



Software Product Description

**Product Name: MAILbus 400 Message Store
for DIGITAL UNIX, Version 1.2B**

SPD 51.22.04

PRODUCT DESCRIPTION

MAILbus 400™ Message Store for DIGITAL™ UNIX® is a layered software product that resides on a DIGITAL UNIX system. MAILbus 400 Message Store provides message storage and submission services for users in an open network environment. MAILbus 400 Message Store accepts delivery of messages and reports from the MAILbus 400 Message Transfer Agent (MTA) and stores them on behalf of the MAILbus 400 Message Store users. MAILbus 400 Message Store submits messages and probes on behalf of users to the MAILbus 400 MTA. MAILbus 400 Message Store users access the MAILbus 400 Message Store services using software products called Remote User Agents. Remote User Agents communicate with the MAILbus 400 Message Store using the Message Store access protocol, also known as the P7 protocol.

MAILbus 400 Message Store uses DECnet™/OSI® for DIGITAL UNIX for OSI protocol support, MAILbus 400 Message Transfer Agent for messaging services and DIGITAL X.500 Directory Service for directory services. WAN Support for DIGITAL UNIX is required for communication over X.25 networks.

MAILbus 400 Message Store interoperates with User Agents conformant to CCITT 1992 Recommendation X.413. MAILbus 400 Message Store communicates with User Agents over the OSI protocols, as supported by DECnet/OSI. MAILbus 400 Message Store can also operate over TCP/IP networks, using the RFC 1006 protocol, as supported by DECnet/OSI. The RFC 1006 protocol emulates the OSI Transport Service Protocol Class 0 over a TCP/IP network service.

MAILbus 400 Message Store provides management services conforming to the DIGITAL Enterprise Manage-

ment Architecture (EMA), integrated with DECnet/OSI. This provides local and remote management of MAILbus 400 Message Store operation.

CONFORMANCE TO STANDARDS

MAILbus 400 Message Store is designed to be conformant to the CCITT 1992 Recommendation X.413 and International Standard ISO/IEC 10021-5, and provides P7 protocol support in a 1992 X.400 Message Handling System.

MAILbus 400 Message Store implements the message content type specific functionality described in:

- CCITT 1992 Recommendation X.420 and International Standard ISO/IEC 10021-7 for interpersonal (IP) messaging
- CCITT 1991 Recommendation X.435 and International Standard ISO/IEC 10021-9 for electronic data interchange (EDI) messaging

MAILbus 400 Message Store does not support the Alert abstract operation or the auto-forward auto-action as defined in CCITT 1992 Recommendation X.413.

YEAR 2000 READY (Y2K)

MAILbus 400 Message Store also becomes Year 2000 Ready with its Version 1.2B release. Any two digit dates received are interpreted as follows:

- Years "81" to "99" (inclusive) as "1981" to "1999" and
- Years "00" to "80" (inclusive) as "2000" to "2080"

MAILbus 400 Message Store is specified as Year 2000 Ready and 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 DIGITAL Product documentation and provided that all hardware, firmware and software used in combination with such DIGITAL Products properly exchange date data with the DIGITAL Products.

HARDWARE REQUIREMENTS

Any Alpha processor supported by DIGITAL UNIX, provided the system has a minimum of 64 Mbytes of physical memory. The DIGITAL UNIX Software Product Description (41.61.*) contains a list of supported processors.

Disk Space Requirements (Block Cluster Size = 1):

Disk space required for installation: (9500 Kbytes)

Disk space required for use (permanent): (6000 Kbytes)

Recommended minimum space for message storage: (1000 Mbytes)

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.

SOFTWARE REQUIREMENTS

- DIGITAL UNIX Operating System V3.2C
DECnet/OSI for DIGITAL UNIX V3.2B
MAILbus 400 Message Transfer Agent for DIGITAL UNIX (Base and Mgt Subsets) V2.0
DIGITAL X.500 Directory Service for DIGITAL UNIX
- DIGITAL UNIX Operating System V3.2G
DECnet/OSI for DIGITAL UNIX, V3.2B
MAILbus 400 Message Transfer Agent for DIGITAL UNIX (Base and Mgt Subsets), V2.0A
DIGITAL X.500 Directory Server for DIGITAL UNIX (Base Subset), V3.0
- DIGITAL UNIX Operating System V4.0B with patches OSF410-400151 (44.00), OSF410-400196 (85.00), OSF410-400239-1 (136.01)
DECnet/OSI for DIGITAL UNIX V4.0A with dnaevld patched to 12-MAR-97
MAILbus 400 Message Transfer Agent for DIGITAL UNIX (Base and Mgt Subsets), V2.0A
DIGITAL X.500 Directory Server for DIGITAL UNIX (Base Subset), V3.1

- DIGITAL UNIX V4.0D
DECnet/OSI for DIGITAL UNIX V4.0A or later
MAILbus 400 MTA for DIGITAL UNIX (Base and Mgt Subsets) V2.0A or later
DIGITAL X.500 Directory Service for DIGITAL UNIX(Base Subset) v3.1, or later

OPTIONAL SOFTWARE

- WAN Support V2.0 or later for DIGITAL UNIX is required for communication over X.25 networks

GROWTH CONSIDERATIONS

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

MAILbus 400 Message Store performance depends upon the message traffic characteristics, for example, message size or number of recipients per message.

Each MAILbus 400 Message Store can support a maximum of 100 concurrent Remote User Agent connections. Once 100 concurrent connections are established all further connection requests will be refused until one or more Remote User Agents disconnect from the Message Store.

If the Message Store is licensed for unlimited system use, you may run multiple Message Stores per system. This does not imply improved message throughput as each Message Store will compete for finite system resources such as virtual memory, OSI Transport connections, cpu and disk space. Total system throughput will decrease with increasing number of Message Stores.

The following list enumerates other supported values. Higher values may be possible but are not guaranteed or supported.

- The maximum number of Message Stores per system is 20. This is subject to the aforementioned restrictions.
- The maximum number of information bases that can be maintained by each Message Store is 20,000. This may be further limited by available disk space.
- The maximum message size that can be submitted, delivered or retrieved is 12 MB. This may be further limited by available virtual memory and disk space.

- The maximum number of entries per Message Store is 200,000 entries. This may be further limited by available disk space.

Note: Operation of the MAILbus 400 Message Store at or close to several of the above stated maximum parameters at the same time will result in very poor performance. Care should be taken during system design and implementation that the parameters and their implication are fully understood. For example, operating the Message Store at 100 concurrent connections with a high proportion of messages at or near 12MB is not recommended as the resulting performance will be very poor.

DISTRIBUTION MEDIA

MAILbus 400 Message Store is available as part of the DIGITAL CD-ROM Software Library for DIGITAL UNIX layered products, part number QA-054AA-H8.

ORDERING INFORMATION

Software Licenses: QL-2F8A*-**
Software Documentation: QA-2F8AA-GZ.1.2B
Software Product Services: QT-2F8A*-**

* 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

This layered product supports the DIGITAL UNIX License Management Facility.

License units for the MAILbus 400 Message Store are allocated on an Unlimited System Use plus Concurrent Use basis. The concurrent license, QL-2F8AM-3B, entitles the user to operate a single instance of MAILbus 400 Message Store on a system. The unlimited system use license, QL-2F8A9-AA, entitles the user to operate multiple instances of MAILbus 400 Message Store on a system. The number of instances of MAILbus 400 Message Store that can be operated on a given system is subject to the restrictions listed in the the "Growth Considerations" section.

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

SOFTWARE PRODUCT SERVICES

MAILbus 400 Message Store can participate in large distributed messaging networks, which may involve multiple vendors' systems in multiple locations. DIGITAL 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 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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