Software Product Description

PRODUCT NAME: ALL-IN-1 MAIL, Version 1.0 **SPD 31.51.00**

DESCRIPTION

ALL-IN-1 MAIL is an electronic messaging application which 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), ALL-IN-1 MAIL interacts with all other MAILbus gateways and complementary products.

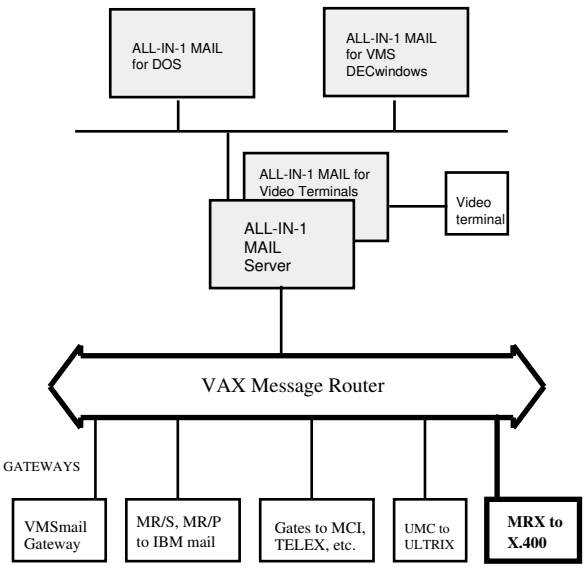
ALL-IN-1 MAIL is a client/server implementation supporting Video Terminals, DOS PCs and DECwindows VMS workstations. ALL-IN-1 MAIL represents an upgrade path for current users of Digital's VMS Personal Mail Utility (VMSmail), DECwindows VMSmail or the PC Mail interfaces provided with the DECnet/PCSA product set.

ALL-IN-1 MAIL has no technical dependency whatsoever on the ALL-IN-1 integrated office product. It may be used entirely independent of that product. DOS and DECwindows clients are also available which connect directly into the ALL-IN-1 integrated office system base, and do not require the ALL-IN-1 MAIL Server. These products are known as ALL-IN-1 DESKtop for DOS (SPD 50.20.xx) and ALL-IN-1 DESKtop for VMS DECwindows (SPD 31.80.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 ALL-IN-1 MAIL Server, through which local- and wide-area network delivery services are performed.

Transport between ALL-IN-1 MAIL Servers and between ALL-IN-1 MAIL and the other products in the ALL-IN-1 Phase II 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 multi-vendor environment.



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 all three situations, all using the same user mailbox and files on the server.

ALL-IN-1 MAIL conforms 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 ALL-IN-1 MAIL.

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Features

Compatibility with VMSmail

Users can migrate easily from VMSmail to ALL-IN-1 MAIL. The interfaces are logical extensions of the VMSmail interface and commands and services will be familiar. Addresses and distribution lists used in VMSmail can be used in ALL-IN-1 MAIL. From the VMS-resident clients, nickname logicals may be used. Most addresses used in VMSmail distribution lists may be used in ALL-IN-1 MAIL with similar restrictions as found when using such a list from another node. (See product documentation for details.) ALL-IN-1 MAIL does not support address strings which invoke a foreign protocol from VMSmail (e.g. PSI%).

No file cabinet conversion is required for either of the VMS-based interfaces. A one-time file cabinet conversion is required to make VMSmail messages available from the PC.

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 can be purchased as an option or is included in the ALL-IN-1 MAIL Wide Area Network Server Package.

Users can select an editor for use in ALL-IN-1 MAIL. Any editor which is called or spawned under VMSmail can be called or spawned from ALL-IN-1 MAIL. Editors which may be called from a .BAT file can be implemented under ALL-IN-1 MAIL for DOS.

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 ALL-IN-1 MAIL 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 ALL-IN-1 MAIL. They will work with the same restrictions found when sending a list to another ALL-IN-1 office system node. (See product documentation for details.) Addressing strings used in the ALL-IN-1 office system will work equally well in ALL-IN-1 MAIL, with the exception of those which invoke ALL-IN-1's foreign protocol hook (those beginning with underscore).

X.400 Message Transport

Messages can be exchanged with other ALL-IN-1 MAIL domains and services which meet international X.400 P2 conformance criteria. Conformance testing is going on in the United States and Europe.

In ALL-IN-1 MAIL, 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 Gateway (MRX).

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 Multi-Vendor 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 Software Product Description (SPD) for the appropriate products' hardware/software requirements.

Directory Services

ALL-IN-1 MAIL 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 ALL-IN-1 MAIL, 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 the ALL-IN-1 MAIL 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 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 VMS Access Control facilities and DECnet/PCSA.

Filing Services

ALL-IN-1 MAIL provides a filing structure of drawers and folders as well as access to RMS files. Filing services are similar in nature to VMSmail. The DOS client has the same filing structure of drawers and folders on the PC, and a drawer on the VMS server. The PC can also access files stored on the local DOS device.

Message Retrieval

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

File Formats

As detailed below, a number of different editors may be used with the various interfaces. With those editors comes a variety of file formats. ALL-IN-1 MAIL 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 that conform to Digital's Compound Document Architecture (CDA), or to standard DOS conventions.

For advice on interchange of specific file formats, especially across gateways, please consult with 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 ALL-IN-1 MAIL 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

ALL-IN-1 MAIL takes advantage of Digital's standard VMS printing facilities provided under VMS and VMS Services for PCs. The user can specify the printer destination and options.

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 for compound documents (DDIF).

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, or X.400 and so on) 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 insure maximum readability of memos.

Notifications

Delivery and Receipt tags can be attached to a message. These will 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 the priority at which a message is delivered. 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 which 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.

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 VMS 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 VMS or PCSA 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 ALL-IN-1 MAIL 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 VMS SYSMAN utility allows such operations to be managed centrally.

Internationalization

ALL-IN-1 MAIL is designed to support multi-lingual operations. It can be deployed in a multi-lingual network and can support multi-lingual operations on a single server system. For more information, refer to the System Support Addendum (SSA 31.51.00-x).

ALL-IN-1 MAIL Documentation

Documentation of the installation, system management, and user procedures is included with the individual kits. The Server media kit includes the software and installation instructions for the DECwindows and Video Terminals clients.

Packaging

ALL-IN-1 MAIL for Video Terminals, ALL-IN-1 MAIL for VMS DECwindows, and ALL-IN-1 MAIL Server for VMS are layered software products which reside on VMS. ALL-IN-1 MAIL for DOS is a layered software product which resides on DOS.

ALL-IN-1 MAIL for Video Terminals

ALL-IN-1 MAIL for Video Terminals looks very much like VMSmail, but communicates directly with the Message Router and uses a rich protocol which accesses the full range of messaging services. This client is co-located with the ALL-IN-1 MAIL Server. It provides ordinary terminals with the same access to the services of ALL-IN-1 MAIL. Because it shares the same server with the DOS and DECwindows clients, it can be used as a work at home alternative for users of those more capable desktop devices.

Compatibility with VMSmail

Users can migrate from the VMS Personal Mail Utility (VMSmail) to ALL-IN-1 MAIL for Video Terminals. The command-line interface is a logical extension of the VMSmail command interface, and commands and services in ALL-IN-1 MAIL for Video Terminals will feel familiar. Addresses, nickname logicals, and distribution lists used in VMSmail may be used in ALL-IN-1 MAIL for Video Terminals.

ALL-IN-1 MAIL for Video Terminals can locate and view messages in the existing VMSmail file cabinet, and copy them into the ALL-IN-1 MAIL file cabinet.

Editors

The default editor is a simple text editor.

The VMS-based user can choose from a number of different Digital editors as well as third party editors. Any editor which can be called or spawned from VMSmail can be called or spawned from ALL-IN-1 MAIL.

ALL-IN-1 MAIL for VMS DECwindows

ALL-IN-1 MAIL for VMS DECwindows is a DECwindows implementation of the client software component of ALL-IN-1 MAIL. It adheres to the DECwindows Style Guide and can be used either on a workstation, which is a member of the same Local Area VAXcluster as the server software, or remotely using an X11 display server device supported by Digital.

Access from Other Platforms

Since ALL-IN-1 MAIL conforms to the DECwindows standards, users of devices which have X-servers available can access the mail software. In this case, the message composition and storage activities are not handled on the desktop device but on the ALL-IN 1 MAIL platform. The windows display is handled by the desktop device. This feature provides access for additional desktop devices that conform to the DECwindows standards.

Compatibility with VMSmail and DECwindows VMSmail

Users can migrate from the VMS Personal Mail Utility (VMSmail) or DECwindows VMSmail to ALL-IN-1 MAIL for VMS DECwindows. The interface is a logical extension of the DECwindows VMSmail interface; commands and services in ALL-IN-1 MAIL for VMS DECwindows will feel familiar. Addresses, nickname logicals, and distribution lists used in VMSmail may be used in ALL-IN-1 MAIL for VMS DECwindows.

ALL-IN-1 MAIL for VMS DECwindows can copy messages from the existing VMSmail file cabinet into the ALL-IN-1 MAIL file cabinet.

Editors

The default editor is a simple text editor.

The DECwindows user can choose from a number of different Digital editors as well as third party editors. Editors that are called or spawned from DECwindows VMSmail can be called or spawned from ALL-IN-1 MAIL for VMS DECwindows, including such windows editors as DECwrite.

ALL-IN-1 MAIL for DOS

ALL-IN-1 MAIL for DOS is a DOS character-cell implementation of the client software component of ALL-IN-1 MAIL. It may be used on any configuration supported by DECnet/PCSA Client. The license for this client is bundled with DECnet PCSA Client for DOS, Version 3.0.

Compatibility with VMSmail and PC MAIL

Users can migrate from the VMS Personal Mail Utility (VMSmail) or DECnet PCSA's PC MAIL to ALL-IN-1 MAIL for DOS. The interface is a logical extension of the PC MAIL interface and commands and services in ALL-IN-1 MAIL for DOS will feel familiar. Addresses and distribution lists used in VMSmail may be used in ALL-IN-1 MAIL for DOS.

Messages in the existing VMSmail file cabinet on the server can be copied into the ALL-IN-1 MAIL server file cabinet using the VT interface. Once copied into the ALL-IN-1 MAIL file cabinet, they are visible from ALL-IN-1 MAIL for DOS.

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 that are invoked using "command filename" from a DOS command file can be used under ALL-IN 1 MAIL 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.

Memory Restriction for PCs

ALL-IN-1 MAIL for DOS has been designed to be used on a broad range of PCs. For more information, refer to the System Support Addendum (SSA 31.51.00-x).

ALL-IN-1 MAIL for DOS does not require extended or expanded memory. However, where extended memory has been installed, ALL-IN-1 MAIL for DOS provides better performance.

ALL-IN-1 MAIL cannot run under MS-Windows because of memory constraints.

ALL-IN-1 MAIL is unable to handle more than 100 TOs and 100 CCs in a given message due to memory constraints.

Remote Access for PCs

PCs may connect to the ALL-IN-1 MAIL Server in one of two ways:

- Over Local Area Networks, connecting to the ALL-IN-1 MAIL Server via DECnet,
  or
- Dialing in from remote locations by means of asynchronous DECnet.

The dial-in point can be located anywhere within the wide area network. 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.

HARDWARE REQUIREMENTS

VAX, MicroVAX, VAXstation and PC configurations as specified in the System Support Addendum (SSA 31.51.00-x).

SOFTWARE REQUIREMENTS*

For the ALL-IN-1 MAIL Server for VMS to support any or all of the clients and for ALL-IN-1 MAIL for Video Terminals:

- VMS Operating System
- DECnet-VAX

The ALL-IN-1 MAIL Server delivers messages among all the users of any combination of the available ALL-IN-1 MAIL clients who use this one server. Thus all users on a single VAXcluster, or on a single LAN, may exchange messages via a single ALL-IN-1 MAIL Server.

The VAX Message Router is required for exchange of messages with users on other servers, or other electronic messaging products. It must be co-resident with the VMS Server, on the same node or VAXcluster. To communicate with VMSmail users, the VMSmail is also needed. Gateway. Since the Message Router is packaged with the VMSmail Gateway, choose ONE of the following packages:

- VAX Message Router
  or
- VAX Message Router VMSmail Gateway

VMS Services for PCs is required on VMS to support the DOS client.

Most configurations will require Message Router, and all sites migrating from or interacting with a VMSmail product will require the VMSmail Gateway. The ALL-IN-1 MAIL Wide Area Network Server Package bundles together these underlying software components with the ALL-IN-1 MAIL Server at a favorably discounted price.

For the client ALL-IN-1 MAIL for VMS DECwindows on the workstation:

VMS Operating System and necessary components of VMS DECwindows. Refer to the System Support Addendum (SSA 31.51.00-x) for availability and required versions of prerequisite/optional software and for information regarding components of VMS DECwindows.

For the client ALL-IN-1 MAIL for DOS on the PC:

- MS-DOS®, PC-DOS or COMPAQ®-DOS Operating System
- DECnet PCSA Client for DOS
  or
- DECnet/PCSA Client: VAXmate

Refer to the System Support Addendum (SSA 31.51.00-x) for availability and required versions of prerequisite/optional software.

Country Component Software

For information on country-specific modifications to this product, refer to the System Support Addendum (SSA 31.51.00-x).

ORDERING INFORMATION

Operation of this product requires an ALL-IN-1 MAIL Server and at least one ALL-IN-1 MAIL client.

Server Options:

Choose one of the following server options:

ALL-IN-1 MAIL Server for VMS:

Software Licenses: QL-YCZ99-**
Software Media: QA-YCZA*-**
Software Documentation: QA-YCZAA-GZ
Software Product Services: QT-YCZA*-**

The media kit includes media and documentation for the server, and media only (no documentation or license) for the DECwindows and Video Terminals clients. See client listings for licensing information for these clients.

ALL-IN-1 MAIL Local Area Network Server Package:

This package is used in implementations where there is no requirement to exchange mail beyond a single server, or where the Message Router is already owned:

Software License and Media (TK50 only):
QB-YFTA9-AA
Software Product Services: QT-YCZA*-**

Includes license, media and documentation for ALL-IN-1 MAIL Server implemented on any single CPU.

ALL-IN-1 MAIL Wide Area Network Server Package:

This package is used in multi-server configurations, or where there is a requirement to interwork with another messaging product:

Software Licenses: QL-YFUA9-J*
Software Product Services: QT-YCZA*-**

Includes licenses for ALL-IN-1 MAIL Server, Message Router, VMSmail Gateway, and Message Router X.400 Gateway. Media and documentation update service for these components must be purchased separately depending upon which components will be implemented: See service offerings for ALL-IN-1 MAIL Server for VMS, plus one of the two gateway packages: Message Router VMSmail Gateway (SPD 26.33.xx) or Message Router X.400 Gateway (SPD 27.50.xx). Service on either gateway covers service for the Message Router itself.

Software Media: QA-YFUAA-**

Includes media and documentation for ALL-IN-1 MAIL Server, Message Router, and VMSmail Gateway. Media and documentation for the Message Router X.400 Gateway must be purchased separately.

Client Options:

ALL-IN-1 MAIL for VMS DECwindows:

Software Licenses: QL-VZ7A*-**
Software Media: included with server media
Software Documentation: QA-VZ7AA-GZ
Software Product Services: QT-VZ7A*-**

ALL-IN-1 MAIL for DOS:

Software Licenses: QL-VZ8AW-** (or packaged with DECnet PCSA Client for DOS)
Software Media: QA-VZ8A*-**
Software Documentation: QA-VZ8AA-GZ
Software Product Services: QT-VZ8A*-**

ALL-IN-1 MAIL for Video Terminals:

Software Licenses: QL-YHSA9-**
Software Media: included with server media
Software Documentation: QA-YHSAA-GZ
Software Product Services: QT-YHSA*-*

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

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

The VMS layered products support the VMS License Management Facility.

The ALL-IN-1 MAIL Server is licensed on a CPU-capacity basis.

The ALL-IN-1 MAIL Clients are licensed on a User/Activity basis.

The ALL-IN-1 MAIL Wide Area Network Server Package licenses its component products on a cluster-wide power rating basis.

For more information on the License Management Facility, refer to the VMS Operating System Software Product Description (SPD 25.01.xx) or the VMS Operating System documentation set.

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.

Note: 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 MS-DOS are referred to simply as DOS.

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