

# Software Product Description

PRODUCT NAME: DECmessageQ for MS-DOS®, Version 2.0

SPD 34.06.01

## DESCRIPTION

DECmessageQ for MS-DOS is the MS-DOS release of the DECmessageQ message queuing bus software. It implements a subset of the DECmessageQ application programming interface that provides easy-to-use, efficient, task-to-task communications among VMS, ULTRIX, OS/2®, Macintosh®, and MS-DOS processes.

A common call interface allows messages to be delivered to processes attached to the DECmessageQ queue bus. Applications can be designed so program modules can be redeployed easily anywhere within the network, whether in a standalone node, a Local Area Network (LAN), or a wide area network.

The DECmessageQ for MS-DOS communication implementation is designed for ease-of-use, expandability, and efficiency. Its features include:

- Remote message delivery via DECnet-DOS
- Message sizes up to 32,000 bytes
- Message broadcasting using Selective Broadcast Services (SBS)
- Message capture facility for use in application testing
- Set of message delivery options
- Language support for C and Borland C++®
- Support for MS®-Windows™ V3.x
- Portable call interface
- Connectivity to DECmessageQ implementations on VMS, ULTRIX, OS/2, Macintosh, and MS-DOS

### *DECmessageQ Queues*

DECmessageQ for MS-DOS provides a DECmessageQ Primary Queue. Each process that attaches to the DECmessageQ message queuing bus is assigned a Primary Queue. This queue is used to receive messages from other DECmessageQ processes.

### *Selective Broadcast Services (SBS)*

Selective Broadcast Services provide a conceptual broadcast stream of data. In this broadcast stream, any process can insert a message. Any process can select messages from this broadcast stream for delivery. Messages can be selected using a set of selection rules that provide relational comparisons against DECmessageQ header information or user's message data information. An MS-DOS process uses DECmessageQ to send and receive broadcast messages via the services on a DECmessageQ for VMS SBS Server.

### *Microsoft Windows*

DECmessageQ for MS-DOS provides static link libraries for use in developing "Class A" (window-based) applications with Microsoft Windows, Version 3.0 at a minimum. Applications developed using the DECmessageQ for MS-DOS Windows support libraries will operate in the REAL, STANDARD, and ENHANCED modes of Microsoft Windows.

### *Delivery Options*

DECmessageQ for MS-DOS provides a set of delivery options:

- Datagram — A non-recoverable attempt is made to deliver a message.
- Wait for enqueue — The sending process will block until the message is written to the target queue. A return status will indicate whether the queue exists and is under quota.
- Store-and-Forward — This mode will journal messages that cannot be delivered due to a communication fault, or the unavailability of the destination queue.

### *DECmessageQ Scripts Facility*

DECmessageQ scripts facility can be used to capture messages that are sent or received from a process. These messages can be displayed on the output device or collected in a disk file. The messages are written to an ASCII file using the DECmessageQ scripts syntax.

*Communication Link Failover*

Link failover will occur automatically on link startup or during transmission. It will cause DECmessageQ for MS-DOS to try to re-establish the link to the PRIMARY DECmessageQ for VMS host specified in the configuration file. If that fails, the SECONDARY host is attempted. If the link is successfully re-established, the DECmessageQ for MS-DOS processing continues transparently.

**HARDWARE REQUIREMENTS**

DECstation 200, DECstation 210, DECstation 212, DECstation 212LP, DECstation 220, DECstation 300, DECstation 316, DECstation 316+, DECstation 316sx, DECstation 320, DECstation 320+, DECstation 320sx, DECstation 320sx Notebook, DECstation 325, DECstation 325c, DECstation 333c, DECstation 350, DECstation 425, DECstation 425c, DECpc 222, DECpc 333, DECpc 333 Portable, DECpc 433 Workstation, DECpc 433T, or other 100-percent IBM®-compatible PC.

*Disk Space Requirements:*

Disk space required for installation and use (permanent):                      3.3 Mbytes

This count refers to the disk space required on the system disk. The size is approximate; actual size may vary depending on the user's system environment, configuration, and software options.

**SOFTWARE REQUIREMENTS**

- MS-DOS V3.3, at a minimum
- PATHWORKS for DOS V4.0 - V4.1 at a minimum
- Microsoft® C V6.0 (for program development)

or

Borland C++ V2.0 (for program development)

**Note:** A valid DECmessageQ for VMS configuration is required within the network to utilize DECmessageQ for MS-DOS.

DECmessageQ for MS-DOS requires the DECnet component of PATHWORKS. See the PATHWORKS for DOS Software Product Description (SPD 55.07.xx) for more information regarding PATHWORKS for DOS requirements.

**ORDERING INFORMATION**

Software License: QL-GHRAW-AA  
 Software Media: QA-GHRAA-H\*  
 Software Documentation: QA-GHRAA-GZ  
 Software Product Services: QT-GHRA\*-\*\*

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