

Centrify for Samba (ADBindProxy) 5.6.1 Release Notes

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1.About This Release

Centrify for Samba is a proxy agent package that seamlessly integrates the Centrify DirectControl Agent for *NIX in Centrify Zero Trust Privilege Services (previously called Centrify Infrastructure Services) with open source Samba (referred to as stock Samba in this document), enabling the two products to share Active Directory user and group membership and to agree upon Unix identity attributes for Active Directory users. It is a proxy that passes identity management requests from Samba to Centrify DirectControl Agent for *NIX.

The documentation, Samba Integration Guide (centrify-adbindproxy-guide.pdf), is available online to guide customers through the setup

and configuration of Centrify for Samba in both new and existing environments.

The latest copies of this release notes as well as the above-mentioned documentation are available online at <http://docs.centrify.com>.

Centrify software is protected by U.S. Patents 7,591,005; 8,024,360; 8,321,523; 9,015,103; 9,112,846; 9,197,670; 9,378,391 and 9,442,962. (Ref: CS-44575)

2. Package Contents

The Centrify for Samba bundle package contains the following resources:

- Centrify for Samba software package (e.g. CentrifyDC-adbindproxy-<version#>-<OS>.<architecture>.rpm, or similar platform specific package file)
- Centrify for Samba Release Notes (Centrify-Adbindproxy-Release-Notes.html - this release notes)

3. Supported Platforms

The Centrify for Samba bundle package is available on the following OS/platforms in this release:

- HPUX on Itanium
- HPUX on PA-RISC
- IBM AIX on PPC
- Oracle Solaris on SPARC
- Oracle Solaris on x86_64
- Ubuntu on x86_64
- Red Hat Enterprise Linux on PPC
- Red Hat Enterprise Linux on PPC64LE
- Red Hat Enterprise Linux on x86_64
- SUSE Linux Enterprise Server on x86_64

This Centrify for Samba release supports stock Samba version 4.0 to 4.11. You are strongly advised to apply the latest security patches from Samba first before deploying Centrify for Samba.

For the OS versions that a Centrify for Samba bundle package supports, please refer to the supported OS versions of the matching Centrify DirectControl Agent for *NIX package of the corresponding Centrify Zero Trust Privilege Services release. Similarly, Centrify for Samba also follows Centrify DirectControl Agent for *NIX's schedule for End-of-Support platforms and hence please refer to the announcements there.

4. Feature Changes

4.1. Feature Changes in Centrify for Samba 5.6.1

This release of Centrify for Samba works with Centrify Infrastructure Services 2017 and up.

This release is enhanced to support Samba 4.10 and 4.11 in which winbindd interface version 31 is used. (Ref: SAMBA-1076)

Added two new parameters to customize the thread pool of adbindd. (Ref: SAMBA-1071)

- "adbindd.threads" sets the number of pre-allocated threads for processing client requests, and
- "adbindd.threads.max" sets the maximum number of threads that the adbindd will allocate for processing client requests.

Added the support of systemd service manager. On Linux where stock Samba services are managed by systemd service manager, the centrifydc-samba service will be installed as a systemd service instead of System V init script. Please use the systemctl command to control the service in this case. (Ref: SAMBA-1075)

4.2. Feature Changes in Centrify for Samba 5.5.2

This release of Centrify for Samba works with Centrify Infrastructure Services 2017 and up.

As Centrify for Samba follows Centrify DirectControl Agent for *NIX schedule for End-of-Support platforms, the following platforms are removed from this release:

- Debian 7.x x86_64

Added options to allow adbindproxy.pl record or use a response file while running in non-interactive mode. This will simplify or better automate the set-up process especially on multiple machines. (Ref: SAMBA-1042)

Details as follows:

- The default output directory of adbindproxy.pl is changed from /var/centrifydc/samba to /var/centrify/samba, and the default output files for --export option are now /var/centrify/samba/passwd and /var/centrify/samba/group.
- Added 2 new options in adbindproxy.pl, --adjoinExtraOptions and --adleaveExtraOptions, to pass additional options to adjoin and adleave commands respectively.
- Added new options in adbindproxy.pl to automate the adbindproxy.pl script:

- the `--record` option will save the user input to a response file,
- the `--nonInteractive` option will use the response file as user input,
- the `--responseFile` option is used to specify the response file. If not specified, the default is `/var/centrify/samba/adbindproxy.pl.rsp`.

5. Bugs Fixed

5.1. Bug Fixed in Centrify for Samba 5.6.1

- Fixed a bug that randomly crashes `adbindd`. (Ref: SAMBA-1069)
- Fixed a bug that fails to access samba share when the AD user's `samaccountname` and `unixname` are different and "force user" option is defined. Note: All groups that this "force user" belongs to must be zone enabled for this to work. (Ref: SAMBA-1068)
- Fixed a bug that samba share does not work if SELinux is enabled. Now `adbindproxy` set up script will prompt users to choose whether to grant `smbd` process access to `non_samba_share_t` type files and directories if SELinux policy is detected. (Ref: SAMBA-1044)

5.2. Bug Fixed in Centrify for Samba 5.5.2

Enhanced the implementation of the command `wbinfo` to provide consistent results with `adquery` when getting zone enabled user or group information. The affected command options are listed here (Ref: SAMBA-1015, SAMBA-1033, SAMBA-1039):

- `wbinfo --name-to-sid <user/group name>`
- `wbinfo --user-info <user name>`
- `wbinfo --group-info <group name>`
- `wbinfo --domain-users --domain <domain name>`
- `wbinfo --domain-groups --domain <domain name>`

Note:

- By default, `wbinfo --domain-users`, and `wbinfo --domain-groups`, will list zone users/groups in the current domain. To list zone users/groups in all domains, query with the option `"--domain *"`.
- By this change, specifying UPN, or canonical name, in those commands is not supported.

- You may need to re-run `adbindproxy.pl` manually after upgrade if the `winbind` separator is not one of the separators specified in the parameter `adclient.ntlm.separators` in `centrifydc.conf`.

6. Getting Started

- Read the `centrify-adbindproxy-guide.pdf` that is included in this package.
- The following is a summary of the steps to install and configure Centrify for Samba. Please refer to the instructions in `centrify-adbindproxy-guide.pdf` for details.
 - Preparation
 - If there is no Samba installed, install stock Samba first. Many Linux OS already include Samba.
 - If you are doing a fresh Centrify for Samba installation in an environment with stock Samba running, back up `smb.conf` just in case.
 - If you are upgrading from an existing Centrify Samba environment:
 - Back up your `smb.conf`.
 - Uninstall Centrify Samba.
 - Install stock Samba and make sure it works in your environment (Note that you will need to replace or merge the `smb.conf` from stock Samba with your back-up copy. This is especially important if you have file path settings in the original `smb.conf`).
 - Install and configure Centrify for Samba
 - Install Centrify DirectControl Agent for *NIX if you have not already done it.
 - Install Centrify for Samba package.
 - If you are using Centrify DirectControl Agent for *NIX from Centrify Server Suite 2016 on a Redhat 7.x platform, you need to do these extra steps:
 - Open a command terminal and run the following commands:


```
vi /etc/centrifydc/scripts/functions.cdc
```

 - Comment out the two lines containing `LD_LIBRARY_PATH`, e.g.


```
- #
LD_LIBRARY_PATH=/usr/share/centrifydc/lib64:/usr/share/centrifydc/kerberos/lib64:$LD_LIBRARY_PATH
```
 - # export LD_LIBRARY_PATH
 - Save the file with the changes
 - Modify the symbolic link of `adkeytab` utility
 - `cd /sbin`
 - `ls -l adkeytab`
 - `rm adkeytab`
 - `ln -s /usr/share/centrifydc/libexec/adkeytab /sbin/adkeytab`
 - Join the machine to a zone using `adjoin`.

- Run `adbindproxy.pl` to configure the proxy environment.
- Additional steps
 - If you have customized any existing `smb.conf` settings, verify that the new `smb.conf` still have all the relevant settings.
 - Restart stock Samba and Centrify for Samba by running either one of the following commands
 - `/etc/init.d/centrifydc-samba restart`
 - `service centrifydc-samba restart`
 - You may want to ensure stock samba's `sbin` and `bin` paths have been set in `PATH` environment variables

7. Known Issues

The following sections describe common known issues or limitations associated with this Centrify for Samba release.

- Limitations with stock Samba

In previous Centrify Samba, we modified the following in stock Samba for interoperability. Using stock Samba instead of Centrify Samba, you may see related issues.

- Default Kerberos keytab location, `KEYTAB_DEFAULT`, from `/etc/krb5.keytab` to `/etc/krb5/krb5.keytab` on Solaris (SAMBA-890).
- Default Kerberos cache location, `CCNAME`, from `/tmp/krb5cc_{uid}` to `/var/krb5/security/creds/krb5cc_{uid}` on AIX (SAMBA-892).

- Limitations with RHEL 7.2 PPC (SAMBA-965)

If you are using 64bit Samba on a RHEL 7.2 PPC machine, you may have problem with `adclient` failed to use the 64bit `tdb` library come with 64 bit Samba. The symptom can be shown in the error message while trying to access samba server - "session setup failed: NT_STATUS_CANT_ACCESS_DOMAIN_INFO". You need to install a 32bit `tdb` library, e.g. `libtdb-1.3.6-2.el7.ppc.rpm` in `rhel-server-7.2-ppc64-dvd.iso`, for `adclient` to work with, and you need to tell `adclient` where to get this library by adding a parameter `"samba.libtdb.path: /usr/lib/libtdb.so.1"` into `centrifydc.conf`, assuming the path to `libtdb` is `/usr/lib/libtdb.so.1`.

- Limitations with AIX7.1 (SAMBA-966)

If you are using Centrify for Samba with stock Samba and Centrify Server Suite 2014 or 2013.3 on an AIX machine, it may not work well due to library problem. The symptom can be shown in the error message while trying to access samba server - "session setup failed: NT_STATUS_NO_LOGON_SERVERS". You may try the following changes on Samba tools, e.g. `smbd`, `smbstatus` and `testparm`, to get around it:

```
- mv /usr/local/samba/sbin/smbd /usr/local/samba/sbin/smbd.x
- vi /usr/local/samba/sbin/smbd
  #! /bin/sh
  unset _ LD_LIBRARY_PATH
  unset _ LD_PRELOAD
  LIBPATH=/usr/local/samba/lib:/usr/local/samba/lib/private
  export LIBPATH
  exec /usr/local/samba/sbin/smbd.x "$@"
```

8. Additional Information and Support

In addition to the documentation provided for this package, you can find the answers to common questions and information about any general or platform-specific known limitations as well as tips and suggestions from the Centrify Knowledge Base.

The Centrify Resources web site provides access to a wide range of information including analyst report, best practice brief, case study, datasheet, ebook, white papers, etc., that may help you optimize your use of Centrify products. For more information, see the Centrify Resources web site:

<http://www.centrifys.com/resources>

You can also contact Centrify Support directly with your questions through the Centrify Web site, by email, or by telephone. To contact Centrify Support or to get help with installing or using this version of Centrify for Samba, send email to support@centrifys.com or call 1-669-444-5200, option 2. For information about purchasing or evaluating Centrify products, send email to info@centrifys.com.