

Release Notes for PMDF V6.2-1 for Windows (Version V6.2-1win)

September 2005

This document contains a list of new features and bug fixes that have been made to PMDF (only on the Windows platform) since PMDF V6.2. Release notes items from V6.2 are included, for Windows only.

Revision/Update Information: This document supersedes the *PMDF V6.2 Release Notes*

Software Version: V6.2-1win of PMDF, PMDF-MTA, PMDF-DIRSYNC, PMDF-FAX, PMDF-LAN, PMDF-MR, PMDF-MSGSTORE, PMDF-POPSTORE, PMDF-TLS, PMDF-X400

Operating System and Version: Windows 2000 and Windows 2003 (on x86)

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1 Installation of PMDF V6.2-1win

This document contains installation gotchas and release notes for upgrading to PMDF V6.2-1win from V6.2 for Windows platforms. If you are upgrading from an earlier version of PMDF, please read the installation gotchas and release notes for all of the versions between your version and V6.2-1win. These release notes are available on the Process Software web site.

SPECIAL NOTE: PMDF V6.2-1 for platforms other than Windows (Solaris, Tru64, OpenVMS) was previously released. See separate release notes document for items related to those platforms.

1.1 Getting Help

Contact your PMDF distributor or Process Software if you need assistance or have questions concerning the installation or configuration of PMDF. Process Software provides technical support if you have a current Maintenance Service Agreement [support@process.com; 800-394-8700 or 508-628-5074]. If you obtained PMDF from an authorized distributor or partner, you receive your technical support directly from them. Timely notices, pointers to new PMDF images, and other PMDF news of interest may also be found at the Process Software web site, www.process.com.

1.2 License Date

The release date for the PMDF V6.2-1win kit is:

26-SEP-2005

Check your PMDF licenses to make sure they are valid for this release. The release date contained in each license must be later than the release date of the kit. See the *PMDF Installation Guide* for your platform for more information about how PMDF licenses work.

1.3 Release Notes Location

The text, postscript, and PDF version of these release notes is installed on Windows in the PMDF documentation directory (usually C:\pmdf\doc).

1.4 Obtaining new files

New files may be obtained from the anonymous FTP account on <ftp.pmdf.process.com>; use FTP to connect to the host <ftp.pmdf.process.com> and login as the user `anonymous`. Use your e-mail address as the login password.

Move to the `pmdf_621_patches` subdirectory:

Installation of PMDF V6.2-1win

Obtaining new files

```
ftp> cd pmdf_621_patches
```

Patches will be located in platform-specific sub-trees, as follows:

Platform	Subdirectory
Windows	windows

2 Installation Gotchas

Make sure you read the *PMDF Installation Guide* for Windows platforms before starting the installation. Make sure you complete the *Post-Installation Tasks for Upgrades* or *Post-Installation Tasks for New Sites* in the installation guide after the installation.

2.1 Installation Gotchas for PMDF V6.2-1win

The following sections document the installation gotchas that are specific to PMDF V6.2-1win.

2.1.1 PATH definition

Customer sites may have to make manual adjustments to the PATH variable on Windows platforms.

Depending on what method is being used on the customer system to define the PATH variable, the PMDF installation may have trouble adding the PMDF bin directory to the path. If the PMDF installation cannot add the PMDF directory to the path, then customers must add it manually. The directory to be added to the PATH is C:\pmdf\bin (assuming that the PMDF directory is on the C device).

Also, the Configure PMDF utility in the PMDF folder may not be able to find some of the DLLs that it is linked with if the directory containing the DLLs is not included in the path. For example on some Windows 2003 systems, the directory C:\WINNT\System32 is not included in the PATH and so the Configure PMDF utility cannot find some of the DLLs that it requires. If you attempt to run Configure PMDF and it gives an error about not being able to find a DLL, try adding C:\WINNT\System32 to the PATH. If that doesn't work, search your system for the DLL that Configure PMDF is complaining about and add the directory that it is in to the PATH.

2.1.2 SleepyCat Environment Files

The format of the SleepyCat environment files on Windows platforms changed in PMDF V6.2 from earlier versions, and changed between V6.2 and V6.2-1win. The old files must be removed. Execute the following commands:

For Windows:

```
del c:\pmdf\table\__db.*
del c:\pmdf\tmp\__db.*
```

Installation Gotchas

Installation Gotchas for PMDF V6.2-1win

2.1.3 Additional Job Controller Queues

With the new job controller, the `queue channel` keyword in the `pmdf.cnf` file is not recognized. This will be addressed in a future release.

For the V6.2-1win job controller, to be able to use additional queues beyond the `DEFAULT` queue, you must specify what queue to use for a given channel using the `QUEUE` option in the `job_controller.cnf` or `job_controlller.cnf_site`.

For example, let's say you want the conversion channel to use its own queue, and you have a queue defined in `job_controller.cnf_site` like this:

```
[QUEUE=CONVERSION_QUEUE]
job_limit=10
```

You need to define the conversion channel in `job_controller.cnf_site` like the following to have the conversion channel use this queue. You should also comment out the conversion channel definition in `job_controller.cnf` to make sure that your definition is used.

```
[CHANNEL=conversion]
master_command=pmdf_exe:conversion.exe
queue=CONVERSION_QUEUE
```

2.1.4 Known Issues

1. PMDF cannot be installed into a directory path that contains a directory whose name includes a space. For example, PMDF cannot be installed in a directory such as:

```
C:\Program Files\PMDF
```

2. The post job and the return job will crash with an Application Error "The memory could not be 'read'." if the job controller and the dispatcher aren't running when these jobs run. Without the job controller running, the post and return jobs cannot do their main function of retrying and returning mail messages anyway.
3. On some systems, when the HTTP server is run in standalone mode, it will crash with an Application Error "The memory could not be 'read'." after it finishes generating a new configuration. The configuration is successfully generated, however. The crash occurs afterwards.
4. Sometimes the counters don't work (they remain at 0 even though messages are passing through). This is to be expected in some cases since the counters function is designed to not keep trying if it fails, so that other more urgent functions aren't impacted.

2.2 Installation Gotchas for PMDF V6.2

The following sections document the installation gotchas that are specific to PMDF V6.2 and aren't needed for V6.2-1win.

2.2.1 HTTP configuration file

The HTTP configuration file must be updated upon upgrading to PMDF V6.2 or V6.2-1win from previous versions of PMDF. If you are upgrading from PMDF V6.2 to V6.2-1win, this step is not necessary.

The HTTP configuration file is usually `\pmdf\table\http.cnf` on Windows.

This file can be updated by running the `pmdf configure dispatcher` utility, or by editing the `http.cnf` file manually.

The manual steps are as follows. Add the following three lines:

```
[PATH=/images/]  
GET=PMDF_HTTP_GET  
HIDDEN=1
```

Find the following lines and replace them as follows:

- replace `[PATH=/popstore_user/]` with `[PATH=/msps_user/]`
- replace `[PATH=/popstore_pwd/]` with `[PATH=/chnng_pwd/]`

2.2.2 pmdf.filter File

The following items apply to the global filter file.

2.2.2.1 Semi-colon Comment Delimiter No Longer Allowed

In PMDF V6.2-1win, the semi-colon (;) at the start of a line is no longer recognized as a comment delimiter. PMDF recognizes the two types of comment delimiters stated in the SIEVE RFC (RFC 3028):

- Lines beginning with the hash sign (#) are comments.
- Comments can be bracketed with `"/*"` and `"*/"`.

2.2.2.2 Require Command Now Needed in Global Filter File

PMDF V6.2 fixed a bug in the reading of the global `pmdf.filter` file (`pmdf.filter` in the `table` directory) related to the `require` command. If you are upgrading from a version of PMDF prior to V6.2, and you have a `pmdf.filter` file that contains any of the following commands, you must add a `require` statement to the top of your filter file, which lists the commands that the filter file uses.

```
envelope  
fileinto  
reject  
vacation
```

2.2.3 pmdf renamedb Utility

The `pmdf renamedb` utility for Windows platforms was removed from the distribution as of PMDF V6.2. This utility should never be used with SleepyCat.

Installation Gotchas

Installation Gotchas for PMDF V6.2

2.2.4 Installing TLS

The TLS files are included in the main PMDF kit as of PMDF V6.2. You do not have to install TLS as a separate step.

3 New Features

3.1 New Features in PMDF V6.2-1win

The following sections document the new features that were added in PMDF V6.2-1win.

3.1.1 New Job Controller

The job controller on Windows has been replaced by a new one which uses an in-memory queue cache database instead of using the on-disk SleepyCat queue cache database.

See the *PMDF System Manager's Guide* chapter 10 for full updated documentation on the new job controller.

3.1.2 Script Channel

The `script` channel allows processing of messages in their entirety using external, third-party programs and site-supplied procedures. The execution of such procedures is controlled by the `SCRIPT` mapping table.

The `script` channel is similar to the `conversion` channel in that arbitrary processing can be done on messages flowing through PMDF. The difference is that the `script` channel passes the entire message to the command procedure or script, instead of body part by body part. As with the `conversion` channel, any set of programs or command procedures can be used to perform script channel processing. For instance, third party virus or spam scanning software may be hooked in for automatic execution via the `script` channel. Or sites may develop their own custom applications to hook in.

See the *PMDF System Manager's Guide* new chapter 24 for full documentation on the `script` channel.

3.1.3 Web Interface to Mailbox Filters

Several enhancements have been made to the web-based interface which allows users to set up their mailbox filters and vacation notices.

Specifically:

- The first page of the mailbox filters web interface has been completely redesigned.
- Users can now specify for their vacation notices a list of addresses to not send the vacation notice to, and a list of addresses to only send the vacation notice to. (D/E 8418)

New Features

New Features in PMDF V6.2-1win

- Users can now use the mailbox filters web interface to set a forwarding address. This can be used if a user's mail is delivered to any local PMDF destination: local UNIX mail, VMS MAIL, MessageStore, or popstore. (D/E 8436)

3.1.4 MessageStore/popstore Password Security

This kit contains enhancements to popstore and MessageStore accounts to add password security features. (D/E 8162)

Specifically:

- The time when the password was last changed is now being recorded.
- The last password change time is displayed in the popstore and msgstore command line management utilities, in the output of the `show` command. It is also displayed on the popstore Administration and MessageStore Administration web pages, and on the MessageStore/popstore User Interface web page.
- Support has been added for "pre-expired" accounts (the user has to change the password immediately). Note that pre-expired is only meaningful if password expiration has been enabled. See items below.
- A new option has been added to the command line and web management interfaces to allow the PMDF system manager to mark an account pre-expired. On the command line interface, the option is `-pwdexpired` for Windows. It can be used on the `add`, `copy`, and `modify` commands.
- Once an account is marked as pre-expired, you can undo the pre-expire status using the web interface or the `-nopwdexpired` command line option.

A utility has also been provided to go through all popstore and msgstore accounts and set the last password change time to the current time, so that they are no longer pre-expired. To run the utility:

```
c:\pmdf\bin> unpreexpire
```

Note: As soon as password expiration is enabled using the `PASSWORD_LIFETIME` option, all existing accounts are automatically pre-expired.

- Support for password expiration has been added. By default it is turned off and passwords never expire. To enable password expiration, add the following option to the `pmdf_table:popstore_option` file:

```
PASSWORD_LIFETIME=value
```

The value is in the same format as the `RETURN_AFTER` option (see MessageStore and popstore Manager's Guide, section 3.4). A value of 0 (the default) means no expiration - passwords never expire. Note that this option applies to both popstore and MessageStore accounts.

- Support for minimum password length has been added. By default it is turned off and there is no minimum. To enable a minimum length, add the following option to the `pmdf_table:popstore_option` file:

```
PASSWORD_MINIMUM_LENGTH=value
```

The value is an integer from 0 to 32. A value of 0 (the default) means no minimum. Note that this option applies to both popstore and MessageStore accounts.

New Features

New Features in PMDF V6.2-1win

- Support for password "reasonableness" checks has been added. By default it is turned off and no reasonableness checks are made. To enable reasonableness checks, add the following option to the `pmdf_table:popstore_option` file:

```
PASSWORD_REASONABLENESS=<0 or 1 or 2>
```

A value of 0 (the default) means no reasonableness checks are done.

A value of 1 means that PMDF will check and make sure that the password is not the same as the username.

A value of 2 means that PMDF will check and make sure both that the password is not the same as the username, and it is not a substring of the "Owner" field (usually used to contain the real name of the user).

Note that this option applies to both popstore and MessageStore accounts.

- Support also has been added for a callout so that system administrators can add their own reasonableness checks, for example to maintain and check a history, or to check against a dictionary. The way this is implemented is similar to the other callouts from the `pmdf_table:popstore_option` file, such as `LOG_ACTIVITY` or `COMPUTE_BLOCK_DAYS`.

As with these other callouts, you must write your own routine and compile and link it into a sharable image. See the MessageStore and popstore Manager's Guide, section 13.2.1, for instructions on linking a sharable image.

The routine you have to write is called `validate_password`, and it takes the form:

```
#ifdef __VMS
#include "pmdf_com:popstore.h"
#else
#include "/pmdf/include/popstore.h"
#endif

int validate_password (char *password, int password_len,
                     char *username, int username_len,
                     char *errmsg, int *errmsg_len, int errmsg_max)

    The information about the parameters and return codes is as follows:

/*
 * validate_password - routine to validate a password
 *
 * parameters
 *
 * password          input   pointer to password
 * password_len      input   length of 'password'
 * username           input   pointer to username
 * username_len      input   length of 'username'
 * errmsg            output  pointer to memory to put error message into
 * errmsg_len        output  length of message put into 'errmsg'
 * errmsg_max        input   size of memory pointed to by 'errmsg'
 *
 * returns
 *
 * POPSTORE_SUCCESS  password accepted
 * POPSTORE_PWDNOTOK password rejected
 */
```

To enable the `validate_password` callout, add the following option to the `pmdf_table:popstore_option` file.

```
VALIDATE_PASSWORD=<NT file specification>
```

Note that this option applies to both popstore and MessageStore accounts.

New Features

New Features in PMDF V6.2-1win

- A sample `validate_password` routine has been supplied in this kit. It can be found after installation at:

`\pmdf\doc\examples\popstore_validate_password.c`

- Several popstore API routines have had new parameters added so that an error message may be returned in the case where there was a problem setting the password. The modified API routines are as follows:

```
int POPSTORE_user_pw_change (char *user, int user_len,
                             char *new_password, int new_password_len,
                             char *errmsg, int *errmsg_len, int errmsg_max)

int POPSTORE_user_pw_change_d (char *domain, int domain_len,
                               char *user, int user_len,
                               char *new_password, int new_password_len,
                               char *errmsg, int *errmsg_len, int errmsg_max)

int POPSTORE_user_update (POPSTORE_user_context *user_context,
                          POPSTORE_item_list *item_list,
                          char *errmsg, int *errmsg_len, int errmsg_max)
```

The caller needs to pass in to the `errmsg` parameter the pointer to a character array to hold the error message, and pass in to the `errmsg_len` parameter the pointer to an integer to hold the length of the error message, and pass in to the `errmsg_max` parameter the size of the array that `errmsg` points to.

- The include file `\pmdf\include\popstore.h` has been updated to add definitions related to this enhancement.

3.1.5 Miscellaneous Upgrades

Several products that PMDF uses have been upgraded:

- SleepyCat has been upgraded to version 4.1.
- TLS has been upgraded.

3.1.6 Many Enhancements and Bug Fixes

PMDF V6.2-1win contains many smaller enhancements and bug fixes. See the Release Notes chapter below.

3.2 New Features in PMDF V6.2

The following sections document the new features that were added in PMDF V6.2.

3.2.1 Vacation Notices

Note: Documentation on vacation notices was added to the *PMDF System Manager's Guide*, Section 16.2, the *PMDF User's Guide, OpenVMS Edition*, Chapter 3, and the *PMDF User's Guide, UNIX Edition*, Chapter 3.

Users can create and maintain vacation notices for themselves through the PMDF mailbox filters facility. See the *PMDF System Manager's Guide*, Section 16.2 for information on how to set up mailbox filters. The mailbox filters web interface was updated to allow users to define their vacation notices in addition to their filters. Vacation

notices are supported on all platforms, and for all message stores that PMDF supports (VMS mailboxes, UNIX BSD mailboxes, MessageStore, and popstore).

Vacation notices are implemented through the SIEVE `vacation` command in the mailbox filter file. See DRAFT-SHOWALTER-SIEVE-VACATION-04.TXT in the RFC directory. Note that in most cases, the mailbox filter files are located in directories that are not accessible to non-privileged users. The primary exception being filter files for VMS mailboxes. If the filter file is accessible by the users, they can create their filter file including their vacation notice by editing their filter file.

Warning: If the filter file is edited manually, it **cannot** be maintained by the web interface any longer. The web interface can only read filter files it has written itself. Users can use the web interface to create an initial mailbox filter file, and then edit it manually, but not vice-versa.

PMDF keeps a history of which addresses it has sent the vacation notice to, and does not send another vacation notice to that same address unless:

- the user changes the text or subject of the vacation notice
- the vacation notice feature is enabled after it has been disabled
- the number of days that the user specified has passed

Note that PMDF will not send the vacation notice if it determines that the message was received through a mailing list.

3.2.1.1 Vacation Exceptions Option File

As required by the SIEVE vacation command draft document, PMDF has a list of addresses that vacation notices are not sent to (because they are most likely from automated mailers). It also has a list of headers that indicate a mailing list, since vacation notices must not be sent to mailing lists. These lists of addresses and headers are specified in the vacation exceptions option file, `vacation_exceptions.opt`, located in the PMDF table directory. PMDF supplies a default list during installation. You may edit this file to add new headers and addresses, or remove ones already there. Note that this file is replaced upon installation (except on VMS), so any changes must be saved so they are not lost.

The vacation exceptions file contains a list of headers and optional values. Note that only headers recognized by PMDF are supported in the file; all others are ignored. Any of the header lines described in the *PMDF System Manager's Guide* may be specified, plus any of the header lines standardized in RFC 822, RFC 987, RFC 1049, RFC 1421, RFC 1422, RFC 1423, RFC 1424, RFC 2156, and RFC 2045.

When PMDF is about to send a vacation notice in response to a mail message, it searches the mail message first for each header in the file. If any of the headers are present with the specified value, the vacation notice is not sent.

A header can be included with no value (make sure to include the colon ':' after the header name), indicating that the header's presence alone is sufficient to suppress the vacation notice. Wildcards are supported in the value part ('*' and '?'), but not in the header name. Use the backslash character ('\') to quote the wildcards.

New Features

New Features in PMDF V6.2

3.2.2 SIEVE Upgrade

Note: Documentation on PMDF's implementation of SIEVE was added to the *PMDF System Manager's Guide*, Section 16.2.

The implementation of SIEVE by PMDF has been upgraded to be compliant with RFC 3028. Notes:

- Several bugs in the SIEVE implementation in previous versions of PMDF have been fixed.
- For list types, such as the list of strings to search for in a header, there is a limit on the number of entries that can be in a single list. This limit can be changed using the `MAX_LIST_SIZE` option. See Section 4.11, Mailbox Filters.
- The capabilities that PMDF supports for the `require` command are: `envelope`, `fileinto`, `reject` and `vacation`.
- The optional `envelope` test has been implemented.
- The `fileinto` command is supported for MessageStore only.

3.2.2.1 PMDF SIEVE Extensions

PMDF also implements the following commands, which are not standard. They are listed here using the format used in RFC 3028, and using keywords (such as `COMPARATOR`) defined in RFC 3028.

body [:contains] [COMPARATOR] <key-list: string-list>

The `body` test searches the body of the message for strings in `key-list`. The `body` test is case-insensitive by default. `COMPARATOR` can be specified to make it case-sensitive.

debug <message: string>

The `debug` command prints out the `message` in the currently active debug log file.

hold

The `hold` command causes PMDF to hold the message as a `.HELD` file. The `hold` command is allowed in the system filter file and channel level filters only.

3.2.3 Inline Directory Lookups

Normally, look ups using the directory channel are queued to the directory channel itself and processed by the directory channel master program. When the channel keyword `inline` is specified on the directory channel, then look ups are done immediately, similar to the way look ups are done to the alias database. For example:

```
directory inline
DIRECTORY-DAEMON
```

Using inline directory lookups can help performance, for example by being able to immediately reject mail addressed to unknown usernames. Only local databases and LDAP look ups are supported in inline mode. Other directory sources are always queued to the directory channel.

3.2.4 log_condense Utility

PMDF V6.2 contains a new utility, `log_condense`, which will read a `mail.log` file, and generate a condensed log file with one entry per message that passed through PMDF. This condensed log file can be used to analyze PMDF message traffic, for example by importing it into a Microsoft Excel spreadsheet, or by using a site-written script.

To run the `log_condense` utility:

For Windows:

```
C:\pmdf\bin> log_condense <mail.log file> <output file>
```

Note: Make sure your `option.dat` contains `LOG_MESSAGEID=1`.

3.2.5 DNS Verify

Warning: This module should be used with caution. If the DNS or connections to the sites being used for DNS verification become unavailable then things will break. Use of this module can also impact performance as well as result in unreliable mail reception due to the dependency on multiple DNS lookups for every incoming SMTP connection. In general, usage of this module is not recommended.

Note: Documentation on `dns_verify` and its routines was added to the *PMDF System Manager's Guide*, Section 16.1.

A new entry point was added to the `dns_verify` shareable image: `dns_verify_domain_warn`. When you use this entry point in a callout from a mapping table such as `ORIG_MAIL_ACCESS`, `dns_verify` will add a new header line to the message instead of rejecting the message outright.

Reminder: For Windows use `C:\pmdf\bin\dns_verify.dll` to specify the `dns_verify` image.

Example 3-1 shows using this in an `ORIG_MAIL_ACCESS` mapping.

Example 3-1 dns_verify_domain_warn in ORIG_MAIL_ACCESS

```
ORIG_MAIL_ACCESS
TCP|64.133.13.142|25|*|*|*|*|*|*|*|* \
$C$[pmdf_dns_verify,dns_verify_domain_warn,$0,\
bl.spamcop.net,spamcop.net:$ entry$ found$ for$ $$0,\
X-Dispatcher:$ SPAMfilter$ (spamcop.net):$ ]$E
```

The four arguments to the routine are:

- The IP address to check.
- The domain to check against.
- Default text to return if no TXT record is available.
- Prepended text for `dns_verify_domain_warn` to return after "\$Y\$A". Include the header name, which must be one that PMDF recognizes.

New Features

New Features in PMDF V6.2

This example queries spamcop.net for the source IP address, uses "spamcop.net: entry found for *ip-address*" as the text if there is no TXT record, and specifies "X-Dispatcher: SPAMfilter (spamcop.net): " as the text to prepend.

When tested with 127.0.0.2 as a source IP address in this ORIG_MAIL_ACCESS probe, it returns:

```
$Y$AX-Dispatcher: SPAMfilter (spamcop.net): Blocked - see http://spamcop.net/bl.shtml?127.0.0.2
```

This is then added as a header to the message. To act upon this, create a system-wide, channel or user filter file containing a SIEVE command similar to:

```
if header :contains "X-Dispatcher" "SPAMfilter" { discard; }
```

3.2.6 TruCluster Support

The *PMDF Installation Guide, Tru64 UNIX Edition* now contains instructions on how to install and set up PMDF to work on TruCluster V5.1A and later.

3.2.7 Miscellaneous Upgrades

Several products that PMDF uses have been upgraded:

- SleepyCat has been upgraded to version 4 to increase the stability, scalability, and performance of PMDF.
- Pine has been upgraded to version 4.44, which includes bug fixes, new configuration options, and enhanced filtering rules.
- LDAP has been upgraded to reduce the amount of overhead required to perform an LDAP lookup.
- TLS has been upgraded to increase the security of transactions conducted on a TLS-capable system, and to reduce the resource overhead of TLS-secured transactions.

4 Release Notes for PMDF V6.2 and V6.2-1win

The following sections document the enhancements and bug fixes that have been made since PMDF V6.1. Release note items that were added in version 6.2-1win are indicated with “(6.2-1win)”.

4.1 Documentation

The following notable changes have been made to the PMDF manuals. Please note that documentation updates included in the V6.2-1win release are prefaced with “6.2-1win”:

1. (6.2-1win) The Job Controller chapter of *PMDF System Manager's Guide* (Chapter 10) has been updated for the new job controller on UNIX and Windows.
2. (6.2-1win) A new chapter has been added to *PMDF System Manager's Guide*, Chapter 24, which contains documentation on both the conversion and script channels.
3. Documentation on `dns_verify` has been added to the *PMDF System Manager's Guide*, Section 16.1.
4. Documentation on vacation notices has been added to the *PMDF System Manager's Guide*, Section 16.2, the *PMDF User's Guide, OpenVMS Edition*, Chapter 3, and the *PMDF User's Guide, UNIX Edition*, Chapter 3.
5. Documentation on PMDF's implementation of SIEVE has been added to the *PMDF System Manager's Guide*, Section 16.2.
6. The chapters on installing PMDF-TLS have been removed from the installation guides, because PMDF-TLS is now included in the main PMDF kit.
7. The chapter on PMDF-XGS was removed from the *PMDF System Manager's Guide* and added to the *PMDF Obsolete Features* manual because PMDF-XGS was obsoleted as of PMDF V6.2.
8. Documentation on the use of LDAP lookups during alias lookup (using the `ALIAS_URLx` options) has been removed from the *PMDF System Manager's Guide*, Section 3.1 and Chapter 7, because it does not work and cannot be made to work. An alternative is to use the new `inline` directory channel lookups to an LDAP database.
9. Documentation on the conversion channel return codes to discard a message and to bounce the entire message with new text have been added to the *PMDF System Manager's Guide*, Section 6.2.3.
10. Documentation on all of the options available in the `http.cnf` configuration file has been added to the *PMDF System Manager's Guide*, Section 12.1.1.

Release Notes for PMDF V6.2 and V6.2-1win

Installation

4.2 Installation

1. (6.2-1win) Fixed a problem with specifying the program folder name to use. The installation always used "PMDF". Now the installation uses what the user typed in. (D/E 10114) [Windows only]
2. Updated the utility `upgrade_all_dbs` for 6.2. [Windows and UNIX only]
3. Fixed a problem with the removal of the PATH variable. (D/E 8396) [Windows only]
4. Added some mail-related RFCs to the PMDF DOC RFC directory: 1778, 2635, 2821, 2822, 3098. (D/E 8388)

4.3 Configuration

1. (6.2-1win) Added a channel keyword `loopcheck` to detect mail that is being sent back to itself. (D/E 9502)
2. (6.2-1win) Fixed a problem where the `ORIG_MAIL_ACCESS`, `MAIL_ACCESS`, `ORIG_SEND_ACCESS`, and `SEND_ACCESS` mapping tables could be bypassed. (D/E 8924, D/E 8847)
3. (6.2-1win) The `[AUTH_CHANNEL]` parameters for mailing lists now accepts a space-separated list of channels as an argument. (D/E 9035)
4. (6.2-1win) Fixed a problem that caused the following channel keywords to not work: `nonurgentqueue`, `normalqueue`, and `urgentqueue`. Note that on Windows, with the new job controller, these keywords have no effect. To specify a queue for a given channel to use, use the `QUEUE` option in the `job_controller.cnf` file. (D/E 9164)
5. (6.2-1win) Added the ability to disable the generation of all successful delivery receipts through a new `pmdf_table:option.dat` option, `DISABLE_DELIVERY_RECEIPT=1`. (D/E 8822)
6. (6.2-1win) The `LINES_TO_RETURN` option in the `pmdf_table:option.dat` file now accepts 0 to indicate that only headers should be included. (D/E 9189)
7. (6.2-1win) Added a new option, `INCLUDE_CONNECTIONINFO`, that provides a means of including the transport and application connection information in various mapping probes that otherwise would not include this material. If included, the information appears at the beginning of the mapping probe in the same format used in the `FROM_ACCESS`, `MAIL_ACCESS`, and `ORIG_MAIL_ACCESS` mappings. The option is a bit-encoded value that defaults to 0. Each currently assigned bit corresponds to a particular non-positional alias parameter, as follows:

Bit	Value	Mapping
---	-----	-----
0	1	AUTH_MAPPING
1	2	MODERATOR_MAPPING
2	4	CANT_MAPPING
3	8	DEFERRED_MAPPING
4	16	DIRECT_MAPPING
5	32	HOLD_MAPPING
6	64	NOHOLD_MAPPING

(D/E 9462)

Release Notes for PMDF V6.2 and V6.2-1win Configuration

8. (6.2-1win) Modified the symantics of the \$? rewrite rule control sequence to be able to add a value between the \$ and the ? to specify what error number to use instead of the default 550/5.1.2. The value should be x00y00z to generate an error number of x.y.z. If the 'x' value is 4, a 452 temporary error is generated. (D/E 9767)
9. The HTTP configuration file must be updated upon upgrading to of PMDF V6.2. See Chapter 2, Installation Gotchas.
10. We recommend that all customers define an abuse address for their site, for example by defining an alias in the `aliases` file in the `table` directory (see RFC 2142). Since abuse should be a low-volume mailbox, it should be pointed to the personal mailbox of a manager that logs in every day.
11. Added a new option, `DOMAINNAME`, which can be entered in the HTTP configuration file (`pmdf_table:http.cnf`) to tell PMDF to use a domain name other than that returned by the IP stack. (D/E 7478)
12. Fixed a regression in the behavior of the `[REPROCESS]` named parameter for mailing lists. Now the mailing list name itself is queued to the reprocess channel instead of each individual address on the mailing list. (D/E 7994)
13. A new option has been added to `option.dat` to enable parsing of multipart/signed messages, for example by PMDF MAIL and for the conversion channel. To enable parsing of multipart/signed messages, put `MP_SIGNED_MODE=1` into your `option.dat` file. The default is 0, multipart/signed messages are not parsed. (D/E 7694)
14. Fixed a problem with the ldap configuration file, `ldapfilter.conf`, not being found when PMDF is installed on a drive other than C:. (D/E 8326) [Windows only]
15. Fixed a problem with specifying gigabyte values using the "g" syntax in configuration files if the value is too large.

4.4 SleepyCat databases

SleepyCat is used on UNIX and Windows platforms only.

1. (6.2 and 6.2-1win) The format of the SleepyCat environment files has changed since PMDF V6.1, and between PMDF V6.2 and V6.2-1win. The old files must be removed. See Chapter 2, Installation Gotchas.
2. (6.2-1win) A problem with the `pmdf dumpdb` utility not properly attaching to the SleepyCat environment on Windows NT/Windows 2000 has been fixed. (D/E 8503) [Windows only]
3. The `pmdf renamedb` utility has been removed. This utility should never be used with SleepyCat.
4. Added three SleepyCat command line utilities:
 - `db_load`
 - `db_recover`
 - `db_verify`(D/E 7645)

Release Notes for PMDF V6.2 and V6.2-1win

SleepyCat databases

5. Increased the size of SleepyCat cache pools to help prevent problems on heavily loaded systems.

4.5 Channels

1. (6.2-1win) An enhancement has been made to improve the performance of PMDF related to messages that have been discarded and placed in the `filter_discard` channel. A new value has been added for the `FILTER_DISCARD` option in the PMDF option file (`pmdf_table:option.dat`), 3. Setting `FILTER_DISCARD=3` in your option file causes PMDF to not add an entry to the queue cache database for messages in the `filter_discard` channel. This improves performance in accessing the queue cache database, for example in `qm.maint` when using the “`directory/database`” command. (D/E 8545)
2. (6.2-1win) Fixed a problem using the `INLINE` feature for directory channels where messages for certain recipients to a mailing list can get lost if there is a temporary error in doing the directory channel lookup for that recipient. (D/E 9937)
3. (6.2-1win) The directory channel has a new option: `INLINE_AMBIGUOUS`. If the directory channel option file contains this option set to 0, and the directory channel has the “`inline`” keyword, ambiguous names are queued to the directory channel so that it can send back a non-delivery notification containing the list of names to choose from. Invalid names are rejected immediately and valid single names are accepted immediately as usual with the “`inline`” keyword. The default is `INLINE_AMBIGUOUS=1`, which is the old behavior to reject ambiguous names immediately. (D/E 8912)
4. (6.2-1win) Using the Directory Channel in Inline Mode will no longer infinitely loop when using `$M/$N` rewrite rules (D/E 9604)
5. Changed message priority determination to honor the channel keywords from intermediate channels such as the conversion channel. (D/E 8239)
6. Fixed a problem locating master channel option files if PMDF is installed on a drive other than C:. (D/E 8325) [Windows only]
7. Fixed a problem with strings in the pager channel acknowledgement message being truncated. (D/E 7186)

4.5.1 Conversion Channel

1. (6.2-1win) Modified PMDF's behavior with regard to the `pmdf_table:conversions` file to allow the `out-parameter` values to override the `parameter-copy conversions` entry parameter. (D/E 9198)
2. (6.2-1win) Added a `PMDF__FORCEBITBUCKET` return code to the conversion channel which directs the message to the `bitbucket` channel in all cases. If PMDF is configured to use the `bitbucket` channel instead of the `filter_discard` channel for the `PMDF__FORCEDISCARD` return code, then in this case, `PMDF__FORCEBITBUCKET` performs the same actions as `PMDF__FORCEDISCARD`. (D/E 9233)

Release Notes for PMDF V6.2 and V6.2-1win Channels

3. (6.2-1win) From the conversion channel, if `PMDF__FORCEDISCARD` or `PMDF__FORCEBITBUCKET` is returned, the script or command procedure can now set `OUTPUT_DIAGNOSTIC` to cause a message to appear in the `mail.log_current` file. (D/E 9234)
4. (6.2-1win) In the conversion channel, the Envelope From: information is now available in the `MESSAGE_HEADERS` file, in the "X-Envelope-From:" header. (D/E 7803)
5. The documentation for symbol substitution in conversion entries in the *PMDF System Manager's Guide*, Section 6.2.3.5, has been corrected.
6. Added symbols `TYPE` and `SUBTYPE` for the content type and subtype, which can be used for symbol substitution in conversion entries. (D/E 8499)
7. Added the ability to use Content-Disposition options such as `FILENAME` as symbols in conversions file entries. (D/E 8500)
8. Updated `seasonal_scan.dcl`, `seasonal_scan.sh`, `virus_scan.sh`, and `virus_scan.dcl` to include the `PMDF__FORCEDISCARD` and `PMDF__FORCERETURN` enhancements listed below. These files are located in the PMDF documentation examples directory (`C:\pmdf\doc\examples` on Windows).
9. Fixed a problem with all backslashes being removed from the `command` parameter of a conversions entry on Windows platforms. Backslashes, however, must be "escaped" when in a conversion entry. For example, "`C:\\PMDF\\TABLE\\COMMAND.COM`" would translate to `C:\PMDF\TABLE\COMMAND.COM`. [Windows only]
10. Fixed a problem with the conversion channel where a `content-description` header in the `OUTPUT_HEADERS` file didn't get used if the original mime part already had a `content-description` header. (D/E 7699)
11. Made envelope To: information available to scripts run by the conversion channel. The envelope To: information is contained in an X-Envelope-to header in the file pointed to by the `MESSAGE_HEADERS` symbol. (D/E 8498)
12. Fixed a problem with discarded messages being sent through the conversion channel.

4.6 Dispatcher and Servers

1. (6.2-1win) Fixed a problem where the dispatcher needed to be restarted twice to pick up changes that applied to the dispatcher in the `dispatcher.cnf` configuration file. (D/E 9537)
2. Fixed a problem whereby the IMAP server could get into an infinite loop. (D/E 8440)
3. The dispatcher no longer shuts down a service (for example, POP) if it gets an error when accepting an incoming connection. (D/E 8293)

4.7 DNS Verify

1. Added the file `dns_verify_mappings.sample` to the PMDF table directory. This file contains examples of mappings file entries which make `dns_verify` callouts.
2. `DNS_VERIFY` now works on Windows NT and Windows 2000. (D/E 8383, 8394) [Windows only]

Release Notes for PMDF V6.2 and V6.2-1win

DNS Verify

3. Fixed a problem where using `dns_verify` could cause the SMTP server to crash. The problem occurs when the MAIL FROM: address contains a domain name which has more than 35 A records in DNS. (D/E 7868)

4.8 Jobs

1. (6.2-1win) Fixed a problem with “T” entries getting written to the wrong `connection.log*` (or `mail.log*`) file, or not written at all, after the return job runs. (D/E 8811, D/E 8528)
2. The format of the return job’s debug log file entries has been improved. (D/E 8491)

4.9 LDAP Interface

1. (6.2-1win) Fixed a problem with LDAP-based mailing lists. If an entry in the LDAP database had a null-valued “mail” attribute, PMDF would not fetch the rest of the mailing list entries. (D/E 7254)
2. (6.2-1win) Fixed a problem that prevented PMDF from properly unbinding from the LDAP server. (D/E 8690)
3. (6.2-1win) Fixed a problem that prevented PMDF from successfully performing multiple LDAP queries to the same LDAP server in rapid succession. (D/E 9179)

4.10 Logging

1. (6.2-1win) Fixed a problem with dispatcher debug logging not appearing in the dispatcher log file. (D/E 8814) [Windows 2000 only]

4.11 Mailbox Filters

1. (6.2-1win) Fixed a problem with reading in filter files which contain a semi-colon as the first or only thing on the line, for example after a “text:” block. (D/E 8221)
2. (6.2-1win) Fixed a problem with the envelope `From:` address not being checked against SIEVE filter files using the `header` and `address` tests by specifying “return-path” as the header to check. (D/E 8343)
3. Note that a good way to check a mailbox filter file for syntax errors is to use the `pmdf test -rewrite -filter` command. See the *PMDF System Manager’s Guide*, Chapters 30 and 31.
4. Fixed a problem with specifying a non-standard header in the SIEVE header test in filter files. (D/E 8386)
5. A new option has been added to `option.dat`, `MAX_LIST_SIZE`, which can be specified to increase the number of entries that are allowed in a single SIEVE list type. The default is 64. (D/E 8088)

Release Notes for PMDF V6.2 and V6.2-1win

Mailbox Filters

6. Fixed a problem with the `require` command in global filter files (`pmdf_table:pmdf.filter`). The `pmdf cnbuild` utility would give an error if the `require` command was present, and would work when the `require` command was absent, even though the `require` was required. (D/E 8238)
7. Fixed a problem with the `body` command always being case-sensitive. The default is now case-insensitive, and the `:comparator` option can be used to specify case-insensitive (`i;ascii-casemap`) or case-sensitive (`i;octet`). (D/E 8251)
8. Fixed a problem with the `body` command not correctly finding the string it was searching for. (D/E 7920)

4.11.1 Web Interface to Mailbox Filters

1. Added the capability to specify phrases to search in the body of messages. This corresponds to the SIEVE `body` command. (D/E 8045)
2. Fixed a problem with the web interface generating filter files with the text truncated, generating syntax errors. This can happen with a large amount of text in a single filter. (D/E 7887)
3. Fixed a problem with the web interface generating filter files with a blank line in the web-specific comment header, preventing the web interface from reading the file back in successfully. (D/E 7945)
4. Fixed a problem with the web interface generating filter files with more entries in a SIEVE list type than PMDF will accept. This can happen with a large number of entries in a single filter. (D/E 8045)
5. Fixed a problem with authenticating to the `administrator` account on Windows platforms. (D/E 8342) [Windows only]
6. Fixed many problems with the web interface to filter files on Windows platforms. (D/E 7776) [Windows only]

4.12 Miscellaneous

1. (6.2-1win) Fixed a problem where logical names were previously processed even when they were outside of the `NAME_TABLE_NAME` option limits. (D/E 9526)
2. (6.2-1win) Fixed a problem with the SMTP `ETRN` command (RFC 1985). An `ETRN domain-name` command now processes only mail to be sent to `domain-name`, not all mail in the same channel as `domain-name`. (D/E 8402)
3. (6.2-1win) The SMTP `XTSA` command now correctly displays the Attempted and Rejected counts for each channel. (D/E 9984)
4. (6.2-1win) A new metacharacter, `$G`, has been added to the `MAILSERV_ACCESS` mapping table to perform the same actions as the `/NOENVELOPE` undocumented qualifier on the `MAILSERV subscribe` command. Using `$G` causes `MAILSERV` to use the header `From` address when subscribing rather than the envelope `From` address. (D/E 9188)
5. (6.2-1win) Modified `MAILSERV` to be able to parse multipart/signed (e.g. PGP-signed) messages to recognize the `MAILSERV` commands in the plain text part. (D/E 9912)

Release Notes for PMDF V6.2 and V6.2-1win

Miscellaneous

6. (6.2-1win) Whenever an SMTP session is rejected from the `FROM_ACCESS` mapping table, it is now logged as a "J" record in the `mail.log_current` file. (D/E 9573)
7. (6.2-1win) Fixed a problem where in an SMTP session a second EHLO command after an AUTH command incorrectly switched back to the original channel. (D/E 9457)
8. (6.2-1win) Dates have been added to the timestamps in all PMDF log files. (D/E 7183)
9. (6.2-1win) A change has been made to PMDF's mailing list processing. If there are any problems accessing the mailing list file, the message is redirected to the "reprocess" channel to try accessing the file again. (D/E 9184)
10. (6.2-1win) Made improvements to bounce message text in the case of size or line limit exceeded to not report inaccurate size or line length. (D/E 9379)
11. (6.2-1win) Fixed a problem with the `USERNAME_TRANSLATE` option of the `security.cnf` file. (D/E 7367)
12. Removed inaccurate word "list" from [BLOCKLIMIT] error message. (D/E 8377)
13. Fixed a problem with blank lines in mailing list files, for example in those created by MAILSERV. (D/E 8398)
14. Fixed a problem with keywords in alias entries in the alias database. (D/E 8192)
15. Fixed an ACCVIO when the `dq_context` parameter to the `PMDF_decode_message` API routine is passed in as a NULL pointer. (D/E 8198)
16. Fixed a problem with using the reverse database for address reversal. It was not being applied correctly to Envelope From: addresses. (D/E 8034)
17. Fixed a problem with DirSync not finding its channel options file. (D/E 7909) [UNIX and Windows only]
18. Fixed a problem with 8-bit characters being included in Received: headers. (D/E 8334)

4.13 popstore / MessageStore

1. (6.2-1win) Fixed a problem with the "Manage MessageStore" and "Manage popstore" utilities which could result in the window displaying a page saying "you are not authorized to view this page". (D/E 10091) [Windows only]
2. (6.2-1win) Fixed a problem with the `reconstruct -m` command. It did not work due to bugs in the MicroSoft C RTL. (D/E 8178) [Windows 2000 only]
3. (6.2-1win) Reconstructing a mailbox that contains "_BAD" files will no longer result in duplicate UIDs. (D/E 9905)
4. (6.2-1win) Fixed some problems when copying messages among subfolders using IMAP. (D/E 8530, D/E 8786)
5. (6.2-1win) MessageStore and popstore accounts are now validated immediately, the same way that local VMS and UNIX accounts are validated. (D/E 8988)
6. (6.2-1win) Fixed a problem with the popstore option `OVER_QUOTA_MSG_FILE` in reading the file. Note that this option needs to be in the `pmdf_table:pop3d.cnf` file for the legacy pop server, and in the `pmdf_table:imappop.cnf` file for the MessageStore pop server. (D/E 8253)

Release Notes for PMDF V6.2 and V6.2-1win popstore / MessageStore

7. (6.2-1win) Anonymous IMAP logins to the Message Store IMAP server now work. (D/E 9076)
8. (6.2-1win) Fixed a problem with repeated calls to the POPSTORE API to add MessageStore or popstore users where it can run out of memory. (D/E 9182)

4.14 Utilities

1. `upgrade_all_dbs` utility:
 - a. (6.2-1win) This utility now correctly deletes `__db.*` files from the `tmp` directory if PMDF is installed in a non-standard location. (D/E 10087) [Windows only]
2. `pmdf test -rewrite` utility:
 - a. (6.2-1win) A new option has been added to the `pmdf test -rewrite` command: `-reprocessing`. This allows the `pmdf test -rewrite` of a mailing list alias which uses the `[REPROCESS]` named parameter to display the addresses in the mailing list. This option is on by default. Use `-noreprocessing` to turn it off. (D/E 8605)
 - b. (6.2-1win) A small bug has been fixed that would generate LDAP debugging messages even when debugging wasn't specified. (D/E 9861)
3. `log_condense` utility:
 - a. (6.2-1win) Spurious carriage returns in `rfc822` address fields no longer cause the `log_condense` utility to ACCVIO. `log_condense` has been modified to handle this condition correctly. (D/E 8952)
4. `movein` utility:
 - a. (6.2-1win) Fixed a problem with `movein` that could cause an ACCVIO/segfault. (D/E 9443)
5. `qm maint` utility:
 - a. (6.2-1win) Fixed a problem with `EDIT_FAX` not working properly in `QM MAINT`. (D/E 9533)
6. `pmdf cnbuild` utility:
 - a. (6.2-1win) The `pmdf cnbuild` utility now supports much larger configurations (for example, extremely large `pmdf.filter` files). (D/E 8247)
7. `migrate` utility:
 - a. Fixed a problem which could cause an ACCVIO/coredump. (D/E 8439)
8. `circuitcheck` utility:
 - a. The `maximum_threshold` option has been implemented. (D/E 7744)
9. `pmdf db` utility:
 - a. (6.2-1win) The `pmdf db` utility now supports HUGE databases. The `open` command now supports `huge` as well as `short` and `long` keywords. The `add` command accepts an *alias-value* as long as 1024 bytes. (D/E 6975)

Release Notes for PMDF V6.2 and V6.2-1win

Web Interface

4.15 Web Interface

1. (6.2-1win) Fixed a problem with images not displaying properly on the main web page and on the "About PMDF" web page if PMDF was installed on an alternate disk or in an alternate directory. (D/E 10113) [Windows only]
2. URLs are no longer displayed on the main PMDF web page. (D/E 7478)
3. The text and titles have been changed in the web interface for the password change utility and the messagestore/popstore user interface to make it clear that they are not for popstore only. (D/E 7478)

4.16 PMDF-TLS

1. The `tls_certdump` and `tls_certreq` utilities will now guess correct file paths. (D/E 7870) [Windows only]
2. Fixed a problem preventing TLS cipher information about an IMAP connection from being placed in the `connection.log` file. (D/E 8292) [Windows only]

4.17 PMDF-LAN

1. (6.2-1win) Fixed a problem with the PMDF-LAN connection to Novell MHS in converting the MHS date to SMTP format. The month was being converted incorrectly. (D/E 8780)
2. (6.2-1win) Fixed a problem that prevented PMDF-LAN from properly transferring messages to Novell GroupWise systems. (D/E 8698)