

PMDF®-MR

for OpenVMS (VAX/Alpha)

Version 6.5

Overview

PMDF-MR is an optional, add on module to PMDF-MTA that connects PMDF to messaging systems that are based on Compaq's Message Router. PMDF-MR provides bidirectional access between Message Router and MAILbus agents such as ALL-IN-1 IOS, MailWorks (A1MAIL), MRX, MR/P, MR/S and the myriad of networks and mail systems reachable with PMDF.

PMDF-MR is also capable of acting as a replacement for the Message Router transfer service in conjunction with Message Router agents running on the same node. PMDF-MR's Message Router replacement facilities are supported for MailWorks and ALL-IN-1 on both VAX and AXP platforms. Hybrid configurations, where PMDF-MR both connects to Message Router as well as acting as a replacement for Message Router in conjunction with local agents, are also possible.

Addressing

PMDF-MR provides clean address mapping between the Message Router address space and Internet style, RFC-822 addresses. This ensures all mail is replyable and that users in a wide variety of environments, Message Router or Internet or other mail systems reached through PMDF, are able to address users in other environments using familiar address formats.

PMDF-MR and PMDF-MTA provide the tools to deal with significant addressing problems found in some messaging systems to which Message Router connects. Specifically, both the MR/P and MR/S gateways to messaging systems found on IBM mainframes, require that all users of these systems be registered. This presents a problem for a user of one of these systems who wants to send mail to a user on the Internet. There are millions of mailboxes on the Internet and it is unreasonable to expect that all mailboxes on the Internet be registered locally for use by these systems. The addressing channel of PMDF allows the users of such systems to direct mail to a single, pseudo mailbox and embed addressing information in the body of the message. PMDF extracts the addressing information from the body of the message and constructs a valid RFC-822 message.

SMTP/MIME Support

PMDF provides full support for the conversion of Message Router multipart messages to SMTP/MIME messages. This means that a MailWorks message with an embedded message containing a spreadsheet retains that structure when it is recast as an SMTP/MIME message. While all DEC bodyparts are supported PMDF-MR includes special support for DEC bodyparts 1 and 7. DEC bodypart 1 was used by early versions of ALL-IN-1/WordPerfect integration. PMDF-MR can be configured to tunnel these bodyparts,

or to convert them to MIME objects labeled with a content type of APPLICATION/WORDPERFECT5.1, or to convert them to text. DEC bodypart 7 is the typical way that MailWorks and ALL-IN-1 send binary attachments. PMDF-MR can be configured to convert these attachments into MIME objects, with content labeling based on the Message Router type, and to create a filename MIME parameter for use by mail systems that class attachments by file name rather than content-type.

Document Conversion

The document conversion facilities of PMDF-MTA can be used in conjunction with conversion facilities supplied with Message Router to convert WPS-Plus, DX, and WordPerfect documents automatically to ASCII text documents for delivery to users outside of Message Router.

Replacement for MRGATE

PMDF-MR is a complete replacement for Message Router's MRGATE and it offers two significant improvements in functionality over MRGATE. Using PMDF-MR instead of MRGATE to move mail between the Message Router environment and VMS mail results in simpler addresses. In addition, PMDF-MR provides full support for the transfer of binary attachments from the Message Router environment to the VMS Mail environment.

Support for Delivery and Read Receipts

PMDF-MR provides full support for read and delivery receipts generated by Message Router. This includes generating the appropriate SMTP header fields for any read/delivery receipts that are received from Message Router, generating Message Router Delivery/Read receipt requests from SMTP comment fields, and demoting read receipts to delivery receipts when messages are delivered to messaging systems that do not support read receipts.

Mailing Lists

ALL-IN-1 users frequently make use of mailing lists. The ALL-IN-1 style of mailing lists offers significant functionality in a pure ALL-IN-1 environment. PMDF mailing lists offer a rich set of features in addition to those available via ALL-IN-1 mailing lists and are especially important for lists that include users outside of ALL-IN-1.

The default behavior for PMDF mailing lists is to use the list name in the relevant address header fields instead of expanding the list to individual recipients. Suppression of the list of recipients is important for messages delivered to users outside of ALL-IN-1 because some of these messaging systems are not capable of handling the large headers that can be generated by expansion of large mailing lists.

The Core Features of PMDF...

- * Provides alias lookups on all channels
- * Offers simplified anti-relaying setup
- * Provides for the scanning of message headers using the SIEVE language to accept or reject a message
- * Incorporates the latest Internet standards for electronic messaging based on RFC-822
- * Includes the following Internet messaging servers: SMTP, POP, and IMAP
- * Provides the SMTP/MIME machinery for the receipt, storage, routing, and delivery of inter-personal and inter-application electronic messages
- * Provides the following facilities for dealing with addresses:
 - Addressing Channel
 - Aliasing
 - Directory Channel
 - Domain Rewriting Rules
 - Forward Mapping
 - Reverse Database
 - Reverse Mapping
- * Conforms to the latest MIME specifications as defined in RFC-2045 and RFC-2049, including the MacMIME specifications defined in RFC-1740 and RFC-1741
- * Includes the following channels:
 - Addressing
 - Alphanumeric Pager
 - Conversion
 - Directory
 - Disclaimer
 - MSGSTORE
 - Phonetnet
 - Pipe
 - SMTP
- * Supports authentication control using the Simple Authentication and Security Layer (SASL) technique defined in RFC-2222
- * Includes server implementation of the POP3 and IMAP4 server protocols
- * Provides MAILSERV, a combined mail and list server used to distribute files via e-mail and allow users to subscribe or unsubscribe from mailing lists
- * Includes an Application Programming Interface (API) allowing customers or third-party developers to create their own channels in or to address local integration issues

Hardware Requirements

PMDF-MR is supported on any VAX or Alpha hardware. It is not supported on I64 hardware.

PMDF-MR supports any valid OpenVMS configuration including standalone machines, OpenVMS clusters, and mixed-architecture OpenVMS clusters.

Software Requirements

- * PMDF-MTA v5.0 or higher
- * OpenVMS VAX/Alpha v6.1 or higher
- * Message Router v3.1 or higher
- * If WPS-Plus or DX is enabled then one of the following is required:
 - * MRGATE v3.1 or v3.2 savesets. (The savesets only are required. MRGATE is not installed, but the conversion software is extracted from the savesets for use by PMDF.)
 - * MR v3.3 and Compaq's CDA converter library
 - * If WordPerfect conversion is desired WordPerfect for OpenVMS is required.
 - * When used in Message Router replacement mode one of the following is required:
 - * ALL-IN-1 v3.1 or higher
 - * MailWorks v1.2 or higher

Services, Documentation, and Ordering Information

Technical Services

A highly acclaimed Technical Services program includes consulting, training, software maintenance, hotline support, and online resources—everything you need to keep your Process Software products and your network operating at peak efficiency.

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A comprehensive suite of programs is available on a host of topics, including PMDF installation and configuration, DNS setup and use, network security, troubleshooting, and others.

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You can find Frequently Asked Questions (FAQs) on the Tech Support web page on the Process Software web site (<http://www.process.com/tcpip/pmdf.html>).

Ordering Information

PMDF is shipped on CD-ROM.

Software Warranty

Process Software warrants all products for 90 days from the date of delivery.

About Process Software

Process Software is a premier supplier of infrastructure software solutions to mission critical environments. We deliver customer-centric and innovative IP-based technologies to our customers worldwide, and provide them with superior customer support and service.

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