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**Version 0.9**

**User’s Guide**

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# About CleanSync

## 1.1 Overview

Frequently need to work on the same files and folders on 2 different computers? Having trouble ensuring both sets of files and folders are updated? Let CleanSync handle that for you!



CleanSync is designed for users who uses multiple computers and want to keep copies of the same file on multiple computers. Utilizing Clean Synchronization, CLEANSync will minimize the storage space used on the USB storage device. This allows users to synchronize between 2 folders which have a total size larger than the size of the USB storage device.

## 1.2Quick demo

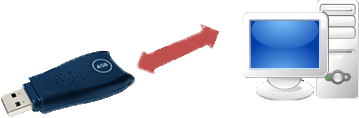
For example, if a user wishes to synchronize between 2 folders in computers A and B. Synchronizing the folders come in 2 easy steps:

Step 1: Synchronize with Computer A.





Step 2: Unplug the USB, and synchronize with Computer B.





That’s it! Both folders in Computer A and B are now synchronized! From now on, whichever computer does a clean synchronization, it will be updated!

Now assuming that upon a further synchronization with the folder in Computer A, CleanSync detects that out of all the files and folders inside the folder, a file has been modified, a new file has been created and a file has been deleted. Instead of keeping a copy of the most updated folder on the external drive, instead CleanSync only stores information about the modified file, the new file and the deleted file on the external drive. Thus, even if the folders to synchronize contain a lot of data, the size used on the external drive can be very small!

Copied to USB:

File3.txt (New file)

File5.txt (Modified file)

File4.txt(Deleted file)

PC A:

File1.txt

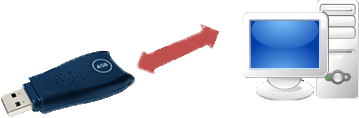
File2.txt

File3.txt -- Detected new file

File5.txt -- Detected to be modified

File6.txt

Detected File4.txt has been deleted.





Update PC B:

Create File3.txt

Modify File5.txt

Delete File4.txt

USB:

File3.txt (New file)

File5.txt (Modified file)

File4.txt(Deleted file)

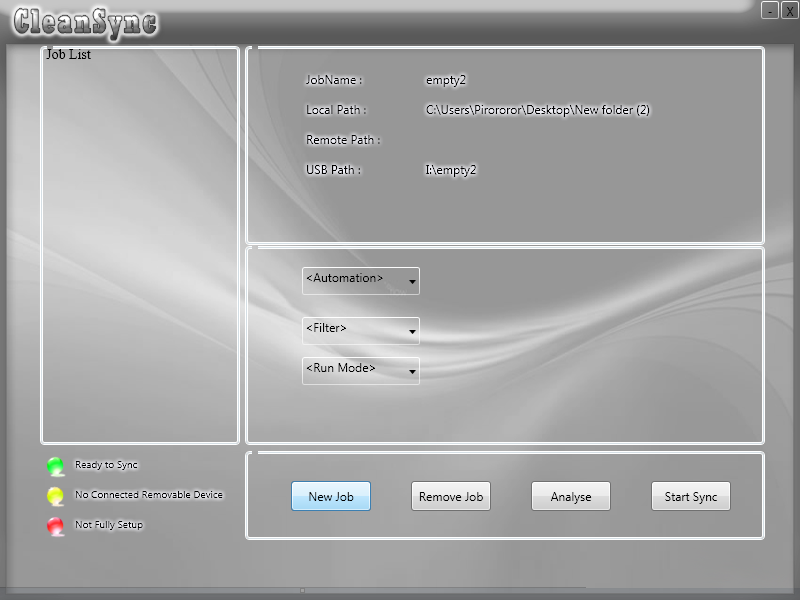
# CleanSync guide

## 2.1Installation CleanSync

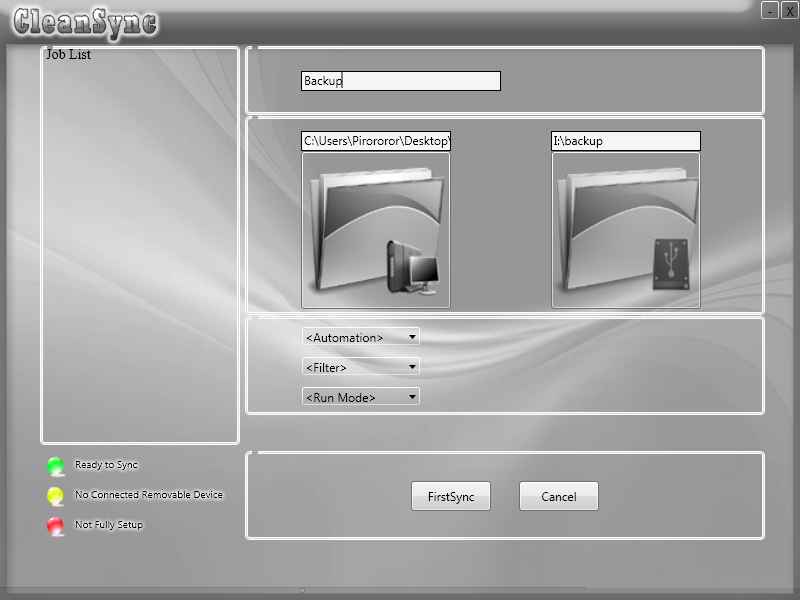
Unzip CleanSync\_v0.9.zip to any directory in your computer\*. A folder “CleanSync v0.9” will be created in that directory.

## 2.2Starting CleanSync

To start, click on CleanSync.exe located inside the CleanSync v0.9 folder.

2.3 Creating a new CleanSync Job

* From the main screen, click on "new job" to create a new job.



* Enter a name for the job, and select the folder to synchronize.
* Select a folder on the USB drive to store the data on the USB drive.
* You are ready to do a first time synchronization!
* Click on "FirstSync" to copy all the files from the PC folder to the USB folder.
* Creating a job on this PC is now complete!
* Now you can plug the USB into another computer for the other computer to accept the CleanSync job.

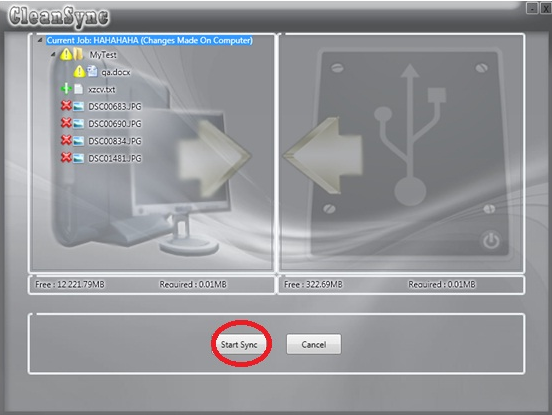
\* Version 0.9: Please select an empty folder on the USB drive.

2.4 Accepting a CleanSync Job

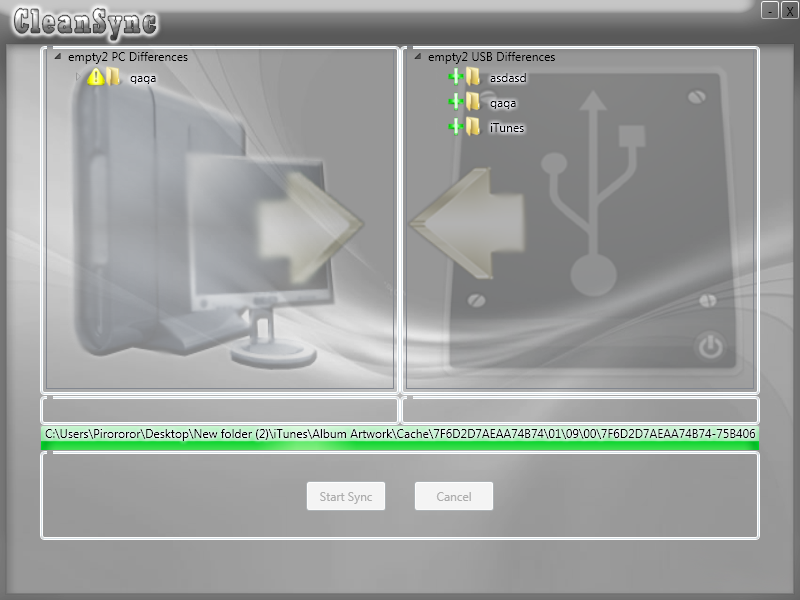
* From the main screen, if a USB drive with a job that has not been accepted is plugged in, it will be shown on the main menu and you will have the option of accepting the CleanSync job.
* An incomplete job will be listed with the colour red.
* To accept, select the incomplete job, select a folder to synchronize on and click on “Accept”.
* Accepting a CleanSync job is now complete!

2.5 Synchronizing a job

* From the main screen, select the job you want to synchronize.
* Only jobs with their USB drives plugged in are allowed to be synchronized (i.e jobs listed with the colour green).
* Click on Analyse to view the impending changes
*  denotes a new file/folder to be copied over
*  denotes a modified file or a folder whose contents have been changed.
*  denotes a deleted file or folder.



* After viewing the changes that will happen from USB to PC and from PC to USB, click on “Start Sync” to start synchronization.



## 2.6 Conflicts

During analyzing, in the event of conflicts, i.e files to be copied from USB to PC has already been modified on the PC, a conflict window will appear:



Check on either the “PC Update” box to use the PC’s file as the latest file, or the “USB Update” box to keep the USB’s latest file. Not checking on either of the box will result in neither file being synchronized over.

Note: In version 0.9, checking both boxes causes the USB update to be copied over to the PC but not vice versa.

## 2.7 Deleting a job

To delete a job, select the job you want to delete and click on “Remove Job”.



If the USB device is not plugged in, the data on the USB device will be deleted the next time the USB device is plugged in. To delete the job on the other computer, just plug in the USB into the other computer.

# About Us

0110 is a group of 6 students from the National University of Singapore, studying in the school of computing. CleanSync is our product for our module CS3215 and has come to be our proud and joy.

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Special thanks to Mr Damith, our course coordinator and mentor for this project, Uncle Soo for his invaluable advice about CleanSync’s architecture and the other teams in our CS2315 module for giving us invaluable feedback on our product.