

Software Product Description

PRODUCT NAME: DEC MAILworks for DOS, Version 1.2

SPD 39.58.01

DESCRIPTION

DEC MAILworks for DOS is an electronic messaging application that implements the international messaging standards set by the CCITT X.400 P2 recommendations. It provides a means of exchanging messages and attached data with other users, and is a consistent user interface across heterogeneous desktop devices in a client/server implementation.

Layered on top of Digital Equipment Corporation's VAX Message Router (SPD 26.33.xx), DEC MAILworks for DOS interacts with all other MAILbus gateways and complementary products.

DEC MAILworks for DOS is a client/server implementation supporting Video Terminals, DOS¹ PCs, the Microsoft Windows™ Environment, Apple® Macintosh® PCs, DECwindows OpenVMS workstations, and other X11 display devices. DEC MAILworks for DOS represents an upgrade path for current users of Digital's VMS Personal Mail Utility (VMSmail), DECwindows VMSmail, or the PC Mail interfaces provided with the PATHWORKS product set.

DEC MAILworks for DOS was formerly named ALL-IN-1 MAIL. However, DEC MAILworks for DOS has no technical dependency whatever on the ALL-IN-1 integrated office product. It may be used entirely independent of that product. DOS and DECwindows clients which connect directly into the ALL-IN-1 integrated office system base and do not require the DEC MAILworks Server are also available. For more information, refer to the ALL-IN-1 DESKtop for DOS Software Product Description (SPD 50.20.xx) and to the ALL-IN-1 Services for DECwindows Software Product Description (SPD 33.22.xx).

Client software performs services for the user. This software usually resides on an intelligent desktop device and takes advantage of the processing power on the desk.

Clients are connected to the DEC MAILworks Server where local- and wide-area network delivery services are performed.

¹ For the purposes of this Software Product Description, IBM®'s Personal Computer Disk Operating System, Microsoft® Corporation's MS-DOS®, and COMPAQ® Computer Corporation's COMPAQ-DOS are referred to simply as DOS.

Transport between DEC MAILworks Servers and between DEC MAILworks and the other products in the DEC MAILworks product family is performed by the VAX Message Router. Optional gateways may also be connected to the VAX Message Router as needed for mail transfer in a multivendor environment. Refer to the Software Product Description for DEC MAILworks for OpenVMS (SPD 39.59.xx) for information on transport options.

A user might alternately use an intelligent workstation in the office, a video terminal at home, and a DOS laptop PC while traveling. Clients are provided for these three situations and others, all using the same user mailbox and files on the server.

DEC MAILworks adheres to the National Institute for Science and Technology (NIST) profile of 1984 CCITT X.400 recommendations. It provides a level of messaging service compatible with that of the electronic messaging subsystem of the ALL-IN-1 integrated office system, and adds new service elements defined in DEC MAILworks.

DEC MAILworks for DOS is a DOS character-cell implementation of the client software component of DEC MAILworks. It may be used on any configuration supported by PATHWORKS.

Features

Compatibility with VMSmail and PC MAIL

Users can migrate from the VMS Personal Mail Utility (VMSmail) or from PATHWORKS PC MAIL to DEC MAILworks for DOS. The interface is a logical extension of the PC MAIL interface, and commands and services in DEC MAILworks for DOS will feel familiar. Addresses and distribution lists used in VMSmail may be used in DEC MAILworks for DOS.

Messages in the existing VMSmail file cabinet on the server can be copied into the DEC MAILworks Server for OpenVMS file cabinet using the VT interface. Once copied into the DEC MAILworks file cabinet, they are visible from DEC MAILworks for DOS.

The use of OpenVMS logicals as nicknames is not supported from PCs. The Personal Address Book replaces this feature.

Messages can be exchanged with VMSmail on the same system or elsewhere in the DECnet network by means of the VAX Message Router VMSmail Gateway. This is included in the DEC MAILworks Wide Area Network Server Package or can be purchased as an option.

Compatibility with ALL-IN-1

Messages can be exchanged with the ALL-IN-1 integrated office system by means of the VAX Message Router using the same style of addressing.

The services of DEC MAILworks are compatible with services in the electronic messaging subsystem of ALL-IN-1. For example, receipt requests from either product are honored by the other. New features defined in the CCITT X.400 P2 recommendations may be implemented in stages by both products.

Distribution lists created in the ALL-IN-1 integrated office system can be used in DEC MAILworks. They work with the same restrictions found when sending a list to another ALL-IN-1 office system node. (Refer to product documentation for details.) Addressing strings used in the ALL-IN-1 office system work equally well in DEC MAILworks, with the exception of addressing strings which invoke ALL-IN-1's foreign protocol hook (those beginning with underscore).

X.400 Message Transport

Messages can be exchanged with other DEC MAILworks domains and services which meet international X.400 P2 conformance criteria. Conformance testing is being done in the United States and Europe.

In DEC MAILworks, each customer network is referred to as a "domain." Within a customer network, messages are transported by means of DECnet wherever DECnet is available. Transport to another vendor's X.400 service requires an OSI networking stack and the VAX Message Router X.400 (MRX) Gateway.

OSI message exchange requires at least one MRX Gateway in each Digital domain (usually one per customer network). Refer to the VAX Message Router X.400 Gateway Software Product Description (SPD 27.50.xx) for hardware/software requirements.

Supporting the Multivendor Environment

MAILbus offers a series of off-the-shelf gateways and a gateway development kit to create other gateways for message exchange with other vendors' proprietary mail systems. Refer to the appropriate Software Product Description for each product's hardware/software requirements.

Directory Services

DEC MAILworks uses Digital's Enterprise-wide Directory Service (DDS) as its user address directory. This distributed directory, available as part of the VAX Message Router, links DEC MAILworks, the ALL-IN-1 integrated office system, the gateways, and any other agents sharing its directory services.

Users can access the DDS directory while addressing a memo or creating an entry in their Personal Address Book (PAB). The PAB is an integral part of DEC MAILworks and is located in each user's personal mail account, or in the local file store on the intelligent client device. The user references a PAB entry by using its user-assigned nickname. Distribution lists may contain nicknames.

The DDS directory is a networking resource available only while the server connection is in place. If messages are created and addressed on a PC in the absence of the server connection, the user can still use locally stored nicknames and distribution lists, or type the full address string.

Distribution Lists

Distribution lists are simple text files stored in the user's mail area. These distribution lists can be shared among a group of users by using the OpenVMS Access Control facilities and PATHWORKS.

Distribution lists can be created and maintained inside the product, either by entering the list, or by capturing the header of a message as a list. A group distribution list's area can be defined on the system. Distribution lists that reside on OpenVMS can be expanded on the server for greater efficiency on the client.

Editors

The default editor is a simple text editor.

The DOS-based user can choose from a number of different Digital editors as well as third-party editors. Editors invoked using "command filename" from a DOS command file can be used under DEC MAILworks for DOS.

Editor implementation .BAT files are supplied for several PC editors written by third parties. These editor implementation files are provided on an "As Is" basis without warranty of any kind, either express or implied.

The user can attach any message, document, or file, including binary files.

On the PC, file conversion routines can be implemented using .BAT files to perform translation upon READ and EDIT.

Filing Services

DEC MAILworks provides a filing structure where messages are stored in folders, and folders are stored in drawers. The primary drawer is defined on the server. Optional drawers may also be created on the local DOS device or other filing structures available to the DOS PC.

Message Retrieval

Messages can be retrieved based on user specification of certain message header fields and filing structures.

File Formats

A number of different editors can be used with the DOS client. A variety of file formats come with these editors. DEC MAILworks is designed to handle various file formats with features that allow configuration for maximum readability of messages. The system allows for the automated handling of messages in ASCII, DDIF, WPS-PLUS, and DX and for invocation of other file formatting or conversion routines on DOS that conform to Digital's Compound Document Architecture (CDA), or to standard DOS conventions.

DEC MAILworks can be set to perform automatic conversions of message components as they are delivered, using optional OpenVMS-resident conversion services such as Digital's CDA Converter Library for OpenVMS (SPD 31.31.xx) or other third-party converters such as KEYpak® for VAX/VMS (SPD 32.71.xx). This is an additional-cost option. Users can register their file format preferences in the profile.

For advice on interchange of specific file formats, especially across gateways, consult your local Digital office.

There may be some difficulties exchanging DDIF documents with ALL-IN-1, Version 2.3. Contact your local Digital office for details.

Help

Users can get help for DEC MAILworks using the Help facility. Help provides basic information on how to perform the function in question without the user having to reference the documentation.

Printing

DEC MAILworks takes advantage of Digital's standard OpenVMS printing facilities provided under OpenVMS VAX and PATHWORKS for VMS. The user can specify the printer destination and options.

On-line Notification of New Mail

While connected to the Server, the user can choose to receive on-line notification of the arrival of new messages. The notification may be set to optionally contain the sender's name and/or the subject of the message.

Note

This feature works only during DECnet connection and TCP/IP LAN connections.

Messaging Functions

Users can create, read, and send messages using the commands provided. Messages can contain information in a variety of file format types including Digital's Document Interchange Format (DDIF) for compound documents.

Messages can be forwarded to another destination. Message attachments may include another message, a document or file, or even a binary file.

Answering a message is easy. The system automatically addresses the answer for transfer back to the original sender. The user can reply to the sender, all the original recipients, or to a reply-to list.

Messages can be addressed to one or more users at any valid MAILbus destination (e.g., VMSmail, ULTRIX mail, X.400, etc.) worldwide. File formats may possibly be modified by gateways or user agents in order to make the memo readable to the recipient. Not all file formats are handled by all gateways and user agents. Care should be taken in planning the network capabilities to ensure maximum readability of memos.

Notifications

Delivery and Receipt tags can be attached to a message. These tags cause a notification message to be generated and returned to the originator when the message is delivered or received.

Message Redirection

The user can request that all incoming messages be automatically redirected to a secondary address.

Priority-based Delivery

Users can choose priority for message delivery. The grade of delivery (express, first class, second class) can be specified. Other transport services are also available.

Message Classes

The user can set a number of indicators to give the recipient information about the nature of the message: Importance (high, medium, low), Sensitivity (not restricted, personal, private, company confidential).

Expiration dates may be applied to messages to help facilitate automatic removal over time.

In the Microsoft Windows Environment

DEC MAILworks for DOS will run as a character cell application from the DOS command prompt in Microsoft Windows, Version 3.0 and later. For details, refer to the System Support Addendum (SSA 39.58.01-x).

Memory Restriction for PCs

DEC MAILworks for DOS has been designed to be used on a broad range of PCs. For more information, refer to the System Support Addendum (SSA 39.58.01-x).

DEC MAILworks for DOS does not require extended or expanded memory. However, where extended memory has been installed, DEC MAILworks for DOS provides better performance.

Remote Access for PCs

PCs may connect to the DEC MAILworks Server in one of following ways:

- Over local area networks, connecting to the DEC MAILworks Server via DECnet
- Dialing in from remote locations by means of asynchronous DECnet
- Over local area networks, connecting to the DEC MAILworks Server via TCP/IP
- Asynchronous connection via LAT, X.25 PAD, or dial-up without benefit of DECnet

Where PCs are running PATHWORKS, DECnet connection is made between client and server using a DECnet object rather than a log-in. Thus, clients connected using PATHWORKS do not require log-in licenses on the DEC MAILworks Server node.

The DECnet dial-in point can be located anywhere within the wide area network. In order to become a network node, the PC user must do an OpenVMS login. Once the PC becomes a DECnet node, connection may then be made to the appropriate DEC MAILworks Server node.

Asynchronous service is less efficient than DECnet service. Asynchronous service requires each remote user to log into the server system. Therefore, it is necessary to have OpenVMS login licenses for each concurrently connected client on the DEC MAILworks Server node.

The PC user can choose to perform most functions without a live connection to the server. The user can connect, fetch messages, and disconnect. Messages can be read, filed, and answers prepared in the absence of the server connection. The user can then dial up, connect, and post all prepared messages at once.

System Management

Required local system management for the mail system is minimal and usually automated. A system manager or administrator is required to open a standard OpenVMS account; most routine functions can be performed by the users.

There are no special utilities to run for file cabinet maintenance. One or all user areas on the server can be backed up or restored using standard OpenVMS or PATHWORKS utilities. Management of the file structures available to the PC user are under the control of the user.

The mail management design adheres to the coordinated management system used by the MAILbus family of products. The DEC MAILworks Server provides a management utility which allows configuration changes to be made and the status of the mail system to be checked. Invoking this utility via the OpenVMS SYSMAN utility allows such operations to be managed centrally.

Internationalization

DEC MAILworks is designed to support multilingual operations. It can be deployed in a multilingual network and can support multilingual operations on a single server system. DEC MAILworks for DOS client software is language-specific.

For clients in other languages, refer to the following European Software Product Descriptions.

DEC MAILworks FRANÇAIS	SPD 26.J6.xx
DEC MAILworks ITALIANO	SPD 26.J7.xx
DEC MAILworks DEUTSCH	SPD 26.J8.xx

DEC MAILworks Documentation

Documentation of the installation, system management, and user procedures for the DOS client are included in the documentation kits.

Packaging

DEC MAILworks for OpenVMS is a layered software product which resides on OpenVMS. DEC MAILworks for DOS is a layered software product which resides on DOS.

HARDWARE REQUIREMENTS

PC configurations as specified in the System Support Addendum (SSA 39.58.01-x).

Refer to the DEC MAILworks for OpenVMS System Support Addendum (SSA 39.59.xx-x) for processor/hardware requirements for the Server.

SOFTWARE REQUIREMENTS

For the Client on the PC:

- Microsoft Windows
- MS-DOS, PC-DOS, or COMPAQ-DOS Operating System
- PATHWORKS for DOS
or
Asynchronous connection between client and server which will support Kermit file transfer (LAT, X.25 PAD, TYMNET®, etc.)

Note

Asynchronous service is less efficient than DECnet service. Asynchronous service requires that each remote user log into the server system. Therefore, it is necessary to have OpenVMS login licenses for each concurrently connected client on the DEC MAILworks Server node.

For the Server on OpenVMS VAX:

- DEC MAILworks for OpenVMS (SPD 39.59.xx)

DEC MAILworks for DOS will run as a character cell (non-Windows) application under Microsoft Windows, Version 3.1 in Standard and 386 Enhanced modes. It can run in a window or full-screen. The DOS extender version of DEC MAILworks is preferable in this configuration, not the version with overlays. The following software is required:

- MS-DOS or PC-DOS
- Microsoft Windows
- PATHWORKS for DOS (if desired) to support DECnet service between client and server

Refer to the System Support Addendum (SSA 39.58.01-x) for availability and required versions of prerequisite/optional software.

ORDERING INFORMATION

Operation of this product requires a DEC MAILworks Server and at least one DEC MAILworks Client.

Server Options:

Refer to the Software Product Description for DEC MAILworks for OpenVMS (SPD 39.59.xx) for ordering information.

DEC MAILworks for DOS:

Software Licenses: QL-VZ8AF-2B
Software Media: QA-VZ8AF-2B
Software Documentation: QA-VZ8AA-GZ
Software Product Services: QT-VZ8A*~**

* Denotes variant fields. For additional information on available licenses, services, and media, refer to the appropriate price book.

The above information is valid at time of release. Please contact your local Digital office for the most up-to-date information.

SOFTWARE LICENSING

This software is furnished under the licensing provisions of Digital Equipment Corporation's Standard Terms and Conditions. For more information about Digital's licensing terms and policies, contact your local Digital office.

License Management Facility Support

License units for DEC MAILworks for DOS are allocated on a Personal Use basis. Each Personal Use license allows one identified individual to use the layered product.

For more information about Digital's licensing terms and policies, contact your local Digital office.

SOFTWARE PRODUCT SERVICES

A variety of service options are available from Digital. For more information, contact your local Digital office.

SOFTWARE WARRANTY

Warranty for this software product is provided by Digital with the purchase of a license for the product as defined in the Software Warranty Addendum of this SPD.

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System Support Addendum

PRODUCT NAME: DEC MAILworks for DOS, Version 1.2 **SSA 39.58.01-A**

HARDWARE REQUIREMENTS

Processors Supported

Unless otherwise noted, the DEC MAILworks for DOS component runs on a 100 percent IBM®-compatible personal computer with a minimum of 640 KB of memory. PATHWORKS connection is supported on any valid configuration having a minimum of 640 KB of memory which is supported by PATHWORKS for DOS. Refer to the PATHWORKS for DOS Software Product Description (SPD 55.07.xx).

420 KB of free memory is required after loading PATHWORKS for DOS.

Processor Restrictions

Support for 8-bit characters is provided only on EGA and VGA machines.

For asynchronous support, a configuration which will support the extended version is highly recommended. If the overlaid version is used, a disk caching system to enhance performance is recommended.

Two versions of the image are provided; one which uses overlays and can be used on a PC with no expanded or extended memory, and another which uses the DOS extender and takes advantage of extended memory.

The DOS extender version may only be used on PCs that use the Intel™ 286/386 CPU with 640 KB of conventional memory and 1 MB of extended (not expanded) memory. Both versions have the same functionality; the DOS extender version will provide better performance.

A second pair of images is provided for asynchronous support, one using overlays and one using the DOS extender.

Disk Space Requirements

DEC MAILworks for DOS software can be stored either on the personal computer's local storage device or on the server system. The maximum disk space required during the installation of all DEC MAILworks for DOS software is 3.6 MB on a PC. Once installed, one version of the software occupies 1.8 MB of disk space.

Installed as a disk service on the VAX, the software requires 65,535 blocks on an OpenVMS disk, which is the size of a 5 meg disk service.

SERVER REQUIREMENTS

DEC MAILworks for DOS, Version 1.2 requires a DEC MAILworks for OpenVMS Server, Version 1.2 at a minimum. Refer to the DEC MAILworks for OpenVMS Software Product Description (SPD 39.59.xx) for specific requirements.

The DEC MAILworks Server delivers messages among all the users of any combination of the available DEC MAILworks clients who use this one server. Thus, all users on a single VAXcluster or on a single LAN may exchange messages via a single DEC MAILworks Server.

The VAX Message Router is required to exchange messages with users on other servers, or other electronic messaging products. It may be co-resident with the OpenVMS Server on the same node or VAXcluster, or may be installed on another node to centralize management. To communicate with VMSmail users, the Message Router VMSmail Gateway is also needed, co-resident with the Message Router. Refer to the DEC MAILworks for OpenVMS Software Product Description (SPD 39.59.xx) for a listing of optional transport and gateway components to extend the reach of your messaging system.

SOFTWARE REQUIREMENTS

For the Client on the PC:

- Microsoft® Windows™ V3.1 or later
- MS-DOS®, PC-DOS, or COMPAQ-DOS Operating System V3.3, V5.n or later
- PATHWORKS for DOS V4.1
or
Asynchronous connection between client and server which will support Kermit file transfer (LAT, X.25 PAD, TYMNET®, etc.)

Note

Asynchronous service is less efficient than DECnet service. Asynchronous service requires that each remote user log into the server system. Therefore, it is necessary to have OpenVMS login licenses for each concurrently connected client on the DEC MAILworks Server node.

For the Server on OpenVMS VAX:

- DEC MAILworks for OpenVMS V1.2 (SPD 39.59.xx)

DEC MAILworks for DOS will run as a character cell (non-Windows) application under Microsoft Windows, V3.1 in Standard and 386 Enhanced modes. It can run in a window or full-screen. The DOS extender version of DEC MAILworks is preferable in this configuration, not the version with overlays. The following hardware is required:

- MS-DOS or PC-DOS V3.3, V5.n or later
- Microsoft Windows V3.1
- PATHWORKS for DOS V4.1 (if desired) to support DECnet service between client and server

OPTIONAL SOFTWARE

- Editor of choice
- DOS-based converters or viewers as needed

GROWTH CONSIDERATIONS

The minimum hardware/software requirements for any future version of this product may be different from the requirements for the current version.

DISTRIBUTION MEDIA

RX24 (3.5-inch) hard-shelled diskettes

ORDERING INFORMATION

Operation of this product requires a DEC MAILworks Server and at least one DEC MAILworks Client.

Server Options:

Refer to the Software Product Description for DEC MAILworks for OpenVMS (SPD 39.59.xx) for ordering information.

DEC MAILworks for DOS:

Software Licenses: QL-VZ8AF-2B
Software Media: QA-VZ8AF-2B
Software Documentation: QA-VZ8AA-GZ
Software Product Services: QT-VZ8A*-**

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