HP OpenVMS CIFS Version 1.2 ECO1 Release Notes

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About this document

This release notes describes the features, problems fixed, known problems, and limitations found in HP CIFS Server.

Intended audience

This document is intended for OpenVMS system administrators and network administrators. For more information about the HP CIFS Server, see the HP CIFS Server documentation:

http://h71000.www7.hp.com/doc/CIFS.html

Document organization

The document is organized as follows:

Chapter 1   Introduction Provides information about HP CIFS Server software.

Chapter 2   Features Describes the features.

Chapter 3   Problems Fixed Describes the problems fixed.

Chapter 4   Known Problems Describes the known problems.

Chapter 5   Limitations Describes the limitations.

HP encourages your comments

HP encourages your comments and suggestions on this document. Please send comments to:

mailto:openvmsdoc@hp.com

1 Introduction

1.1 Distribution kit

The HP CIFS Server software is supported on OpenVMS Alpha and OpenVMS Integrity server systems. The following kits are, ECO kit versions of HP OpenVMS CIFS Version 1.2.

- For OpenVMS Alpha Versions 8.3 and 8.4 is:

  HP-AXPVMS-SAMBA-V0102-ECO1-1.SFX_AXPEXE

- For OpenVMS Integrity server Versions 8.3, 8.3-1H1, and 8.4 is:

  HP-I64VMS-SAMBA-V0102-ECO1-1.SFX_I64EXE

Mandatory kits

The following kits must be installed prior to installing the HP CIFS Version 1.2 ECO1 kit:

Table 1-1 Mandatory kits

Kit Name	OpenVMS Version	Architecture
HP-I64VMS-VMS83I_ACRTL-V0900--4.PCSI$COMPRESSED	8.3	Integrity servers
HP-I64VMS-VMS831H1I_ACRTL-V0500--4.PCSI$COMPRESSED	8.3-1H1	Integrity servers
HP-I64VMS-VMS84I_UPDATE-V0500--4.PCSI$COMPRESSED	8.4	Integrity servers
DEC-AXPVMS-VMS83A_ACRTL-V0700--4.PCSI$COMPRESSED	8.3	Alpha
DEC-AXPVMS-VMS84A_UPDATE-V0500--4.PCSI$COMPRESSED	8.4	Alpha

You must also install Kerberos Version 3.0 or higher.

Disk space requirement

Table 1-2 lists the disk space required for installing the software.

Table 1-2 Disk space requirements

Operating System	Disk Space (approximate block size)
OpenVMS Alpha V8.3 and V8.4	94558
OpenVMS Integrity servers V8.3, V8.3-1H1, and V8.4	108960

1.2 How to build HP CIFS sources on OpenVMS

Following are the steps to build the HP CIFS sources on OpenVMS:

1. Extract the sources provided with the HP CIFS PCSI file from `SAMBA$SRC.BCK` to a directory on your disk.

    To extract the source files after the installation completes, enter the following command:

    ```
    $ PRODUCT EXTRACT FILE SAMBA /SELECT=SAMBA$SRC.BCK/SOURCE=[TEST1]
    ```

    The PCSI utility extracts the `SAMBA$SRC.BCK` file from the kit to the `[TEST1]` directory, which is the default directory.

    NOTE: The HP CIFS source can be extracted during installation by using the steps provided in the sample installation log. For more information, see Appendix A in the *HP OpenVMS CIFS Administrator's Guide.*

    ---

2. Install the latest HP C compiler to build source files and the minimum version requirement for the same is Version 7.1.

3. Install HP Module Management System (MMS) for OpenVMS. MMS software for OpenVMS is available from OpenVMS DECSET software package.

4. Execute `BUILD.COM` in source directory.

    -   If `BUILD.COM` is executed with the `RELEASE` parameter, all the executables are placed in the `[.BIN.REL]` directory.
    -   If `BUILD.COM` is executed with the `DEBUG` parameter, all the executables are placed in the `[.BIN.DBG]` directory.

1.3 General information

This section describes the information specific to HP CIFS Server.

- Before installing HP CIFS Server Version 1.2 ECO1, ensure that you are not running HP CIFS Server version prior to Version 1.0. If a version prior to HP CIFS Server Version 1.0 exists on the system, you must remove it and then verify the following:
    1. Remove all the files under `SAMBA_ROOT:[000000]`.
    2. Logical names starting with `SAMBA*` must be deassigned.
    3. After installing HP CIFS Server Version 1.2 ECO1, if you are copying existing `SMB.CONF` file to `SAMBA$ROOT:[LIB]`, you must change the following lines:
        - `SAMBA_ROOT` with `SAMBA$ROOT`
        - `guest account = SAMBA__GUEST` with `guest account = SAMBA$GUEST`

- Users must install the latest C RTL ECO kits before installing the HP CIFS Server software. Please contact HP customer support centers to get the latest C RTL kit.

- Uninstalling the HP CIFS Server software displays a prompt whether to retain the `SMB.CONF` and `TDB` files. Selecting the "No" option removes all the files including the configuration files.

- The default `SYSUAF` account template, `SAMBA$TMPLT` can be used to create new OpenVMS user accounts for HP CIFS Server.

    For more information about how to create new OpenVMS user accounts, see the *HP OpenVMS CIFS Administrator's Guide.*

- While adding new users to OpenVMS, ensure that the UIC is unique and use `/ADD_IDENTIFIER` qualifier while creating the user. After the user is created, ensure that the user identifier matches with the user name, and the `DISUSER` flag is not set.

- The installation of HP CIFS Server creates five OpenVMS user accounts, namely, `SAMBA$SMBD`, `SAMBA$NMBD`, `SAMBA$GUEST`, `SAMBA$TMPLT`, and `CIFSADMIN`. These accounts are internal to HP CIFS Server. You are advised not to modify or change any attributes of `SAMBA$SMBD`, `SAMBA$NMBD`, and `SAMBA$GUEST` accounts.

- Executing `SAMBA$SHUTDOWN.COM` terminates all client sessions or processes in addition to stopping the NMBD process and must be run during system shutdown.

- HP CIFS Server honors only the default privileges of an OpenVMS user account.

- Migration utility will be provided as a separate kit from HP CIFS Server Version 1.1 onwards. The migration utility can be downloaded from the following web address:

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

2 Features

This chapter describes the features of HP CIFS Server. The following are some of the main features supported by the HP CIFS Server:

- HP CIFS Server can be configured as a member in any domain (NT4-style and ADS domains).
- HP CIFS Server can be configured as a member in an NT-style Primary Domain Controller (PDC) and Backup Domain Controller (BDC).
- Provides complete browser functionality.
- Supports HP CIFS Server as a Member Server in OpenVMS Cluster.
- Provides file security based on OpenVMS File Security.
- Supports ODS-5 and ODS-2 volume.
- Supports OpenVMS file formats.
- Supports ASCII, ISO-8859-1, UTF-8, and VTF-7 character-set.
- Supports shares present on NFS and DFS-mounted disks.
- Supports session security, NTLMSSP, and 128-bit encryption.
- Supports new printer drivers.

2.1 New features provided by HP CIFS Server Version 1.2 ECO1

- A directory present on ODS-2 disk can contain multiple dots upto 39 character length.
- Use `SAMBA$CONFIG.COM` even when `SMB.CONF` file explicitly includes `"lock directory"` and `"private dir"` parameters.
- Configure Windows 7 as workstation to CIFS PDC as it can inter-operate along with CIFS Server using the `SMBv1` protocol.

  To configure Windows 7 as workstation to a CIFS PDC before joining it to CIFS PDC:

  1. Disable client registry policy for NT4 domains as they do not have DNS names. The registry path is:

     ```
     HKLM\System\CCS\Services\LanManWorkstation\Parameters DWORD
     DNSNameResolutionRequired = 0
     ```

     NOTE: Windows 2008 or Windows 7 clients perform DNS name resolution validations to enable detection of mis-configured environments early.

  2. Set the value of the following policy to "Send NTLM responses only":

     ```
     Gpedit.msc/Computer Configuration/Windows Settings/Security
     Settings/Local Policies / Security Policies
     ```
     - "Network security: LAN Manager authentication level"

- If `SAMBA` share path is a search list logical, `SAMBA` will duplicate the ASV behavior and only honor the first value in search list logical.
- `testparm` utility will resolve all the logicals specified as `"path"` parameter for up to a maximum of 20 levels (that is, resolution will continue up to 20 levels).
- Samba supports system-wide and cluster-wide logicals as a path value for shares.

2.2 Features provided by HP CIFS Server Version 1.2

- Improved installation and automated HP CIFS Server configuration and management
- HP CIFS Server as member in Windows ADS Realm
- File security improvements:

- — Simplify the use of mask and mode `SMB.CONF` parameters
- — Support for DELETE protection bit with mask and mode `SMB.CONF` parameters
- — Ability to set DELETE protection bit from Windows for OWNER/GROUP/WORLD RMS protection mask
- — Retain VMS ACE order while setting security
- — Map default_protection ace to create owner/group on windows
- Performance enhancements:
  - — Storing file size in an ACE for non-stream format files
  - — Utility to automatically update file length hint values for Sequential VAR and VFC format files
  - — Creation of TDB files using the optimized FDL file
  - — Open file caching
- ODS-2 volume support:
  - — Directory enumeration performance improvement
  - — Handle extended ASCII characters in filenames
  - — Allow 79 character length filenames
- Support for fixed and undefined format file creation
- Support for share security migration from ASV to CIFS
- New CIFS utilities and improvements to existing utilities
- Support for different id map back ends

2.3 Features provided by HP CIFS Server Version 1.1 ECO1

The section lists the new features provided in this release:

- Supports CONTROL flag.
  - **a.** When security is set on a file from a Windows system, the "Full Permission" have been mapped to READ+WRITE+EXECUTE+DELETE+CONTROL permission for that ACE on the OpenVMS system.
  - **b.** Windows "Take Ownership" and "Change permission" have been mapped to CONTROL on OpenVMS system.
  - **c.** The normal user who has "Full Permission", "Take Ownership" or "Change Permission" on a file/folder can now grant permissions to other users/groups for that particular file/folder.
- Allows administrators to modify owner of the file/folder by changing the ownership to either a Windows domain-user/-group or HP CIFS-user/-group.
- Supports the reading of sequential files with record formats of Fixed Length, Undefined, and files with Indexed file organization.
- Allows HP CIFS Server to create files in a `Stream_LF` record format using the new `SMB.CONF` share level parameter `vms rms format` (rather than the default Stream record format).

> 📝 **NOTE:**   Previously, this feature was controlled using the `vfs objects` parameter with a value of `streamlf`.

By default, the value for `vms rms format` parameter is `stream`.

To create files with a `Stream_LF` record format, specify the following in the share section of the `SMB.CONF` file for the applicable share:

```
vms rms format = streamlf
```

NOTE: The parameter `vfs objects = varvfc` has to be added either for each share definition or in the `[global]` section of the `SMB.CONF` file.

- Creates SMBD process dumps in a single directory.

  HP CIFS Server Version 1.2 for OpenVMS provides a logical `SAMBA$PROCDMP`, which can be defined system-wide. In case there is an abnormal termination of the SMBD process, the SMBD process dump is created in the directory pointed by this logical.

- SMBSTATUS displays node specific HP CIFS Server information by using the option `--nodename=<nodename>`
- Supports migration from Advanced Server PDC to HP CIFS Server PDC.
- Supports Windows 2008.

  To support this feature, set the global `SMB.CONF` parameter "`require strongkey`" to "`yes`" as shown:

  ```
  [global]
  require strongkey = yes
  ```

2.4 Features provided by HP CIFS Server Version 1.1

The section lists the features provided by HP CIFS Server Version 1.1:

- The code is based on Samba Version 3.0.28a
- Improved performance of HP CIFS Server software
- Improved compatibility with Windows Vista clients
- Supports port 445
- Supports Primary Domain Controller (PDC)
- NTLMv2 support for Windows Vista clients
- VFC file support
- Improved TDB handling

  To improve the TBD performance, hashing algorithm used for generating the TDB keys has been changed. Thus, after installing HP CIFS Server Version 1.1 on the existing HP CIFS Server Version 1.0 kit, HP CIFS Version 1.0 TDB files needs to be migrated to Version 1.1 TDB files. During installation of HP CIFS Version 1.1, a TDB migration utility will automatically migrate HP CIFS Server Version 1.0 TDB files to HP CIFS Server Version 1.1 TDB files.

- Inheritance of ACLs set on parent objects to child objects
- "OPTIONS=DEFAULT" and "DEFAULT_PROTECTION" support in ACEs

3 Problems fixed

This chapter describes the problems fixed in HP CIFS Server.

Define `SMBMANAGE` symbol to `SAMBA$ROOT:[BIN]SAMBA$MANAGE_CIFS.COM`

`SAMBA$MANAGE_CIFS.COM` is used to manage the HP CIFS Server shares, users, groups, account policies, and trusts. A symbol should be used to execute `SAMBA$MANAGE_CIFS.COM`.

ODS-2 disk related fixes

- Memory leak as a part of encode or decode on ODS-2 disk
- If the "homes" share login directory is on ODS-2 disk, the user cannot delete the file even with valid permissions. This problem is seen when `vms path names` parameter is set to 'no'
- ODS-2 convert utility used to convert an ODS-2 disk to ODS-5 disk fails
- ODS-2 security issue
- With HP CIFS Version 1.2, the security tab is missing for shares present on an ODS-2 disk

`tdbbackup` utility crash

The `tdbbackup` utility uses a default `.bak` suffix and due to double dot (..) issue in an ODS-2 disk, the `tdbbackup` file creation fails.

Creation of multiple `KRB5.CONF` files in the `SAMBA$ROOT` directory

Multiple `KRB5.CONF` files are created when ADS security mode is used in the `SAMBA$ROOT:[VAR.KRB]` directory.

Unable to configure CIFS Server as a Member Server to Windows 2008 R2 domain

HP CIFS Version 1.2 is unable to join W2k8r2 domain using ADS as a Member Server.

User account created using `SAMBA$MANAGE_CIFS.COM` set to incorrect password

When the script to manage the HP CIFS Server shares, users, groups, account policies, and trusts; `SAMBA$MANAGE_CIFS.COM` is used, the accounts that are created with this utility displays the incorrect password message even if the user types the correct password.

Issues in `SAMBA$CONFIG.COM`

- Screen setting remains at "Echo Off" when `SAMBA$CONFIG.COM` is interrupted while the user is prompted for a password, leading to the commands or instructions passed after setting password being not seen on the terminal.
- When the `Print` command option is changed using `SAMBA$CONFIG.COM`, it acquires an incorrect value.

Channel leak when accessing shares through Windows

Channel leak occurs when a CIFS share is accessed through a Windows client.

Buffer-overrun vulnerability issue

Stack-based buffer overflow in the sid_parse function in Samba prior to version 3.5.5 allows remote attackers to cause a denial of service (crash) and possibly execute arbitrary code through a crafted

Windows Security ID (SID) on a file share. CVE-2010-3069 was released by Open source Samba for the same.

LAT printers not shared

LAT printers cannot be shared on the network using CIFS.

UTF-8 charset is mis-spelled as UTF8

UTF-8 support on CIFS as default UNIX charset is incorrect.

Issues in using Unigraphics CAD

Issues are seen while creating files on Samba from TCL scripts within Unigraphics computer aided design (CAD).

NMBD crashes

If the system identifier `UIC` does not match with the system username, the NMBD process crashes and the dump files are formed in the current directory instead of the designated `SAMBA$ROOT:[VAR.CORES.NMBD]` directory.

Issues while performing file operations

When a share has the path of a search list logical, and that logical in turn has files with same name and same version numbers in different directories pointed by it then there are issues in accessing or creating and deleting files. This also leads to data corruption and mismatch.

`testparm` utility displays incorrect path

`testparm` utility incorrectly translates the path in `SMB.CONF` for the shares, when the path is a search list logical.

`testparm` utility modifies UNIX path names

`testparm` utility modifies the UNIX path names which contain logicals to OpenVMS path names. This happens when `vms path names` parameter is set to 'no'.

Cannot print a document using `VARVFC` module

For a printer share corresponding to a LPD printer queue, when the share has `VARVFC` module loaded, the crash occurs when printing from a client using a WordPad application.

Issue in recognizing Unicode characters

Unicode characters from `^A0-^FF` are not recognized by CIFS.

Unable to see file protection when VTF module is used

When using VTF module in `SMB.CONF`, the permissions set to files using ACLs is not honored. The use of the following parameters in `SMB.CONF` prevent the use of ACLs and show only the protection of the owner, group, and world on the Windows.

```
unix charset = UTF-8
dos charset = CP850
vfs objects = vtf
vms path names = no
```

VFC files show truncation

VFC files with print attribute having valid file hint values are truncated when opened on Windows. The file size for VFC PRN files is calculated by reading the entire file irrespective of the file hint values being valid or invalid on ODS-5 disk. For the VFC files with other attributes, the file size is calculated using the file hint values.

MultiNet server does not restart

MultiNet server does not restart whenever SMBD services are enabled or disabled, and SMBD processes do not terminate when SMBD services are disabled.

Files that are known to exist are not listed on the CIFS share

Using Windows Explorer on a mapped network drive, files that are known to exist are not listed on the CIFS share.

Problem handling StreamLF and record formatted files

HP CIFS Server does not support `StreamLF` and `VARVFC` VFS object specification (`vfs objects=varvfc streamLF`) in a share.

Unable to access Home share on ODS-2 disks

OpenVMS users who have a login directory pointing to an ODS-2 disk are not able to access the home share present on the ODS-2 disk.

HP CIFS Server does not honour permissions for built-in group users or resource Identifier cifs$users

When a user accesses an HP CIFS share that has full permission granted for the built-in group `Users` or the resource identifier `cifs$users` associated with it, the user is unable to access the share.

Unable to rename/delete file if host owner has no permission

If two VMS users belonging to the same UIC group and the group has no permission to delete a folder, one corresponding domain user cannot delete or rename the files created by the other user. This happens despite the resource identifier granted to these accounts has full permissions to do so.

Unable to access files if user is mapped by `username.map` file

If a domain user is host mapped to a VMS user using file, the permissions granted to a share for the domain group to which the user belongs is not honoured.

Unable to set share permissions using computer management

With HP CIFS Server Version 1.1, an administrator cannot set share permissions using Computer Management utility present on Windows.

SMBD process crashes during file creation/modification/deletion in a share

SMBD crashes if `change notify = no` is not present in the `SMB.CONF` file and/or also if the share path name in the `SMB.CONF` file is a logical name instead of the full VMS pathname.

HP CIFS Server ignores "vms path names" set to "no"

Share path names in UNIX path format existing on ODS-5 disk get converted to VMS path format, even if `vms path names = no` is specified for the share.

SMBD process crashes at multiple places

SMBD process crashes at multiple places due to memory corruption.

TDB migration utility crashes while migrating HP CIFS Version 1.0 TDBs

During installation of HP CIFS Server Version 1.1 kit, TDB migration utility crashes while migrating HP CIFS Version 1.0 format TDBs to HP CIFS Version 1.1 format TDBs.

Unable to print a document if data exceeds buffer size

After the spool file is created during a print operation and if the data exceeds the user's buffer size, the document is not printed.

NET RPC GROUP MEMBERS crashes while listing global group members

When $ NET RPC GROUP MEMBERS is executed, sometimes it results in a NET utility crash.

User permissions disappear while setting permissions on files

In some cases, while setting permissions on files or folders from Windows the existing user permissions might disappear.

Too Many Audit Log Messages for Process Creation

For each SMBD process creation, audit messages are logged leading to the accumulation of log messages.

SMBD process loops during directory enumeration from Windows

With HP CIFS Server Version 1.1, SMBD process loops during directory enumeration from Windows if the share section contains the following SMB.CONF parameters:

```
[sharename]
vms path names = no
vfs objects = vtf
```

Audit/Alarm messages generated while trying to access a File

When a non-privileged user who is not an OWNER of a file tries to access the file having READ, WRITE, DELETE, and EXECUTE protection for WORLD, the following audit/alarm message gets logged:

```
"%SYSTEM-F-NOPRIV, insufficient privilege or object protection violation"
```

NET RPC VAMPIRE utility crashes while migrating user accounts

When NET RPC VAMPIRE utility is executed to migrate user accounts, it crashes with the following error message:

```
%SYSTEM-F-ACCVIO, access violation, reason mask=04,
virtual address=00000000000002EE, PC=00000000005C30A0, PS=0000001B
%TRACE-F-TRACEBACK
```

SMBD process crashes when servicing two user sessions

From a Windows client that is a member of the HP CIFS PDC, if two different user sessions are established to the HP CIFS Server, it leads to the abnormal termination of the SMBD process that serves these session requests.

SMBD process crashes if the SYSUAF file has READ access to WORLD

When READ permission is granted to WORLD for the System Authorization file instead of the default protection, and when a normal user tries to connect to the HP CIFS Server, the SMBD process created for this user session abnormally terminates.

Unable to print to HP CIFS Server from a normal domain account

Unable to print to an HP CIFS Server when the session to the HP CIFS Server is established using a normal domain user account and this account is mapped to the VMS host account with minimum privileges using username map file.

Accumulation of browse.dat files in cluster

When the HP CIFS Server is configured on multiple nodes in a cluster that uses common `SAMBA$ROOT` disk, all the nodes running the HP CIFS Server uses the same `browse.dat` file. This leads to an accumulation of `browse.dat` files as there is no synchronization in writing to the `browse.dat` file.

4 Known problems

This chapter describes the known problems in HP CIFS Server.

Issues in cluster when `ALLOCLASS` SYSGEN parameter is set to 0

Problem:

If `ALLOCLASS` SYSGEN parameter is set to 0 and if you run CIFS in cluster where more than one node share the same `SAMBA$ROOT` installation directory, the following problem is observed:

When two Windows clients connect to CIFS Server on two different nodes in a cluster and try to open the same file, there is no way for CIFS to know that the clients are trying to open the same file. This can lead to unpredictable results.

Workaround:

Use one of the following solutions:
- Set `ALLOCLASS` SYSGEN parameter to non-zero value.
- Each node must have the following:
    — `ALLOCLASS` value that is different from all other nodes in the cluster
    — To obtain a `DECC$SHR` image, contact HP Support Center.

Kerberos authentication fails

Problem:

When CIFS is configured as Member Server to a Windows domain using ADS security mode, if the user is a member of many groups, Kerberos authentication for the user fails.

Workaround:

You must install Kerberos patch. Contact HP Support Center to obtain the Kerberos patch.

Issues if the logical name translation exceeds 1024 characters

CIFS supports the logical name translation up to 20 levels. If the logical name translation exceeds 1024 characters, it might cause unexpected behavior from Samba.

Workaround:

There is no workaround. HP will address this problem in a future release of HP CIFS Server.

Problem in accessing share when configuration of Samba server is changed

When changing the configuration of Samba server from "Member Server with security = ADS" to any other security mode, it might lead to problems in accessing the shares with the new configuration.

Workaround:

Execute `NET ADS LEAVE` command when changing the configuration of HP CIFS Server.

NET RPC VAMPIRE utility fails

Problem:

`$NET RPC VAMPIRE "-S" <AS-NODE-NAME> "-U<adminusername>%password"` command fails with the following error message:

```
Fetching DOMAIN database
```

```
Receiving SMB: Server stopped responding
```

```
rpc_api_pipe: Remote machine<AS-NODE-NAME> pipe \NETLOGON fnum
0x4returned critical error.
```

```
Error was Call timed out: server did not respond after 10000 milliseconds
Failed to fetch domain database: NT_STATUS_IO_TIMEOUT
```
This occurs due to timing issues.

Workaround:

Execute the command with the debug log level 10 as shown:

```
$NET RPC VAMPIRE "-S" <AS-NODE-NAME> "-U<adminusername>%password" -d10
```

NET RPC VAMPIRE utility response delayed

Problem:

`$NET RPC VAMPIRE "-S" <AS-NODE-NAME> "-U<adminusername>%password"` takes a long time to respond.

This command tries to communicate through port 445, which takes a long time to respond.

Workaround:

The solution is to hard code the port number to 139 as shown:

```
$NET RPC VAMPIRE "-S" <AS-NODE-NAME> "-U<adminusername>%password" --port
139
```

NET RPC JOIN or NET RPC TESTJOIN fails with an error message

Problem:

While configuring HP CIFS Server as member server to a domain with Advanced Server for OpenVMS (ASV) as PDC in a cluster environment, the following error message is displayed:

```
Error in domain join verification (credential setup failed):
NT_STATUS_INVALID_COMPUTER_NAME
```

Workaround:

If the cluster alias name exists for ASV, you must specify the ASV cluster alias name when attempting to communicate with the ASV. This can be done using "-S" or "–server" option on the NET commands and in HP CIFS Server utilities.

Protections and ACLs are not displayed correctly

Problem:

Protections and ACLs are not displayed correctly on Windows by right-clicking and selecting Properties -> Security option.

Workaround:

In order to avoid this problem, click on "Advanced" tab on the Properties dialog box to view the correct values set on a particular file or directory. HP will address this problem in a future release of HP CIFS Server .

SMBPASSWD utility crash

Problem:

Unprivileged users attempting to change the password by using the SMBPASSWD utility results in a crash.

Workaround:

An administrator can log in to OpenVMS system using a privileged account and use SMBPASSWD utility to modify user passwords.

On a Windows client, user can change the password by pressing Ctrl+Alt+Delete and then clicking the "change password" button.

"The Network Name cannot be Found" error message

"The network name cannot be found" is a common error message and is due to one of the following misconfigurations:

- User trying to access the share does not have sufficient permissions. To access the share, user needs to be granted the Read (r) permission
- User specified a share name that does not exist.

File size allocated on the disk is more than the actual file size

Problem:

When an attempt is made to save a text file using Notepad application, the following error message is displayed:

`"file already exists, do you want to overwrite"`

When you overwrite the file, it occupies 10000 blocks (5MB) even though the size of the file is just 1 block.

Workaround:

Edit `SAMBA$SMBD_STARTUP.COM` file and change the value for /EXTEND_QUANTITY as shown:

```
$ SEARCH [BIN]SAMBA$SMBD_STARTUP.COM;1 10000
$ SET RMS_DEFAULT /EXTEND_QUANTITY=1
$!
```

HP CIFS utilities crash

Problem:

Executing HP CIFS Server utilities such as `PDBEDIT` from a user account that does not match the Rights Identifier results in a crash.

Workaround:

There is no workaround. HP will address this problem in a future release of HP CIFS Server.

NET RPC JOIN command fails

Problem:

When using the "-I" option with the $ NET RPC JOIN command, it fails with the following error message:

```
$ NET RPC JOIN "-UADMINISTRATOR%IONETADM$1" "-I" 16.113.6.131
[2007/10/11 17:35:28, 0] SAMBA$SRC:[SOURCE.UTILS]NET_RPC_JOIN.C;1:(349)
Error in domain join verification (credential setup failed):
NT_STATUS_INVALID_COMPUTER_NAME
Unable to join domain IONETW2K3
```

Workaround:

There is no workaround. HP will address this problem in a future release of HP CIFS Server.

Problem with user mappings stored in username.map file

Problem:

User mappings stored in the `username` map file do not work if the file format is other than Stream record format.

Workaround:

In order to avoid this problem, ensure that you use the `username.map` file located in the directory `SAMBA$ROOT:[LIB]`. If you create a user name map file on OpenVMS system, convert the file to Stream record format by executing the following command:

```
$ SET FILE/ATTRIBUTE=(RFM:STM,MRS:0,LRL:0) SAMBA$ROOT:[LIB]<USERNAME
MAP FILENAME>
```

Problem with VFS sharable on a share

Problem:

On ODS-2 disk, if you specify "VARVFC" VFS sharable on a share, server becomes slow and sometimes operation fails due to large number of files.

Workaround:

There is no workaround. HP will address this problem in a future release of HP CIFS Server.

"net time" utility crash

Problem:

On OpenVMS Alpha, "net time" utility crashes with "-d2" option.

Workaround:

There is no workaround. HP will address this problem in a future release of HP CIFS Server.

Telnetsymbion print queues prints arbitrary characters

Problem:

If HP CIFS Server is configured with Telnetsymbion printer queue and tries to print a text file using the Notepad, an arbitrary character is printed.

Workaround:

Use the DCPS or LPD OpenVMS print queue which provides libraries by default. HP will address this problem in a future release of HP CIFS Server.

Setting client capacity with SAMBA$CONFIG

Problem:

The client capacity is to set to double the number that is specified. Since HP CIFS Server Version 1.1 provides support for connection on TCP port 445 (SMB over TCP/IP) in addition to TCP port 139 (SMB over NetBIOS TCP/IP), the "client capacity" set by `SAMBA$CONFIG.COM` is really double what the administrator specifies.

For example, if the `admin` specifies a value of 50, the SMBD445 service has a limit of 50 and so does the SMBD service.

Workaround:

You can divide the client capacity numbers between the 139 and 445 ports. HP will address this problem in a future release of HP CIFS Server.

Issues while adding Advanced Server for OpenVMS as Member Server

Problem:

While adding Advanced Server for OpenVMS as a member server to HP CIFS PDC, there are issues while establishing secure channel with HP CIFS PDC, admin logon and so on.

Workaround:

There is no workaround and this is a limitation due to Advanced Server.

Using groups in Username map file does not work

Problem:

The functionality of using a group name in the `username.map` file does not work.

Workaround:

There is no workaround. HP will address this problem in a future release of HP CIFS Server.

Issues with NET RPC TRUSTDOM commands

Problem:

If you are trying to add a trust without a corresponding OpenVMS account (with the name <domain>$) fails without any error message. The command completes as though it is successful but actually it has failed.

If you are trying to list the trusted domain entries containing the word "none" even when there are valid entries in the list.

Workaround:

There is no workaround. HP will address this problem in a future release of HP CIFS Server.

NMBD Process starts looping when configured for WINS server

Problem:

When HP CIFS Server is configured for `WINS` server with the following setting in the `SMB.CONF` file:

```
[global]
wins support = yes
dns proxy =yes
```

NMBD process becomes compute bound

Workaround:

Currently, HP CIFS does not support `dns proxy` parameter. So, set the `dns proxy = no` in the `SMB.CONF` file. HP will address this problem in a future release of HP CIFS Server.

Problems with share level security

Problem:

Share level security does not allow any users to login.

Workaround:

You must have `SAMBA$GUEST` account in the `passdb.tdb` database. HP will address this problem in a future release of HP CIFS Server.

NET RPC FILE CLOSE command does not work

Problem:

When the user tries to close an open file using `NET RPC CLOSE FILE <fileID>` command, it fails without any error message.

Workaround:

There is no workaround. HP will address this problem in a future release of HP CIFS Server.

Cannot login to Windows Vista with Microsoft Signing enabled

Problem:

Currently, with SMB signing enabled on client ("`Microsoft network client: Digitally sign communication (always)`") and server, Windows client can be added successfully as a workstation to the domain. But after joining the domain successfully, Windows cannot login using the HP CIFS account and the following error message is displayed:

`"The trust relationship between this workstation and the primary domain controller failed."`

With "`Microsoft network client: Digitally sign communication (if server agrees)`" enabled both joining and login works fine.

Workaround:

There is no workaround. HP will address this problem in a future release of HP CIFS Server.

5 Limitations

This chapter describes the limitations in HP CIFS Server. The limitations that are applicable to HP CIFS Server on OpenVMS Integrity servers are also applicable to HP CIFS Server on OpenVMS Alpha.

- A file without an extension cannot be created if a directory of same name exists.
- Advanced Server for OpenVMS cannot be configured as a Member Server to the HP CIFS PDC due to technical limitations.
- With HP CIFS Server, it is not possible to access or create a directory containing ″.″ (dot) in its name when the directory is located on an ODS-2 disk.
- HP CIFS Server does not support external authentication.
- The `SMB.CONF` printing parameter is hard-coded to the value "OpenVMS" and cannot be changed.
- The `SMB.CONF` load printers parameter is hard-coded to the value "NO" and cannot be changed.
- Printcap file is not supported on HP CIFS Server.
- If the file share are present on ODS-2 disk, HP CIFS Server does not support Unicode characters in file names.
- HP CIFS Server does not support Windows Administrative tools such as User Manager.
- HP CIFS Server does not support SMB File Systems (SMBFS).
- The Windows 200x or Windows XP Microsoft Management Console (MMC) cannot be used to manage HP CIFS Server.
- While using the VTF modules you cannot create directories with non-ASCII characters on Windows.
- HP CIFS Server does not support `SMBPASSWD` backend.
- HP CIFS Server does not support `"smbcquotas"` utility as the quotas are not supported by the VMS server.
- On HP CIFS Server, there is a limit on the maximum number of users that can be created automatically. This restriction is due to the `SYSUAF` database group on OpenVMS as the UIC value cannot be greater than 37776 (Octal) which equals to 16382 (decimal). If the number of automatically created users exceeds the limit, then HP CIFS Server fails with the following error message in the log file if the log level is set to greater than 5.

  ```
  334598850
  ```

  ```
  Which translates to %UAF-E-UICERR, error in UIC specification.
  ```

- If HP CIFS Server is configured as PDC, the name of the workstations that are getting added to HP CIFS Server PDC must not exceed 11 characters. This limitation is due to the OpenVMS user name length limited to 12 characters in `SYSUAF` database.
- `SMBSTATUS` utility does not display session information for anonymous sessions. This is by design as storing anonymous session information in `sessionid.tdb` is expensive.