COMPAQ

Software Product Description

Product Name: MAILbus 400 Message Transfer Agent
**   for OpenVMS VAX, Version 2.0C**   **SPD 42.83.06**

PRODUCT DESCRIPTION

MAILbus 400™ Message Transfer Agent (MTA) for OpenVMS™ VAX™ is a layered software product that resides on an OpenVMS VAX system. MAILbus 400 MTA provides electronic messaging services in an open network environment. These services are used by messaging applications, such as user agents and gateways. MAILbus 400 MTA provides the electronic messaging services of an X.400 MTA, designed to conform to the 1992 CCITT series of recommendations and the 1988 joint CCITT and ISO Message Handling System Standards and their subsequent revisions. A messaging network based on MAILbus 400 MTAs can function as all, or part of, a Private Management Domain or Administration Management Domain.

MAILbus 400 MTA uses DECnet™-Plus for OpenVMS for OSI® protocol support, and DIGITAL™ X.500 Directory Service for directory services.

MAILbus 400 MTA operates over the OSI protocols, as supported by DECnet-Plus for OpenVMS. MAILbus 400 MTA can also operate over TCP/IP networks, using the RFC 1006 protocol, as supported by DECnet-Plus. The RFC 1006 protocol emulates the OSI Transport Service Protocol Class 0 over a TCP/IP network service.

MAILbus 400 MTA can communicate with:

- Another MAILbus 400 MTA

- A VAX Message Router™ X.400 Gateway

- Another vendor's X.400 MTA

MAILbus 400 MTA provides management services conforming to the COMPAQ Enterprise Management Architecture (EMA), integrated with DECnet-Plus. This provides local and remote management of MAILbus 400 MTA operation.

MAILbus 400 MTA supports an interface for messaging applications such as user agents and gateways. Access to this is provided by MAILbus 400 Application Program Interface.

MAILbus 400 MTA provides the following services to collect information about messages:

- Accounting services, to record particular items of information about messages.

- Archiving services, to retain complete copies of messages.

- Message history logging services, to record information about messages for tracing purposes.

MAILbus 400 MTA provides an Interpersonal Messaging Service (IPMS) bodypart conversion service, based on recipient capabilities registered in the directory. The set of bodypart converters provided with MAILbus 400 MTA provides a selected set of conversions between the following bodypart types:

- IA5

- Teletex

- ISO/6937

- General text (for ISO IR repertoires covering ISOLatin1, ISO/6937, and Teletex)

- DEC™ Multinational Character Set

- Message Router Text

- WPS–PLUS™

- DECdx™

MAILbus 400 MTA supports conversion between Externally Defined Bodyparts and File Transfer Bodyparts. In addition to providing conversion services, MAILbus 400 MTA supports transfer and receipt of any X.400 IPMS bodypart types, and non-IPMS content types.

MAILbus 400 MTA is typically used in conjunction with other COMPAQ-supplied messaging products, such as user agents and gateways. The following are examples of messaging products that can be used in conjunction with MAILbus 400 MTA to provide a complete messaging solution:

- DIGITAL Office Server—This is an office system solution providing a wide range of services and supporting a number of different messaging clients.

- MAILbus 400 Message Router Gateway for

  OpenVMS VAX – This provides a gateway between the X.400 environment and Message Router systems.

- MAILbus 400 SMTP Gateway for DIGITAL UNIX®— This is a messaging gateway providing connectivity between SMTP and X.400 environments.

- MAILbus 400 Message Store for DIGITAL UNIX— This provides message storage and submission services for users in an open network environment.

- DEC/EDI™ for OpenVMS—This provides a wide range of services to enable Electronic Data Interchange (EDI) between business applications.

- ISOGATE™ and ISOGATE Access Unit for cc:Mail®— These products together provide a gateway between MAILbus 400 MTA and the cc:Mail electronic mail system.

- ISOGATE and ISOGATE Access Unit for Microsoft® Mail—These products together provide a gateway between MAILbus 400 MTA and the Microsoft Mail for PC Networks electronic mail system.

- ISOCOR® X.400 Router for Lotus Notes®—This provides a gateway between MAILbus 400 MTA and the Lotus Notes environment.

CONFORMANCE TO STANDARDS

MAILbus 400 MTA is designed to conform to the 1992 CCITT X.400 series of recommendations. MAILbus 400 MTA is also designed to conform to the 1988 joint CCITT and ISO Message Handling System (MHS) standards, and the following revision documents:

- Revision of the CCITT 1988 X.400 Series of Recommendations

  — The MHS Implementor's Guide Version 10 of February 1993

- Revisions of individual parts of International Standard ISO/IEC 10021

  — Part 10021-1: Corrigenda 1, 2, 3, 4, 5, 6, and Amendment 2

  — Part 10021-2: Corrigenda 1, 2, 3, 4, 5, 6, 7, and Amendments 1, 2

  — Part 10021-4: Corrigenda 1, 2, 3, 4, 5, 6, 7, 8, and Amendment 1

  — Part 10021-5: Corrigenda 1, 2, 3, 4, 5, 6, 7

  — Part 10021-6: Corrigenda 1, 2, 3, 4, 5, 6, 7

  — Part 10021-7: Corrigenda 1, 2, 3, 4, 5, and Amendment 1

MAILbus 400 MTA is designed to conform to the International Standardized Profile ISO/IEC ISP 10611 Common Messaging (AMH1n), and to the International Standardized Profile ISO/IEC ISP 12062 Interpersonal Messaging (AMH2n).

MAILbus 400 MTA is designed to conform to the following regional profiles:

- The *Stable Implementation Agreements for Open Systems Interconnection Protocols, Version 7, Edition 1, December 1993,* set up by the Open System Environment (OSE) Implementor's Workshop (OIW).

- United States Government OSI Profiles (US GOSIP) V1.0, V2.0.

- United Kingdom Government OSI Profile (UK GOSIP) V4.1.

- CEN/CENELEC profiles ENV 41201, 41202, 41214

YEAR 2000 READY (Y2K)

MAILbus 400 Message Transfer Agent also becomes Year 2000 Ready with Version 2.0B release. Any two digit dates received by the MAILbus 400 MTA are interpreted as follows:

— Years "70" to "99" (inclusive) as "1970" to "1999" and

— Years "00" to "69" (inclusive) as "2000" to "2069".

MAILbus 400 MTA V2.0B will correctly process, calculate, compare and sequence date data from, into and between the twentieth and the twenty-first centuries, and the years 1999 and 2000, including leap year calculations, when used in accordance with the associated COMPAQ Product documentation and provided that all hardware, firmware and software used in combination

with such COMPAQ Products properly exchange date data with the COMPAQ Products.

HARDWARE REQUIREMENTS

Processors Supported

Any OpenVMS VAX configuration supported by DECnet-Plus for OpenVMS VAX, with the exception of those listed below, and provided the system has a minimum of 64 Mbytes of physical memory. See the DECnet-Plus for OpenVMS VAX Software Product Description (25.03.*) for further information on supported hardware configurations.

Processors Not Supported

MicroVAX™ I, VAXstation™ I, VAX–11/725, VAX–11/782, VAXstation 8000

Disk Space Requirements (Block Cluster Size = 1):

Disk space required for installation:	19800 blocks
Disk space required for use (permanent):	17800 blocks

These counts refer to the disk space required on the system disk. The sizes are approximate. Actual sizes may vary depending on the user's system environment, configuration, and software options.

CLUSTER ENVIRONMENT

This layered product may be installed on each node in any valid and licensed VMScluster™ configuration. Each node of a VMScluster can run one instance of MAILbus 400 MTA. Each MTA is independent and does not share workspace and operates as it would on an individual system.

VMScluster configurations are fully described in the VMScluster Software Product Description (29.78.xx) and include CI™, Ethernet, and Mixed Interconnect configurations.

SOFTWARE REQUIREMENTS

One of the following software configurations:

- OpenVMS VAX Operating System V6.2
  DECnet/OSI for OpenVMS V6.3 with ECO8
  DIGITAL X.500 Directory Service for OpenVMS (Base component) V3.0 (or later)

- OpenVMS VAX Operating System V7.1
  DECnet-Plus for OpenVMS V7.1 with ECO2, or later, including the DECnet Application Interface component (formerly known as the OSI Applications Kernel or OSAK™)
  DIGITAL X.500 Directory Service for OpenVMS (Base component), V3.0 or later

- OpenVMS VAX Operating System V7.2
  DECnet-Plus for OpenVMS V7.2, including the DECnet Application Interface component (formerly known as the OSI Applications Kernel or OSAK™, V3.0-003O
  DIGITAL X.500 Directory Service for OpenVMS (Base component) V3.0 (or later)

OPTIONAL SOFTWARE

- Office Server V4.0 or later provides an office solution with a wide range of services and supporting a number of different messaging clients

- MAILbus 400 Message Router Gateway V1.1 or later is required for communication with Message Router systems

- MAILbus 400 SMTP Gateway for DIGITAL UNIX V2.1 or later provides connectivity between SMTP and X.400 messaging environments

- MAILbus 400 Message Store for DIGITAL UNIX V1.2 or later provides message storage and submission services in an open network environment.

- DEC/EDI for OpenVMS V2.1 or later is required for Electronic Data Interchange services

- ISOGATE and ISOGATE Access Unit for cc:Mail are required for communication with cc:Mail systems

- ISOGATE and ISOGATE Access Unit for Microsoft Mail are required for communication with Microsoft Mail systems

- ISOCOR X.400 Router for Lotus Notes is required for communication with the Lotus Notes environment

OpenVMS Tailoring: The following OpenVMS classes are required for full functionality of this layered product:

- OpenVMS Required Saveset

- Network Support

- Programming Support

For more information on OpenVMS classes and tailoring, refer to the OpenVMS VAX Operating System Software Product Description (SPD 25.01.xx).

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

MAILbus 400 MTA is available as part of the DIGITAL CD-ROM Software Library for OpenVMS VAX Layered Products, part number QA-VWJ8A-H8.

ORDERING INFORMATION

Software Licenses: QL-04QA*-**
Software Documentation: QA-04QAA-GZ.2.0C
Software Product Services: QT-04QA*-**

* 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 Compaq Equipment Corporation's Standard Terms and Conditions. For more information about COMPAQ's licensing terms and policies, contact your local COMPAQ office.

License Management Facility Support

This layered product supports the OpenVMS License Management Facility.

License units for this product are allocated on an Unlimited System Use and Concurrent Use basis.

Each Concurrent Use license allows a specified number of messages to be processed by the MAILbus 400 MTA in a 24 hour period. If the number of messages processed by the MAILbus 400 MTA in a 24 hour period exceeds the number of messages for which the MAILbus 400 MTA is licensed, a warning message is output to inform the users that they are in breach of their licensing agreement. The MAILbus 400 MTA will continue to process messages even if the licensed number of messages is exceeded.

The MAILbus 400 MTA Unlimited System Use license imposes no restrictions on the number of messages that the MAILbus 400 MTA can process in a 24 hour period.

All licenses for the MAILbus 400 MTA allow the installation and use of the MAILbus 400 MTA base component on any OpenVMS VAX system operating an application that requires access to the MAILbus 400 MTA.

For more information on the License Management Facility, refer to the OpenVMS Operating System Software Product Description.

SOFTWARE PRODUCT SERVICES

MAILbus 400 MTA can participate in large distributed messaging networks, which may involve multiple vendors' systems in multiple locations. COMPAQ offers a number of consulting services to assist customers in the planning, installation, management, and integration of these messaging networks.

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

SOFTWARE WARRANTY

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

Warranty Limitations

Absolute fidelity between an original document and the resulting document after MAILbus 400 MTA has performed a bodypart conversion on a message is not guaranteed. The differences between the X.400 IPMS bodypart definitions are such that conversions can result in a change in the formatting or content of a message bodypart.

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