COMPAQ

Software Product Description

PRODUCT NAME: HP Archive Backup System for OpenVMS Version 4.1 **SPD 48.16.22**

DESCRIPTION

Archive Backup System (ABS) for OpenVMS Version 4.1 is HP's primary OpenVMS archive and backup product. For license options, see the section titled LICENSE OPTIONS in this document.

ABS automates backup operations, provides for system archiving, and makes it easy to find files stored on tapes and disks. ABS also provides client backup facilities for Windows NT, Tru64 UNIX, and remote OpenVMS clients.

Features

ABS provides the following important file archiving and backup capabilities:

- A Graphical User Interface for defining archive and backup policies, save and restore data, and for finding data objects and databases that have been backed up or archived using ABS.
- Automatic, flexible scheduling of backup and archive operations for OpenVMS systems and for selected Windows NT and Tru64 UNIX clients.
- Qualified for OpenVMS client backup and archiving operations directly between disks and tape drives located on different systems using DECnet™ or DECnet-Plus™ network protocol.
- Use of Windows NT and Tru64 UNIX clients backing up to the ABS OpenVMS server using TCP/IP network protocol.
- Integration with HSM for OpenVMS (SPD #46.38.xx) to qualify "Backup via Shelving."
- Online catalog of information about backed up and archived files, disk volumes and databases. This allows for retrieving files or restoring disk volumes without having to know the names of the tape volumes on which the data was saved.
- Use of OpenVMS Queue Manager to schedule backup requests. ABS also provides integration with other OpenVMS and offbase scheduler products.
- Dynamic logicals for Pre- and Postprocessing commands.
- Error recovery and reporting capability.
- Compatibility with RMU/BACKUP and RMU/RESTORE, allowing backup and restore operations of Oracle Rdb™ V7.0-6, V7.0-6.1 and V7.0-9 databases.
- ABS V4.1 provides "System Backup to Tape" (SBT) feature for Oracle 8i and Oracle 9i, RMAN database users. RMAN must be configured and working prior to SBT implementation. Feature is alpha oriented. ABS V4.1 has qualifed SBT to work on jukeboxes, standalone and stacker tape devices.
- Fast tape positioning.
- Utilizes OpenVMS ODS2 and ODS5 disk volumes as provided by OpenVMS. When ABS is used with HSM, ODS5 volumes are not qualified.
- Layers upon a robust and fully tested media manager that provides the following important media and device management capabilities:
  - Effective use of all media capacity by appending multiple save sets of backed up or archived files to the same volume or volume set

  - Direct positioning to the start of each save set file during a restore operation using saved information about the tape position of each save set file
  - Customization features to meet a variety of operational and site requirements
  - Qualified for unattended backup operations using automatic tape cartridge loaders; generic device recognition of some StorageTek® automated cartridge server
  - Media life cycle control including maintenance of volume retention period, availability status, location, and scheduling dates when volumes are to move offsite and return
  - Maintenance of counters for each volume noting the number of times a volume has been mounted and the number of errors associated with the volume
  - Media allocation control based on customer-defined media pools
  - Built-in report generation and custom report generation capability
  - Security features to prevent unauthorized media or device use
  - In an OpenVMS™ Cluster environment, automatic failure recovery from the loss of a processor to allow continuous access to the media databases

- Integration with the Remote Device Facility (RDF™).

  The RDF software is included within the media management software. RDF allows the media manager to access a tape from other OpenVMS nodes across the DECnet or DECnet-Plus network for ABS backup and archive operations.

  RDF makes access to remote tape drives invisible to ABS backup and archive operations by issuing commands as appropriate when a designated tape drive is considered remote. The media manager also manages volume load requests to remote systems to allow unattended backups or to communicate with a console operator. The media manager makes no direct use of the remote disk capabilities within RDF.

  RDF includes the following capability:

  - RDF servers that execute tape I/O requests on behalf of a remote client. Servers are located on systems that have tape drives attached or that can access drives through the OpenVMS TMSCP™ server.
  - RDF clients that provide the communications interface between applications reading or writing data to a tape drive and the RDF servers.

Remote Device Facility (RDF) is only qualified when it is being called by ABS. RDF included with ABS is not intended to be run as a stand alone application. RDF as a stand alone application is available from Touch Technologies and qualified by Touch Technologies, Inc.

RDF V4.3G is minimum version to be used with ABS V4.1.

LICENSE OPTIONS

To qualify a variety of configuration requirements, the following ABS license options are available:

- **ABS for OpenVMS VAX or Alpha** Pre 4.0X should now be referenced as ABS/MDMS server due to policy database functionality in MDMS for V4.0X. No changes to license needed.
- **ABS Client for OpenVMS VAX or Alpha** Pre 4.0X should now be referenced as ABS/MDMS client due to policy database functionality in MDMS for V4.0X. No changes to license needed.
- **NT Client**—This is an optional purchase that enables you to add NT client nodes to your ABS operational environment.
- **Tru64 UNIX Client**—This is an optional purchase that enables you to add Tru64 UNIX client nodes to your ABS operational environment.
- **Archive Backup System for OpenVMS Management Tools (ABS OMT)** - ABS OMT provides a subset of the full functionality of Archive Backup System. ABS OMT is a product offered within the OpenVMS Enterprise Integration Package (EIP) and sold as a separate product.

ABS/MDMS Server for OpenVMS

ABS/MDMS Server for OpenVMS software provides ABS full operational modes, as previously described, to the nodes or OpenVMS Cluster on which ABS is executing. A node or OpenVMS Cluster executing ABS /MDMS server software provides backup policy management services for itself and for any OpenVMS, Windows NT, and Tru64 UNIX client nodes connected to it. At least one ABS/MDMS server license is required in the network. Two are recommended to ensure failover capabilities.

ABS/MDMS server software manages the catalogs that record information about user files backed up or archived under ABS/MDMS control at the local node.

ABS/MDMS Client for OpenVMS

ABS/MDMS Client for OpenVMS software provides backup and archiving operations for the OpenVMS node or OpenVMS Cluster on which it is executing, and it acts as a client of another node executing ABS/MDMS server software when it requires policy information.

Windows NT and Tru64 UNIX Client
A Windows NT or Tru64 UNIX Client license allows backup scheduling and archiving services for the Windows NT or Tru64 UNIX client node configured within the ABS software environment.

ABS OMT
ABS OMT licenses a subset of the ABS features. The following lists the features that are **NOT** implemented for ABS OMT:

- OpenVMS Clients
- Tape devices using RDF
- Creation of storage and environment policies
- Save requests scheduling options except the following:
  - On demand - (ON_DEMAND)
  - Weekly full/daily incremental - (DAILY_FULL_WEEKLY)
  - One time only - (ONE_TIME_ONLY)
- StorageTek silos and DCSC Jukeboxes
- Scheduling options:
  - Scheduler
  - External

The ABS OMT license includes one ABS OMT server license and one ABS Windows NT client license. Additional Tru64 UNIX and Windows NT client licenses are qualified. ABS OMT uses the default storage and execution class which can be modified. Additional storage and execution classes cannot be defined. ABS OMT qualifies only one file catalog.

Qualified DEVICES

The following libraries and loaders have been tested and qualified by Storage Management Software Engineering. However, Storage Management Software Engineering does not test each of the devices with every possible combination of controllers and host systems. Because Archive Backup System and Media Robot Utility (MRU) run in common environments, these combinations are tested first with MRU. Upon successful completion of the MRU tests, Archive Backup System is then tested in representative configurations. Note that MRU is not a prerequisite for Archive Backup System.
Therefore, to determine if your specific configuration has been qualified, follow these steps:

1. If you have a tape drive that is not software-defined as a jukebox (is not a library or a loader device), reference the OpenVMS Software Product Description (SPD #25.01.xx) to determine if your tape drive is qualified for your platform and controller/adapter combination.
2. If your device is software-defined as a jukebox (it is a library or loader device), first check the following list to determine if it is tested by the media manager. If the device is listed, see the following instructions:
   a. Check the OpenVMS Software Product Description (SPD #25.01.xx) to make sure the tape drive(s) in your library/loader are qualified for your platform and controller/adapter combination.
   b. Check the MRU Software Product Description (SPD #64.44.xx) to make sure your library/loader is qualified by MRU for your specific controller /adapter combination.
3. Assuming your device is correctly connected and configured, it should work with ABS and its clients.

If you have devices that are not shown on the list, they may still have been qualified. HP continually tests its software on additional devices that may have been released since the last publication of this SPD. If you have a question about a particular device, contact HP customer support.

Note: The Storage Management Software organization makes every effort to be as current and correct in our listing of compatible versions for Operating Systems, hardware and third party software products. Ultimately, your existing contract with any of these entities will take precedent.

ESL9198DLX	ESL9198SL
ESL9326D	ESL9326DX
ESL9326SL	ESL9595SL
MSL5026SL	MSL5052SL
SSL2020	STK ACS[1]
TKZ6*x*	TL891DLX
TLZ6L	TLZ7L
TLZ9L	TL810
TL812	TL820
TL822	TL826
TL890	TL891
TL892	TL893
TL894	TL895
TL896	TSL10000
TZ857	TZ867
TZ875	TZ875*N*
TZ877	TZ877*N*
TZ885	TZ887

[1] Requires an optional DCSC V3.2 license (SPD 33.59.xx).

Device Restrictions
ABS does not provide qualification for:

- QIC (quarter-inch cartridge) devices

Minimum OpenVMS System Configuration
A minimum system configuration includes:

- 4 MB memory
- One or more tape drives
- A disk drive, recognized by OpenVMS as having a Files–11 structure
- Any other minimum configuration requirements for the OpenVMS operating system

The ABS/MDMS server and ABS/MDMS client software can run on any valid VAX, MicroVAX, or VAXstation configuration with DECnet Phase IV or DECnet-Plus support. Tru64 UNIX and Windows NT clients can run on any hardware platform that qualifies the operating systems listed in SOFTWARE REQUIREMENTS.

OpenVMS Cluster ENVIRONMENT

This layered product is fully qualified when installed on any valid and licensed OpenVMS Cluster configuration without restrictions. OpenVMS Cluster configurations are fully described in the OpenVMS Cluster Software Product Description (SPD #25.01.xx) and include CI, Ethernet, and Mixed Interconnect configurations.

OpenVMS TAILORING

For OpenVMS systems, the following OpenVMS classes are required for full functionality of this layered product:

- OpenVMS required save set
- Programming support
- Utilities
- System programming support
- Secure user's environment
- Network support

HARDWARE REQUIREMENTS

ABS runs on the VAX and Alpha processors qualified by OpenVMS. For a detailed list of the VAX and Alpha processors qualified by OpenVMS, see the *OpenVMS VAX and Alpha Operation System Software Product Description* (SPD #25.01.xx).

SOFTWARE REQUIREMENTS

Operating System

OpenVMS Operating System for VAX Version 6.2, 7.1, 7.2 and 7.3 and Alpha versions 6.2, 7.1-2, 7.2-2 and 7.3.

OpenVMS Version 7.2-2 and 7.3 provides support for Fibre Channel (FC) connected tape devices.

MDR/NSR converts Fibre Channel protocol, which the tape device understands. ABS V4.1 has qualified this feature in OpenVMS 7.2-2 and 7.3 as used with MDR/NSR.

Network Storage Router (NSR) M2402 by HP is a key component in a complete data protection solution. It allows multiple host servers to communicate with a SCSI tape device over a Fibre Channel link making backup speeds five times faster. ABS has been tested and qualified with Network Storage Router (NSR) M2402.

NOTE: Storage Management makes every effort to be as current or correct as possible in qualifying our layered products on the Operating System (OS) versions. The use of a particular OS by a customer can only be guaranteed by the customer's contract with OpenVMS or by a specific service contract.

Please refer to OpenVMS for a complete listing of supported tape devices and connected hardware.

Layered Products

- DECnet Phase IV or DECnet-Plus for OpenVMS VAX or Alpha. If you use Decnet Plus (Phase V) with ABS, you must define Phase IV synonyms (6 characters or less) for your nodes. ABS cannot use the long node names.

Optional Software

- Compaq TCP/IP Services for OpenVMS is a prerequisite for any installation utilizing ABS Tru64 UNIX or Windows NT clients.
- Compaq TCP/IP Services for OpenVMS is a prerequisite for ABS media manager GUI.
- eXcursion software to display the graphical user interface on Windows NT systems.
- Java (JRE) Versions

  0 JRE-1_2_2_011 is qualified

  0 J2RE-1_3_1_03 is qualified

- DCSC (part number QL–YWNA9–AA for a VAX system, and QL–4EUA9–AA for an Alpha system) is required to qualify ACSLS StorageTek silos. Refer to DCSC SPD #33.59.xx

  Note: Refer to DCSC V3.2 for qualified or recommended use of Fibre Channel (FC) connected tape devices, a new feature of OpenVMS 7.2-2 and 7.3.

- HSM for OpenVMS for automatic shelving of OpenVMS files. Refer to SPD #46.38.xx

Note: The Storage Management Software organization makes every effort to be as current and correct in our listing of compatible versions for Operating Systems, hardware and third party software products. Ultimately, your existing contract with any of these entities will take precedent.

Qualified Tru64 UNIX clients

ABS enables you to back up the following Tru64 UNIX clients:

- Tru64 UNIX 4.0F-G, Tru64 UNIX V5.0, V5.0A & V5.1

Note: ABS V4.1 has elected to qualify only Tru64 UNIX clients.

Qualified Windows NT clients

ABS enables you to back up the following Windows NT clients:

- Intel, NT Version Version 4.0

- Windows 2000 with some restrictions

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

ABS is available as part of the OpenVMS Consolidated Software Distribution for VAX and Alpha systems on CD–ROM.

SOFTWARE LICENSING

This software is furnished only under a license. For more information about HP's licensing terms and policies, contact your local HP office.
Please note that ABS licensing for V4.1 is still specifically called ABS Server or ABS Client. Previous mention in the LICENSE OPTIONS is to clarify that the functionality of the Server and Client is now ABS/MDMS centric.

License Management Facility
The following software is qualified by the OpenVMS License Management Facility (LMF):

- ABS server for OpenVMS software
- ABS client for OpenVMS software
- ABS Tru64 UNIX and Windows NT client packages

For more information on the OpenVMS License Management Facility, refer to the OpenVMS Operating System Software Product Description (SPD #25.01.xx) or the OpenVMS License Management Facility manual of the OpenVMS Operating System documentation set.

ORDERING INFORMATION

You can order ABS with the following information:
ABS Server for OpenVMS VAX:

Software Licenses: QL-5VZA*-AA
Software Documentation: QA-5VZAA-GZ
Software Product Services: QT-5VZA*-L9
Software Update Licenses: QL-5VZA*-RA
Software Consulting Service: QS-5VZAA-4R
Software Consulting PLUS Service: QS-5VZAA-4S

ABS Server for OpenVMS Alpha:

Software Licenses: QL-5W2A*-AA
Software Documentation: QA-5W2AA-GZ
Software Product Services: QT-5W2A*-L9
Software Update Licenses: QL-5W2A*-RA

ABS Client for OpenVMS VAX:

Software Licenses: QL-5VYA*-AA
Software Documentation: Covered in the documentation for ABS for OpenVMS
Software Product Services: Provided in the services offering for ABS for OpenVMS
Software Update Licenses: QL-5VYA*-RA
Software Consulting Service: Covered under ABS for OpenVMS Consulting Services

ABS Client for OpenVMS Alpha:

Software Licenses: QL-5W1A*-AA
Software Product Services: Provided in the services offering for ABS for OpenVMS

Software Update Licenses: QL-5W1A*-RA
Software Consulting Service: Covered under ABS for OpenVMS Consulting Services

Tru64 UNIX Software Licenses:

Single Tru64 UNIX Client License: QL-5GXAA-3B
5 Tru64 UNIX Client License Package: QL-5GXAA-3C
25 Tru64 UNIX Client License Package: QL-5GXAA-3E
100 Tru64 UNIX Client License Package: QL-5GXAA-3G

Windows NT Software Licenses:

Single NT Client License: QL-5LSA9-3B
5 NT Client License Package: QL-5LSA9-3C
25 NT Client License Package: QL-5LSA9-3E
100 NT Client License Package: QL-5LSA9-3G
1500 NT Client License Package: QL-5LSA9-3H

ABS Version V4.1 does not provide separate Windows NT and Tru64 UNIX client documentation. All client information is included in the ABS documentation set.

ABS OMT Software License:

Software License: QL-5LQA*-AA

ABS OMT Upgrade to ABS Software License:

Software License: QL-5LTA*-AA

SOFTWARE PRODUCT SERVICES

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

SOFTWARE WARRANTY

This software is provided by HP with a 90-day conformance warranty in accordance with the HP warranty terms applicable to the license purchase.
The above information is valid at time of release. Please contact your local HP office for the most up-to-date information.

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