

PMDF V6.2-1 Release Notes

January 2005

This document contains a list of new features and bug fixes that have been made since PMDF V6.2. Release notes items from V6.2 are included.

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

Software Version: V6.2-1 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;

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1 Installation of PMDF V6.2-1

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

SPECIAL NOTE: PMDF V6.2-1 for Windows platforms is not currently available. When Windows kits are made available, it will be announced 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 V6.2-1 kit is:

17-JAN-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 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.

Move to the `pmdf_621_patches` subdirectory:

Installation of PMDF V6.2-1

Obtaining new files

```
ftp> cd pmdf_621_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 2000	w2k

2 Installation Gotchas

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 Installation Gotchas for PMDF V6.2-1

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

2.1.1 SleepyCat Environment Files

The format of the SleepyCat environment files on UNIX and Windows platforms changed in PMDF V6.2 from earlier versions, and changed between V6.2 and V6.2-1. 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.*
```

2.1.2 Additional Job Controller Queues (Unix and Windows)

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 V6.2-1 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_controller.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.

Installation Gotchas

Installation Gotchas for PMDF V6.2-1

```
[CHANNEL=conversion]
master_command=/pmdf/bin/conversion
queue=CONVERSION_QUEUE
```

2.1.3 Known Issues

1. If you are running the pipe channel on VMS, for example if you are using PreciseMail Anti-Spam Gateway from Process Software, we have seen that the pipe channel master requires more page file quota (pgflquo) than previously. If you see the pipe channel fail with

```
System error -2 (out of memory)
```

increase the PGFLQUO value in the SYSTEM account in authorize. For example, one system required it to be increased from 50,000 to 120,000. [VMS only]

2. There is a known version incompatibility problem with older clients that use SSL/TLS to access PMDF on Tru64. The problem prevents them from connecting properly, for example IMAP clients cannot connect to the PMDF IMAP server to retrieve mail. Newer clients do not have this problem. PMDF on OpenVMS or Solaris does not have this problem.

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 V6.2-1.

2.2.1 HTTP configuration file

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

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=/chnq_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 V6.2-1, 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 UNIX and Windows platforms was removed from the distribution as of PMDF V6.2. This utility should never be used with SleepyCat.

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 V6.2-1

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

3.1.1 New Job Controller [UNIX and Windows]

The job controller on UNIX and 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 V6.2-1

- 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 OpenVMS and `-pwdexpired` for UNIX and 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` (`-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, for example on unix:

```
# /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 V6.2-1

- 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=<UNIX or NT file specification; OpenVMS executive-mode logical name>
```

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

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New Features in PMDF V6.2-1

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

```
PMDF_ROOT:[DOC.EXAMPLES]POPSTORE_VALIDATE_PASSWORD.C
```

And on UNIX:

```
/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_com: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 V6.2-1 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.

New Features

New Features in PMDF V6.2

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.

3.2.2 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 4.12, 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 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`.

3.2.5 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 VMS use `pmdf_dns_verify`, for UNIX use `/pmdf/lib/dns_verify`, and 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.

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

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 6.2-1 are indicated with “(6.2-1)”.

4.1 Documentation

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

1. (6.2-1) 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. (6.2-1) 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 *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.
7. The chapters on installing PMDF-TLS have been removed from the installation guides, because PMDF-TLS is now included in the main PMDF kit.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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`,

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

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then if that is not defined it looks for `SYS$TIMEZONE_DIFFERENTIAL` and `SYS$TIMEZONE_NAME`.

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)

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]

4.5 Configuration

1. (6.2-1) Added a channel keyword `loopcheck` to detect mail that is being sent back to itself. (D/E 9502)
2. (6.2-1) 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. (6.2-1) Fixed a problem that caused the `FORWARD_FORMAT` option in `/pmdf/table/l_option` files to be ignored. (D/E 9187) [UNIX only]
4. (6.2-1) The `[AUTH_CHANNEL]` parameters for mailing lists now accepts a space-separated list of channels as an argument. (D/E 9035)
5. (6.2-1) Fixed a problem that caused the following channel keywords to not work: `nonurgentqueue`, `normalqueue`, and `urgentqueue`. Note that on UNIX, 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)
6. (6.2-1) 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)
7. (6.2-1) 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)
8. (6.2-1) 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)

9. (6.2-1) 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)
10. The HTTP configuration file must be updated upon upgrading to of PMDF V6.2. See Chapter 2, Installation Gotchas.
11. 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.

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12. 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)
13. 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)
14. 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)
15. 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]
16. Fixed a problem with specifying gigabyte values using the "g" syntax in configuration files if the value is too large.
17. 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. (6.2 and 6.2-1) The format of the SleepyCat environment files has changed since PMDF V6.1, and between PMDF V6.2 and V6.2-1. The old files must be removed. See Chapter 2, Installation Gotchas.
2. (6.2-1) 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)
5. Increased the size of SleepyCat cache pools to help prevent problems on heavily loaded systems.

4.7 Channels

1. (6.2-1) 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. (6.2-1) 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)
3. (6.2-1) Using the Directory Channel in Inline Mode will no longer infinitely loop when using `$M/$N` rewrite rules (D/E 9604)
4. Changed message priority determination to honor the channel keywords from intermediate channels such as the conversion channel. (D/E 8239)
5. Fixed a problem locating master channel option files if PMDF is installed on a drive other than C:. (D/E 8325) [Windows only]
6. Fixed a problem with strings in the pager channel acknowledgement message being truncated. (D/E 7186)

4.7.1 Conversion Channel

1. (6.2-1) 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. (6.2-1) 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)
3. (6.2-1) 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. (6.2-1) Fixed a problem in the conversion channel with environment variables not being deleted correctly from one message to another. (D/E 9202) [Solaris only]
5. (6.2-1) 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)

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6. The documentation for symbol substitution in conversion entries in the *PMDF System Manager's Guide*, Section 6.2.3.5, has been corrected.
7. Added symbols TYPE and SUBTYPE for the content type and subtype, which can be used for symbol substitution in conversion entries. (D/E 8499)
8. Added the ability to use Content-Disposition options such as FILENAME as symbols in conversions file entries. (D/E 8500)
9. 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).
10. 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]
11. 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)
12. 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]
13. 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)
14. Fixed a problem with discarded messages being sent through the conversion channel.

4.8 Dispatcher and Servers

1. (6.2-1) If you are having a problem on VMS with the MessageStore IMAP server not notifying IMAP clients of new mail, contact Process Software Technical Support for a workaround. This workaround should **NOT** be used by sites not experiencing this problem. (D/E 9514) [VMS only]
2. (6.2-1) 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)
3. (6.2-1) Fixed a problem with the legacy IMAP and POP servers' banners showing PST timezone if the PMDF_TIMEZONE logical was not defined. Now they correctly pick up the VMS system logicals to get the timezone. (D/E 9274) [VMS only]
4. Fixed a problem whereby the IMAP server could get into an infinite loop. (D/E 8440)
5. The dispatcher no longer shuts down a service (for example, POP) if it gets an error when accepting an incoming connection. (D/E 8293)

4.9 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. (6.2-1) 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)

4.11 LDAP Interface

1. (6.2-1) 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. (6.2-1) Fixed a problem that prevented PMDF from properly unbinding from the LDAP server. (D/E 8690)
3. (6.2-1) Fixed a problem that prevented PMDF from successfully performing multiple LDAP queries to the same LDAP server in rapid succession. (D/E 9179)

4.12 Mailbox Filters

1. (6.2-1) 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. (6.2-1) 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. (6.2-1) Fixed a problem on VMS with sending mail from a non-privileged account to a local account that has a vacation notice set up. (D/E 8925) [VMS only]
4. (6.2-1) Fixed a problem with an ACCVIO when trying to access the vacation notice history file. (D/E 8793) [VMS only]
5. (6.2-1) Fixed problems with the Vacation Notice History Files (VNHF files) getting locked on VMS and preventing mail from being delivered to users who have the vacation notice facility enabled. (D/E 8864) [VMS only]

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Mailbox Filters

6. 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.
7. Fixed a problem with specifying a non-standard header in the SIEVE header test in filter files. (D/E 8386)
8. 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)
9. 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)
10. 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)
11. Fixed a problem with the `body` command not correctly finding the string it was searching for. (D/E 7920)

4.12.1 Web Interface to Mailbox Filters

1. (6.2-1) The mailbox filters and vacation notice web interface have been modified to use JavaScript instead of Java applets for user interaction. Note that because of interaction issues with most browsers' JavaScript engines, use of the special characters ampersand (&), backslash, left angle bracket (<), and right angle bracket (>) is not supported. In addition, other special characters with ASCII values greater than 128 may not work properly. (D/E 8542)
2. Added the capability to specify phrases to search in the body of messages. This corresponds to the SIEVE `body` command. (D/E 8045)
3. 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)
4. 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)
5. 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)
6. Fixed a problem with authenticating to the `administrator` account on Windows platforms. (D/E 8342) [Windows only]
7. Fixed many problems with the web interface to filter files on Windows platforms. (D/E 7776) [Windows only]

4.13 Miscellaneous

1. (6.2-1) 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. (6.2-1) 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. (6.2-1) 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)
4. (6.2-1) 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)
5. (6.2-1) 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)
6. (6.2-1) A possible delivery loop on UNIX platforms has been fixed. The delivery loop could potentially happen if a "pmdf profile" method returned 75 (over quota) and the user had a `.forward` file with multiple recipients. (D/E 8099) [UNIX only]
7. (6.2-1) Fixed an `ACCVIO` in `pmdf dirsync/convert`. (D/E 8794) [VMS only]
8. (6.2-1) Dates have been added to the timestamps in all PMDF log files. (D/E 7183)
9. (6.2-1) 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. (6.2-1) 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. (6.2-1) Fixed a problem with generating the VMS `MAIL From` header when the SMTP `Reply-to` header contains an address which does not generate a useful VMS `MAIL` address. (D/E 9426) [VMS only]
12. (6.2-1) Improved the error reporting for `DELIVER`. (D/E 9497) [VMS only]
13. (6.2-1) Fixed a problem with the `USERNAME_TRANSLATE` option of the `security.cnf` file. (D/E 7367)
14. (6.2-1) Added the ability on VMS to distribute the queue directories across multiple disks, to improve performance and requirements for disk space. Queue directories for a given channel can be moved out of the `PMDF_QUEUE` area by defining a logical name for each channel to indicate the location of the queue directory for that channel. The logical's format is `PMDF_QUEUE_channel-name`. Note that if one of these logicals is added, removed, or modified, the customer must execute `pmdf cnbuild` to pick up the information. In order to enable the logical, you also have to put the "localdisk" channel keyword on the channel in `pmdf.cnf`. (D/E 8631) [VMS only]
15. Removed inaccurate word "list" from `[BLOCKLIMIT]` error message. (D/E 8377)
16. Fixed a problem with blank lines in mailing list files, for example in those created by `MAILSERV`. (D/E 8398)

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17. 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]
18. 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]
19. Fixed a problem with keywords in alias entries in the alias database. (D/E 8192)
20. 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)
21. Fixed a problem with using the reverse database for address reversal. It was not being applied correctly to Envelope From: addresses. (D/E 8034)
22. Fixed a problem with DirSync not finding its channel options file. (D/E 7909) [UNIX and Windows only]
23. Fixed a problem with 8-bit characters being included in Received: headers. (D/E 8334)
24. Fixed a problem that caused the FORWARD_FORMAT option in /pmdf/table/l_option files to be ignored. (D/E 9187) [UNIX only]

4.14 Pine

1. (6.2-1) Fixed a problem with PMDF PINE on OpenVMS where the default for delivery status notifications was incorrectly being set to NEVER. It has been changed to FAILURE, DELAY. (D/E 8845) [VMS only]
2. (6.2-1) Fixed a problem with memory corruption causing various errors like ACCVIOs and STACK OVERFLOW errors in Pine when bringing up a list of files, such as when using Control-T. (D/E 8790) [VMS only]
3. Fixed a problem with PMDF PINE hanging when trying to send mail. (D/E 7237) [Tru64 UNIX V5.1 and later only]

4.15 PMDF Mail

1. (6.2-1) Fixed REPLY/EXTRACT with regard to the /PART, /ENTIRE, and /MESSAGE qualifiers. It used to not look at any of these qualifiers for the purpose of deciding what parts of the message to extract. The old behavior was to extract a strange subset of parts, depending on what part you were looking at when you entered the REPLY/EXTRACT command. Now all of the qualifiers work as documented. The default is /PART. (d/e 8819) [VMS only]
2. (6.2-1) Fixed a security problem with PMDF MAIL. (D/E 8594) [VMS only]
3. 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]

4. 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]

4.16 popstore / MessageStore

1. (6.2-1) Fixed some problems when copying messages among subfolders using IMAP. (D/E 8530, D/E 8786)
2. (6.2-1) MessageStore and popstore accounts are now validated immediately, the same way that local VMS and UNIX accounts are validated. (D/E 8988)
3. (6.2-1) Fixed a problem with multiple versions of the `PMDF_ROOT: [MSGSTORE.DEFAULT] MAILBOXES.;` file being created. (D/E 8857) [VMS only]
4. (6.2-1) 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)
5. (6.2-1) Anonymous IMAP logins to the Message Store IMAP server now work. (D/E 9076)
6. (6.2-1) 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)

4.17 Security

1. (6.2-1) Modified the audit entry for failed login attempts through PMDF's SASL authentication. For the remote username, it now shows the IP address and port of the remote system as `a.b.c.d.port`. (D/E 9174) [VMS only]

4.18 Utilities

1. `pmdf test -rewrite` utility:
 - a. (6.2-1) A new option has been added to the `pmdf test -rewrite` command (`pmdf test/rewrite` on VMS): `-reprocessing (/reprocessing on VMS)`. 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 (/noreprocessing on VMS)` to turn it off. (D/E 8605)
 - b. (6.2-1) A small bug has been fixed that would generate LDAP debugging messages even when debugging wasn't specified. (D/E 9861)

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

Utilities

2. `log_condense` utility:
 - a. (6.2-1) 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)
3. `movein` utility:
 - a. (6.2-1) Fixed a problem with `movein` that could cause an ACCVIO/segfault. (D/E 9443)
4. `qm maint` utility:
 - a. (6.2-1) Fixed a problem with the parsing of the `clean` command's `/MIN_LENGTH` qualifier. If certain values are specified, followed by `/CONTENT`, `/ENV_FROM`, or `/SUBJECT`, the following error is displayed:
`%QM-E-NOSUBSTRING, at least one substring must be specified with /CONTENT, /ENV_FROM, or /SUBJECT`
(D/E 8956) [VMS only]
 - b. (6.2-1) Fixed a problem with `EDIT_FAX` not working properly in `QM MAINT`. (D/E 9533)
 - c. (6.2-1) Fixed a problem with the `CLEAN` command deleting far more than the intended messages. (D/E 8956) [VMS only]
5. `pmdf counters` utility:
 - a. (6.2-1) Fixed a problem on UNIX systems with the `pmdf counters -clear` command zeroing out the stored values, even if there are some stored messages. This causes those values to become negative as the stored messages are delivered. (D/E 7289) [UNIX only]
6. `pmdf cnbuild` utility:
 - a. (6.2-1) 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)
 - b. Fixed a problem looking up hostnames. (D/E 8437) [Tru64 only]
8. `tellme` utility:
 - a. Fixed a few minor bugs in `PMDF_COM:TELLME.COM`. (D/E 8013) [VMS only]
9. `pmdf qclean` utility:
 - a. Fixed an ACCVIO with the `pmdf qclean/content` command. (D/E 7638) [VMS only]
10. `circuitcheck` utility:
 - a. The `maximum_threshold` option has been implemented. (D/E 7744)
11. `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]

12. `pmdf msgstore` utility:

- a. (6.2-1) Fixed a problem with the `PMDF MSGSTORE` utility's `LOGIN` command. When run from a non-privileged VMS account, it would return the following error:

```
%MSGSTOREMGR-E-PDNOTVAL, user authorization failure; login attempt failed
```

This has been fixed. (D/E 9085) [VMS only]

4.19 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)

4.20 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]

4.21 PMDF-XGS

1. The PMDF-XGS component has been obsoleted.

4.22 PMDF-MB400

1. The PMDF-MB400 component has been obsoleted.

4.23 PMDF-LAN

1. (6.2-1) 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. (6.2-1) Fixed a problem that prevented PMDF-LAN from properly transferring messages to Novell GroupWise systems. (D/E 8698)

