



Software Product Description

PRODUCT NAME: HP Openvms Common Internet File System V1.0

SPD 82.42.01

DESCRIPTION

This software product description explains the HP OpenVMS Common Internet File System (CIFS) for OpenVMS Alpha and OpenVMS Integrity servers.

HP OpenVMS Common Internet File System (CIFS) provides users with seamless file and print interoperability between OpenVMS and Windows-based clients. The OpenVMS file and print services are based on the popular open source product, Samba, from Samba.org. The software runs on OpenVMS Alpha and OpenVMS Integrity server platforms. It is similar to implementations that are in place today supporting Linux and UNIX operating environments.

Use of the Common Internet File System requires OpenVMS Version 8.2 or later for AlphaServers and OpenVMS V8.2-1 or later for Integrity server systems. CIFS supports Windows 2000 and later clients.

FEATURES

Domain Support

HP CIFS can act as a Member Server of a Windows 200x Active Directory domain. HP CIFS can act as a Primary Domain Controller (PDC) in its own domain, but cannot act as a PDC in a Windows domain. HP CIFS is compatible with LDAP enabled PDCs (Primary Domain Controllers) both as BDC (Backup Domain Controller) as well as a Member server.

Browser Services

Network browser services are provided for by CIFS.

Cluster Services

HP CIFS can be installed on any node in an OpenVMS Clusters. OpenVMS Cluster configurations are fully described in the Software Product Description for HP OpenVMS Cluster Software (SPD 29.78.xx). CIFS for OpenVMS can run on members of an OpenVMS Cluster that are running OpenVMS Alpha Version 8.2 or later or OpenVMS Integrity Version 8.2-1 or later. Mixed-version clusters are supported if all cluster members upon which the CIFS for OpenVMS runs are running OpenVMS Version 8.3 or later. For more information, refer to the OpenVMS release notes for the latest Alpha or Integrity server version you are running. CIFS supports simultaneous file access by all nodes running CIFS in the cluster. A central event log, central CIFS accounts, and share databases are maintained in a cluster.

File Services

HP OpenVMS CIFS provides clients with a remote file system that appears as a transparent extension of the client systems' local computing environment. CIFS allows users to share OpenVMS and Microsoft files with simultaneous access and sharing of files between Windows and OpenVMS. Users can use discretionary access controls on each file and directory to specify the groups and users that can access files, to define the levels of access that each group or user is permitted, and to control auditing supported by Windows security. Additional, optional security is provided by OpenVMS file and directory protections.

Extended File Specifications based on ODS-2 and ODS-5 are both supported. This includes support for deep directories and extended file names.

Both DFS and NFS mounted disks can be served.

Printing Services

Users can share printers connected to both AlphaServer and Integrity server systems or OpenVMS Cluster systems, as well as network-based printers such as LAT printers and PrintServers. Print shares are supported in local area network (LAN) and wide area network (WAN) environments. PC clients can print files from their desktop operating systems as well as from PC applications. Multiple print shares may also be defined for a single printer. In addition, OpenVMS printer queue functionality is provided.

HP CIFS supports raw, text, NT style and all PostScript(DCPS) printers supported by OpenVMS. Selected PostScript printers may need the DECprint Supervisor for OpenVMS (DCPS) software to provide access through the OpenVMS queuing system over TCP/IP. The HP DECprint Supervisor for OpenVMS (DCPS) product provides PostScript and DEC ANSI printing to selected industry-standard PostScript printers.

Network Transports

CIFS utilizes the industry standard TCP/IP protocol running on the host server. This allows an OpenVMS host system to interact with a Microsoft Windows client or server to provide remote file, print, and authentication services. CIFS provides remote access to numerous computers at the same time. This Common Internet File System runs over TCP/IP by using the SMB (Server Message Block) protocol found in Microsoft Windows for file and printer access.

CIFS supports the TCP/IP network transport software. One or more transport stacks can work concurrently. CIFS has been developed to work in close harmony with the HP OpenVMS TCP/IP Services product. Third party TCP/IP solutions that interoperate with the HP OpenVMS Operating system will be supported on a best case basis. Network Basic Input/Output System (NetBIOS) is supported with interface to LMHOSTS file and WINS and DNS NETBIOS name resolution.

Security

HP CIFS provides an extension to the Windows model by supporting OpenVMS security as an optional enhancement. It also provides external authentication, trust relationship support and the mapping of OpenVMS ACLs to CIFS ACLs.

HARDWARE REQUIREMENTS

Processors Supported

All AlphaServer systems supported by OpenVMS Alpha Version 8.2 or later are supported by HP CIFS for OpenVMS Alpha. All Integrity server systems supported by OpenVMS Version 8.2-1 or later are supported by HP CIFS for OpenVMS Integrity.

OPTIONAL HARDWARE

PostScript Printers

HP CIFS supports all PostScript printers supported by HP OpenVMS. Selected PostScript printers may need the HP DECprint Supervisor for OpenVMS (DCPS) software to provide access through the OpenVMS queuing system over TCP/IP or DECnet. Refer to the HP DCPS Software Product Description (SPD 44.15.xx) for a complete list of PostScript printers supported by HP OpenVMS.

Network Interface Controllers

For the TCP/IP transport, CIFS supports the network hardware devices supported by the specific TCP/IP product. Refer to the Software Product Description for HP TCP/IP Services for OpenVMS (SPD 46.46.xx). For information about what software versions of HP TCP/IP for OpenVMS are supported, see the section SOFTWARE REQUIREMENTS. For information about other TCP/IP products, contact the vendor.

SOFTWARE REQUIREMENTS

Operating System

The software requirements for HP CIFS for OpenVMS Integrity Version V1.0 are:

- HP OpenVMS Integrity Operating System Version 8.2-1 or higher

The software requirements for HP CIFS for OpenVMS Alpha Version V1.0 are:

- HP OpenVMS Alpha Operating System Version 8.2 or higher

The software requirements for HP CIFS in support of Microsoft are Windows 200 and later clients. Windows 95, Windows 98 and Windows-NT are *not supported*.

Network Transport Software

CIFS is to be used in a TCP/IP environment. HP OpenVMS TCP/IP software is recommended. This software must be purchased separately for OpenVMS Alpha, but is included in the Foundation Operating Environment (FOE) for HP OpenVMS Integrity servers.

Network Basic Input/Output System (NetBIOS) is supported with interface to LMHOSTS file and WINS and DNS NETBIOS name resolution.

GROWTH CONSIDERATIONS

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

SOFTWARE LICENSING

HP CIFS is provided at no additional charge for users with a valid license to operate an OpenVMS operating system for an Integrity server or AlphaServer system.

The SAMBA technology *utilized in CIFS* is bound by an open source software license.

License Management Facility Support

HP CIFS may be used without an LMF PAK.

ORDERING INFORMATION

The HP CIFS kits and documentation are available for download from the following website:

http://h71000.www7.hp.com/network/CIFS_for_Samba.html

SOFTWARE TECHNICAL SUPPORT SERVICE

Alpha

Please contact your HP Services Sales Representative to purchase HP Software Technical Support (HA158AC) for HP CIFS on OpenVMS Alpha. Software Technical Support is purchased for the quantity of concurrent users, using the product number below:

HP OpenVMS Alpha Product ¹	
HP CIFS VMS Alpha 1 Conc Use	QL-010AA-AB

¹This product number is only required to purchase Software Technical Support Service and is not required to use the HP CIFS product.

Service Migration to HP CIFS from HP Advanced Server

Alpha

Purchase HP Software Technical Support Service entering a quantity equal to the number of HP Advanced Server licenses being migrated.

Integrity

HP CIFS is a component of the Foundation Operating Environment (FOE). Software Technical Support Service is provided through a support agreement for any of the OpenVMS Operating Environments: Foundation, Enterprise or Mission Critical.

If you have an existing Support Agreement for your Integrity Server FOE, EOE or MCOE License, an additional Support Agreement for HP CIFS is not required.

For the complete list of OpenVMS Operating Environment Licenses, please see the OpenVMS Operating Environment SPD, (SPD 82.34.xx):

<http://h18000.www1.hp.com/info/XAV12Z/XAV12ZPF.PDF>

SOFTWARE PRODUCT SERVICES

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

SOFTWARE WARRANTY

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