

PMDF V6.1 Release Notes & Installation Gotchas, NT Edition

September 2001

This document lists the new features added and bug fixes made to V6.0 of the PMDF e-Mail Interconnect family of products to produce V6.1.

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Software Version: V6.1 of PMDF-MTA, PMDF-DIRSYNC, PMDF-LAN, PMDF-MSGSTORE, PMDF-POPSTORE, PMDF-TLS, PMDF-XGS

Operating System and Version: NT V4.0 SP5 or later (on Intel)

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1 Installation Gotchas for V6.1 PMDF for NT

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 [service@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.

Upgrade all SleepyCat databases

The format of all SleepyCat databases has changed since 6.0, including the queue cache database and the popstore / MessageStore user database (these were CRDB databases in 5.2 and earlier).

You MUST convert or rebuild all of these databases, otherwise PMDF will not work correctly.

Note: The steps to convert the databases have been automated in a program called `\pmdf\bin\upgrade_all_dbs.exe`.

See the installation guide *Post-Installation Tasks For Upgrades* section for a list of tasks which must be completed. Steps 1-4 in Install Guide section 1.5 can be accomplished by running `\pmdf\bin\upgrade_all_dbs.exe`. Due to time constraints it was not possible to document the new procedure in the Installation Guide for this release. This will be remedied in an upcoming release.

1.1 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.

For NT patches, move to the `pmdf_61_patches` subdirectory:

```
ftp> cd pmdf_61_patches
```

Patches will be located in this directory and under the `nt` subdirectory below.

2 Release Notes for V6.1 PMDF for NT

The following sections document the new features, new facilities, and bug fixes that have been added to V6.0 of the PMDF e-Mail Interconnect family of products to produce V6.1.

Highlights of the PMDF V6.1 release include:

- Process Software branding.
- The version of SleepyCat has been upgraded from 2.6.7 to 3.2.9.
- Bug fixes.

2.1 Process Software Branding

1. All web pages have been updating with Process Software banner and colors.
2. All documentation, installation output, and other text has been updated with the Process Software name and logos.

2.2 Installation

1. The NT kit can now be successfully installed on drives other than C: (for example D:). (D/E 7131)

2.3 Configuration

1. The limit of included files in a PMDF configuration has been raised from 1024 to 8192. Though we don't recommend that you use that many configuration files, PMDF V6.1 will allow it. (D/E 7011)

Release Notes for V6.1 PMDF for NT

SleepyCat databases

2.4 SleepyCat databases

Most of the Post-Installation Tasks related to SleepyCat databases in the Installation Guide have been automated in a program called `\pmdf\bin\upgrade_all_dbs.exe`. This procedure can be run in place of the steps found in the *PMDF Installation Guide, NT Edition*, Section 1.5, steps 1 - 4.

Note: THIS PROCEDURE, OR THE MANUAL STEPS, MUST BE RUN PRIOR TO STARTING PMDF.

1. Fixed a problem with a leak in the memory pool from the underlying database technology, causing errors like:

```
SCDB: Unable to allocate 16 bytes from mpool shared region:  
Not enough space
```

2. Fixed a problem whereby concurrent programs operating on a database may not see each other's updates. For example, if the aliases database is extended while PMDF is running:

```
# pmdf crdb -append newaliases.txt PMDF_ALIAS_DATABASE
```

then a currently executing TCP SMTP server would not see the updates if it had already consulted the alias database at least once.

Another example: if a MessageStore user was using the password database for authentication, but changed the password using the `pmdf password` command, the currently executing IMAP server would fail to see the update.

A restart of PMDF services would enable all new entries to be seen and used.

3. Fixed a potential problem with databases locking up.
4. Fixed a problem for huge databases.
5. Made some changes to cleanup after the underlying database technology more completely upon exit.
6. Fixed `queue_cache` database problems.

2.5 Channels

1. Fixed a bug with the `commentstrip` keyword whereby the enclosing parentheses were being stripped.
2. Fixed a problem where some of the values for the `missing_recipient_policy` option and the `missingrecipientpolicy` keyword were being ignored.

2.5.1 Conversion Channel

1. Fixed a problem in the conversion channel. The variables such as OUTPUT_TYPE and others were sometimes not being set correctly. (D/E 6892)
2. Fixed a problem with line wrapping on 7-bit messages.
3. Fixed a problem whereby the OUTPUT_DIAGNOSTIC value, if set, would not be used.
4. Fixed a problem whereby the OUTPUT_FILE would contain the incorrect information. Sites replacing a file infected with a virus, for example, would see that the OUTPUT_FILE would contain the infected file rather than the warning message which should have been copied in its place.
5. Fixed a problem whereby the conversion_tag parameter used in mailing list definitions was not being recognized.
6. Fixed a problem which occurs when a converter service procedure returns the exit status PMDF__FORCERETURN to bounce the message. Neither creating the 'output_file' or defining any of the OUTPUT_* job logicals or environmental variables (except for OUTPUT_DIAGNOSTIC) has any effect on the returned message. This makes it impossible for a converter procedure to effectively replace a message part in a returned message.
7. Fixed a problem so that the PMDF__FORCERETURN now bounces the message rather than "holding" it.
8. Changed default output mode when the output type/subtype is the same as the input type/subtype. Previously the output mode was set based on the input encoding in this case—base64 and similar encodings defaulted to block while quoted-printable, 7bit, and 8bit defaulted to text. With this revision, the output mode default is selected based on the type's entry in the name_content.dat file. If there is no entry for the type the mode now defaults to block for any binary-capable encoding, including quoted-printable.
9. Fixed a minor problem where conversion symbols written to the debug file would appear erroneous and strange but in reality the symbols were fine and only the debug output was impacted.
10. Fixed a problem where information from one part could leak into other areas when doing things like output_type='out_type'; in the conversions. file.
11. Fixed problem whose symptoms would include truncation of message parts, accvios and other undesirable behaviors.
12. Changed conversion to be smarter in the way it selects which encoding to use.
13. Conversion channel diagnostics are now saved in the diagnostics field of the various mail.log* files.
14. Made a change to prevent addrspfile from taking effect prior to the conversion channel.

Release Notes for V6.1 PMDF for NT Channels

2.5.2 Defragment Channel

1. Prevent potential crash of defragment when run under particular circumstances, for example from a post job.

2.5.3 Directory Channel

1. Added support for NO_MATCH_HOST option when doing LDAP lookups.
2. Fixed a database problem which affected the proper functioning of the directory channel.

2.5.4 Lotus Notes Channel

1. Fixed a problem whereby no date information would be passed into Lotus Notes; this could cause Lotus Notes to misfile the received messages into a Drafts folder rather than the Inbox.

2.5.5 Mailserv Channel

1. Fixed a problem whereby an alternate mailserv-reply address as specified via \$A in a MAILSERV_LISTS mapping would not be used on any "Your message was referred to <*\$moderator-address> for processing" messages sent back to the original requestor.
2. Enabled the \ as a continuation character in mailserv commands. This is useful for sites who have gateways that wrap longer command lines such as 3rd party subscriptions/unsubscriptions.

2.5.6 Pager Channel

1. Fixed a problem which would occur when trying to create a log file.

2.5.7 TCP/IP Channel

1. Fixed a problem whereby when the sendetrn keyword was used, the TCP/IP channel would not insert a space before the system name on the ETRN command it sent.

2.6 Dispatcher and Servers

2.6.1 POP and IMAP Servers

1. Fixed a bug which appeared when FORCE_KILL_TIMEOUT was not set and the dispatcher was in a shutdown state. The read timeout became 5 minutes, which in the case of the bug reported, with MAX_LIFE_CONNS=1, meant that the process went into shutdown state as soon as it got one connection, so that one connection's timeout became 5 minutes instead of the 30 minutes.
2. Fixed the bug when the TOP command did not work for the overquota message we generate on the fly.
3. Fix a security bug which could potentially allow an IMAP user read access to any file readable by a privileged group, and they could potentially create/corrupt files which are writable by a privileged group.
4. Fixed imap server for msgstore to generate an IMAP [ALERT] message when an overquota mailbox is selected for the first time. The IMAP spec requires clients to display such alerts to users, although some clients don't comply with the specification.

2.6.2 SMTP Server

1. Fixed a problem where the channel provided as a Dispatcher parameter option would not be used correctly for reading the channel option file nor for TLS-related channel keywords
2. Fixed an occasional tcp_smtp_server crash which generates a Dr. Watson file indicating a problem in POPSTORE_rewrite routine.
3. Fixed a problem which would cause the tcp_smtp_server to accvio. This was introduced in a patch to V6.0.

Release Notes for V6.1 PMDF for NT Dispatcher and Servers

2.6.3 SMTP Client

1. Fixed a problem whereby the SMTP client would wait ten times too long for a response from a failed connection.
2. Fixed a problem with looping tcp_smtp_clients, instances of lost sheader fields, and incorrect MIME encoding.
3. Fixed a problem whereby tcp_smtp_clients were staying around too long, appearing to hang.

2.7 Jobs

1. submit_master: Fixed a problem with priority range in submitted jobs.

2.7.1 Return Job

1. Fixed a problem to cleanup old *.data-failed files in the tcp_*/\spool directory.

2.8 Miscellaneous

The subsections below list additional new features added and bug fixes made to PMDF components.

1. Fixed a parsing problem with LDAP URLs in the alias file. (D/E 7059)
2. Fixed a problem with mailing list aliases equated with file specifications containing "\$". The alias lookup routines attempted to perform LDAP URL substitutions on the file spec, resulting in "file not found" errors when mail was sent to those aliases on VMS and NT, and a "Q" entry for the reprocess channel in mail.log on UNIX. (D/E 6885)
3. Fixed a bug in the PMDF configuration auto table resizing. This could cause aborts and mysterious symptoms after adding rewrite rules, channels, mappings, aliases, etc., to the PMDF configuration.
4. Fixed a serious bug whereby the new automatic table expansion code would fail to copy many/most pointers to alias entries, resulting in lost aliases, broken aliases, and possibly ACCVIOs on VMS, segmentation faults on unix, or Dr. Watson errors on NT.

5. Fixed a bug whereby a bogus error, which may contain 8-bit characters, would be given if someone issues a syntactically illegal VERB command.
6. Fixed a corruption problem whereby garbage could be appended to the end of messages. The problem involved the handling of temporary files.
7. Fixed a problem with enforcing mustsasserver when HELO/EHLO is omitted.
8. Allow matching on a parameter whose value was empty or null. For example this would be useful for matching during conversion on content-type and content-disposition type header with charset="" specified.
9. Fixed a problem where the postmaster addresses were not being handled in a case insensitive manner.
10. Fixed an addressing comparison problem where the last character in the local-part of an address was not being correctly compared and thus 2 addresses which were identical up to the last letter (such as ab_c@domain.com and ab_d@domain.com) were not correctly distinguished as unique.
11. Fixed a problem where numbered directories were appearing when they shouldn't.
12. Made a change that should reduce the number of .data-failed files being generated.
13. Fixed a problem whereby the wrong action was taken when a DNS error occurred.

2.8.1 Character Sets

1. Fixed a problem where the mode data structure wasn't being properly zeroed out prior to use which would cause various sorts of charset-conversion operations to fail (sometimes even causing accvios).
2. Fixed a problem with the call used on NT to create a subprocess during a charset-conversion.
3. Fixed a problem related to charset-conversion where the os_create_filename code wasn't working properly.

2.8.2 Format Conversion

1. Improved the handling of Sun-format message formats. PMDF is capable of converting from the non-standard message format used by some Sun applications to standard MIME message format (e.g., via a CHARSET-CONVERSION of YES). Sun changed their non-standard format at one point; this PMDF enhancement provides support for converting messages of the modified Sun-format, including support for the X-Sun-Content-length: header.

Release Notes for V6.1 PMDF for NT

Miscellaneous

2.8.3 Headers

1. Fixed a problem whereby the last character of a parameter on a MIME header could be lost, such as the last character of a CHARSET parameter.
2. Made an enhancement whereby Date: fields with invalid time zone information will simply be converted to GMT by PMDF.
3. Made an enhancement to work around Microsoft Outlook's buffer overflow security problem. Bogus Date: header fields will be replaced with a correct field and the bogus field will be used to generate a Date-Warning: header. Any other header fields of this sort that are illegal will simply be dropped. Sites wishing to process inner headers should use the "inner" channel keyword.
4. Fixed a problem whereby a null character was being appended to the authenticated from: address.
5. Fixed a problem whereby the REVERSE_URL option.dat option would not be applied to envelope From: addresses.

2.8.4 Log Files

1. In debug output, a line beginning with "Rewriting:" was not terminated correctly. This has been fixed. (D/E 6974)
2. Fixed a problem with mail.log and connection.log lines not being terminated correctly.
3. Fixed the size calculation of the message for the dequeue record in the mail.log_current file when BLOCK_SIZE=1 in the option.dat file.
4. Fixed a problem whereby the LOG_HEADER option in the option.dat file would not log the header in the mail.log* files.
5. Enhanced the format of the connection failure "Y" entries (written to the mail.log* or connection.log* file when the LOG_CONNECTION PMDF option is set appropriately). "Y" entries now include in the transport information field the IP address and port number of the remote SMTP server to which the connection attempt was made. And the application information field of "Y" entries is now formatted to match the format used for other sorts (e.g., "O" and "C") of entries. (Previously, "Y" entries omitted the transport information field entirely and instead showed application information using the vertical bar character where other sorts of entries would use the slash character.)

2.8.5 Mailbox Filters

1. Fixed a problem with the trim function, and also a problem with subscript expressions in parentheses. (Useful for dirsync sites.) (D/E 6807)
2. Individual user mailbox filters on the msgstore channel have been fixed. Note that they were broken in a patch to V6.0. (D/E 7163)
3. Made a change whereby not having a filter file will no longer be a problem if the keyword is present on the channel.
4. Fixed a problem whereby messages which should have been discarded because of mailbox, channel, or system-wide filter settings were being processed rather than discarded.

2.8.6 Mapping Tables

1. Fixed a problem whereby the port_access-info and application-info were not being used in FROM_ACCESS mapping table probes.
2. The NOTIFICATION_LANGUAGE mapping table probes now include the first recipient address.
3. Fixed a problem with the \$\$ MAILSERV_ACCESS flag not working.

2.8.7 Notification Messages

1. Fixed a problem in PMDF's notification message generation whereby in some cases PMDF wasn't propagating extended status codes received back out to the Status: field of the message/delivery-status part of the notification message.

2.9 popstore / MessageStore

1. MessageStore forward database entries can now be removed. (D/E 7142)
2. The MessageStore now handles the following types of messages correctly: multipart MIME messages with parts that either have no Content-Type or the Content-Type is MESSAGE/RFC822 with no blank lines. (D/E 7129,7136)

Release Notes for V6.1 PMDF for NT

popstore / MessageStore

3. Using the `pmdf popstore` or `pmdf msgstore` utility, it was previously not possible to use a wildcard to show accounts using a capital letter. This has been fixed so that the case of the input is preserved within the utility. However, there is still no way to do a case-insensitive wildcard search. (D/E 7045)
4. Made a fix to the `popmgr/popmgr.exe` command which will make the `pmdf popstore upgrade` command work if the customer has a site-supplied `MAP_PROFILE_FILENAME` routine which causes a user to be moved to a different disk on the naming style upgrade.
5. Fixed a problem whereby a bad date in the index file was not fixed by `reconstruct`, and would cause problems when later trying to access that message.
6. Made enhancements to `idxdump` whereby the columns are more aligned and also added the `-f` flag to show all fields.
7. Fixed several bugs in `afile_win32`, including the `reconstruct -m core dump` bug and a bug which could cause corruption of the mailbox list any time a user was created or deleted.
8. Fixed a problem where the quota usage wasn't being updated. Now when a `reconstruct user` or `reconstruct -r` is used, the quota usage will be updated correctly.
9. Fixed a problem where messages being delivered to multiple `msgstore` recipients would be merged together.
10. Found a problem with the `msgstore` files being set to world readable.

Sites who distribute their messages store files across multiple disk partitions will need to go change the protections on their existing files so they are no longer world readable. These are the `*_message` files themselves located in the user's `username.dir` directory under their `/pmdf/user/default/*` area.

For sites whose store is on a single partition (the common case), the file permissions will be correct. Only sites using a distributed messages store across multiple disk partitions will need to remove the world access permissions.

11. Fixed a problem when using `pmdf msgstore` to modify the password of a `msgstore` user who also exists in the NT system.

2.10 Utilities

1. The `pmdf sendutility` would not transfer files from the present working directory on NT. This has been fixed. (D/E 7021)
2. `pmdf purge` utility:
 - a. Fixed the hard-coded path in the program so that now it looks up the `PMDF_LOG` from the registry to get the log file path.
3. `pmdf counters` utility:
 - a. A "temporary failure on this recipient while succeeding on other recipient" occurrence—corresponding to `mail.log` "Z" records—will now get counted in the

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PMDF counters as an "Attempted" message, rather than as a "Failed" message as previously.

4. `pmdf db` utility:
 - a. Fixed a problem to eliminate garbage in output.
5. `pmdf crdb` utility:
 - a. Made some additional database fixes.
6. `migrate` utility:
 - a. Fixed a problem whereby migrate was using "/" instead of "n" in the folder names it created. This is due to a bug in migrate which only occurs when using the PMDF V5.1 VMS IMAP server as the source of the migration.
 - b. Fixed a problem whereby migrate was unable to access mailboxes.
 - c. Added a `-noinbox` flag to the migrate utility.
7. `pmdf convert` utility:
 - a. Fixed a bug whereby `pmdf convert` would produce an error on binhex files.
8. `qm` utility:
 - a. Fixed a problem whereby the command to release messages was not initializing PMDF and would result in `qm` aborting.
 - b. Fixed a problem whereby wildcards for channelnames were not being recognized.
9. `pmdf test` utility:
 - a. Fixed a problem whereby `pmdf test -rewrite` would not override file locations.
10. `pmdf send` utility:
 - a. Fixed a problem whereby an "unknown error message" error would be produced even though the message was properly sent and delivered.
11. `renamedb` utility:
 - a. Fixed a problem whereby using `pmdf renamedb` would give an error if the file already exists. The original file will now successfully be replaced.
 - b. `renamedb` now works differently on NT. There are two cases:

```
pmdf renamedb oldfilename newfilename
```

and

```
pmdf renamedb oldfilename symbolicname
```

It makes no difference whether `oldfilename` is a real filename (eg `d:/pmdf/table/test`) or a symbolic name (eg `PMDF_ALIAS_DATABASE`). It makes a big difference if the destination is a real filename or not.

If the destination is a real filename then the behavior is unchanged, and may fail if the destination is a database that is open.

If the destination is a symbolic name and the file cannot be removed, there is new behavior. For instance, if the destination is `PMDF_ALIAS_DATABASE` and the value of `PMDF_ALIAS_DATABASE` in the registry is `d:\pmdf\table\aliasesdb`

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and the file `d:\pmdf\table\aliasesdb.db` is in use, then the source file is renamed to `d:\pmdf\table\aliasesdb;1.db` and the value of `PMDF_ALIAS_DATABASE` is changed in the registry.

There is a bias to the base name (with no `;nn` suffix), but the code will use up to `;99` if there are 99 versions of the file in use.