



# Software Product Description

**PRODUCT NAME:** HP OpenVMS Common Internet File System V1.0

**SPD 82.42.02**

## DESCRIPTION

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

HP 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 CIFS requires OpenVMS Version 8.2 or later for AlphaServers and OpenVMS Version 8.2-1 or later for Integrity server systems. HP CIFS supports Windows 2000, Windows 2003, and Windows XP 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 Microsoft Windows domain. HP CIFS is compatible with LDAP enabled Samba PDCs (Primary Domain Controllers) both as BDC (Backup Domain Controller) as well as a Member server.

### Browser Services

Network browser services are provided by HP CIFS.

### Cluster Services

HP CIFS can be installed on any node in an OpenVMS Cluster. OpenVMS Cluster configurations are fully described in the Software Product Description for HP OpenVMS Cluster Software (SPD 29.78.xx). HP CIFS for OpenVMS can run on multiple nodes of an OpenVMS Cluster with access to the same SAMBA\$ROOT directory provided they are running OpenVMS Alpha Version 8.3 or later or OpenVMS Integrity servers Version 8.3 or later with a common RIGHTSLIST and SYSUAF database. Based on this set up, HP CIFS supports simultaneous file access by all nodes in the cluster. In the SAMBA\$ROOT directory, HP CIFS maintains common accounts database and common configuration information. It also maintains node-specific configuration information in the same directory. A separate instance of HP CIFS can also be run in the cluster but this node must use a different SAMBA\$ROOT directory. For more information, see the OpenVMS release notes for the Alpha or Integrity servers version you are running.

### File Services

HP CIFS provides clients with a remote file system that appears as a transparent extension of the client systems' local computing environment. HP CIFS allows users to share OpenVMS and Microsoft Windows files with simultaneous access and sharing of files between Microsoft Windows and OpenVMS. Security on files is

implemented by mapping Windows security to OpenVMS security. HP CIFS depends on VMS auditing for auditing facility.

### 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 HP DECprint Supervisor for OpenVMS (DCPS) software to provide access through the OpenVMS queuing system over TCP/IP or DECnet. The HP DCPS product provides PostScript and DEC ANSI printing to selected industry-standard PostScript printers. See the HP DCPS Software Product Description (SPD 44.15.xx) for a complete list of PostScript printers supported by HP OpenVMS.

### Network Transports

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

### Security

HP CIFS security on files is implemented by mapping Windows security to OpenVMS security. Thus, HP CIFS depends upon time proven VMS security mechanism for accessing files. It also provides trust relationship support.

## 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 servers.

## OPTIONAL HARDWARE

### Network Interface Controllers

For the TCP/IP transport, HP CIFS supports the network hardware devices supported by the specific TCP/IP product. See 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 and for other TCP/IP products, contact the vendor.

## SOFTWARE REQUIREMENTS

### Operating System

The software requirements for HP CIFS for OpenVMS Integrity servers Version 1.0 are:

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

The software requirements for HP CIFS for OpenVMS Alpha Version 1.0 are:

- HP OpenVMS Alpha Operating System Version 8.2 or higher

The software requirements for HP CIFS in support of Microsoft are Windows 2000, Windows 2003, and Windows XP clients. Windows 95, Windows 98 and Windows-NT are *not supported*.

### Network Transport Software

HP 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.

**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 free of cost from the following website:

[http://h71000.www7.hp.com/network/CIFS\\_for\\_Samba.html](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 <sup>1</sup>	
HP CIFS VMS Alpha 1 Conc Use	QL-010AA-AB

<sup>1</sup>This 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 servers*

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, see the OpenVMS Operating Environment SPD, (SPD 82.34.xx) at the following website:

<http://docs.hp.com/en/12698/OE1107SPD.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 at the following website:

[www.hp.com/hps/software](http://www.hp.com/hps/software).

**SOFTWARE WARRANTY**

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

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