

PMDF V6.2 Release Notes

November 2002

This document contains a list of new features and bug fixes that have been made since PMDF V6.1. Release notes items from V6.1-1 are included.

- Revision/Update Information:** This document supersedes the *PMDF V6.1 Release Notes & Installation Gotchas, NT Edition*, *PMDF V6.1 Release Notes & Installation Gotchas, OpenVMS Edition*, *PMDF V6.1 Release Notes & Installation Gotchas, Solaris Edition*, and *PMDF V6.1 Release Notes & Installation Gotchas, Tru64 UNIX Edition*
- Software Version:** V6.2 of PMDF, PMDF-MTA, PMDF-DIRSYNC, PMDF-FAX, PMDF-LAN, PMDF-MR, PMDF-MSGSTORE, PMDF-POPSTORE, PMDF-TLS, PMDF-X400
- Operating System and Version:** Solaris SPARC or Intel V2.6, V8 or later; (SunOS V5.6, V5.8 or later);
Tru64 UNIX V4.0D or later;
OpenVMS Alpha or VAX V6.1 or later;
NT V4.0 SP5 or later (on Intel); Windows 2000

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1 Installation of PMDF V6.2

This document contains installation gotchas and release notes for upgrading to PMDF V6.2 from V6.1 or V6.1-1 for all 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. These release notes are available on the Process Software web site.

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 kit is:

18-OCT-2002

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

These release notes in text, postscript, and PDF formats are located on the PMDF V6.2 CD-ROM in the documentation directory tree. Note that for UNIX and Windows, the text version of these release notes are provided in two formats: with UNIX-style line terminators (PMDF062.release_notes), and with Windows-style line terminators (PMDF062_release_notes.txt).

The text version of these release notes is installed on VMS in the SYSSHELP directory, and on UNIX and NT in the PMDF documentation directory. The postscript and PDF versions on all platforms are installed into the PMDF documentation directory (PMDF_ROOT:[DOC] on VMS, /pmdf/doc on UNIX, and C:\pmdf\doc on Windows).

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.

Installation of PMDF V6.2

Obtaining new files

Move to the `pmdf_62_patches` subdirectory:

```
ftp> cd pmdf_62_patches
```

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

| Platform | Subdirectory |
|-----------------|---------------------|
| OpenVMS | vms |
| Solaris/SPARC | solaris-sparc |
| Solaris/x86 | solaris-x86 |
| Tru64 | osf |
| Windows NT | nt |
| Windows 2000 | w2k |

2 Installation Gotchas for PMDF V6.2

Make sure you read the *PMDF Installation Guide* for your platform 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 SleepyCat Environment Files

The format of the SleepyCat environment files on UNIX and Windows platforms has changed since PMDF V6.1. The old files must be removed. Execute the following commands:

For UNIX:

```
# rm /pmdf/table/___db.0*
# rm /pmdf/table/queue_cache/___db.0*
# rm /var/tmp/___db.0*
```

For Windows:

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

2.2 HTTP configuration file

The HTTP configuration file must be updated upon upgrading to this version of PMDF. The HTTP configuration file is usually `pmdf_table:http.cnf` on VMS, `/pmdf/table/http.cnf` on UNIX, and `\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=/chng_pwd/]`

Installation Gotchas for PMDF V6.2

pmdf.filter File

2.3 pmdf.filter File

PMDF V6.2 has 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 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
```

2.4 pmdf renamedb Utility

The `pmdf renamedb` utility for UNIX and Windows platforms has been removed from the distribution. This utility should never be used with SleepyCat.

2.5 Installing TLS

The TLS files are now included in the main PMDF kit, you do not have to install TLS as a separate step.

2.6 Known Problems

1. There is a problem with multiple return jobs running simultaneously on UNIX systems. (D/E 8357) [UNIX only]
2. There is a possible delivery loop problem that can happen if a `pmdf profile` method returns 75 (over quota) and the user has a `.forward` file with multiple recipients. (D/E 8099) [UNIX only]
3. There are known Java compatibility issues with the mailbox filters web pages.

3 New Features in PMDF V6.2

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

3.1 Vacation Notices

Note: 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.

Users can now 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 has been 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.

3.1.1 Vacation Exceptions Option File

As required by the SIEVE vacation command draft document, PMDF V6.2 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

New Features in PMDF V6.2

Vacation Notices

in the PMDF table directory. PMDF V6.2 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, 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 V6.2 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.

3.2 SIEVE Upgrade

Note: Documentation on PMDF's implementation of SIEVE has been 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.

3.2.1 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.

3.3 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.

3.4 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 UNIX:

```
# /pmdf/bin/log_condense <mail.log file> <output file>
```

For VMS:

```
$ log_condense ::= $PMDF_EXE:LOG_CONDENSE.EXE
$ log_condense <mail.log file> <output file>
```

For Windows:

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

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

3.5 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 has been added to the *PMDF System Manager's Guide*, Section 16.1.

3.7 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

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 6.1-1 are indicated with “(6.1-1)”.

4.1 Documentation

The following notable changes have been made to the PMDF manuals:

1. Documentation on `dns_verify` has been added to the *PMDF System Manager's Guide*, Section 16.1.
2. 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.
3. Documentation on PMDF's implementation of SIEVE has been added to the *PMDF System Manager's Guide*, Section 16.2.
4. 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.
5. The chapters on installing PMDF-TLS have been removed from the installation guides, because PMDF-TLS is now included in the main PMDF kit.
6. 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.
7. 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.
8. 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.
9. 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.
10. The *PMDF Installation Guide, VMS Edition* and the *PMDF System Manager's Guide* now include information about PMDF's behavior with regard to time zones on VMS. If the `PMDF_TIMEZONE` logical is not defined, PMDF looks for VMS system logicals to determine the local time zone. It first looks for `SYSS$LOCALTIME`, then if that is not defined it looks for `SYS$TIMEZONE_DIFFERENTIAL` and `SYS$TIMEZONE_NAME`.

Release Notes for PMDF V6.2

Licenses

4.2 Licenses

1. Fixed a confusing message from `pmdf license unload` when the PMDF-MTA license is in use. (D/E 7707) [VMS only]

4.3 Installation

1. John Bradley's XV utility has been removed from the PMDF distribution on VMS due to licensing issues. PMDF MAIL would automatically invoke XV to display graphical image attachments. If you require this functionality, XV can be downloaded from the following web site:

<http://www.trilon.com/xv/>

[VMS only]

2. Fixed a problem with the `symlink` script. (D/E 8397) [Solaris only]
3. Updated the utility `upgrade_all_dbs` for 6.2. [Windows and UNIX only]
4. Fixed a problem with the removal of the PATH variable. (D/E 8396) [Windows only]
5. Replaced the manpage for `pmdf renamedb` with one saying that `renamedb` has been removed. [UNIX only]
6. In the VMS installation, the list of VMS patches is no longer displayed. It has been replaced by a reference to the *PMDF Installation Guide, VMS edition*, which contains the list of patches. [VMS only]
7. In the VMS installation, changed the default UIC for the PMDF account to [375,1]. [VMS only]
8. In the VMS installation, changed the default username for batch jobs to be the current setting. (D/E 8425) [VMS only]
9. Added some mail-related RFCs to the PMDF DOC RFC directory: 1778, 2635, 2821, 2822, 3098. (D/E 8388)
10. (6.1-1) Fixed a malformed dialog box during installation. (D/E 7594) [Windows only]

4.4 Startup/Shutdown

1. Fixed a problem with `pmdf shutdown` on UNIX systems shutting down non-PMDF processes. (D/E 8257) [UNIX only]
2. Fixed a problem with getting "device timeout" errors upon `pmdf restart` in large clusters. (D/E 7907) [VMS only]
3. (6.1-1) Two additional qualifiers have been added to the `pmdf shutdown` command. `pmdf shutdown force` will cause all PMDF processes to be forcefully terminated, while `pmdf shutdown wait` will not return control to the caller until all PMDF processes have terminated on their own. (D/E 7284) [UNIX only]

Caution: Use of `pmdf shutdown force` is not recommended. Especially on a heavily loaded system, it can cause SleepyCat database problems.

4. (6.1-1) Fixed a problem with the `pmdf restart` utility erroneously printing out an error message stating that PMDF is still running and to use `pmdf restart`. (D/E 7513) [UNIX only]

4.5 Configuration

1. The HTTP configuration file must be updated upon upgrading to this version of PMDF. See Chapter 2, Installation Gotchas for PMDF V6.2.
2. 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.
3. 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)
4. 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)
5. 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)
6. 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]
7. Fixed a problem with specifying gigabyte values using the "g" syntax in configuration files if the value is too large.
8. The `localbehavior` channel keyword has been enhanced to perform DELIVER processing. [VMS only]

4.6 SleepyCat databases

SleepyCat is used on UNIX and Windows platforms only.

1. The format of the SleepyCat environment files has changed since PMDF V6.1. The old files must be removed. See Chapter 2, Installation Gotchas for PMDF V6.2.
2. The `pmdf renamedb` utility has been removed. This utility should never be used with SleepyCat.
3. Added three SleepyCat command line utilities:
 - `db_load`
 - `db_recover`
 - `db_verify`(D/E 7645)

Release Notes for PMDF V6.2

SleepyCat databases

4. Increased the size of SleepyCat cache pools to help prevent problems on heavily loaded systems.
5. (6.1-1) Fixed a problem with the `pmdf cache -rebuild` utility on Windows 2000 not delivering queued messages. (D/E 7608) [Windows 2000 only]
6. (6.1-1) Fixed a problem with the `pmdf cleandb` utility trying to delete files used by older versions of SleepyCat and not deleting the currently used `__db.*` files. (D/E 7661)

4.7 Channels

1. Changed message priority determination to honor the channel keywords from intermediate channels such as the conversion channel. (D/E 8239)
2. Fixed a problem locating master channel option files if PMDF is installed on a drive other than C:. (D/E 8325) [Windows only]
3. Fixed a problem with strings in the pager channel acknowledgement message being truncated. (D/E 7186)

4.7.1 Conversion Channel

1. The documentation for symbol substitution in conversion entries in the *PMDF System Manager's Guide*, Section 6.2.3.5, has been corrected.
2. Added symbols TYPE and SUBTYPE for the content type and subtype, which can be used for symbol substitution in conversion entries. (D/E 8499)
3. Added the ability to use Content-Disposition options such as FILENAME as symbols in conversions file entries. (D/E 8500)
4. 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 (`PMDF_ROOT:[DOC.EXAMPLES]` on VMS, `/pmdf/doc/examples` on UNIX, and `C:\pmdf\doc\examples` on Windows).
5. 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]
6. 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)
7. Fixed a problem on VMS where if the conversion channel was used, encoded mime parts, for example encoded in BASE64 or QUOTED-PRINTABLE, would contain spurious line breaks or NULLs. (D/E 7847) [VMS only]
8. 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)
9. Fixed a problem with discarded messages being sent through the conversion channel.

10. (6.1-1) For the conversion channel, returning a value of (hex)0A9C857A from the script (the value of PMDF_FORCERETURN in `pmdf_err.h`) causes PMDF to bounce the original message back to the sender. A variation is to return a value of (hex)0A9C857B, which causes PMDF to bounce back the first 20 lines of the message (that count includes the header lines), with any modifications made by the conversion script (this is called "swap_payload" in the sample virus scanning procedure for VMS). A new variation has been added: return value (hex)0A9C8579, which causes PMDF to bounce back the entire message with any modifications. This value also causes the text from `return_bounced.txt` to be used in the delivery failure notification instead of `return_failed.txt`. (D/E 7500, 7449)
11. (6.1-1) For the conversion channel, a previously undocumented return code PMDF_FORCEDISCARD (hex)0A9C86B3 now works. If this is returned from the conversion channel script, it will cause the message to be discarded. (D/E 7282)

4.8 Dispatcher and Servers

1. Fixed a problem whereby the IMAP server could get into an infinite loop. (D/E 8440)
2. The dispatcher no longer shuts down a service (for example, POP) if it gets an error when accepting an incoming connection. (D/E 8293)
3. (6.1-1) Sometimes with the IMAP server that serves VMS MAIL, the `pmdf_imap.mailbox` file could create multiple versions, and lose the subscribed status of the user's folders. This has been fixed so that if the existing `pmdf_imap.mailbox` file cannot be accessed, it will return an error rather than create a new version of the file. (D/E 7117) [VMS only]
4. (6.1-1) Fixed a problem with outgoing mail getting stuck in the queue on Windows 2000 Service Pack 2. (D/E 7634) [Windows 2000 only]

4.9 DNS Verify

1. Added the logical name PMDF_DNS_VERIFY to PMDF_STARTUP.COM. [VMS only]
2. 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.
3. DNS_VERIFY now works on Windows NT and Windows 2000. (D/E 8383, 8394) [Windows only]
4. 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)

4.10 Jobs

1. The format of the return job's debug log file entries has been improved. (D/E 8491)
2. (6.1-1) Fixed a problem with the return job not deleting `.data-failed` files from the TCP spool directories. (D/E 7526) [Windows only]

Release Notes for PMDF V6.2

Mailbox Filters

4.11 Mailbox Filters

1. Note that a good way to check a mailbox filter file for syntax errors is to use the `pmdf test -rewrite -filter command` (`pmdf test/rewrite/filter` on VMS). See the *PMDF System Manager's Guide*, Chapters 30 and 31.
2. Fixed a problem with specifying a non-standard header in the SIEVE header test in filter files. (D/E 8386)
3. 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)
4. 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)
5. 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)
6. Fixed a problem with the `body` command not correctly finding the string it was searching for. (D/E 7920)
7. (6.1-1) Using the `body` command no longer causes the processing of the message to fail occasionally. (D/E 7709)
8. (6.1-1) Fixed a problem with core-dumps when using the `body` command. (D/E 7225). [Solaris/SPARC only]

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. Removed inaccurate word "list" from [BLOCKLIMIT] error message. (D/E 8377)
2. Fixed a problem with blank lines in mailing list files, for example in those created by MAILSERV. (D/E 8398)
3. MASTER.COM now puts its temporary file into PMDF_TMP instead of PMDF_LOG. Site-specific preprocessing and cleanup callouts were added. (D/E 7808) [VMS only]
4. Support for the `sendmail --` option has been added to the PMDF `sendmail` replacement. Any command line arguments following the new `--` option will be ignored. Several standard programs, including the Solaris mail utility, depend upon this option for security reasons. (D/E 7893) [UNIX only]
5. Fixed a problem with keywords in alias entries in the alias database. (D/E 8192)
6. 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)
7. Fixed a problem with using the reverse database for address reversal. It was not being applied correctly to Envelope From: addresses. (D/E 8034)
8. Fixed a problem with DirSync not finding its channel options file. (D/E 7909) [UNIX and Windows only]
9. Dates have been added to the timestamps in all PMDF log files. (D/E 7183)
10. Fixed a problem with 8-bit characters being included in Received: headers. (D/E 8334)
11. (6.1-1) The blackhole hosts used for the `ENABLE_RBL` option have been changed from the defunct `maps.vix.com` to `mail-abuse.org`. (D/E 7435)

4.13 Pine

1. Fixed a problem with `pmdf pine` hanging when trying to send mail. (D/E 7237) [Tru64 UNIX V5.1 and later only]

4.14 PMDF Mail

1. Fixed a problem with doing `EXTRACT` followed by `SEND`, or doing `RESEND`, `REDISTRIBUTE`, or `FORWARD` of certain messages which when decoded result in lines longer than 1022. (D/E 8355) [VMS only]
2. Added the ability to display the message's To: information in directory listings in PMDF MAIL. The qualifier `/to` has been added to the `set directory_format` command to specify that the To: information should be displayed and where. The default directory listing format has not changed. The `/to` qualifier has the same options as the `/from` qualifier: `HEADING=text`, `SKIP=n`, and `WIDTH=n`. (D/E 7476) [VMS only]

Release Notes for PMDF V6.2

popstore / MessageStore

4.15 popstore / MessageStore

1. (6.1-1) Fixed a problem with the `show -counter_users` command showing inaccurate counts. (D/E 7293)
2. (6.1-1) Fixed a problem with the `modify -noquota` command (`modify/noquota` on VMS) not actually removing the account's quota. It now removes the primary quota for the specified account correctly. (D/E 7167)
3. (6.1-1) You can now use `-all (/ALL on VMS)` with `-count_users (/COUNT_USERS on VMS)` on the `show` command to show both popstore and MessageStore counts at the same time. (D/E 7293)
4. (6.1-1) Filing into folders in MessageStore using `fileinto` now works. (D/E 7262)
5. (6.1-1) Fixed a problem with the `pmdf popstore` and `pmdf msgstore` utilities writing output to `SYSS$INPUT` instead of the normal `SYSS$OUTPUT`. They now correctly write output to `SYSS$OUTPUT`. You can now run `pmdf popstore/msgstore` from a command procedure, and use `define sys$input file` to have `pmdf popstore/msgstore` read commands from a file. (D/E 7550) [VMS only]
6. (6.1-1) Fixed a problem with slow delivery of messages to popstore and MessageStore accounts. (D/E 7724) [VMS only]
7. (6.1-1) Fixed a problem that prevented the rebuilding of the popstore/MessageStore user database using the `x-build-user-db` command. (D/E 7484) [Windows only]
8. (6.1-1) Fixed a problem whereby the MessageStore channel image (`msgstore_master`) would crash whenever a POP3 user authenticated themselves to the MessageStore POP server at the same time a message was being delivered to their mailbox. (D/E 7625) [Windows only]

4.16 Utilities

1. `pmdf migrate` utility:
 - a. Fixed a problem which could cause an ACCVIO/coredump. (D/E 8439)
 - b. Fixed a problem looking up hostnames. (D/E 8437) [Tru64 only]
2. `TELLME` utility:
 - a. Fixed a few minor bugs in `PMDF_COM:TELLME.COM`. (D/E 8013) [VMS only]
3. `pmdf qclean` utility:
 - a. Fixed an ACCVIO with the `pmdf qclean/content` command. (D/E 7638) [VMS only]
4. `CIRCUITCHECK` utility:
 - a. The `maximum_threshold` option has been implemented. (D/E 7744)
 - b. (6.1-1) Fixed a problem with running commands (`expiry_command`, etc) from the `CIRCUITCHECK` facility. The problem can show up as many different VMS error codes, such as "file not found". Commands now work. (D/E 7166) [VMS only]

5. `pmdf send` utility:
 - a. Fixed a problem with the VMS-FDL clause of the content-type header being added when it wasn't needed when a binary file is sent. (D/E 8243) [VMS only]
 - b. (6.1-1) Fixed a problem with `pmdf send -log` not printing any log messages. (D/E 7060) [UNIX and Windows only]
6. `pmdf db` utility:
 - a. (6.1-1) Fixed a problem with the `write` command not properly writing alias attributes to the destination file. (D/E 7735) [UNIX and Windows only]
 - b. (6.1-1) Fixed a problem with getting an SCDB error when the `pmdf db` utility is run by a non-privileged user. (D/E 7532) [UNIX only]
7. `pmdf counters` utility:
 - a. (6.1-1) Fixed problem preventing the PMDF counters from incrementing properly. (D/E 6980) [Windows only]
8. `qm` utility:
 - a. (6.1-1) Fixed a problem with queued messages not showing up in `pmdf qm -maint` on Windows 2000 after doing `pmdf cache -rebuild` (D/E 7608) [Windows 2000 only]
 - b. (6.1-1) Fixed a problem with the `pmdf qm -maint` command `directory -directory_tree` not showing any queued messages. (D/E 7339) [Windows only]
 - c. (6.1-1) Fixed a problem with the `pmdf qm (qm.user)` utility not showing queued messages when used by a non-privileged user. (D/E 7338) [UNIX only]
9. `pmdf test` utility:
 - a. (6.1-1) Fixed a problem with getting an SCDB error when the `pmdf test -rewrite` utility is run by a non-privileged user. It now prints an "insufficient privileges" message. (D/E 7532) [UNIX only]
10. `pmdf process` utility:
 - a. (6.1-1) Fixed a problem whereby extraneous shell processes would be listed. (D/E 7404) [Solaris only]

4.17 Web Interface

1. URLs are no longer displayed on the main PMDF web page. (D/E 7478)
2. 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)

Release Notes for PMDF V6.2

PMDF-TLS

4.18 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]
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4.19 PMDF-XGS

1. The PMDF-XGS component has been obsoleted.
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4.20 PMDF-MB400

1. The PMDF-MB400 component has been obsoleted.