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## 1.Fuction

SMBSync2 is a tool for synchronizing files via wireless LAN using SMB1,SMB2 or SMB3 protocol between the internal storage of Android terminal, SDCARD and PC/NAS. Synchronization is a one-way from the master to the target, mirror, move, copy, archive can be used. (Internal storage, SDCARD, SMB, ZIP combination is possible)

Can start the sync by external application (Tasker, AutoMagic etc) or SMBSync2 schedule.

* Mirror

If master and target files are different, to copied files from master to the target directory. To delete target files and directories if does not exist in the master.

* Move

If master and target files are different, to copied files from master to the target directory. To delete the master directories and files copied to the target.

However, the master and target same name, same file modification time and file size, to delete the file on the master without copying files.

* Copy

If master and target files are different, to copied files from master to the target directory. However, the same file modification time and file size with the same name does not copy the master and target.

* Archive

Move photos and videos in the directory on the master side to the target under conditions such as shooting date/time than the date and time of archive execution, such as 7 days or earlier or 30 days or earlier. (However, ZIP can not be used for target)

Note1:

The difference file is one of the following three conditions.

1. File does not exist
2. Different file sizes
3. Different over when last updated 3 seconds

If it is not permitted to change the last update time of the file by the application, the last update time of the file is recorded in the management file and it is used to judge the difference file. Therefore, if you copy a file other than SMBSync2 or there is no management file, the file will be copied.

## 2. Permissions

The app uses the following permissions.

2.1 Location

-approximate location (network-based)

Used to obtain the WiFi SSID name on Android 8.1 or higher.

2.2 Photos/Media/Files

-read the contents of your USB storage

-modify or delete the contents of your USB storage

Used for file synchronization to internal/external storage and read/write of management file.

2.3 Storage

-read the contents of your USB storage

-modify or delete the contents of your USB storage

Used for file synchronization to USB storage and read/write of management file.

2.4 Wi-Fi Connection infomation

- view Wi-Fi connections

Used to check the status of Wi-Fi at the start of synchronization.

2.5 Other

### 2.5.1 view network connections

Used to confirm that it is connected to the network at the start of synchronization.

### 2.5.2 connect and disconnect from Wi-Fi

Used to turn on / off Wi-Fi in schedule synchronization.

### 2.5.3 full network access

Used to perform synchronization with the SMB protocol through the network.

### 2.5.4 run at startup

Used to perform schedule synchronization.

### 2.5.5 control vibration

Used to notify the user at the end of synchronization.

### 2.5.6 prevent device from sleeping

Use it to start synchronization from a schedule or external application.

### 2.5.7 install shortcuts

Used to add a synchronization start shortcut to the desktop.

## 3. Data recorded by the app

The recorded data will not be sent to the outside of the app unless the user operates it.

### 3.1.Synchronization task list

The app records the necessary data to perform the synchronization.

* Directory name, file name, SMB server host name, IP address, port number, account name, password (\* 1)
* Wi-Fi SSID name
* App password (\* 1) to protect app launch and setting change
* App setting value

\* 1 Encrypted with system generated password stored in Android Keystore.

### 3.2.App activity record

The app records the data of the following items for verification of synchronization results and troubleshooting.

* Android version, terminal maker, terminal name, terminal model, application version
* Directory name, file name, file size, file last modified time
* SMB server host name, IP address, port number, account name
* Network interface name, IP address, Wi-Fi SSID name
* System setting value
* App setting value

### 3.3.Sync task list exported

The app can export "[3.1 Synchronization task list](#_Synchronization_task_list)" to a file. You can password protect on export.

* Directory name, file name
* SMB server host name, IP address, port number, account name, password
* Wi-Fi SSID name
* App setting value

## 4.FAQs

Please refer to the PDF link below.

<https://drive.google.com/file/d/1a8CTRu9xoCD74Qn0YZxzry-LHxQ8j7dE/view?usp=sharing>

## 5.Library

* [jcifs-ng ClientLibrary](https://github.com/AgNO3/jcifs-ng)
* [jcifs-1.3.17](https://jcifs.samba.org/)
* Zip4J 1.3.2
* [Xmpcore-5.1.3](https://www.adobe.com/devnet/xmp.html)
* [Metadata-extractor](https://github.com/drewnoakes/metadata-extractor)

## 6.Documents

Link to Google :

<https://drive.google.com/file/d/0B77t0XpnNT7OYzZ0U01rR0VRMlk/view?usp=sharing>