



Hewlett Packard
Enterprise

HPE Common Internet File System (CIFS) Server Release Notes

Version B.04.05.03.00 for HP-UX 11i v3

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HPE secure development lifecycle

Starting with HP-UX 11i v3 March 2013 update release, HPE secure development lifecycle provides the ability to authenticate HP-UX software. Software delivered through this release is digitally signed using HPE's private key. You can now verify the authenticity of the software, before installing the products, delivered through this release.

To verify the software signatures in signed depot, the following products must be installed on your system:

- B.11.31.1303 or later of SD (Software Distributor)
- A.01.02.00 or later of HP-UX Whitelisting (`WhiteListInf`)

To verify the signatures, run: `/usr/sbin/swsign -v -s <depot_path>`

For more information, see Software Distributor documentation at <http://www.hpe.com/info/sd-docs>.

NOTE:

Ignite-UX software delivered with HP-UX 11i v3 March 2014 release or later supports verification of the software signatures in signed depot or media, during cold installation. For more information, see Ignite-UX documentation at <http://www.hpe.com/info/ignite-ux-docs>.

HPE Common Internet File System (CIFS) Server version B.04.05.03.00 release notes

Announcement

This document describes HPE CIFS SERVER changes and other information.

HPE CIFS server B.04.05.03.x is based on the open source samba 4.5.3 for IPF systems and Samba 3.6.6 (HPE CIFS SERVER A.03.02.07) for PA-RISC systems.

NOTE:

The HPE CIFS Server 03.02.x and 03.01.x will reach end of support by 31 August 2017. It is recommended to upgrade to CIFS Server B.04.05.03.x at the earliest.

Product revision number

New versions of HPE Common Internet File System (CIFS) Server are identified by the product revision number (**B.xx.xx.FF**), and is either a feature or fix release.

Feature releases include new functionality or new Samba source version. The base product revision number (**B.xx.xx**) is increased from the previous version number. A fix suffix number is not used.

Fix releases include only those changes required to correct specific defects. The base product revision number (**B.xx.xx**) is unchanged. Only the fix suffix number (**B.xx.xx.FF**) is increased.

Installation and patch requirements for HPE Common Internet File System (CIFS) Server B.04.05.03.00

Operating system requirements

HPE Common Internet File System (CIFS) Server B.04.05.03.00 can be installed on HP 9000 or HPE Integrity systems running HP-UX 11i v3.

HPE Common Internet File System (CIFS) Server installation requirements

HPE Common Internet File System (CIFS) Server requires approximately 215 MB of disk space for installation on an HP-UX 11i v3 system. HPE Common Internet File System (CIFS) Server source code files requires approximately 36 MB of disk space.

HP-UX memory and disk requirements

The minimum requirements of 64-bit HP-UX 11i v3 systems is 1 GB RAM and 2 GB disk space. HPE recommends the following minimum memory and disk requirements to enable upgrade and maintenance:

— HP-UX 11i v3 64-bit – 1 GB RAM for each CPU – 2 to 8.5 GB of disk space.

LDAP-UX requirements

LDAP-UX Version B.05.02 or later is required for client Services which enables CIFS Server to use a centralized LDAP directory server for unified authentication, access control policy and name service information. You can download LDAP-UX Integration (LDAPUX) product from the Software Depot website: <https://h20392.www2.hp.com/portal/swdepot/index.do> in the search field, enter LDAPUX.

Kerberos product requirements

Kerberos v5 Client version E 1.6.2.10 or later is required to support HPE Common Internet File System (CIFS) Server integration with Windows® 2003 or later ADS Domain Controller (DC) on HP-UX 11i v3 systems.

You can download the Kerberos v5 Client (KRB5CLIENT) product from the Software Depot website: <https://h20392.www2.hp.com/portal/swdepot/index.do>.

In the search field, enter KRB5CLIENT.

What is new in HPE Common Internet File System (CIFS) Server B.04.05.03.00

New Features

Client tools support SMB2/3

Client tools and client library that works over the new protocols are SMB2 or SMB3.

NOTE:

SMB3 only works either to a Samba server version 4.0.0 or later, or to a Windows Server running Windows 2012 or Windows 8.

For example,

- To connect using SMB3 with smbclient, enter **smbclient //server/share -Uuser%password -mSMB3**.
- To connect using SMB2 using smbcacls, enter **smbcacls //server/share -Uuser%password -mSMB2 filename**.

Encrypted transport

To enable this, add the "-e" option to the smbclient command line.

smbclient //Win2012Server/share -Uuser%password -mSMB3 -e

Server-Side Copy Support

Clients using server-side copy support, such as Windows Server 2012, will experience considerable performance improvements for file copy operations.

SMB2 leases

SMB2 protocol allows clients to aggressively cache files locally above and beyond the caching allowed by SMB1 and SMB2 oplocks.

tdb improvements

The tdb library mechanism to store Samba-specific data on disk and share it between processes, has been improved to support process shared robust mutexes. It significantly reduce the overhead involved with tdb. To enable mutexes for tdb, set **dbwrap_tdb_mutexes:* = yes** in the [global] section of **smb.conf**.

Logging

Logging now supports logging to multiple backend. For more information, see the 'logging' parameter in the **smb.conf** manpage.

Asynchronous flush requests

Flush requests from SMB2/3 clients are handled asynchronously and do not block the processing of other requests. Note that 'strict sync' has to be set to 'yes' for Samba to honor flush requests from SMB clients.

ntlm_auth

Using the '--offline-logon' enables ntlm_auth to use cached passwords when the DC is offline.

Allow '--password' force a local password check for ntlm-server-1 mode.

smbstatus

The 'smbstatus' is enhanced to show the state of signing and encryption for sessions and shares.

smbget

The -u and -p options for user and password were replaced by the -U option that accepts username[%password] as in many other tools of the Samba suite. Similarly, smbgetrc files do not accept username and password options any more, only a single "user" option which also accepts user%password combinations. The -P option was removed.

Sub commands

smbclient subcommands

Query a directory for change notifications: notify <dir name>

Server side copy: scopy <source filename> <destination filename>

rpcclient subcommands

netshareenumall	Enumerate all shares
netsharegetinfo	Get Share Info
netsharesetinfo	Set Share Info
netsharesetdfsflags	Set DFS flags
netfileenum	Enumerate open files
netnamevalidate	Validate sharename
netfilegetsec	Get File security
netsessdel	Delete Session
netsessenum	Enumerate Sessions
netdiskenum	Enumerate Disks
netconnenum	Enumerate Connections
netshareadd	Add share
netsharedel	Delete share

Behavioral changes compared to CIFS-SERVER 3.x

- NTLMv1 authentication is disabled by default to improve security. The default value for the "ntlm auth" option is changed to "no" from "yes".
- Samba Web Administration Tool (SWAT) is not available.
- wbinfo binary option -c, -C, -l and -L are removed.
- wbinfo binary will not list sid when querying users or groups.
- samba_setup script is removed.
- Values for "dos charset" and "unix charset" parameters are case sensitive.

For further incompatibles check the below links provide by open source community:

- https://wiki.samba.org/index.php/Samba_4.0_Features_added/changed
- https://wiki.samba.org/index.php/Samba_4.1_Features_added/changed
- https://wiki.samba.org/index.php/Samba_4.2_Features_added/changed
- https://wiki.samba.org/index.php/Samba_4.3_Features_added/changed

- https://wiki.samba.org/index.php/Samba_4.4_Features_added/changed
- https://wiki.samba.org/index.php/Samba_4.5_Features_added/changed

Features of Open source Samba 4.5.3 that are not supported on HP-UX

Following features of open source are not supported by HP-UX CIFS Server B.04.05.03.00

- Active Directory Domain Controller
- Extended ACL
- Cluster component CTDB
- LDAP's sign and seal features

Features enabled by HPE

1. Following parameters of smb.conf available in legacy releases are made available in CIFS Server B.04.05.03.00
 - ldapservers
 - sslcertpath
 - winbindcacheuglist
 - largedirectorysearchpriority
 - diskquotas
 - unixignoremask
2. smbnull is by default guest user instead of nobody.

Defect fixes in HPE Common Internet File System (CIFS) Server

This chapter describes in detail about various defects fixed in each release and the enhancements.

None for Version B.04.05.03.00

Known problems, issues, limitations, and workaround

This chapter explains in detail about various problems, issues, limitations, and their workarounds for HPE Common Internet File System (CIFS) Server.

None for Version B.04.05.03.00

Support and other resources

Information to collect before contacting HPE

Be sure to have the following information available before you contact HPE:

- Software product name
- Hardware product model number
- Operating system type and version
- Applicable error message
- Third-party hardware or software
- Technical support registration number (if applicable)

How to contact HPE

Use the following methods to contact HPE technical support:

- In the United States, see the Customer Service/Contact HPE United States website for contact options: <https://www.hpe.com/us/en/support.html>
- In the United States, call 1-800-HPE-INVENT (1-800-474-6836) to contact HPE by telephone.
This service is available 24 hours a day, 7 days a week.
For continuous quality improvement, conversations might be recorded or monitored.
- In other locations, see the Contact HPE Worldwide website for contact options: <https://www.hpe.com/us/en/support.html#>

Subscription service

HPE recommends that you register your product at the Subscriber's Choice for Business website: <https://h41360.www4.hpe.com/alerts-signup.php>.

After registering, you will receive email notification of product enhancements, new driver versions, firmware updates, and other product resources.

Related information

The following website provides related information for the product HPE Common Internet File System (CIFS) Server and all other related products on the HPE's Software Depot Homepage: <https://h20392.www2.hpe.com/portal/swdepot/index.do>.

Typographic conventions

This document uses the following typographical conventions:

- | | |
|----------------|---|
| \$, # | A percent sign represents the C shell system prompt. A dollar sign represents the system prompt for the Bourne, Korn, and POSIX shells. A number sign represents the superuser prompt. |
| Command | A command name or qualified command phrase. |

**Computer
output**

Text displayed by the computer.

{

The contents are required in syntax. If the contents are a list separated by |, you must choose one of the items.

|

Separates items in a list of choices.

NOTE

A note contains additional information to emphasize or supplement important points of the main text.

Related documentation

For more information about HPE Common Internet File System (CIFS) Server, see the following documents:

- *HPE Common Internet File System (CIFS) Server Administrators Guide*, is available at: <http://www.hpe.com/info/hpux-CIFS-docs>.
- Release Notes for this version and for previous versions of HPE Common Internet File System (CIFS) Server are available at: <http://www.hpe.com/info/hpux-CIFS-docs>.

Software and documentation availability in native languages

The product is supported only in English locale (*LANG=C*). Behavior of the product is unpredictable when *LANG* value is set to any other language code other than C. Documentation support for this product is also available only in English locale.

Reporting defects

You can report defects related to HPE Common Internet File System (CIFS) Server product, by filing a request on [QuIX](#).

If you do not have access to [QuIX](#), contact your local HPE representative to file a defect on your behalf.

Documentation feedback

HPE welcomes your feedback. HPE is committed to providing documentation that meets your needs. To help us improve the documentation, send any errors, suggestions, or comments to Documentation Feedback (docsfeedback@hpe.com). Include the document title and part number, version number, or the URL when submitting your feedback. All submissions become the property of HPE.

More on HPE Common Internet File System (CIFS) Server documentation

For more information on documentation and other manuals of HPE Common Internet File System (CIFS) Server, see [HP-UX Common Internet File System \(CIFS\) Client/Server Software](#).

Support policies for HP-UX

For more information about support policy of HP-UX, see [HP-UX Support Policy](#).