

Internet Messaging for Windows, OpenVMS, Tru64 UNIX, Solaris, and Linux

PMDF offers:

- A proven and reliable messaging solution for organizations of all sizes
- Flexible design to meet your specific communications requirements
- Extensive features for secure communications
- Investment protection by supporting heterogeneous environments
- Monitoring tools to quickly identify and resolve problems
- Multiple platform support including Windows, OpenVMS, Tru64 UNIX, Solaris, and Linux
- Complementary to Exchange for advanced security and functionality

High performance standards-based Internet messaging product suite that ensures efficient and secure communications.



In today's fast-paced environment, organizations are being driven to deliver superior products and services more efficiently, against increased competition, while achieving this with smaller budgets. Accurate and timely communications are critical to success.

Messaging is the primary communication vehicle for dealing with customers, suppliers, business partners, vendors, and remote offices. Successful organizations and service providers demand a reliable and secure messaging backbone for effective communications. They require a flexible and scalable messaging product that can grow with their evolving needs.

PMDF is a high performance standards-based Internet messaging product suite that ensures efficient and secure communications. PMDF includes a complete cross-platform messaging solution

whether you're a small, medium, or large organization involved in e-business or *any* business.

For over 10 years PMDF products have provided reliable and secure messaging worldwide to Fortune 500 corporations, governments, universities, and organizations of all sizes. Process Software products incorporate leading-edge technologies and are backed by a dedicated customer support organization.

FLEXIBLE DESIGN ENGINE

PMDF has a functional modular design that can be customized to meet the growing needs of an organization. The PMDF-MTA (Message Transfer Agent) is the core product that serves as the

PROCESS™
SOFTWARE

messaging backbone (see Figure 1). It receives, stores, routes, and delivers messages. PMDF-MTA includes support for mail and directory standards such as SMTP (including SMTP extensions), MIME, POP3, IMAP, and LDAP. Modules can be added as well as mixed and matched to the core PMDF-MTA product to suit your organization's messaging requirements. A flexible channel architecture is integrated into the product set. As a result, these channels are more manageable and complement one another better than disjointed point-to-point solutions inherent in traditional gateway products.

INTELLIGENT MAIL FILTERING ENGINE

PMDF is a critical component of an organization's firewall implementation. A traditional firewall system controls what TCP/IP interactions are allowed between the external world considered to be unsafe, and an internal, protected environment, considered to be safe. PMDF augments the e-mail functionality of a traditional firewall by offering bulletproof SMTP server security. PMDF can act as an e-mail firewall by checking and controlling the e-mail passing between the internal and external environments. PMDF provides increased security over traditional firewalls with its intelligent mail filtering engine including the following features:

SPAM PROTECTION - PMDF provides spam protection through its extensive filtering capabilities

using Sieve, a standards-based filtering language. This provides granular control over mail filter processing. System administrators decide what kinds of mail messages are permitted to be delivered to mailboxes by filtering on per-user, per-channel, and system-wide rules. Enforcing restrictions on what messages are allowed in or out can also protect against denial-of-service attacks.

PMDF provides address verification facilities because spam messages often use invalid originator addresses. The PMDF SMTP server can take advantage of this by rejecting messages with invalid originator addresses. If the originator address does not correspond to a valid host name, as determined by querying the Internet Domain Name System (DNS), the message can be rejected.

PMDF ADD-ON MODULES

PMDF-MTA is the core product that serves as the messaging backbone. The following add-on modules allow you the flexibility to choose the components you require:

PMDF-POPSTORE - Message store for use with POP3 clients, such as Outlook and Netscape

PMDF-MESSAGESTORE - Central storage and management for IMAP clients and also supports POP3 clients, such as Outlook and Netscape

PMDF-TLS - Client-to-server encryption for e-mail network security

PMDF DIRSYNC - Synchronizes data contained in multiple disparate directories

PMDF-LAN - Interconnects all major PC LAN mail systems, including: Lotus cc:Mail, Microsoft Mail, and Novell GroupWise

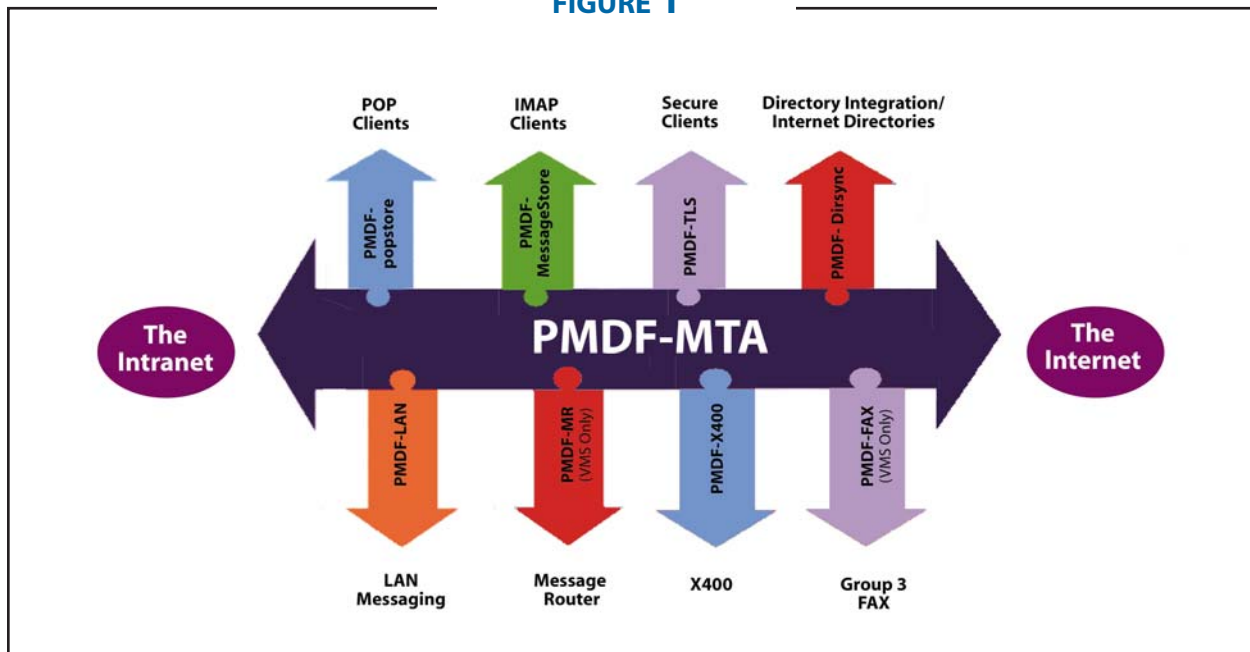
PMDF-MR - Integrates HP's VMS-only MAILbus products such as ALL-IN-1, TeamLinks, MAILworks, MR/S, MR/P, MRX, etc.

PMDF-X400 - Provides a direct link to X.400-based messaging systems

PMDF-FAX - Provides an e-mail to FAX gateway on OpenVMS only

Not only does PMDF's channel design deliver the flexibility you need, but PMDF-MTA also includes an Application Programming Interface (API) allowing you to address local integration issues by creating your own channels. Through the API, such channels have access to all of the PMDF-MTA core functionality.

FIGURE 1



The PMDF relay blocking feature prevents spammers from relaying mail through your system to other systems. Finally, PMDF supports blackhole lists such as the Mail Abuse Prevention System's Real-time Blackhole List (MAPS RBL) by rejecting mail coming from sources identified by them as originators of spam. MAPS RBL is a dynamically updated list of known spam sources identified by source IP address.

VIRUS PROTECTION - PMDF can filter message content in cooperation with popular virus scanning programs to control and prevent the proliferation of viruses. In addition, system-wide filters can be created with PMDF that will discard or quarantine messages that contain suspicious phrases.

LIMITING INFORMATION EXPOSED TO EXTERNAL NETWORKS - PMDF can limit exposing valuable internal information about your network to the outside world. With PMDF, system administrators can rewrite addresses into a central naming scheme and strip header information that is passed to external organizations. Removing this information makes your network an uninviting target for hackers.

EXTENSIVE SECURITY

Secure communications with remote offices, customers, vendors, or partners is critical for organizations. That is why PMDF provides a combination of leading standards-based authentication and encryption service options including Simple Authentication and Security Layer (SASL), Secure Socket Layer (SSL), and Transport Layer Security (TLS).

SASL is a method for adding authentication support to POP or IMAP logins and to SMTP message submission. It allows a site to implement a policy for how users authenticate access to messaging services based on their network location.

TLS encrypts the data stream between the client and the server to ensure secure communications between remote systems. TLS is backward compatible with SSL, and TLS is fully compatible with SSL-enabled clients. It is supported in the SMTP, POP, and IMAP servers with a maximum encryption of 2048 bits.

INVESTMENT PROTECTION

Real-world electronic messaging environments are frequently characterized by a heterogeneous col-

lection of networks, protocols, applications, and user communities. The challenge that a system administrator faces is managing many of these incompatible systems. As a messaging backbone server, PMDF protects the investment of your existing mail infrastructure by providing interconnectivity between disparate e-mail systems (see Figure 2). Interoperability options include:

- GroupWise (WordPerfect Office for PCs)
- Lotus cc:Mail (both PC and Macintosh)
- Lotus Notes (server on OS/2 or Windows NT)
- Microsoft Mail
- Any Novell MHS-based mailer
- X.400
- Message Router
- VMS Mail

Although a directory is not required for the operation of the PMDF messaging backbone, PMDF also provides access with any X.500 and LDAPv.3 (Lightweight Directory Access Protocol) compliant directories.

For organizations that have not standardized on one directory type, PMDF offers a fully automated, highly customizable solution for synchronizing data contained in multiple disparate directories. All major directory formats are supported including, LDAP, Lotus Notes, cc:Mail, Microsoft

“PMDF’s ability to massage and manipulate virtually every aspect of a mail message makes it a powerful tool for managing corporate e-mail.”

- Network Computing Review

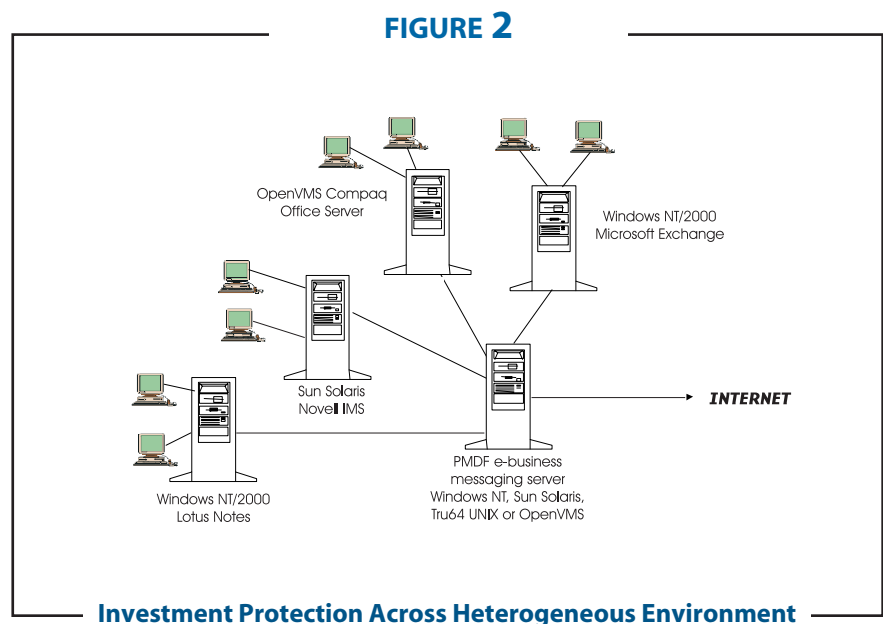
Exchange, HP’s ALL-IN-1, as well as both LDIF (the Lightweight Directory Interchange Format) and comma-separated flat files.

ADVANCED MONITORING REPORTING

PMDF has extensive monitoring and logging capabilities for troubleshooting and capacity planning. PMDF’s web-based interface makes it easy to monitor the health of your messaging system. The web interface can be customized.

It gives system administrators the option of using JavaScript for enhanced monitor viewing.

PMDF’s facilities to collect and monitor counters are based upon the RFC 1566 standard. Every action of the mail process that occurs is logged with a timestamp and date, from entry of a message into the mail system to its delivery. Reports can be customized according to the needs of your organization. For example, statistics are provided on how many messages



your company is receiving, when a message was sent or received, and load trends over time. Detailed user level activity reports and reporting of message types and sizes (including analysis of attachments) are also provided. The condensed logged data files can easily be exported to popular reporting packages for trend analysis.

RELIABLE MESSAGE HANDLING

Backed by years of experience at thousands of real-world installations, PMDF has zero tolerance for lost messages. Since not all messaging systems comply with IETF standards, PMDF deals with a wide range of non-standard address types and provides conversion capabilities to standardize and legalize messages in order to ensure delivery. For example, PMDF converts document attachments from non-standard format to MIME. To ensure message delivery, PMDF also converts standard headers or MIME attachments to something that can be handled by e-mail servers known to be non-standard.

PMDF gives incoming e-mail to virus scanners or document conversion software automatically. Also, document attachments can be received and read by users that may not have the same applications running on their computers. For example, a Word Perfect document can be converted to Microsoft Word and RTF format can be converted to text or Word.

PMDF v6.3 - FEATURES AT A GLANCE

SECURITY

- TLS and SSL support for data encryption between the client and server
- Simple Authentication and Security Layer (SASL), including plug-in for CRAM-MD5 and DIGEST-MD5 which provide password security
- Support for SIEVE, a standards-based filtering language (RFC 3028 and extensions)
- SMTP server relay blocking

COMPREHENSIVE MESSAGE HANDLING

- Access to generalized document conversion and virus scanning
- Granular access controls to subvert denial-of-service attacks
- High performance, proven multi-threaded architecture
- High performance spam filtering with SMTP message rejection of invalid directory channel recipients
- Complete support for IETF standards such as SMTP (SMTP extensions), POP and MIME
- Server implementation of POP3 and IMAP4 server protocols
- Mail list management tools including administrator functions and user self-maintenance options for mailing lists
- Application Programming Interface (API) for third-party development
- Clustering support for OpenVMS and TruClusters (Tru64 UNIX)

INTEGRATION

- Directory integration for both standards-based and proprietary directories. Standard directories include X.500 and LDAP
- Provides connectivity in a heterogeneous messaging environment. PMDF includes support for many message formats and legacy messaging software

MANAGEMENT

- Web-based management and user interface including vacation (out-of-office) notices
- Detailed message logging (including date and timestamps) and auditing which is customized by the system administrator
- Condensed logging files with data that can be easily exported for trend usage analysis

CLIENT

- Pine 4.44 and PMDF-MAIL clients included
- VMS and procmail user agents
- Support for any third-party standards-compliant client

PMDF - Internet Messaging

COMPLEMENTS MICROSOFT EXCHANGE AND OTHER COLLABORATIVE MESSAGING SOFTWARE

PMDF provides users with a critical set of Internet-based features that complement collaborative software solutions such as Microsoft Exchange and IBM Lotus Notes. While these collaborative solutions focus on user agent features such as calendaring, PMDF provides critical features

needed in a messaging backbone solution. For example, Microsoft's Security Operations Guide for Exchange 2000 Server published on their website recommends "to protect your Exchange back-end servers from SMTP attack by using a separate SMTP gateway inside your network." Using PMDF results in better e-mail security, increased flexibility with more comprehensive messaging handling features, and integration of directories and multiple mail systems.

FREE EVALUATION SOFTWARE!

Please call (800)722-7770 or (508)879-6994 to get your free evaluation copy of PMDF.

PREREQUISITE SOFTWARE AND HARDWARE

Please refer to the Software Product Descriptions on our Web site for each product's specific hardware and software requirements.

MEDIA

PMDF is available on CD-ROM.

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.

PROCESS SOFTWARE'S TECHNICAL SERVICES PROGRAM

Process Software's Technical Services Program has a well-deserved reputation for excellence. Services include network consulting, training, software maintenance, support, online resources, and 24-hour support—in short, everything you need to keep your Process Software products and your network operating at peak efficiency.

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