

# **HP OpenVMS Common Internet File System (CIFS) Based on Samba**

## **Installation and Configuration Guide**

Evaluation Version: E3.0.10

Operating System: OpenVMS Alpha Version 8.2



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## Preface

This guide describes how to install and configure HP OpenVMS CIFS software Version E3.0.10.

## Intended Audience

This guide is written for OpenVMS system managers and network administrators.

## Document Structure

This guide is organized as follows:

- Chapter 1, describes the requirements and procedures that you must complete before installing the software.
- Chapter 2, describes the installation procedure and postinstallation tasks.
- Chapter 3, describes the configuration procedure for the HP OpenVMS CIFS Server.
- Chapter 4, describes how to remove HP OpenVMS CIFS software from your system.
- Chapter 5, Shows a sample installation and removal procedure for HP OpenVMS CIFS Software.

## Related Documents

For more information about HP OpenVMS CIFS software, refer to the following URL:

<http://www.samba.org>

## Acronyms

Acronym	Expansion
CIFS	Common Internet File System
SMB	Server Message Block
SMBD	SMB Daemon
NMBD	Name Server Daemon
TCP/IP	Transmission Control Protocol/Internet Protocol
PCSI	POLYCENTER Software Installation utility
UIC	User Identification Code

# 1. Preparing to Install HP OpenVMS CIFS Software

This chapter describes the hardware and software requirements, how to prepare for installing, how to access release notes and preinstallation tasks for HP OpenVMS CIFS software.

## 1.1. About HP OpenVMS CIFS Software Kit

HP OpenVMS CIFS software is a full kit and comprises the following:

- Utility to run and monitor CIFS
- Daemon process binaries
- CIFS source files (.BCK)
- Migration Utility from ASV to HP OpenVMS CIFS (.BCK)

## 1.2. About the Release Notes

The HP OpenVMS CIFS Version E3.0.10 Release Notes document contains important information you should know before you install the product. HP recommends that you read the release notes before starting the installation.

### 1.2.1. How to Access the Release Notes before Installation

If you want to print the release notes before the installation, do the following to extract the release notes to a text file:

- Load the installation kit on a drive.
- Enter the following POLYCENTER Software Installation utility command, where file\_name.txt is the name you specify for the text file, and directory-path specifies the disk and directory name for the source drive that holds HP OpenVMS CIFS kit (for example, /SOURCE=SYS\$DEVICE:[TEST1]):

```
$ PRODUCT EXTRACT RELEASE_NOTES
```

```
_$ SAMBA/FILE=file_name.txt/SOURCE=<directory-path>
```

If you do not specify a file name, the release notes are written to a file called DEFAULT.PCSI\$RELEASE\_NOTES in the current directory. If you do not specify the destination qualifier, the POLYCENTER Software Installation utility extracts the release notes to the current directory.

### 1.2.2. How to Access the Release Notes after the Installation

If you want to see the release notes after the installation completes, you can read them online or print the file from SYS\$HELP: CIFSE3010\_REL\_NOTES.TXT

### 1.2.3. How to Extract CIFS Source after the Installation

If you want to extract the source after the installation completes, do the following steps:

- Load the installation kit on a drive

```
$ PRODUCT EXTRACT FILE SAMBA/SELECT=CIFSE010_SRC.BCK
```

```
_$ /SOURCE=[TEST1]
```

.PCSI utility extracts the file CIFSE3010\_SRC.BCK from the kit of the product Samba that is in the [TEST1] directory on the user's default disk. The extracted file CIFSE3010\_SRC.BCK is placed in the user's current default directory.

#### 1.2.4. How to Extract Migration Utility after the Installation

If you want to extract the source after the installation completes, do the following steps:

- Load the installation kit on a drive.

```
$ PRODUCT EXTRACT FILE SAMBA
```

```
_$_ /SELECT= CIFSE3010_MIGRATION.BCK/SOURCE=[TEST1]
```

.PCSI utility extracts the file CIFSE3010\_MIGRATION.BCK from the kit of the product Samba that is in the [TEST1] directory on the user's default disk. The extracted file CIFSE3010\_MIGRATION.BCK is placed in the user's current default directory.

---

**Note:** CIFS Source and Migration Utility BCK files can be extracted during installation by following the steps mentioned in the sample installation log under Section 5.1, Sample HP OpenVMS CIFS Installation Procedure.

---

### 1.3. Requirements for Installing HP OpenVMS CIFS Software

This section describes the hardware and software requirements you need when you install HP OpenVMS CIFS Software.

#### 1.3.1. Hardware Requirements

A processor running OpenVMS Alpha Version 8.2

#### 1.3.2. Software Requirements

To install HP OpenVMS CIFS software successfully, you must have the following software properly installed and configured on your system:

- OpenVMS Alpha Version 8.2
- TCP/IP Services - The transport software to support the network protocols used by other servers and network clients

## 1.4. Preinstallation Tasks

Table 1-1 lists the preinstallation tasks you should complete before you install HP OpenVMS CIFS software on your system, and the sections that describe these tasks.

**Table 1-1 Preinstallation Checklist**

Steps	Task to perform...	Described in...
1	Make sure that the network hardware is installed and connected	Section 1.4.1
2	Log in to the SYSTEM account (or another account that has all privileges enabled to run the installation procedure)	Section 1.4.2
3	Make sure that the required software is installed	Section 1.4.3
4	Read the release notes	Section 1.4.4
5	Back up the system disks	Section 1.4.5
6	Make sure that you have adequate disk space for installation	Section 1.4.6
7	Make sure that TCP/IP is running	Section 1.4.7

### 1.4.1. Check the Network Hardware

HP OpenVMS CIFS software runs on OpenVMS Alpha systems that meet the software requirements. The PC local area network (LAN) requires:

- A supported network controller board in the server and in each client
- Cables to connect each client and server to the network

### 1.4.2. Log in to the SYSTEM Account

Before you install HP OpenVMS CIFS software, log in to the SYSTEM account or another account that has all privileges enabled to run the installation procedure.

To log in to the SYSTEM account:

1. At the user name prompt, enter SYSTEM  
Username: SYSTEM
2. At the Password prompt, enter the password to the SYSTEM account.

### 1.4.3. Check the Required Software

HP OpenVMS CIFS software requires:

- The OpenVMS Alpha operating system, Versions 8.2
- TCP/IP transport for network communication

### 1.4.4. Read the Release Notes

If you have not already read the release notes, you should do so before installing the software. For more information, refer to Section 1.2, About the Release Notes.

### 1.4.5. Back up the System Disks

To safeguard against the loss of valuable data, HP recommends that you back up all disks on your system (or at least the system disk) before you install any layered product.

To do a system backup, use the OpenVMS BACKUP command. For information about the BACKUP command, refer to the OpenVMS System Management Utilities Reference Manual.

### 1.4.6. Check Disk space

To determine the number of disk blocks required for your installation, refer to HP OpenVMS CIFS release notes. To check the number of free blocks on the system disk, enter:

```
$ SHOW DEVICE SYS$SYSDEVICE
```

The OpenVMS system displays information about the system disk, including the number of free blocks. For example:

Device	Device	Error	Volume	Free	Trans	Mnt
Name	Status	Count	Label	Blocks	Count	Cnt
NEWTON\$DKA0:	Mounted	0	OS82	45747152	629	1

### 1.4.7. Check TCP/IP Status

To start TCP/IP services, enter the following command:

```
$ SYS$STARTUP:TCPIP$STARTUP.COM
```



## 2. Installing HP OpenVMS CIFS Software

This chapter describes how to install HP OpenVMS CIFS software using the POLYCENTER Software Installation (PCSI) utility. You must follow the procedure outlined here if you are installing the HP OpenVMS CIFS server.

For information about the POLYCENTER Software Installation utility, refer to the HP OpenVMS System Manager's Manual.

Before you begin the installation procedure, make sure that you have completed the preinstallation tasks listed in Section 1.4, Preinstallation Tasks.

### 2.1. Installation Procedure

The POLYCENTER Software Installation utility performs the following:

- Determines whether the installation is being done on an Alpha system or an I64 system. If it is an I64 system, the installation terminates. The HP OpenVMS CIFS runs on Alpha systems only.
- Copies HP OpenVMS CIFS files from the installation kit to the target disk.

#### 2.1.1. Installing the Server

When you have completed the recommended preinstallation tasks outlined in Section 1.4, Preinstallation Tasks and have read the release notes (Section 1.4.4), you are ready to install HP OpenVMS CIFS software.

For more details for using the utility to install, manage, and remove software products on your system, refer to the HP OpenVMS System Manager's Manual.

To install HP OpenVMS CIFS software, follow these steps:

1. Download the kit from the staging area.
2. Log in to the SYSTEM account or a privileged account.
3. Start the POLYCENTER Software Installation utility by entering the PRODUCT INSTALL command with the directory path appropriate for your system.

```
$ PRODUCT INSTALL <product-identifier>/DESTINATION =<directory-path>
```

where <product-identifier> for HP OpenVMS CIFS software kit is Samba and <directory-path> specifies the target disk and directory name into which HP OpenVMS CIFS software kit is installed. For example, /DESTINATION=SYS\$DEVICE:[TEST1]

If you do not specify the destination qualifier, the POLYCENTER Software Installation utility searches the location defined by the logical name PCSI\$DESTINATION. If not defined, the utility installs the HP OpenVMS CIFS software kit in the default directory that is SYS\$SYSDEVICE:[VMS\$COMMON].

4. During installation, HP OpenVMS CIFS server creates four OpenVMS user accounts which are SAMBA\$NMBD, SAMBA\$SMBD, SAMBA\$TMPLT and SAMBA\_\_GUEST. The default UIC group number for both these accounts are SAMBA\$NMBD [370, 2], SAMBA\$SMBD [370, 1], SAMBA\$TMPLT [372, 1] and SAMBA\_\_GUEST [371, 2] where 370, 371 and 372 are group numbers and numeric value is an idname.

### 2.1.2. Postinstallation Tasks

After the installation completes, follow these steps:

1. Check the SAMBA\_ROOT logical by entering the following command:  

```
$ SH LOG SAMBA_ROOT
```

```
"SAMBA_ROOT" = "NEWTON$DKA100:[SAMBA.]"
```
2. Check the HP OpenVMS CIFS related files that were installed by entering the following command:  

```
$ PRODUCT LIST <product identifier>/SOURCE =<directory-path>
```

where <product identifier> for HP OpenVMS CIFS software kit is Samba and <directory-path> specifies the disk and directory name for the source drive that holds the HP OpenVMS CIFS software installed kit.  
For example,  

```
$ PRODUCT LIST SAMBA/SOURCE =SYS$DEVICE:[TEST1]
```
3. Execute SAMBA\_COMMANDS.COM present in SAMBA\_ROOT:[BIN] after the installation of CIFS, this is to define foreign commands for all the CIFS utilities.
4. Proceed to chapter 3 to configure HP OpenVMS CIFS software.

## 2.2. HP OpenVMS CIFS Installation Directories

Table 2-1 lists the HP OpenVMS CIFS installation directories and the files that will be installed in each directory.

**Table 2-1 HP OpenVMS CIFS Installation Directories**

Directory	Description
SAMBA_ROOT	Main tree
SAMBA_ROOT:[BIN]	Binaries, command scripts
SAMBA_ROOT:[LIB]	SMB.CONF, lmhosts, configuration files, etc.
SAMBA_ROOT:[PRIVATE]	Samba-encrypted password file, TDBs
SYS\$STARTUP	Samba_startup.com and Samba_shutdown.com
SAMBA_ROOT:[TMP]	OpenVMS equivalent of /tmp in UNIX
SAMBA_ROOT:[USERS]	User directory files
SAMBA_ROOT:[VAR]	Samba log files, lock files (TDBs)
SAMBA_ROOT:[SRC]	.BCK file of Samba source
SAMBA_ROOT:[UTILS]	.BCK file of Migration Utility

## 2.3. Troubleshooting Installation Problems

This section describes troubleshooting installation problems that you might encounter if you install HP OpenVMS CIFS software in an inappropriate environment.

### **2.3.1. Installing HP OpenVMS CIFS Software on an I64 System**

The HP OpenVMS CIFS software does not run on OpenVMS I64 systems. If you attempt to install on an I64 system, the POLYCENTER Software Installation utility procedure displays the following error message and terminates the installation:

```
HP AXPVMS SAMBA E3.0-10 does not run on OpenVMS I64 systems.  
You can install this product on OpenVMS Alpha systems only.
```

## 3. Configuring HP OpenVMS CIFS Software

This chapter describes the structure of the configuration file (SMB.CONF), how to configure and modify users, disk shares, security and printing on your network.

### 3.1. Configuration File Structure

Here is a sample configuration file structure:

```
[global]
...
[homes]
...
[<file/printer share-name>]
...
```

The names within the square brackets delineate unique sections of the SMB.CONF file; each section names the share (or service) to which the section refers. For example, the [homes] sections are unique disk shares; they contain options that map to specific directories on the CIFS server. All the sections defined in the SMB.CONF file, with the exception of the [global] section, will be available as a disk or printer share to clients connecting to the CIFS server.

### 3.2. The HP OpenVMS CIFS Configuration File

The HP OpenVMS CIFS configuration file, called SMB.CONF by default, uses the same format as Windows .ini files. SMB.CONF file is just a plain-text file, so you can open and edit it with your favorite editing tool.

SMB.CONF\_TEMPLATE file is provided along with SMB.CONF in HP OpenVMS CIFS software kit. SMB.CONF file contains mandatory configurable parameters.

---

**Note:** SMB.CONF file is very important file. Take precaution while editing this file. For more details on Configuration, refer to the following URL:  
<http://www.samba.org>

---

#### 3.2.1. Section Description

Each section in the SMB.CONF file represents a share on the CIFS server. The section “global” is special as it contains settings that apply to the whole CIFS server and not to one share in particular.

There are three special sections, [global], [homes] and [<file/printer share-name>], which are described under Special Sections.

##### 3.2.1.1. Special Sections

###### *The [global] section*

Parameters in this section apply to the server as a whole, or are defaults for sections, which do not specifically define certain items.

### ***The [homes] section***

If a section called homes is included in the configuration file, services connecting clients to their home directories can be created on the fly by the server.

### ***The [<file/printer share-name>] section***

If a section called [<file/printer share-name>] is included in the configuration file and If Printable parameter is set to YES, then this share functions as printer share. Otherwise, If Printable parameter is set to NO, then this share functions as file share or disk share.

#### **3.2.1.2. Parameters**

Parameters define the specific attributes of sections. There are two types of parameters namely,

- Global Parameters – Parameter specific to the [global] section
- Service Parameters – Parameter specific to service specific section

Some parameters are specific to the [global] section (For example, workgroup, security). Some parameters are usable in all sections (For example, browsable).

---

**Note:** For additional information on configuration (SMB.CONF), refer to the following URL:

<http://www.samba.org/samba/docs/man/manpages-3/smb.conf.5.html>

---

### **3.3. Example Configuration File (SMB.CONF)**

```
[global]
    server string = Samba %v running on %h (OpenVMS)
    security = user
    passwd backend = tdbsam
    domain master = yes
    guest account = SAMBA__GUEST
    domain logons = Yes
    log file = /samba_root/var/log.%m
    create mode = 0755

[homes]
    comment = Home Directories
    browsable = no
    read only = no
    create mode = 0750

[test1]
    browsable = yes
    read only = yes
    path = /samba_root/users/test1
```

### 3.4. Supported Backend (tdbsam)

Supported Backend, tdbsam, can be specified in the SMB.CONF file by setting the parameter "passdb backend = tdbsam" in the [global] section.

By default it stores the information in SAMBA\_ROOT:[PRIVATE]PASSDB.TDB. The contents can be viewed using pdbedit or the tdbdump utility.

### 3.5. Testing the Configuration File

The test parser, testparm, examines the SMB.CONF file for syntax errors and reports errors, if it finds along with a list of the services enabled on your machine.

---

**Note:** Whenever you update or modify the SMB.CONF file, run the testparm utility.

---

### 3.6. How to Configure a Printer

To configure a printer, follow these steps:

1. For configuring Print Form and Print Queue run samba\_print\_qsetup.com present in SAMBA\_ROOT:[BIN] directory
2. Edit SMB.CONF and add entries for the printer "KATIA"

```
SMB.CONF
=====

[GLOBAL]

printing = vms           /* VMS style printing */
print command = /delete  /* print command parameters*/
printcap name = vms      /* print cap for VMS style printing */
load printers = no       /* Auto loaded printers */
admin users = test1

[KATIA]

comment = VMS SAMBA Printer
path = /SAMBA_ROOT/VAR/SPOOL /* spool directory path */
browseable = yes
public = yes
writable = yes
printable = yes
write list = test1
printer name = KATIA      /* VMS Print queue name created*/
                          /*using samba_print_qsetup.com */

create mask = 0766
directory mask = 0766
use client driver = yes
```

**Note:** Fine tune the entries in SMB.CONF for your requirements.

3. Now you will be able to see print share, "KATIA" from a PC client. Right click on the print share and then click the Connect tab. Complete the installation after selecting the appropriate driver.
4. After completing step 4, the print share "KATIA" will get installed on the PC. Now the documents can be submitted for printing.

### 3.7. How to Configure the SMB.CONF File

To configure the SMB.CONF file, follow these steps:

1. Verify whether SMB.CONF file has all the settings (i.e. PDC, WINS etc.) that are required to run CIFS sever by entering the following command:

```
$ TESTPARM
```

2. Check whether the DECC\$FILE\_SHARING logical is defined. If not, define the logical by entering the following command:

```
$ DEFINE DECC$FILE_SHARING "ENABLE"
```

3. Check whether the DECC\$RENAME\_NO\_INHERIT logical is defined. If not, define the logical by entering the following command:

```
$ DEFINE DECC$RENAME_NO_INHERIT 1
```

### 3.8. How to Add a User

To add a user on the host system or Samba database, follow these steps:

1. Check whether the user exists on the host system. If not, add the user to the system. For more details about adding user to the system, refer to the HP OpenVMS System Manager's Manual.
2. Ensure that user added to the host system must have an UNIQUE UIC and ADD\_IDENTIFIER qualifiers and flag set to NODISUSER.
3. Check whether the user exists on the Samba database. If not, add the user to the system by entering the following command:

```
$ PDBEDIT -A <USERNAME>
```

```
E.g.: $ PDBEDIT -A TEST1
```

**Note:** Ensure that the user exists on the host system before adding it to Samba database.

4. To change the password, enter the following command:

```
$ NET RAP PASSWORD <user> <oldpass> <newpass> --user  
<user>%<password>
```

---

**Note:** Alternatively, the user can change the password from the Windows client.

---

### 3.9. Verifying the Client Connection

After installation and configuration, follow these steps to verify whether users are able to connect from a client successfully:

1. Start the NMBD process by entering following command:

```
$ @SYS$COMMON: [SYS$STARTUP] SAMBA_STARTUP.COM
```

2. Then, verify from the client whether it has registered the name query request. Enter the following command from the command prompt:

```
C:\ NBTSTAT -A <IP ADDRESS/MACHINE NAME> - This gives the  
registered NetBIOS names of the server
```

For example,

```
C:\ NBTSTAT -A 16.148.18.31
```

Local Area Connection:

Node IpAddress: [16.38.47.15] Scope Id: []

NetBIOS Remote Machine Name Table

Name	Type	Status
NEWTON	<00> UNIQUE	Registered
NEWTON	<03> UNIQUE	Registered
NEWTON	<20> UNIQUE	Registered
LANGROUP	<00> GROUP	Registered
LANGROUP	<1C> UNIQUE	Registered
LANGROUP	<1E> GROUP	Registered

MAC Address = 00-00-00-00-00-00

3. Make sure "name of the services startup command file" points to the appropriate startup command procedure for SMBD startup. To verify, enter the following command:

```
$ TCPIP SHOW SERVICE SMBD/FULL
```

For example,

```
$ TCPIP SHOW SERVICE SMBD/FULL
```

Service: SMBD

		State:	Enabled
Port:	139	Protocol:	TCP,UDP
Inactivity:	0	User_name:	SAMBA\$SMBD
Limit:	100	Active:	1
File:	SAMBA_ROOT: [BIN] SMBD_STARTUP.COM		
Flags:	Listen		
Socket Opts:	None		



```

Receive:          0      Send:          0
Log Opts: Acpt Actv Dactv Conn Error Exit Logi Logo Mdfy Rjct
TimO Addr
File:             SAMBA_ROOT: [VAR] SMBD_STARTUP.LOG
Security
Reject msg:  not defined
Accept host:  0.0.0.0
Accept netw:  0.0.0.0

```

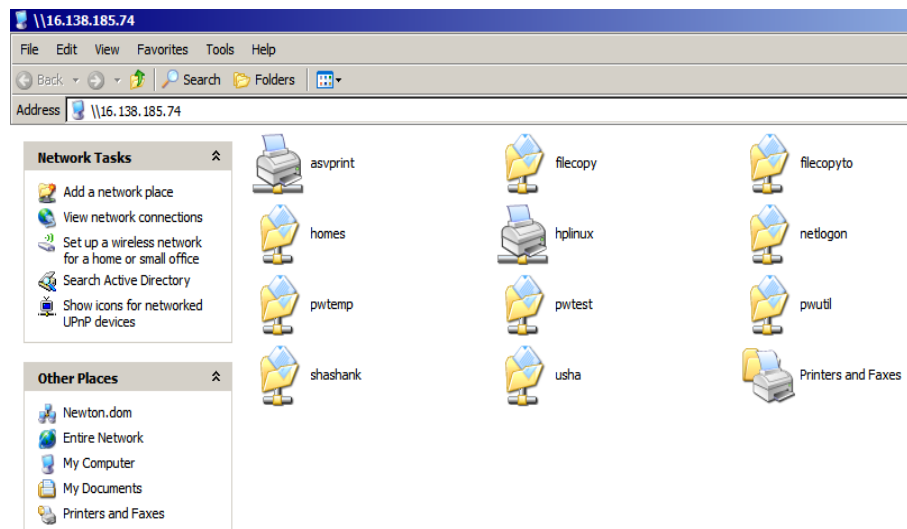
**Note:** Ensure all the settings and log files are accessible.

4. Connect from a client. Enter the following from the run prompt `\\<ip-address-of-CIFS-server>/name of the server`
  - a. The “Enter Network Password” screen is displayed.



Enter a username in ‘Connect As’ field and password in the ‘Password’ field.

- b. Click OK. A list of shared folders and files page is displayed.



## 4. Uninstalling HP OpenVMS CIFS Software

This chapter describes how to remove HP OpenVMS CIFS software from your system.

To uninstall the HP OpenVMS CIFS software, follow these steps:

1. Ensure that you are logged in to the Privileged account
2. Ensure that clients have disconnected from CIFS server
3. Stop the NMBD process by entering following command:  

```
$ @SYS$STARTUP:SAMBA_SHUTDOWN.COM
```
4. Start the removal procedure by entering the following command:  

```
$ PRODUCT REMOVE SAMBA
```

The removal command procedure performs the following operation:

- Prompts you whether to retain all CIFS Server TDB files and SMB.CONF file from the system. If you enter NO, all TDB files and SMB.CONF file will be deleted and CIFS related logicals are deassigned. If you enter YES, the TDB files are retained and SMB.CONF file is copied to a backup directory under SAMBA\_ROOT. The CIFS logicals definitions will not be deassigned.
- Removes the HP OpenVMS CIFS accounts created during installation.

## 5. Sample Installation and Removal Procedure

This chapter describes sample installation and configuration procedures for HP OpenVMS CIFS Server.

### 5.1. Sample HP OpenVMS CIFS Installation Procedure

```
$ product install samba
```

The following product has been selected:

```
HP AXPVMS SAMBA E3.0-10                Layered Product
```

Do you want to continue? [YES]

Configuration phase starting ...

You will be asked to choose options, if any, for each selected product and for any products that may be installed to satisfy software dependency requirements.

```
HP AXPVMS SAMBA E3.0-10: SAMBA for OpenVMS Alpha V8.2.
```

Do you want the defaults for all options? [YES] n

```
If you say YES, the BCK file of the source files
will be copied to SAMBA_ROOT:[SRC] location.
```

```
Do you want to download the Source files?  [NO] y
```

```
If you say YES, the BCK file of the Migration Utility
will be copied to SAMBA_ROOT:[UTILS] location.
```

```
Do you want to download the Migration Utility?  [NO] y
```

```
Do you want to review the options? [NO]
```

Execution phase starting ...

The following product will be installed to destination:

```
HP AXPVMS SAMBA E3.0-10                DISK$OS82:[VMS$COMMON.]
```

Portion done: 0%...50%...90%...100%

The following product has been installed:

```
HP AXPVMS SAMBA E3.0-10                Layered Product
```

```
HP AXPVMS SAMBA E3.0-10: SAMBA for OpenVMS Alpha V8.2.
```

```
Release notes for SAMBA on OpenVMS available
```

## 5.2. Sample HP OpenVMS CIFS Removal Procedure

```
$ product remove samba
```

The following product has been selected:

```
HP AXPVMS SAMBA E3.0-10          Layered Product
```

Do you want to continue? [YES]

The following product will be removed from destination:

```
HP AXPVMS SAMBA E3.0-10          DISK$OS82:[VMS$COMMON.]
```

Portion done: 0%...10%

Please take a backup of the configuration files ,if you want to use them afterwards

The uninstallation procedure will remove all the configuration files from the target environment

Do you want to save them ?[Yes]: n

...30%...40%...50%...60%...70%...80%...90%...100%

The following product has been removed:

```
HP AXPVMS SAMBA E3.0-10          Layered Product
```