

Status: Online
 Service came online at 11:36 on Tuesday 14 Apr 2009
 Last service health status received 1.3 minutes ago (healthy)

Number of interfaces using this scanner: 1

Statistics

The statistics page shows each hit on every event in the scanner, by category. There are totals for each category and complete, for the current day, as well as the life of the scanner. The statistics are refreshed regularly and the refresh date is marked at the top left of the page. To request an immediate refresh, select the “Request stats refresh” hypertext at the top right of the page. Resetting the statistics, individually or all together, wipes the statistics back to zero and restarts the count.

Detailed stats and graphs can be found and utilized through the system Dashboards.

If the virus statistics are not accurate and a third-party virus integration other than Kaspersky is being used, the spool directory may not be excluded from scanning, or the GWAVA 5 directory tree may be subject to scans incorrectly, double check your settings and restart GWAVA 5 to attempt to resolve the problem. The statistics require messages to be managed in the correct area if they are to be counted accurately. See the [antivirus agent](#) section, (pg. 33), for details.

Statistics recorded at 15:26:52 on 04/14/09 [Request stats refresh](#)

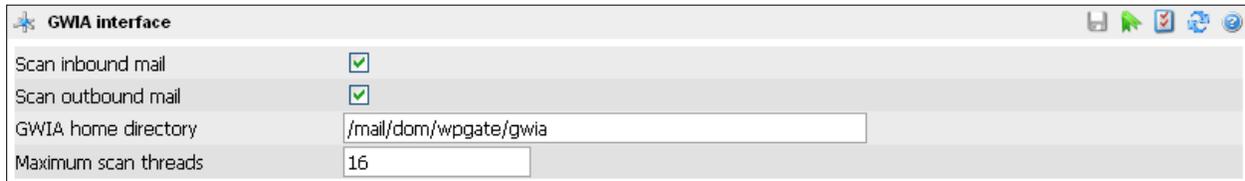
Reset statistics

Statistic	Overall	Today
Messages processed	8355	8354
Viruses detected	0	0
Spam threshold 1 detected	0	0
Spam threshold 2 detected	0	0
Spam threshold 3 detected	0	0
Spam threshold 4 detected	6	6
Spam threshold 5 detected	8	8
SURBL hits	0	0
RBL hits	0	0
Oversize messages	0	0
Raw MIME filters matched	0	0
MIME header filters matched	0	0
Text filters matched	440	440
IP address filters matched	0	0
Source addresses matched	0	0
Destination addresses matched	65	65
Attachment types matched	0	0
Fingerprints matched	0	0
Messages blocked	265	265
Sender notifications	0	0
Recipient notifications	0	0
Admin notifications	0	0
Address notifications	0	0
Quarantined messages	258	258
Spam tags	0	0
Junk flags	0	0

Configure (scanner interface) settings

Mail interface settings

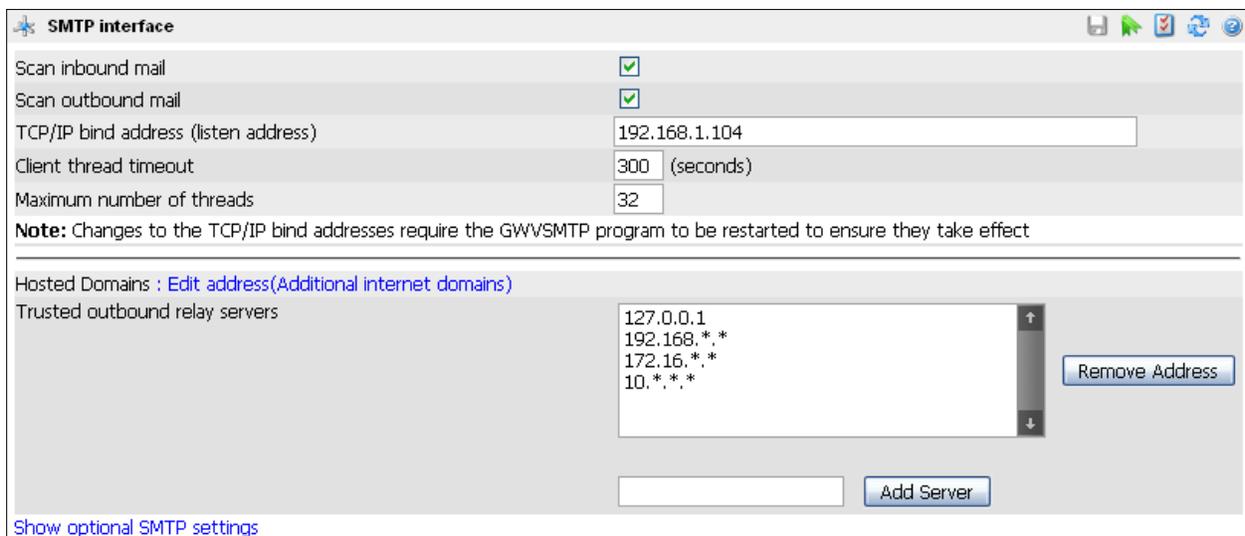
This menu item lists the basic connection and interface settings for the different scanners specified during each scanner's creation setup wizard. Each scanner type will have a different interface setting page. (See the appropriate setup wizard section for each scanner type to find information on each different scanner's settings.) A GWIA scanner's interface page only lists the home directory and mail flow settings, as that is all which is required to interface with a functioning GroupWise Internet Agent.



The screenshot shows a window titled "GWIA interface" with the following settings:

Scan inbound mail	<input checked="" type="checkbox"/>
Scan outbound mail	<input checked="" type="checkbox"/>
GWIA home directory	<input type="text" value="/mail/dom/wpgate/gwia"/>
Maximum scan threads	<input type="text" value="16"/>

The following is a SMTP scanner, which requires a binding TCP/IP listening address, and any other connection settings, depending on your network setup.



The screenshot shows a window titled "SMTP interface" with the following settings:

Scan inbound mail	<input checked="" type="checkbox"/>
Scan outbound mail	<input checked="" type="checkbox"/>
TCP/IP bind address (listen address)	<input type="text" value="192.168.1.104"/>
Client thread timeout	<input type="text" value="300"/> (seconds)
Maximum number of threads	<input type="text" value="32"/>

Note: Changes to the TCP/IP bind addresses require the GWVSMTP program to be restarted to ensure they take effect

Hosted Domains : [Edit address\(Additional internet domains\)](#)

Trusted outbound relay servers

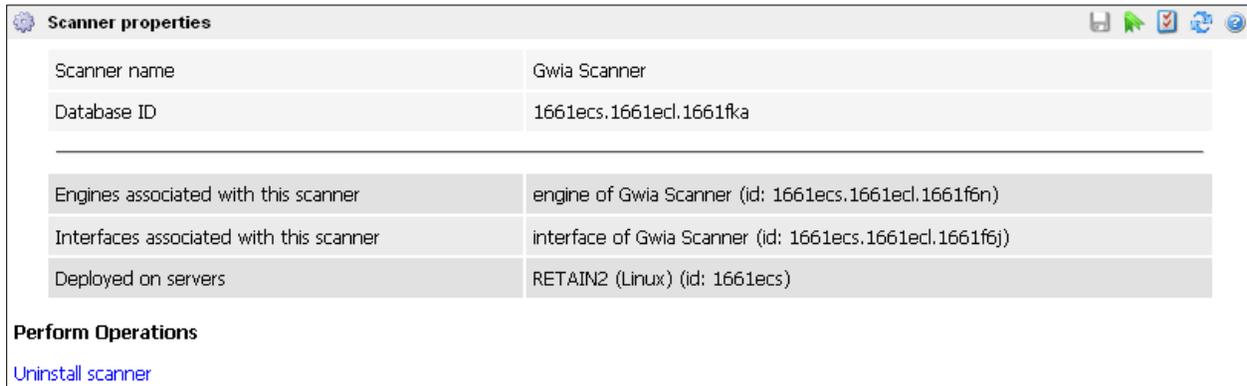
<input type="text" value="127.0.0.1"/> <input type="text" value="192.168.*.*"/> <input type="text" value="172.16.*.*"/> <input type="text" value="10.*.*"/>	<input type="button" value="Remove Address"/>
--	---

[Show optional SMTP settings](#)

Manage Scanner object

Scanner properties

The only option under this menu is to uninstall a specific scanner. Uninstalling a scanner presents the option to remove all scanner objects and reverse changes made in any GroupWise configuration file which GWAVA 5 may have altered during scanner installation.

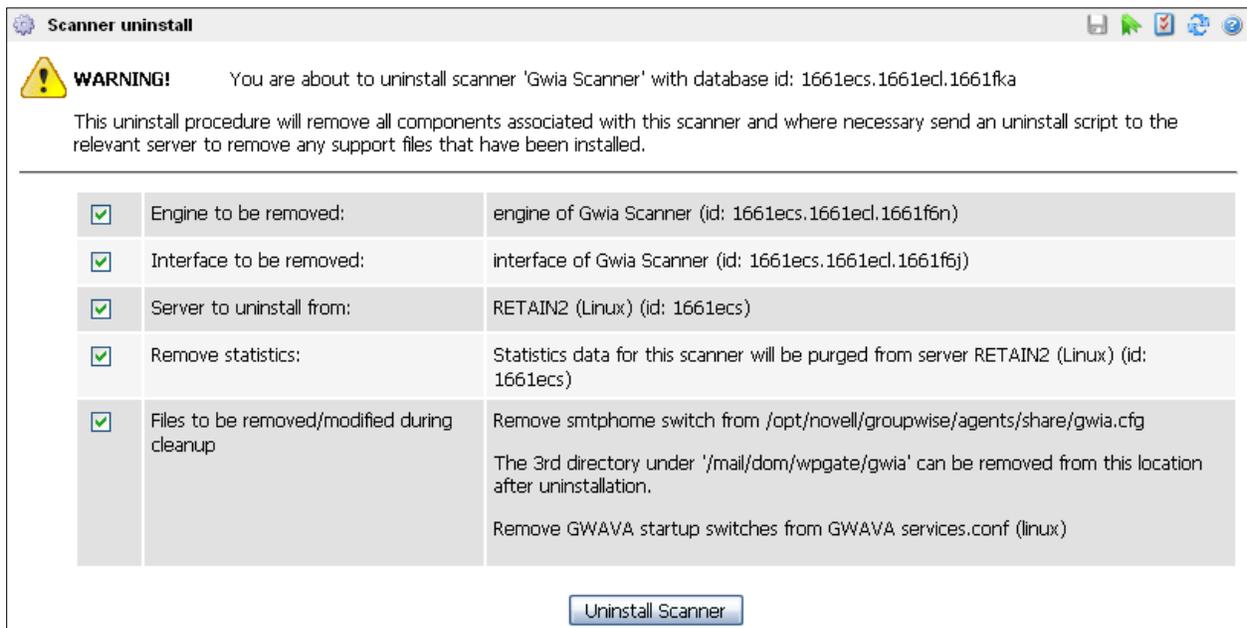


The screenshot shows a window titled "Scanner properties" with a table of scanner details. Below the table is a section titled "Perform Operations" with a link for "Uninstall scanner".

Scanner name	Gwia Scanner
Database ID	1661ecs.1661ecl.1661fka
<hr/>	
Engines associated with this scanner	engine of Gwia Scanner (id: 1661ecs.1661ecl.1661f6n)
Interfaces associated with this scanner	interface of Gwia Scanner (id: 1661ecs.1661ecl.1661f6j)
Deployed on servers	RETAIN2 (Linux) (id: 1661ecs)

Perform Operations
[Uninstall scanner](#)

When you select the uninstall option you are offered appropriate options related to each scanner. They are fairly standard for all scanner types. Be aware, there is no restore option for uninstalled scanners. Once uninstalled, all selected options will be removed and no longer exist on the GWAVA 5 server.



The screenshot shows a "Scanner uninstall" dialog box with a warning icon and text. It lists several options to be removed, each with a checked checkbox. A "Uninstall Scanner" button is at the bottom.

WARNING! You are about to uninstall scanner 'Gwia Scanner' with database id: 1661ecs.1661ecl.1661fka

This uninstall procedure will remove all components associated with this scanner and where necessary send an uninstall script to the relevant server to remove any support files that have been installed.

<input checked="" type="checkbox"/>	Engine to be removed:	engine of Gwia Scanner (id: 1661ecs.1661ecl.1661f6n)
<input checked="" type="checkbox"/>	Interface to be removed:	interface of Gwia Scanner (id: 1661ecs.1661ecl.1661f6j)
<input checked="" type="checkbox"/>	Server to uninstall from:	RETAIN2 (Linux) (id: 1661ecs)
<input checked="" type="checkbox"/>	Remove statistics:	Statistics data for this scanner will be purged from server RETAIN2 (Linux) (id: 1661ecs)
<input checked="" type="checkbox"/>	Files to be removed/modified during cleanup	Remove smtphome switch from /opt/novell/groupwise/agents/share/gwia.cfg The 3rd directory under '/mail/dom/wpgate/gwia' can be removed from this location after installation. Remove GWAVA startup switches from GWAVA services.conf (linux)

[Uninstall Scanner](#)

GWAVA Quarantine system

The GWAVA 5 Quarantine system has two different control levels for the interface: the general user interface, and the Administrator interface. When login credentials are passed to the Quarantine system, QMS, (Quarantine Management System), contacts the GWAVA 5 management system for administrator accounts, and the GWIA for normal users. QMS uses a simple SMTP authentication to check for a valid user and password against the GWIA, so the same password used by system users is used to login to manage their personal quarantine. Admin users, setup in the GWAVA 5 management console, should only use their username and password to login. Normal system users should use their full email address and GroupWise password to authenticate.

i.e.

admin

password

-or-

user@domain.com

password

User interface

The User interface is different from the Admin interface in that the options available to normal users is extremely limited. Only the Quarantine and Options tabs are available, and they only contain data related to the logged-in user.

Only the mail sent to the operating user is shown, (unless specified by the administrator, only the mail sent to a user's email address will be shown; Administrators may specify more than one address to be managed by a single user). Users may be granted rights, or have them removed from the administrator. By default,

The user's options tab offers specific login, timeout, and display settings for their specific account.

Administrator interface

The administrator user created during the initial GWAVA 5 user creation is the default account with administrator rights to the Quarantine system. When the administrator account logs into QMS, the following window is displayed listing all, if any, spam added to the quarantine system in the last three days, by default.

Quarantine

The quarantine tab lists messages and message information. It is important to pay attention to the last two columns: Event and Score. The score is a threshold level for the anti-spam engine, and the event is the scanner event, or events, which caused the message to be added to the quarantine. This information is critical to creating effective exceptions and fine tuning the scanning engine. The quarantine tab allows for the selection, white or blacklisting, forwarding, release, and searching of messages in the database.

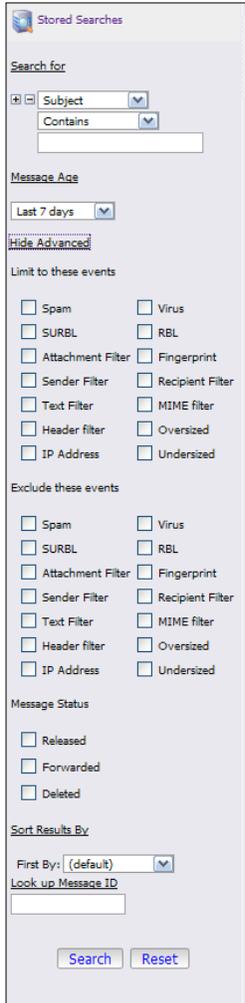
The screenshot shows the GWAVA 5 Administrator interface. The top navigation bar includes 'Quarantine', 'Options', 'Digest', 'Users', 'Groups', 'Globals', and 'Tools'. The 'Quarantine' tab is active, displaying a list of messages. On the left, there is a search sidebar with fields for 'Search for', 'Message Age', and 'Look up Message ID'. The main table has the following columns: Date, Subject, From, Recipient, Event, and Score. The messages listed are:

Date	Subject	From	Recipient	Event	Score
10-Aug-2010 15:46:51	RE: Father's Day is coming up on the 1	sandra@gwava.com	chris@ibuycrap.org ...	Text filter	0.0
10-Aug-2010 15:46:51	RE: Father's Day is coming up on the 1	sandra@gwava.com	chris@ibuycrap.org ...	Text filter	0.0
10-Aug-2010 15:46:51	RE: Father's Day is coming up on the 1	sandra@gwava.com	chris@ibuycrap.org ...	Text filter	0.0
10-Aug-2010 15:46:51	RE: demosrv Center Garage	sandra@gwava.com	chris@ibuycrap.org ...	Text filter	0.0
10-Aug-2010 15:46:51	RE: demosrv Center Garage	sandra@gwava.com	chris@ibuycrap.org ...	Text filter	0.0
10-Aug-2010 15:46:51	(none)	sandra@gwava.com	chris@ibuycrap.org ...	Text filter	0.0
10-Aug-2010 15:46:51	Kids in Construction	sandra@gwava.com	chris@ibuycrap.org ...	Text filter	0.0
10-Aug-2010 15:46:51	Re: A funny thing happened on the trip	sandra@gwava.com	chris@ibuycrap.org ...	Text filter	0.0
10-Aug-2010 15:46:51	(none)	sandra@gwava.com	chris@ibuycrap.org ...	Text filter	0.0
10-Aug-2010 15:46:51	Why One Firm Thinks demosrv Is Runn	sandra@gwava.com	chris@ibuycrap.org ...	Text filter	0.0
10-Aug-2010 15:46:51	Why One Firm Thinks demosrv Is Runn	sandra@gwava.com	chris@ibuycrap.org ...	Text filter	0.0
10-Aug-2010 15:46:51	Re: dave	sandra@gwava.com	chris@ibuycrap.org ...	Text filter	0.0
10-Aug-2010 15:46:51	Re: FW: Biggest Pussy I've ever seen!	sandra@gwava.com	chris@ibuycrap.org ...	Text filter	0.0
10-Aug-2010 15:46:51	(none)	sandra@gwava.com	chris@ibuycrap.org ...	Text filter	0.0
10-Aug-2010 15:46:51	Re: Mom's B-day: any ideas?	sandra@gwava.com	chris@ibuycrap.org ...	Text filter	0.0
10-Aug-2010 15:46:51	(none)	sandra@gwava.com	chris@ibuycrap.org ...	Text filter	0.0
10-Aug-2010 15:46:51	RE: Girls Math	sandra@gwava.com	chris@ibuycrap.org ...	Text filter	0.0
10-Aug-2010 15:46:51	Re: FW: hi	sandra@gwava.com	chris@ibuycrap.org ...	Text filter	0.0

The search function of the quarantine tab provides multiple methods of specifying criteria to search the database. As with any search engine, the more information known about the target object, the more precise the results will be. There are two main ways to search; using key words or terms and browsing by categorical results.

Searching by key words or terms is the faster, more precise way to locate a message, but make sure that any key terms provided are spelled correctly to avoid accidentally excluding the target object from the search engine. To begin a search on specified criteria, select the **Search** button.

Searching by browsing through categorical results may seem tedious, but there are several categories which may be included or excluded to considerably tighten the search results. As with the key words and terms, ensure that any items excluded from the search results does not contain the target message as well. A combination of both methods may produce the best results on a consistent basis.



Search preferences and settings are specified on the Left side of the quarantine tab window. Expanding the **Advanced** criteria section allows the limiting to events, or exclude events from the search results. For instance, most messages in the quarantine will be caught by multiple event scanners, which may cause the result list to bloat. Limiting the results to the oversized message event may help find the desired message, but if the RBL and SURBL event filters are excluded, the result list is significantly reduced, as any message caught by the oversized message filter and SURBL or RBL will not be shown.

Message Status, (released, forwarded, deleted), are 'include' options which act the same as the 'limit to' events listed above.

Sort Results by re-orders the results list by the selected option. Default sorting is by date.

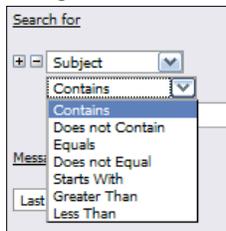
The Message Age is also a very useful criterion, which limits the results to a time frame. The date of any quarantined message in QMS is given as the time stamp set in the message MIME file. To set a custom date range, select the custom date

range button and then specify the date range from the subsequent popup window. The window provides miniature

calendar selection tools to specify the date range.

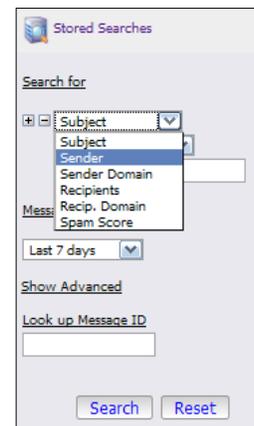
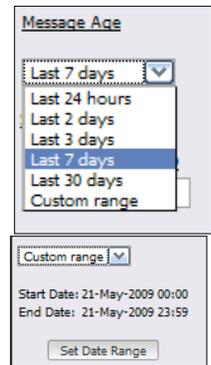
If the **Message ID** is known, (i.e. from the message digest), the message ID may be used to immediately call up the desired message.

To specify a key word or term to locate the message, select the specific key word category at the top of the search pane. The search engine needs to know both where and what it is looking for. First specify where the search engine is to look in the database. The default search field is the 'sender', or the sender's user name/address. If the 'equals' is selected, ensure exact matching spelling to the desired criteria.



Any search may be saved by selecting the "Stored Searches" icon at the top of the search pane. The **Stored Searches** function spawns a save or load window which prompts the user to either save, delete, or load any previously saved search sessions.

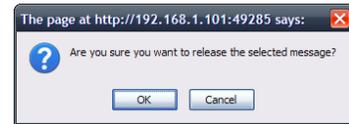
The toolbar across the top of the quarantine tab window provides functions to



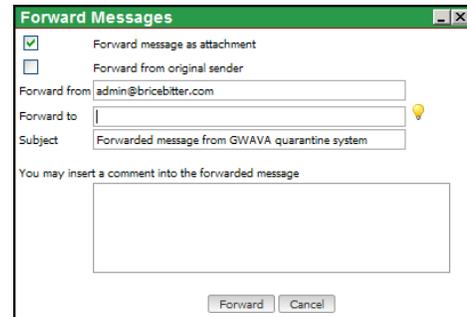
quickly manage quarantined mail. The magnifying glass exposes and hides the search window, and the other main tools are labeled.



Release – Releasing a message from the quarantine tells GWAVA 5 to return that message back to the mail stream, where it will be delivered to the original recipient, unchanged. Select a desired message(s) by placing a check in the associated checkbox, and then select the release button from the toolbar. Verify that you wish to release the message.

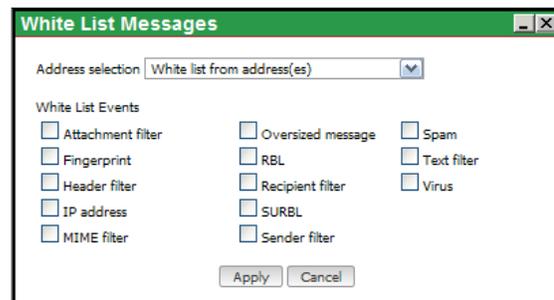


Forward – Forwarding a message from the quarantine does not automatically send the message to the original destination(s), but allows the admin to send mail to any recipient or recipients he desires. You may forward the message in the message body, or send as an attachment, as well as define the 'From:' field of the message.



White List

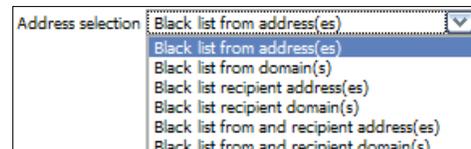
When a message is selected for white listing, the system is actually creating a source exception in the Management database. As with all exceptions, white listing requires an address, and at least one event to bypass. Be sure to select the event which the message was quarantined for, plus all other desired events.



Date	Subject	From	Recipient	Event	Score
<input checked="" type="checkbox"/> 14-Apr-2009 20:26:06	Out of the Office	lots@mail@gwava.com	ernie@buycrap.org	Spam threshold 5 ...	1.0
<input type="checkbox"/> 14-Apr-2009 20:25:57	Out of the office	jason@gwava.com	craig@buycrap.org ...	Spam threshold 5 ...	1.0

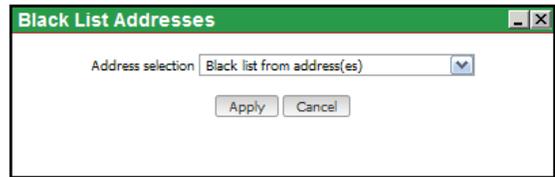
The quarantining event for each message is listed on the message row under the quarantine tab. The event column may hold more than one event per message, if there is more than one event listed, a drop-down menu will be available to display the different events for each message.

Both the white and black list options allow you to select different address options. These options correlate with different exception or black list types or entries. It is up to the Administrator which type of white list exception or black list entry to create.



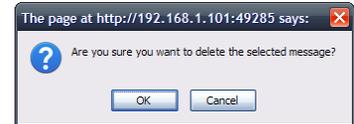
Black List

Black listing a message instructs the GWAVA 5 system to always block messages from the Address selection (Source address, source domain, recipient address, recipient domain, or a combination of both the source and the recipient address or domain.) Blacklisted addresses' or domains' messages are added to the quarantine.



Delete

The Quarantine Management system automatically deletes messages after the specified retention time. (Default is set to retain messages for 30 days – located under the **Globals | Pruning** tab.) Because the Quarantine is set to automatically manage message age and database size, there is no reason to delete messages from the quarantine. Messages deleted by users will only be completely removed from the system if all destination users have deleted their copy. However, messages deleted by the Administrator will be completely removed from the system.

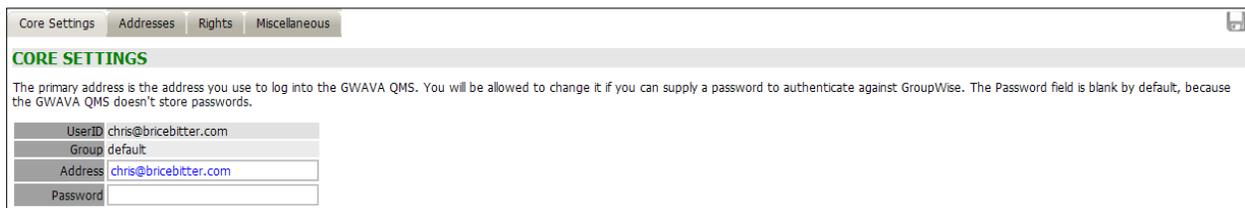


Options

Users and Administrators have access to the Options tab. User's only have access to options regarding their own address and quarantine settings. Administrators have access to everything by default, and as such, the only tab in this menu which is useful for Administrators is the **Miscellaneous** tab, which holds account preferences.

Core settings

The Core settings tab under Options, displays the basic information which categorizes the currently active user. The UserID, Group, and managed address(s), and password. (The password will either be stored in the GWAVA Management console (GWAVAMAN) or authenticated through the GroupWise system.)



Addresses

Core Settings | Addresses | Rights | Miscellaneous

YOUR ADDRESSES

These are all of the e-mail addresses that the GWAVA QMS considers to be a part of your identity, when viewing messages, applying blacklists, whitelists, deletes, etc. In addition to your primary e-mail address, you can have additional addresses, such as nicknames, aliases, distribution lists, or alternate addresses. You may:

- Remove all addresses except addresses that are inherited from a group.
- Add additional addresses, if you can authenticate to GroupWise with the address. (If you cannot, your QMS Admins may add them for you)

chris@buycrap.org will be validated and added after you click the SAVE CHANGES button

Remove Selected Address

New Address:
Password:

Add New Address

User's have the option to add a managed address to their account, which will add the managed address' mail to the quarantine results of the user who added the additional address. To add a managed address, a user must provide the desired address, and the GroupWise password for that address. If a user cannot authenticate to the GroupWise system for an additional address, the address will not be added as a managed address. The Administrator may add any address to any other address in the system without needing to authenticate. Administrator added managed addresses are configured under the Users tab.

Rights

The Rights tab lists the rights to actions which each user has. Administrators have all rights. Users may be granted specified rights to manage mail by the administrator, or by virtue of group in which they reside.

Core Settings | Addresses | Rights | Miscellaneous

RIGHTS/GROUP

Your rights define what you can do in the QMS. In addition to explicitly assigned rights, you inherit rights from your Group Membership. Only the QMS Admins can change these values.

Rights	Release	Delete

Event Scope

The Event Scope is an administrator level tab; users do not have this tab in their interface. Each user has rights to release mail by default. The Event Scope lists the release rights for the logged-in user. If a user has rights to release a filter type of mail, then any messages quarantined for that event will be available to be released to the receiving user.

Core Settings | Addresses | Rights | Event Scope | Miscellaneous

EVENT SCOPE

As an Admin, you may whitelist, release, and/or display any message for any event.

Admin may release any mail type in the system.

Miscellaneous

Account settings for the logged-in user are kept under the miscellaneous tab. The settings under this section are all available to be modified, as they only apply to the user's account. Forwarded messages may have a comment added to them as a default action, as well general configuration for the quarantine display.

COMMENT

The default comment appended to forwarded messages can be set here.

Comment

DATE / TIME FORMATS

Defines how dates and times are displayed

Date Day-ShortMonth-Year

Time 24 Hour

DISPLAY OPTIONS

Messages displayed per page 25

Default time frame Last 3 days

Show icons only on toolbar

Hide search panel at startup

Wrap subjects

Allow horizontal scroll

SESSION TIMEOUT

Time in minutes, to expire an inactive login session

Time (minutes) 480

Digest

GWAVA 5 can be setup to send regular reports to users when mail is blocked from a users address. Messages listed on the GWAVA 5 digest can be released directly from QMS via a web link for each message. A working digest setup requires three things: an enabled user list, schedule, and an event list.

Settings

The digest service must be enabled before digests are sent. Message removal settings when a message is released from the digest, are set here. If the message is not removed after release, it is possible to re-release messages, resulting in multiple copies of the same message sent from QMS to the recipient.

By default, the digest service sends digests to all users. If you wish to specify digested addresses, or to exclude addresses from the digest, you may specify them in the custom address list, then select the appropriate digest recipients option from the drop-down menu.

Settings Schedule Events Manual Release

Enable digest services

Remove message from users quarantine when released

Remove message from QMS when all recipients have released their copy

Digest Template

Maximum digest rows

Release button address

Digest recipients

Custom address list

Remove selected

Add new

Schedule

The digest service will be processed and sent to users on the schedule set here. A check mark in the provided boxes notes an active hour time. Only the provided times are available. Clicking on the time or the day, (8:00am, Mon), constitutes a global selection for that time or day.

A recommended setting for different offices and users is impossible, though a reasonable setting for the system would be to send a digest in the morning, after lunch, and finally an hour before users leave, to allow time to catch any missed good mail on the day they are processed. The digest process is not cumulative, and only messages added to the quarantine which have not been previously listed on digest will be on the next digest. So, in the previous schedule, only messages received after the previous day's last digest up to the morning digest will be listed on the morning digest, and only messages from after the morning digest to the after lunch digest will be listed, etc...

Settings	Schedule	Events	Manual Release				
	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Midnight	<input type="checkbox"/>						
1:00am	<input type="checkbox"/>						
2:00am	<input type="checkbox"/>						
3:00am	<input type="checkbox"/>						
4:00am	<input type="checkbox"/>						
5:00am	<input type="checkbox"/>						
6:00am	<input type="checkbox"/>						
7:00am	<input type="checkbox"/>						
8:00am	<input type="checkbox"/>						
9:00am	<input type="checkbox"/>						
10:00am	<input type="checkbox"/>						
11:00am	<input type="checkbox"/>						
Midday	<input type="checkbox"/>						
1:00pm	<input type="checkbox"/>						
2:00pm	<input type="checkbox"/>						
3:00pm	<input type="checkbox"/>						
4:00pm	<input type="checkbox"/>						
5:00pm	<input type="checkbox"/>						
6:00pm	<input type="checkbox"/>						
7:00pm	<input type="checkbox"/>						
8:00pm	<input type="checkbox"/>						
9:00pm	<input type="checkbox"/>						
10:00pm	<input type="checkbox"/>						
11:00pm	<input type="checkbox"/>						

Settings	Schedule	Events	Manual Release
		Digested events	NEVER digested events
Attachment filter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fingerprint	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Header filter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IP address	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IP reputation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MIME filter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Oversized message	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RBL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Recipient filter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SURBL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sender filter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sender policy framework	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spam threshold 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spam threshold 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spam threshold 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spam threshold 4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spam threshold 5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Text filter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Undersized message	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Virus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

* Important note: 'NEVER digested events' are used in situations where a message contains more than one event, for instance a spam message that ALSO contains a virus. In this situation, chances are that a digest should not be generated for the message because of the virus, even though it is also a spam message.

Events

Like the schedule, the digest must be told which events to list on the digest. Messages caught for an event with a check under the 'Digested events' column will be listed on the digest. **Messages listed on the digest can be released from the digest, even if the user does not have QMS rights to release that event.** If an event is listed on the digest, it is assumed that the administrator wishes to allow the users to release the messages listed.

If a check is placed in the 'Never digested events' column, messages caught for that event will never be listed on the digest, even if it is also caught for a digested event. Selecting 'Virus' is an example of use for this section, (if viruses are quarantined), as a message

with a detected virus will never be listed on the digest and cannot be released from the quarantine unless the user has QMS rights to release that event.

Manual Release

The digest may also be sent at any given time. The Digest works on a time stamp, which catalogs and lists mail in the quarantine if they are newer than the time stamp and fit the event list. Manual Release allows the admin to release a digest at any given time, by selecting the 'Send Digest' button. Sending a default manual release sets the digest time stamp.

The digest time stamp may also be manually set to affect the mail listed on the next released digest. This may be used to add additional mail to the manual digest. Select the time stamp desired and click 'Set'.

The screenshot shows a web interface with a navigation bar at the top containing 'Settings', 'Schedule', 'Events', and 'Manual Release'. The main content area is titled 'Digest release period' and contains the following elements:

- A sub-header 'Digest release period'.
- Text: 'The current digest time period is 7 days (default).'
- Text: 'Changing the digest start date to an earlier time than the current period will cause the global digest to resend previously digested items to your users. Please be sure you understand the impact of this action before updating this setting. Global digests are released from the start time up to the time of the release, and the next digest start period will be reset to the current time.'
- Form: 'Change digest period start' with dropdowns for day (20), month (Apr), year (2009), hour (10), and minute (01), followed by a 'Set' button.
- A sub-header 'Custom digest release'.
- Text: 'Release the digest for a defined time period to the selected range of users.'
- Form: 'Start date' with dropdowns for day (20), month (Apr), year (2009), hour (10), and minute (01).
- Form: 'End date' with dropdowns for day (21), month (Apr), year (2009), hour (10), and minute (01).
- Text: 'Select users'.
- Form: A list box containing 'admin' with a radio button selected next to it.
- Form: A text input field for 'Release this address'.
- Form: Radio buttons for 'Release to all users (with global digest rules)' and 'Update global digest start period on release to all' (which is checked).
- Form: A 'Send Digest' button.

A custom digest may be sent to specific users, or all users, with a specific time frame. This bypasses the usual user list, and does not set the time stamp, unless all users are selected as the release group.

Users

The Users tab allows the configuration of different user accounts, their rights, managed addresses, and miscellaneous settings. Selected users have their settings loaded for each different tab, and are available for management. (Only users who have logged in or have been added by the administrator will be listed. If a desired user is not listed, you may add them by specifying the exact address of the user in the 'UserID' and 'Primary E-Mail Address' sections, then selecting 'Add User' and saving changes. The default setting for authentication is via SMTP. Group membership may be set as desired.)

Core settings

The Core settings tab contains the basic settings for each user. The user ID, authentication, email address and group membership are all displayed. The authentication method is important to allow users to log into QMS. By default, the authentication for all users which are not administrators is to use SMTP authentication with the full GroupWise address as the user name. If the GWIA is not available for SMTP user authentication, then the only authentication method which will work will be built-in GWAVA credentials.

The screenshot shows the 'Core Settings' tab for the user 'admin'. The interface includes a navigation bar with tabs: Core Settings, User Rights, Event Scope, Addresses, and Miscellaneous. A message states 'User admin loaded.' Below this is a list of users with 'admin' selected. To the right are buttons for 'Add User', 'Edit User', and 'Remove User'. A text box explains that the selected user has Admin rights, listing capabilities such as seeing all messages, no Managed Address list, selective whitelisting, and deleting for all users. Below this is a section titled 'CORE SETTINGS' with a table of user configuration:

UserID	admin
Authentication Method	Built-in GWAVA credentials
Primary E-Mail Address (used for SMTP authentication)	admin
Group Membership	default

User Rights

User Rights allows the administrator to modify and set rights for specific users in the system. User Rights provides access to the basic actions of a user in QMS; delete, forward, and releasing messages. Full admin rights can be granted to any user specified.

The screenshot shows the 'User Rights' tab for the user 'admin'. The interface includes the same navigation bar as the previous screenshot. A message states 'User admin loaded.' Below this is a list of users with 'admin' selected. To the right are buttons for 'Add User', 'Edit User', and 'Remove User'. A text box explains that the selected user has Admin rights, listing capabilities. Below this is a section titled 'USER RIGHTS' with the text 'Rights explicitly granted to the user.' and a list of checkboxes:

- Full Administrative Rights
- Delete Messages
- Forward Messages
- Release Messages

Below the checkboxes, it states 'The following rights are additionally inherited from the user's group membership:' and lists 'Delete Messages' and 'Release Messages'.

The selected user's rights are shown. If a user's right to delete or release messages is granted by the user's group membership, the user must be moved to a new group without those rights, or the original group rights must be modified to remove the undesired actions.

Event scope

Each user can have specific rights to release messages which have been flagged for specific reasons. If, for example, a specific user may require the right to release messages flagged by the oversized message filter, while that may not be allowed for the rest of the users in the system. If a message has been flagged for multiple events, the user must have rights to release all events flagged on the message or the message will not be released.

Core Settings | User Rights | **Event Scope** | Addresses | Miscellaneous

User admin loaded.

admin

Add User
Edit User
Remove User

The selected user has Admin rights. This means:

- The user can see all messages in the database. An 'ordinary' user can only see messages that have a Container and that are linked to their Primary Address or their secondary addresses.
- The Managed Address list has no function.
- The user may blacklist and whitelist messages.
- Whitelisting a message can be done selectively for any and ALL events.
- Deleting a message removes it for ALL users.
- Any Group rights are unnecessary, and any rights other than Admin rights are superfluous.

If you want to restrict these capabilities, you may wish to create a separate 'ordinary' user account for your usage and switch between the two as needed.

EVENT SCOPE

This defines what events a release for an ordinary user applies to.

<input type="checkbox"/> Attachment filter	<input type="checkbox"/> Fingerprint	<input type="checkbox"/> Header filter
<input type="checkbox"/> IP address	<input type="checkbox"/> IP reputation	<input type="checkbox"/> MIME filter
<input type="checkbox"/> Oversized message	<input type="checkbox"/> RBL	<input type="checkbox"/> Recipient filter
<input type="checkbox"/> SURBL	<input type="checkbox"/> Sender filter	<input type="checkbox"/> Sender policy framework
<input type="checkbox"/> Spam threshold 1	<input type="checkbox"/> Spam threshold 2	<input type="checkbox"/> Spam threshold 3
<input type="checkbox"/> Spam threshold 4	<input type="checkbox"/> Spam threshold 5	<input type="checkbox"/> Text filter
<input type="checkbox"/> Undersized message	<input type="checkbox"/> Virus	

The following event scopes are additionally inherited from the user's group membership:

RBL
SURBL
Spam threshold 4
Spam threshold 5

Rights granted by group membership are listed at the bottom of the page. See the Groups tab to modify a user's membership to a group, or group rights.

Addresses

Any email address may be associated with any other user account in the system. This allows any user to modify and manage any quarantined mail for any address entered into the system, as that user would manage their mail.

Core Settings | User Rights | Event Scope | **Addresses** | Miscellaneous

User admin loaded.

admin

Add User
Edit User
Remove User

The selected user has Admin rights. This means:

- The user can see all messages in the database. An 'ordinary' user can only see messages that have a Container and that are linked to their Primary Address or their secondary addresses.
- The Managed Address list has no function.
- The user may blacklist and whitelist messages.
- Whitelisting a message can be done selectively for any and ALL events.
- Deleting a message removes it for ALL users.
- Any Group rights are unnecessary, and any rights other than Admin rights are superfluous.

If you want to restrict these capabilities, you may wish to create a separate 'ordinary' user account for your usage and switch between the two as needed.

MANAGED ADDRESSES

These are additional addresses beyond the primary e-mail address that constitute the user's 'identity'. A non-admin user will only view messages addressed to these e-mail addresses, and can only whitelist, blacklist, release, etc for these addresses. Users can self-add these, but only addresses which can authenticate against the GWIA. As an admin, you can add anything.

Remove Selected Address

Address Add

This is especially useful for GroupWise systems which accept several different variants of a user name or different domains for the same user, allowing that user to manage all mail for their account in one location. As administrator, to add a managed address to a user, simply select the desired user from the user window, then specify the managed address(s) for that user in the managed address window, click 'add', then save changes. To remove a user's managed address, select the desired managed address from the address window, and click 'Remove Selected Address' then save changes.

Miscellaneous

Miscellaneous contains the miscellaneous options for the selected user. These options are the same as those listed under the **Options | Miscellaneous** tab, and are self-explanatory. Any changes made should be saved before browsing to a different window or tab.

Core Settings User Rights Event Scope Addresses Miscellaneous

User admin loaded.

admin

Add User Edit User Remove User

The selected user has Admin rights. This means:

- The user can see all messages in the database. An 'ordinary' user can only see messages that have a Container and that are linked to their Primary Address or their secondary addresses.
- The Managed Address list has no function.
- The user may blacklist and whitelist messages.
- Whitelisting a message can be done selectively for any and ALL events.
- Deleting a message removes it for ALL users.
- Any Group rights are unnecessary, and any rights other than Admin rights are superfluous.

If you want to restrict these capabilities, you may wish to create a separate 'ordinary' user account for your usage and switch between the two as needed.

COMMENT

The default comment appended to forwarded messages can be set here.

Comment

DATE / TIME FORMATS

Defines how dates and times are displayed

Date Day-ShortMonth-Year

Time 24 Hour

DISPLAY NUMBER

How many items to display per page

Number of Items 25

MESSAGE AGE DISPLAY

How many days of messages should be displayed by default?

Display Last 3 days

SESSION TIMEOUT

Time in minutes, to expire an inactive login session

Time (minutes) 10

Group Rights

The 'Group Rights' tab is essentially identical to the 'User's Rights' section except that it applies to a group of users instead of a single user. By default, there is only one group in the system, to which every new user is added by default. The default group is named, 'default'. Only users which have logged-in to the QMS system will be displayed in the 'Group Members' window.

To create a new group, specify a new group name in the 'Group' window under 'Core Settings' and select the 'Add Group' button, then save the changes.



User's may be added to any selected group, and must be selected from the drop-down window next to the 'add' button. **Only users which do not currently belong to a group will be listed.** If a user is to be moved from one group to another, they must first be removed from a group before they can be added to a second. A user may only belong to one group at a time.

The Group Rights, Event Scope, Addresses, and Miscellaneous tabs are identical to the 'User Rights' tabs of the same name, except that they modify the entire group, instead of a single user.

It is of note that these sections may be more useful than the individual 'User's Rights' tabs for large systems. Organizing a system into different user groups allows the admin to quickly modify and specify settings for multiple users and simplify the management process.

If a group address exists in the system, (i.e. sales@domain.com), the admin create a group for sales, and add the sales@domain.com address to the managed address section of the group. Having the group manage the address causes mail to that address to show up in the quarantine and digest for each user in that group.

Globals

The 'Globals' tab holds settings which affect the entire QMS system. Only administrators have access to the Global settings.

Login

The 'Login' tab allows customization for the QMS interface. If an administrator wishes to modify the HTML of the default pages, (found under ...gwava/services/qms/http), they may use the original as a template, then specify their modified page as the default page. Modifying the HTTP and Digest release pages is not a supported function, and it is highly recommended to make a copy and archive of the modified page, as updates to the system may copy over any originally named pages present.

HTTP default page [default]
Set the default page that is loaded when a user browses to the QMS web server. Changes to this setting require the QMS server process to be restarted.

Digest release page [default]
Set the shtml page to be linked from the digest release button

User Account Expiration 30
All accounts in the system that have been inactive for longer than this value (in days) will be deleted. This cleanup occurs every time a user logs into the QMS system. A value of 0 disables expiration.

Disable New Accounts
Selecting this option prevents any users from creating new accounts. Currently existing accounts will continue to function, and GWAVAMAN admins will not be affected by this setting

Prohibited Logins

Remove Selected Address

Address Add

User accounts may also have an account expiration enforced, which will delete accounts which have been inactive for the specified time period.

The administrator also has the ability to restrict the users which have rights to log into QMS. If the 'Disable New Accounts' option is checked, QMS will not allow any users to log in if they are not in the established users list. If an undesired user is in the established list, enabling this option then removing that user from the user list will block that user from logging into QMS.

Deletion

A message consists of two items: the message information record and the message source files.

Users without Administrative Rights
When a user without administrative rights deletes a message, they no longer see the message. In addition the following actions may be selected for 'unused' messages - messages that have been deleted by all of the recipients in the QMS system.

Remove Unused Message Information Record

Remove Unused Message Source Files

Users with Administrative Rights
When a user with administrative rights deletes a message, the message can no longer be accessed by non-administrative users. In addition, the following actions may be selected.

Remove Message Information Record

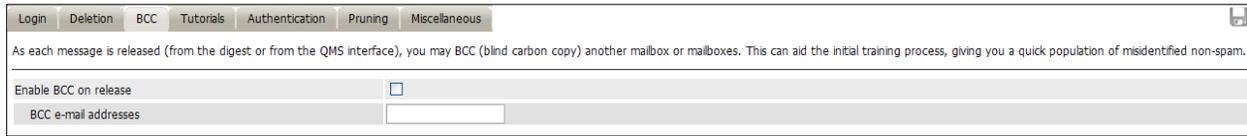
Remove Message Source Files

Globally, the ability to delete a message, and what happens to messages that are deleted, can be set here. By default, all options are selected. If an administrator wishes to keep all mail records visible to the administrator account, even after they are 'deleted' from user accounts, then they should uncheck both Remove the informational record, and the source files, so that the message is not removed from the main database. These settings can be for both administrators and non administrator accounts.

BCC

QMS can send a blind carbon copy to any specified address when a message is released. This is an integral part of training the probability spam engine. If the signature spam engine, recommended, is used instead of the probability engine, this option is unnecessary. When using the probability engine, harvesting good mail and fine tuning the system to accept and allow messages that it is erroneously blocking is a challenging chore. The BCC on release option allows caught messages which are released from QMS to be blind carbon copied to a feeder address, which can then be sorted and added to the appropriate learning feeder. **Not all messages released from QMS will be good mail.**

To enable BCC, place a checkmark in the enable BCC box, then specify the desired destination address and save changes.



The screenshot shows a web interface with a navigation bar containing 'Login', 'Deletion', 'BCC', 'Tutorials', 'Authentication', 'Pruning', and 'Miscellaneous'. Below the navigation bar, there is a text box with the following text: 'As each message is released (from the digest or from the QMS interface), you may BCC (blind carbon copy) another mailbox or mailboxes. This can aid the initial training process, giving you a quick population of misidentified non-spam.' Below this text box, there are two input fields: 'Enable BCC on release' with a checkbox that is currently unchecked, and 'BCC e-mail addresses' with an empty text input field.

Tutorials

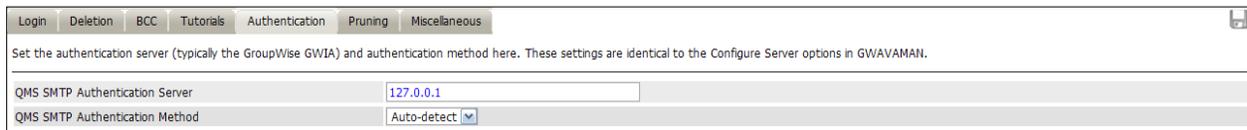
The link to the tutorials on how to use the system may be removed from the quarantine system. Checking the provided box and saving changes will remove this from QMS pages.



The screenshot shows a web interface with a navigation bar containing 'Login', 'Deletion', 'BCC', 'Tutorials', 'Authentication', 'Pruning', and 'Miscellaneous'. Below the navigation bar, there is a text box with the following text: 'By default, users have an option to view video tutorials available on the upper right of their browser window, next to Logout. You may suppress this option, if desired'. Below this text box, there is one input field: 'Hide the Tutorial link' with a checkbox that is currently unchecked.

Authentication

The SMTP authentication address is specified here. The connection address to the GWIA or SMTP must be correct and open on port 25 for authentication to work correctly. If the SMTP requires a specific authentication method, select it below, otherwise leave the setting as the default 'Auto-detect'.



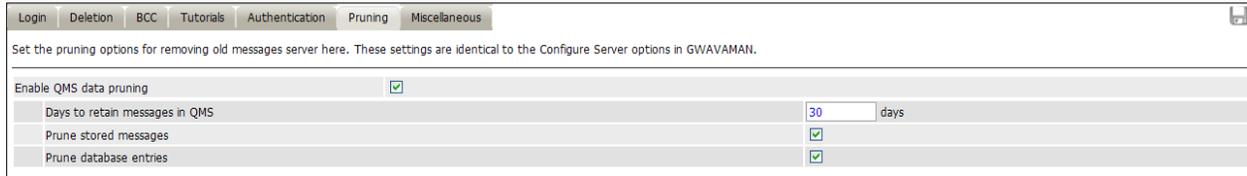
The screenshot shows a web interface with a navigation bar containing 'Login', 'Deletion', 'BCC', 'Tutorials', 'Authentication', 'Pruning', and 'Miscellaneous'. Below the navigation bar, there is a text box with the following text: 'Set the authentication server (typically the GroupWise GWIA) and authentication method here. These settings are identical to the Configure Server options in GWAVAMAN.' Below this text box, there are two input fields: 'QMS SMTP Authentication Server' with a text input field containing '127.0.0.1', and 'QMS SMTP Authentication Method' with a dropdown menu currently set to 'Auto-detect'.

An alternate port for the SMTP may be specified, using a colon then the port number after the IP address, i.e. for port 24, specify the address as follows:

10.1.1.100:24

Pruning

QMS is a light database system meant to service a revolving level of temporarily quarantined mail. The amount of mail kept in quarantine is usually specified by a time frame, in days, instead of size. Since it is assumed that mail sent to quarantine is unwanted, a generous default time frame of 30 days is set to allow users to access and release any wanted mail. All the rest of the unwanted mail will be permanently deleted from the system after it eclipses the age limit.



Enable QMS data pruning	<input checked="" type="checkbox"/>
Days to retain messages in QMS	30 days
Prune stored messages	<input checked="" type="checkbox"/>
Prune database entries	<input checked="" type="checkbox"/>

If messages and database entries are desired not to be removed from the system, uncheck the appropriate options and save the changes. Be warned, since QMS was not designed to be a long-term E-Mail archive, such use of the mail system is unsupported and the database may become slow and unstable when the database size exceeds design considerations. Normal pruning of the database system will prevent instability.

Miscellaneous

To keep the quarantine system from suffering under extensive searches, and to return results quickly, a maximum query number may be specified. No search function will continue after the specified record amount has been reached. The default is 1000. Search results above this number are unmanageable and waste system resources.

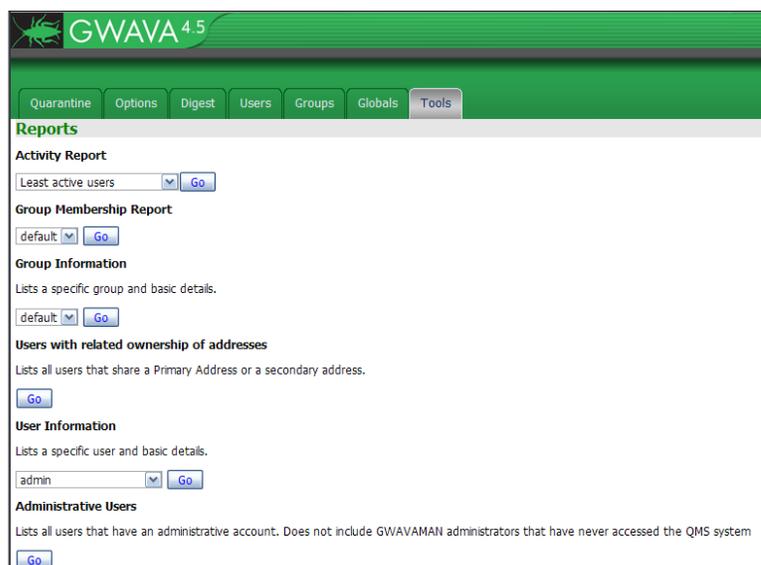


Maximum allowable search result items (will take effect after logging back in)	1000 records
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Tools

QMS contains tools to help the administrator manage and generate reports on the quarantine system. All tools are located here under the tools tab.

General information about the system can be gathered into a simple report by selecting the desired report type and then clicking 'Go'.



Reports

Activity Report
Least active users [Go]

Group Membership Report
default [Go]

Group Information
Lists a specific group and basic details.
default [Go]

Users with related ownership of addresses
Lists all users that share a Primary Address or a secondary address.
[Go]

User Information
Lists a specific user and basic details.
admin [Go]

Administrative Users
Lists all users that have an administrative account. Does not include GWAVAMAN administrators that have never accessed the QMS system.
[Go]

Tutorials

The Quarantine tutorial link is located near the top of the page, and is customized and shown for both general users and administrators. The tutorials, however, are not the same. General users see a tutorial tailored for default user accounts and rights, while the administrator has access to a tutorial detailing the functions of the administrator level accounts.

Welcome to the GWAVA 4 Quarantine Messaging System!

You may watch the tutorial now or use the Tutorial link at the upper right of your browser window to view at any time. Alternatively, click the Quarantine tab to begin reviewing the messages.

Available Tutorials

Introductory tutorial	<ul style="list-style-type: none">• The messagelist• Searching for messages• Customizing your options
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Helpful Hints

If you maintain more than one mailbox, or have more than one incoming e-mail address, consider consolidating your e-mail addresses.

Consolidation means:

- Logging in with a single e-mail address will display all your e-mail from all of your accounts, allowing you to manage all of your quarantined mail without having to logout and log in again. You can still use searches to separate out your e-mail, and save your searches (see below).
- You won't receive multiple digests - a single digest will comprehensively list e-mail from multiple accounts.

It's easy to consolidate. Just click the [Options](#) tab above, then select "Addresses". You may add any addresses to your account that you can successfully authenticate against GroupWise for, including nicknames and aliases. (For some items, such as Distribution Lists or Resources, you may need assistance from your Administrator(s)).

See the three icons    just above the search area? You can use these to load, save, and delete specific search queries. If you find you are often searching for the same thing, this can be a big time saver!

Tutorials may be accessed at any time by selecting the tutorial link at the top right of the page.

Appendix

Four State Checkboxes



The locks you see next to the options are always visible on the Antivirus scanning settings, but are invisible, and unavailable to configure for the rest of the system, unless you enable the option “**Enable Four State Checkboxes**”. The four state checkbox allows setting the ‘gold locks’ on any checkbox in the rest of the system. A closed lock indicates an overriding option. (This overrides any exceptions or settings in the rest of the system.) Four state locks are a powerful option and they are not standard in any area except in the Antivirus section. Both images show here are set to the same setting: always block, never quarantine. For the events that these



settings are active for, the messages will always be blocked and never quarantined, regardless of exceptions or other actions that are active on that message.

GWIA and SMTP scanners on the same box:

<http://support2.gwava.com/kb/?View=entry&EntryID=1215>

SMTP scanner ports

If the GWAVA SMTP scanner is set behind a firewall, or multiple firewalls, the following ports should be open for mail flow and GWAVA functions or services:

- 80 – TCP Outbound (Updates services for Antivirus, Signature Engine, and GWAVA system.)
- 21 – FTP Outbound (OS updates)
- 53 – UDP (DNS lookups)
- 25 – TCP Inbound (Used for Mail)
- 25 – TCP Outbound (Only if scanning outbound mail)
- 123 – TCP Outbound (Network Time Protocol (NTP))

The following should be open to access the GWAVA appliance from outside the network:

- 49285 – TCP Inbound (QMS message release service)
- 49282 – TCP Inbound (GWAVA Management Console)
- 22 – TCP (SSH access. This can be a security concern, but may be necessary to enable for support access.)

GroupWise paths

Some GWAVA scanners require the location to the active GroupWise configuration files on setup. Instructions, following below, describe how to use the autoexec.ncf to locate the configuration files.

Linux

The Linux configuration files are found, by default, in `/opt/novell/groupwise/agents/share`. If the mail system files are not setup according to default, search the system for the correct file name(s) requested in the scanner setup wizard. (ie. For Linux, search for 'gwia.cfg'. Search in the likely GroupWise file structure to shorten the search time.)