



# Software Product Description

**PRODUCT NAME: HP Distributed Queuing Service for OpenVMS  
SPD 28.80.06**

## DESCRIPTION

This Software Product Description describes the following Versions of Distributed Queuing Service for OpenVMS (DQS):

- HP DQS for OpenVMS on Integrity servers Version 1.3-2
- DEC DQS for OpenVMS Alpha Version 1.3
- DEC DQS for OpenVMS VAX Version 1.3

The standard OpenVMS queue system enables users to use the OpenVMS PRINT command to print files on output devices that are attached to the users local OpenVMS node.

The HP Distributed Queuing Service (DQS) uses the DECnet networking system to extend the standard OpenVMS queue system to enable users to:

- Print jobs on printers connected to systems other than their own
- Show the status of jobs on those systems
- Cancel their jobs on those systems
- Change the specifications of their jobs on those systems

Any node where a print request originates is called a client. Any node with an attached printer that performs the printing is called a server. Any node with DQS software can be configured to operate as only a client or as both a client and a server. The DQS software does not limit the number of client or server nodes or queues. The system manager creates the queues and establishes the correspondence between client queues and queues on server nodes. A queue on a server node can accept jobs from queues on multiple client nodes.

## Features

The following is a summary of features available in the hp Distributed Queuing Service software:

- Provides an easy means of printing from systems that do not have printers.
- The DQS software can be used in any DECnet networking environment. Both Local Area Networks and Wide Area Networks are supported. DQS supports DECnet Phase V fullname functionality.
- The DQS software allows multiple OpenVMS systems to share expensive or unique printers.
- The DQS software does not limit the users choice of printing equipment as it can work with standard OpenVMS symbionts and most user-written or user-modified symbionts.
- Provides completely transparent support for the following qualifiers of the OpenVMS PRINT command:

/BACKUP	/BEFORE	/BURST
/BY_OWNER	/CONFIRM	/CHARACTERISTICS
/COPIES	/CREATED	/DEVICE
/EXCLUDE	/EXPIRED	/FEED
/FLAG	/IDENTIFY	/JOB_COUNT
/LOWERCASE	/MODIFIED	/NAME
/NOTE	/QUEUE	/REMOTE
/RESTART	/PAGES	/PASSALL
/SETUP	/SINCE	/SPACE
/TRAILER	/USER	

All other OpenVMS PRINT qualifiers are supported, with slight differences that reflect the distributed environment of DQS.

- If the DQS server is temporarily inaccessible when a print command is issued, the DQS client will attempt to transfer the job for printing after the DQS server again becomes available.
- If a printer becomes unavailable, the corresponding DQS server queue can be configured to direct print jobs to a different DQS server queue.
- The DQS software can send notification to the user after a print job has been completed.
- Additional queues can be added and queue attributes changed without reinstalling the DQS software.
- Additional DQS nodes can be added to an existing network of DQS nodes without reinstalling the software on the existing nodes.
- The DQS software can be configured to limit access to servers.
- The DQS software can be configured to keep records of use.
- The DQS commands can be used on non-DQS queues.

## HARDWARE REQUIREMENTS

### *Systems Supported:*

DQS runs on Integrity server, AlphaServer, and VAX systems supported on OpenVMS. For a detailed list of systems supported on OpenVMS, refer to the *HP OpenVMS Operating System for Alpha Version 7.3-1 and 7.3-2 and VAX Version 7.3 Software Product Description* (SPD 25.01.xx) or the *HP OpenVMS Version 8.3 for Alpha Integrity Servers Operating Systems Software Product Description* (SPD 82.35.xx)

### *Processor Restrictions:*

An Ethernet connection is required for each processor that uses the DQS. That processor must support the Ethernet boards supported by DEcnet for OpenVMS.

### *Disk Requirements (Block Cluster Size = 1):*

The following counts refer to the disk space required on the Integrity server system disk. Notice that the sizes listed are approximate; actual sizes may vary depending on your system environment, configuration, and software options.

Disk space required for installation: 3,700 blocks  
(1.9 Mbytes)

Disk space required for use (permanent): 3,400 blocks  
(1.7 Mbytes)

The following counts refer to the disk space required on the Alpha system disk. Notice that the sizes listed are approximate; actual sizes may vary depending on your system environment, configuration, and software options.

Disk space required for installation: 4,500 blocks  
(2.3 Mbytes)

Disk space required for use (permanent): 2,300 blocks  
(1.2 Mbytes)

The following counts refer to the disk space required on the VAX system disk. Notice that the sizes listed are approximate; actual sizes may vary depending on your system environment, configuration, and software options.

Disk space required for installation: 2,700 blocks  
(1.4 Mbytes)

Disk space required for use (permanent): 1,300 blocks  
(.7 Mbytes)

## SOFTWARE REQUIREMENTS

DQS for OpenVMS Version 1.3-2 supports OpenVMS for Integrity servers Version 8.2.

DQS for OpenVMS Version 1.3-1 supports OpenVMS Alpha Versions 8.3, 8.2, and 7.3-2.

DQS for OpenVMS Version 1.3 supports OpenVMS VAX Version 7.3.

### *OpenVMS Tailoring:*

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

- OpenVMS Required Saveset
- Network Support
- Secure User's Environment

For more information on OpenVMS classes and tailoring, refer to the *HP OpenVMS Operating System for Alpha Version 7.3-1 and 7.3-2 and VAX Version 7.3 Software Product Description* (SPD 25.01.xx) or the *HP OpenVMS Version 8.3 for Alpha Integrity Servers Operating Systems Software Product Description* (SPD 82.35.xx)

## SOFTWARE LICENSING INFORMATION

This software is furnished under the licensing provisions of Hewlett-Packard's Standard Terms and Conditions.

## LICENSE MANAGEMENT FACILITY SUPPORT

This layered product supports the OpenVMS License Management Facility (LMF).

License units for this product are allocated on an Unlimited System use basis. Each Unlimited Use License allows any number of individuals to use HP DQS at the same time. The OpenVMS VAX product uses a cluster-wide license; the OpenVMS Alpha and Integrity server products use a traditional license.

For HP OpenVMS Integrity:

Each Per-processor Core (PCL) License allows any number of individuals to use HP GKS at the same time, with one PCL license required for each processor core running OpenVMS.

For further details on the License Management Facility, refer to the OpenVMS Operating System Software Product Description (SPD 82.35.xx) or the OpenVMS Operating System documentation. To obtain more information about the HP licensing terms and policies, contact your local HP office.

## CLUSTER ENVIRONMENT

This layered product is fully supported when installed on any valid and licensed VMScluster\* configuration. The *HARDWARE REQUIREMENTS* sections of this product's Software Product Description detail any special hardware required by this product.

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

## GROWTH CONSIDERATIONS

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

## ORDERING INFORMATION

### Licenses

License types vary by platform.

HP OpenVMS Alpha Licenses	
DQS Alpha Traditional License	QL-0HPA*-AA <sup>1</sup>
DQS Alpha Traditional Update License	QL-0HPA*-RA <sup>1</sup>

<sup>1</sup>Asterisk denotes system tier. E=workgroup tier, G=departmental tier, Q=enterprise tier.

HP OpenVMS VAX Licenses	
DQS VAX Traditional License	QL-VENA*-AA <sup>1</sup>
DQS VAX Traditional Update License	QL-VENA*-RA <sup>1</sup>

<sup>1</sup>Asterisk denotes system tier. B=workgroup tier, 2=departmental tier, 5=enterprise tier.

HP OpenVMS Integrity Licenses <sup>1</sup>	
DQS Per-processor Core License (PCL) <sup>2</sup> :	BA364AC

<sup>1</sup>Update licenses not available; updates available through SW Updates Service.

<sup>2</sup>Order one PCL license for each active processor core running OpenVMS.

### Media and Documentation

Product binary kits and online documentation are delivered on consolidated media libraries. Delivery model varies by platform.

HP OpenVMS Alpha Media and Online Documentation	
Software Layered Products Library Package <sup>1</sup>	QA-03XAA-H8
Software Layered Products and Operating System Library Package <sup>1</sup>	QA-5G98A-H8

<sup>1</sup>Quarterly Software Updates Service is available.

HP OpenVMS Integrity Media and Online Documentation <sup>1</sup>	
Foundation Operating Environment	BA322AA#AJR
Enterprise Operating Environment	BA323AA#AJR
Mission Critical Operating Environment	BA324AA#AJR

<sup>1</sup>Product ships on Layered Products Library media included in all Operating Environment media kits, delivered with an initial OpenVMS OE order.

HP OpenVMS Integrity SW Updates <sup>1</sup>	
DQS Media Kit (for update only)	BA364AA

<sup>1</sup>For the OpenVMS Integrity platform, media updates are ordered by adding SW Updates Service to individual products. The above media product numbers must be pulled into an order if SW Updates Service is planned.

NOTE: If you are *adding* a layered product to an existing OpenVMS Integrity system and do not have the latest software revision on site, please contact your local Sales Rep to request a Special Media kit.

**SOFTWARE PRODUCT SERVICES**

A variety of service options are available from HP. For more information, contact your local HP account representative or distributor. Information is also available from <http://www.hp.com/hps/software>.

**SOFTWARE WARRANTY**

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

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