

Samba Commander (Smbc) 1.2.2

The interactive download and upload utility
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by Rafal Michniewicz

For my wife Magda and our child.

This file documents the Samba Commander (Smbc) utility for downloading and uploading from network data.

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1 Overview

Samba Commander is a text mode SMB network commander. In Smbc, you can browse the local network or you can use the search function to find the files. You can also download/upload files and directories or create them both locally and remotely. Smbc has a resume function and supports UTF-8 characters.

2 Invoking

By default, Smbc is very simple to invoke.

```
smbc [options]...
```

Usually Smbc is running without parameters. During first run Smbc creates directory with name ".smbc" in home user directory. In this new directory Smbc finds configuration file with name "smbcrc". If this file is empty or if Smbc cannot open configuration file it runs with default configuration. The example file with all parameters you can find usually at "PREFIX_INSTALLATION/share/smbc/sample.smbcrc".

2.1 Options

Some functions of Smbc are available only as parameters.

'-V'

'--version'

Displays the version of Smbc.

'-h'

'--help' Prints a help message describing all of Smbc's command-line options.

'-f'

'--flush' Flushes all download/upload lists. All files from "~/.smbc/" with name "dulist*" will be removed. In next run of Smbc the download/upload list will be empty.

'-l'

'--list' Shows all download/upload lists from "~/.smbc/".

'-s INT'

'--show=INT'

Displays all items form list with numer INT. You can get all number from list executing smbc -l command.

'-p'

'--sleep' Sleeps Smbc. Smbc doesn't download/upload any files when execuding even if some files wait in queue.

'-m STRING'

'--message=STRING'

Receives message from Samba. If you want that Smbc receives WinPopup message you must add bellow line to smb.conf

```
message command = /path_to/smbc -m 'message from %f on %m' -i %s; rm %s
```

Now if you have running Smbc and someone sends you a WinPopup message Smbc immediatelly displays it. If Smbc doesn't run all WinPopup messages wait for executing Smbc.

'-i STRING'

'--file=STRING'

Sets file with samba message, usage only with -m.

2.2 Content of parameters form ~/.smbc/smbcrc configuration file

'username'

Username that is used during login to remote host, default "guest".

```

'password'
    Password that is enter during login to remote host, default none.

'smbclient'
    Path to file "smbclient", necessary for sending WinPopup message, default none.
    Only functions concatenate with send and receive a WinPopup messages work as
    frontend, Samba Team doesn't include this functions in libsmbclient library.

'localdir'
    Starts local directory when running Smbc, default HOME.

'workgroup'
    Starts workgroup, default none.

'host'
    Starts host, default none.

'share'
    Starts remote host dir, default none.

'typeofsort-left'
'typeofsort-right'
    Type of files and directories sorting in selected panels, default 1.
    typeofsort-left 1 - sort by filenames
    typeofsort-left 2 - sort by extension
    typeofsort-left 3 - sort by size
    typeofsort-left 4 - don't sort

'revesesort-left'
'revesesort-right'
    Type of reverse sorting, default 0.
    reversesort 1 - on
    reversesort 0 - off

'group-left'
'group-right'
    Group files and directories, default 1.
    group-left 1 - on
    group-left 0 - off

'timeout'
    Connection time out in seconds, default 3 seconds. This parameter was used when
    Smbc tries to connect to remote host and waits for response. If you have the Samba
    in version oldest than 3.0.0 this parameter doesn't work and Smbc may be waiting
    for very long time.

'autoresume'
    Autoresumes download, doesn't ask if connection is broken, default 0. If connection
    to remote host or to local file was broken and autoresume was set to 1 Smbc sets
    retry-delay-time for this file and immediatelly goes to next item in download/upload
    list.
    autoresume 1 - on
    autoresume 0 - off

'indextime'
    Time between smbclient restarts network files indexing in seconds, default 300 seconds.
    indextime 0 - Smbc disables network files indexing
    indextime 1 - Smbc only once indexes network files
    indextime 300 - Smbc indexes network files, then delay, 300 second and
                    restart indexing

```

`'char-convert'`

Converts all chars from UTF-8 to terminal charset, (see [Section 3.3 \[Characters conversion\]](#), page 6) , default enabled.

```
char-convert 1 - enable conversion
char-convert 0 - disable conversion
```

`'retry-delay-time'`

Delay time of retrying download is seconds, default 60 second.

`'askquit'` Asks if quit from Smbc, default 1.

```
askquit 1 - ask
askquit 0 - don't ask
```

`'retry-read-groups'`

How many times smbc retries to read groups when samba returns fail or empty result, default `retry-read-groups 5`.

```
retry-read-groups = -1 - retries to success
retry-read-groups = 0 - doesn't retry
retry-read-groups > 0 - retries retry-read-groups times
```

`'retry-read-hosts'`

How many times smbc retries to read hosts when samba returns fail or empty result, default `retry-read-hosts 5`.

```
retry-read-hosts = -1 - retries to success
retry-read-hosts = 0 - doesn't retry
retry-read-hosts > 0 - retries retry-read-hosts times
```

`'retry-read-shares'`

How many times smbc retries to read shares when samba returns fail or empty result, default `retry-read-shares 5`.

```
retry-read-shares = -1 - retries to success
retry-read-shares = 0 - doesn't retry
retry-read-shares > 0 - retries retry-read-shares times
```

`'colorK XXXX,YYYY,ZZZZ'`

Defines three colors, where XXXX,YYYY,ZZZZ are red,green,blue and have value = <0000..1000> ,K has value <0..2>, default 0 colors defined.

```
examples:
color0 0100,0100,0610
color1 0900,0080,0900
color2 0010,0500,0500
```

`'extcolorK'`

Defines color for file extension, K has value <0..2>, one definition per line, maximal extension length = 10 chars ,default 0 colors defined.

```
examples:
extcolor0 exe
extcolor0 bin
extcolor0 bat
extcolor0 tar
extcolor0 gz
extcolor0 tgz
extcolor1 mp3
extcolor1 wav
```

```
extcolor1 mod
extcolor2 avi
extcolor2 mpg
extcolor2 mpeg
```

2.3 Content of ~/.smbc/ directory

‘smbcrc’ Configuration file.

‘smbc.lock’

This file is a semaphore to manage a download lists. (see [Section 3.1 \[Management of a download/upload list of files\]](#), page 6).

‘bookmark’

This file includes all bookmarks.

‘findfile’

The "quick find file function" is used to search files. Access to this file is faster than access to network.

‘findfileprim’

If a function of indexing a network is enabled all founded files in network are written to this "findfileprim" file. If all files from network were indexed "findfileprim" file was renamed to "findfile" and now you can use "quick find file function".

‘debug’

If Smbc during instalation is configured with option "--with-debug" all debug messages are saved to this "debug" file.

3 How the Smbc works

3.1 Management of a download/upload list of files

If you add a few files do download/upload list and you quit from Smbc before Smbc finished download/upload all files, then Smbc saves this list to file "`~/smbc/dulistX`" where X is a first free number. If you do the same at one time with more that one Smbc in "`~/smbc/`" directory will be created more that one "dufileX"; example:

```
dufile0
dufile1
dufile2
```

At some time you again run Smbc. Now Smbc is searching to "`~/smbc/`" directory to files "dufileX" find and load a file with the smallest numer. If this instance of Smbc finishes download/upload all files it is searching again "`~/smbc/`" directory and again load next found "dufileX" file.

3.2 A quick file found

If you run a first instance of Smbc, Smbc creates a child process. A child process is looking for all files from network and saves it to file "findfileprim" in "`~/smbc`" directory. When all files from network were found the child process rename file "findfileprim" to "findfile" and sends message to Smbc process that a process from network searching files was finished. At this time you can use a quick find file function. If you run more than one instance of Smbc only one Smbc indexing files from network process is started. If this instance of Smbc will be closed, next instance of Smbc creates a child process for indexing a network files. The child process after finishing files from network indexing waits "indextime" (see [Section 2.2 \[Content of parameters form ~/smbc/smbcrc configuration file\]](#), page 2) seconds and starts indexing again.

3.3 Characters conversion

Smbc can convert all characters received from network and from system to characters used by terminal. If a parameter "char-convert" was set to 1, the internal characters in Smbc are UTF-8 and Smbc convert, all character from/to terminal, system and network. If the parameter "char-convert" is set as 0 Smbc disables conversion.

3.4 Retrying download/upload files

Smbc downloades/uploades files and suddenly the connection to remote host broken. In this situation Smbc responds at with way two actions, first if the parameter "autoresume" is set to 0, the Smbc displays menu "message when connection is broken" (see [Section 5.4 \[Message when connection is broken\]](#), page 11) and waits for user decision. At this menu user can decide what Smbc must do cancel, wait, overwrite with immediate retry, retry after few seconds or retry after few seconds without asking if the connections will be broken again. Second if the parameter "autoresume" is set to 1, the Smbc retries after few seconds without asking.

3.5 Sending and receiving WinPopup messages

Smbc can send and receive WinPopup messages, but this function works as frontend. Samba Team doesn't include in libsmblclient library functions to send and receive WinPopup messages. To send messages you must first configure Smbc. You must "smblclient" parameter sets in "`~/smbc/smbcrc`"; for example

```
smblclient /usr/bin/smblclient
```

If you want to receive WinPopup messages you must set "message command" parameter in "smb.conf" file; for example

```
message command = /path_to/smbc -m 'message from %f on %m' -i %s; rm %s
```

At this time Samba after receiving a WinPopup message executes Smbc and Smbc saves received message to temporary directory. If you run Smbc at the same time when message is received it is immediately displayed; if not, message will be displayed after you run Smbc.

4 Functions in Smbc

4.1 Find file function

Quick find file function finds files in entire network. In slow find file function you can select where do you want to search for files. If some files or directories were selected Smbc searches only in them else Smbc searches in all subdirectories.

5 Menus and keys

5.1 Main menu

arrow-up	
p	move one item up
arrow-down	
o	move one item down
tab	
i	change selected column
t	group/ungroup catalogs or files
end	
u	go to the end off the list
home	
y	go to the start off the list
F5	
d	download/upload selected files and directories
w	reverse sorting
enter	
x	execute a workgroup, host, share or directory
insert	
a	select or unselect one item
page up	
l	move one screen up
page down	
k	move one screen down
F8	
ctrl+d	delete selected files and directories
F7	
c	create directory
F3	
v	view text file, execute workgroup, host, share or directory
g	go to workgroup, host, share in remote host
e	change the type of sorting
s	edit download/upload list
m	send a WinPopup message
b	bookmark
bb	add item to bookmark
q	exit from Smbc

5.2 Download/upload list menu

q	exit from this menu
del	
d	set selected item to delete
u	set selected item to undelete
m	mark/unmark selected item
space	pause/resume selected item download
ctrl+d	delete all dirs and subdirs of selected item
ctrl+f	flush all items
arrow-right	
.	add 1 second to delay time
arrow-left	
,	take off 1 second from delay time
shift+arrow-right	
>	add 60 seconds to delay time
shift+arrow-left	
<	take off 60 seconds from delay time
;	add 1 second to delay time for all items
'	take off 1 second from delay time for all items
:	add 60 seconds to delay time for all items
"	take off 60 seconds from delay time for all items
	copy current item delay time to all items
n	set try download now to select item
N	set try download now to all items

5.3 Bookmark list menu

q	exit from this menu
b	add item to bookmark and exit
del	
d	set selected item to delete
u	set selected item to undelete
m	mark/unmark item
enter	
x	go to selected item

5.4 Message when connection is broken

arrow-up

. add 1 second to delay time

arrow-down

, take off 1 second from delay time

shift+arrow-up

> add 60 seconds to delay time

shift+arrow-down

< take off 60 seconds from delay time

5.5 Find file menu

5.5.1 input items

enter

tab go to the next item

ctrl+p enable/disable interactive filtering

ctrl+k exit from find file menu

5.5.2 select items

tab go to the next item

enter go to selected file

q quit

6 Contributors

- My wife Magda for inspiration to work and my English correction of.
- Mikhail Kshevetskiy for implementation iconv in Smbc.
- Noel Köthe for raports of bugs.

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