COMPAQ

Software Product Description

Product Name: MAILbus 400 Message Transfer Agent for OpenVMS VAX, Version 3.0 **SPD 42.83.07**

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 VAX for OSI® protocol support, and OpenVMS Enterprise Directory for eBusiness or Compaq X.500 Directory Services. Note that only with OpenVMS Enterprise Directory for eBusiness can all the new features of V3.0 be realised.

MAILbus 400 MTA operates over the OSI protocols, as supported by DECnet-Plus for OpenVMS VAX. 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 for OpenVMS VAX.

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 body-part types:

- IA5
- Teletex
- ISO/6937
- General text (for ISO IR repertoires covering ISOLatin1, ISO/6937, and Teletex)
- DEC™ Multinational Character Set
- Message Router Text

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- WPS–PLUS™
- DECdx™
- Upgrades body-parts from BP15 to FTBP

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

New Features and Capabilities in V3.0

- Secured deliver/Secured transfer to domain
- The ability of the system manager to secure distribution lists to ensure only those users specified can access the lists
- The system manager may now prevent the sending of messages exceeding a certain length, thereby alleviating the load on the MTA during peak times
- Generation of uniquely named FTBP attachments while upgrading from BP15 to FTBP
- The code is now compiled with Compaq DEC C
- Support for 256 parallel agent connections

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:

- Compaq Office Server—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 Compaq Tru64 UNIX®—This is a messaging gateway providing connectivity between SMTP and X.400 environments.
- Compaq/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 IBM/Lotus Notes®—This provides a gateway between MAILbus 400 MTA and the Lotus Notes environment.

CONFORMANCE TO STANDARDS

MAILbus 400 MTA for OpenVMS VAX is designed to conform to the 1992 CCITT X.400 series of recommendations and 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)and the following 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

HARDWARE REQUIREMENTS

Processors Supported

Any VAX system supported by DECnet-Plus for OpenVMS VAX, with the exception of those listed below, and provided the system has a minimum of 128 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 1, VAXstation 1, 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 V7.2, DECnet-Plus for OpenVMS V7.2, including the DECnet Application Interface component. Compaq X.500 Directory Service for OpenVMS (Base component) V4.0-25 or OpenVMS Enterprise Directory V5.0, V5.1 or V5.2.

  Note: Due to limitations in the Schema supplied with X.500 V4.0-25, not all features within V3.0 of the MTA are available with this version of the directory.

- OpenVMS V7.3, DECnet-Plus for OpenVMS V7.3, including the DECnet Application Interface. Compaq X.500 Directory Service for OpenVMS (Base component) V4.0-25 or OpenVMS Enterprise Directory V5.0, V5.1 or V5.2

  Note: Due to limitations in the Schema supplied with X.500 V4.0-25, not all features within V3.0 of the MTA are available with this version of the directory.

Note: No versions of X.500 or Enterprise Directory above V3.1 ship on OpenVMS VAX. Versions above V3.1 ship on OpenVMS Alpha and Tru64 UNIX.

OPTIONAL SOFTWARE

- Compaq Office Server V4.0a 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 for OpenVMS VAX V1.2 or later is required for communication with Message Router systems
- MAILbus 400 SMTP Gateway for Tru64 UNIX V2.1 or later provides connectivity between SMTP and X.400 messaging environments
- 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 VAX 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.**).

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 Compaq Software Library for OpenVMS VAX Layered Products, part number QA-VWJ8A-H8.

ORDERING INFORMATION

Software Licenses: QL-04QA*-**
Software Documentation: QA-04QAA-GZ.3.0
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 for OpenVMS VAX 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.

WARRANTY LIMITATIONS

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

SOFTWARE WARRANTY

This software is provided by Compaq with a 90 day conformance warranty in accordance with the Compaq warranty terms applicable to the license purchase.
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