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**Version 2.0**

**User’s Guide**

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# About CleanSync

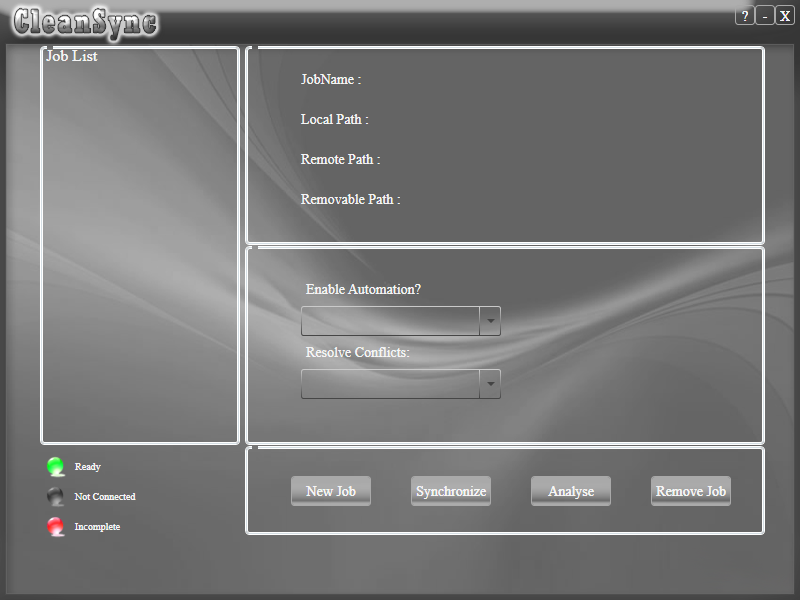
# 1.1 Overview

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!



Consider this scenario: You have to ensure that files and folders in a certain directory are the same in Computer A and Computer B. Every time you need to copy all the files from one side to other side by copying and pasting every single files (or only changed files, which might take longer to find out).

**All these things can be done in a few easy steps:**

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**1.2 CleanSync ----- Clean Synchronization**

So, how does CleanSync work? CleanSync does synchronization through a process called Clean Synchronization. Through Clean Synchronization, synchronizing folders in Computer A and B is done in 2 easy steps:

**Step 1: Synchronize on your first PC (Computer A).** Assuming that Computer A has one new file (File3.txt), a modified file (File5.txt) and File4.txt has been deleted after the last synchronization. All these information will be acknowledged by the external drive.

PC A:

File1.txt

File2.txt

File3.txt -- Detected new file

File5.txt -- Detected to be modified

File6.txt

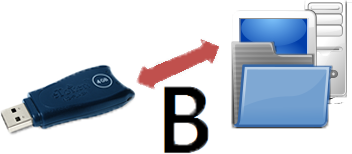
Detected File4.txt has been deleted.

Copied to USB:

File3.txt (New file)

File5.txt (Modified file)

File4.txt (Deleted file)

**Step 2: Unplug external device and synchronize with your second PC (Computer B).** CleanSync will copy File3.txt, modify File5.txt over to Computer B and delete File4.txt. It will also repeat Step 1 on Computer B, to synchronize Computer B’s updates to Computer A.

Update to PC B:

Create File3.txt

Modify File5.txt

Delete File4.txt

USB:

File3.txt (New file)

File5.txt (Modified file)

File4.txt (Deleted file)

**1.3 CleanSync Features**

**Button Refreshs.png** **Clean Synchronization**

Utilizing clean synchronization, users can synchronize between two computers with a third removable device. Unlike ordinary synchronization which just synchronizes two folders local to the computer, Clean Synchronization is designed to synchronize two folders on different computers without using a fully synchronized folder copy on the removable device. Only files that are required to be updated will be stored on the removable device, keeping disk usage low.

**Folder Open Green.png Cleaner Folders**

 CleanSync will not pollute your folders on computer with extra data.

**USB.png** **Automated Removable Device Detection**

 Removable device is an important intermediary storage device. CleanSync automatically detects the plug-in and plug-out of removable devices(flash drive or external hard disk), and will automatically resolve the change of disk letter. These enable user to focus on the folders on computer they intended to synchronize without bothering about the intermediary device.

**Button Play.png** **Automation Support**

With the option to synchronize automatically when plugged in, no button clicking is necessary.

Window.png **Clean and intuitive user interface**

CleanSync is designed to be intuitive and easy-to-use.

**2. CleanSync guide**

## 2.1 Installation CleanSync

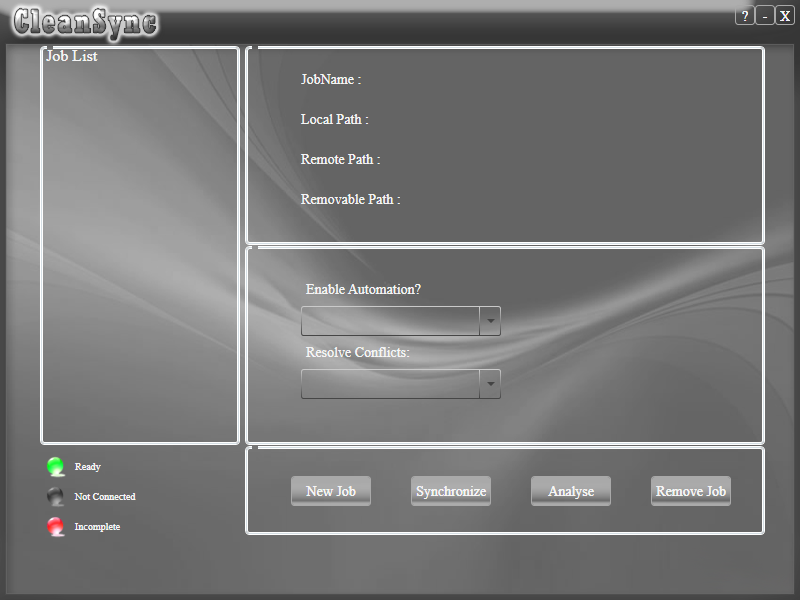
Unzip CleanSync\_v0.9.zip to any directory in your computer\*. A folder “CleanSync v0.9” will be created in that directory.

\* Do not unzip to a directory on an external drive.

## 2.2 Starting CleanSync

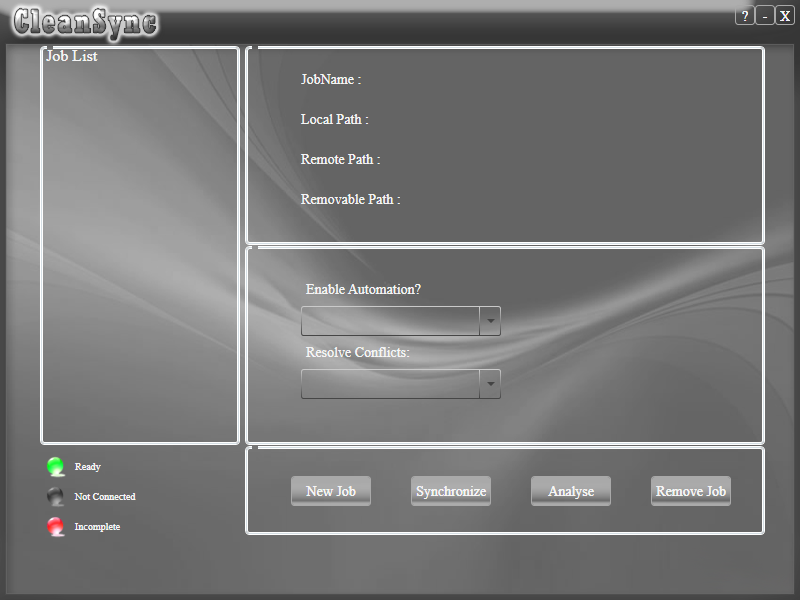
To start, double click on **CleanSync.exe**

You are now in the main screen:

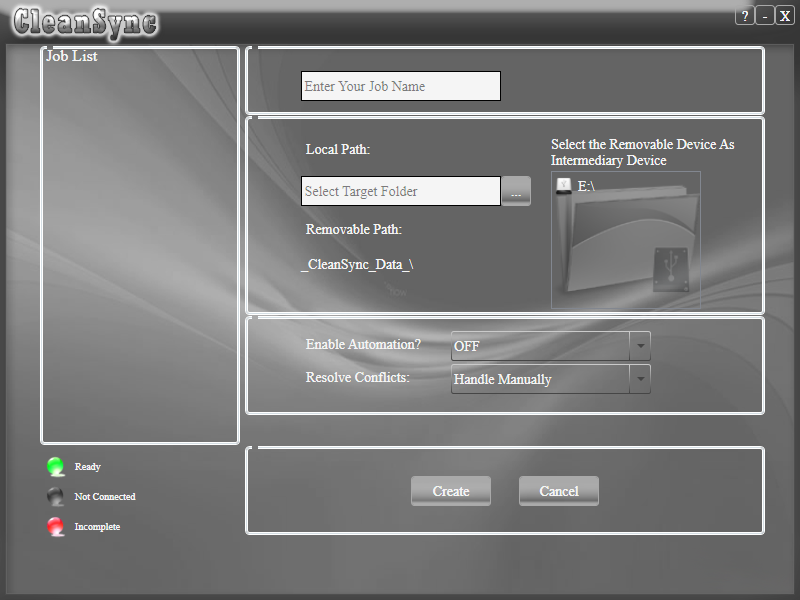


2.3 Creating a new CleanSync Job

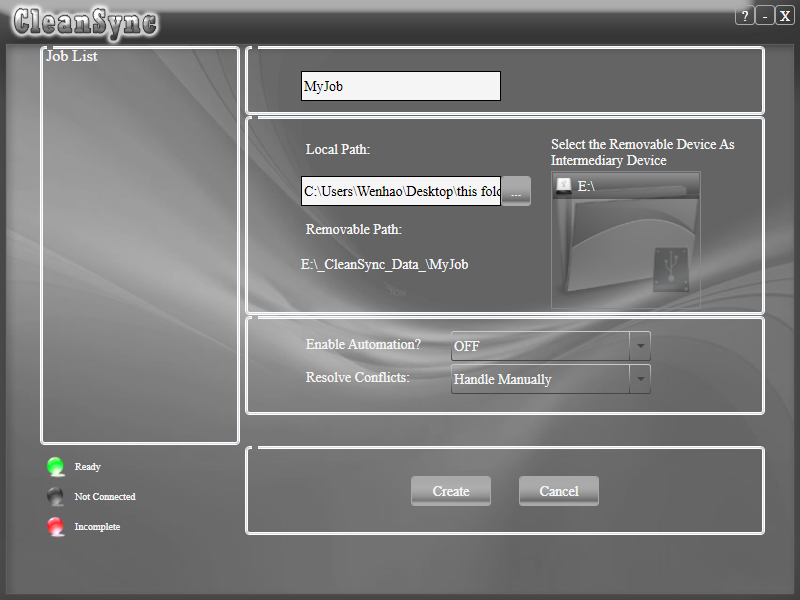
**From the main screen, click on "new job" to create a new job**

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**Then you will be inside the new job window:**

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* **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 synchronize for the first time!**

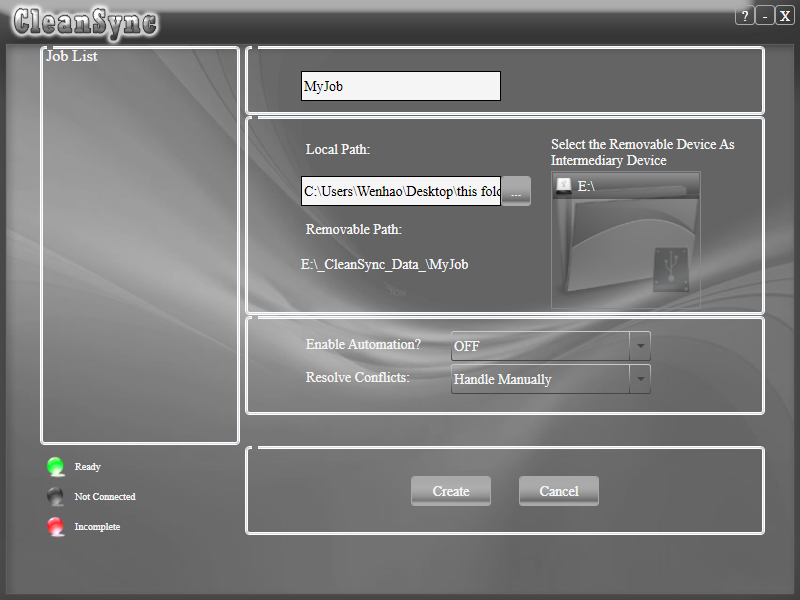
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Select an external drive

Enter the local path

Enter the job name

* **Click on "FirstSync" to copy all the files from the PC folder to the USB folder.**

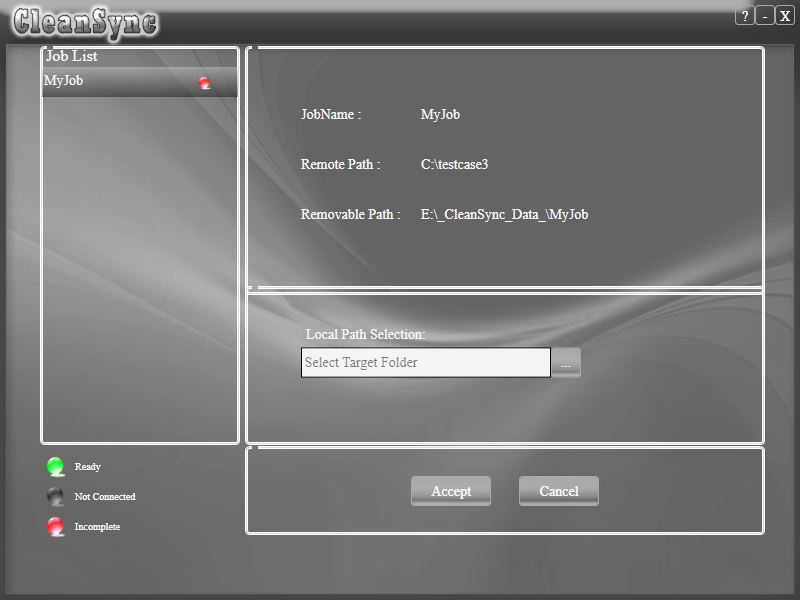
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**Creating a job on this PC is now** **complete!**

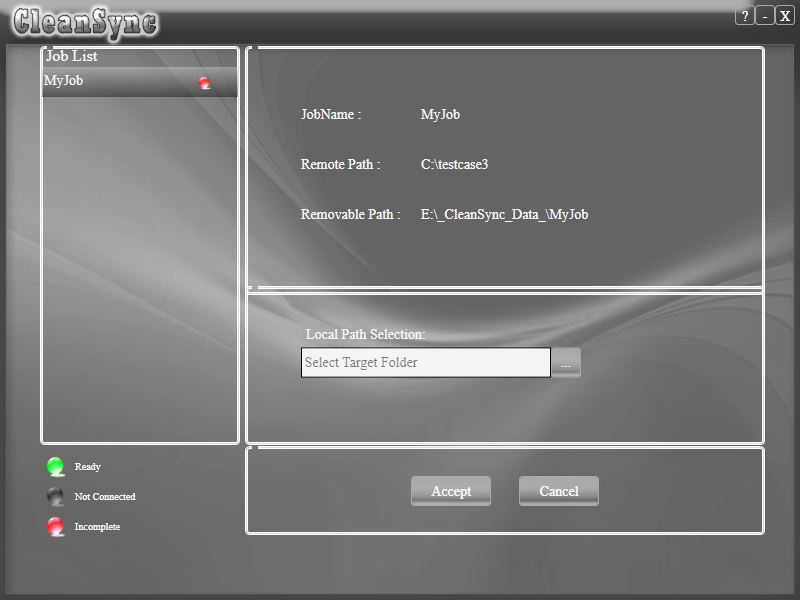
**Now you can plug the USB into another computer with CleanSync installed for the other computer to accept the CleanSync job.**

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 color red.

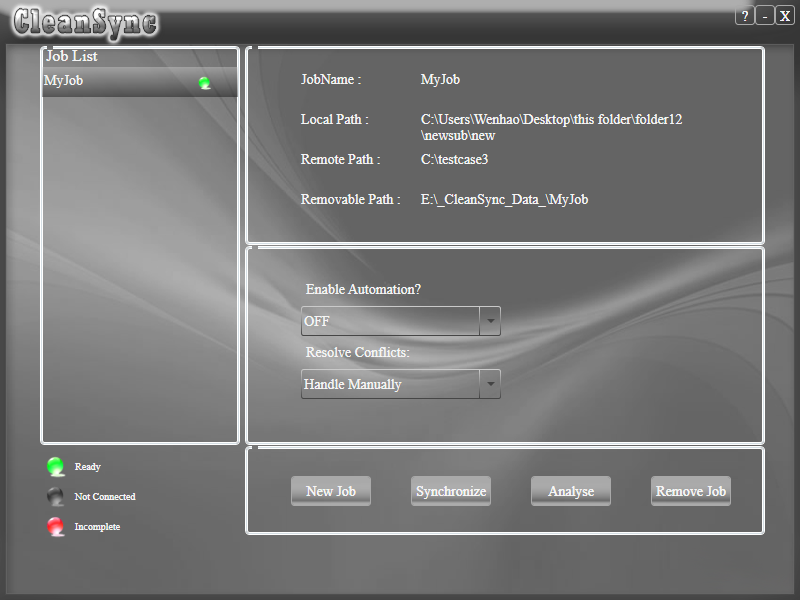
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To accept, select the incomplete job, select a folder to synchronize on and click on “Accept”.



Choose the local path

You will go back to main frame and the job now is colored green



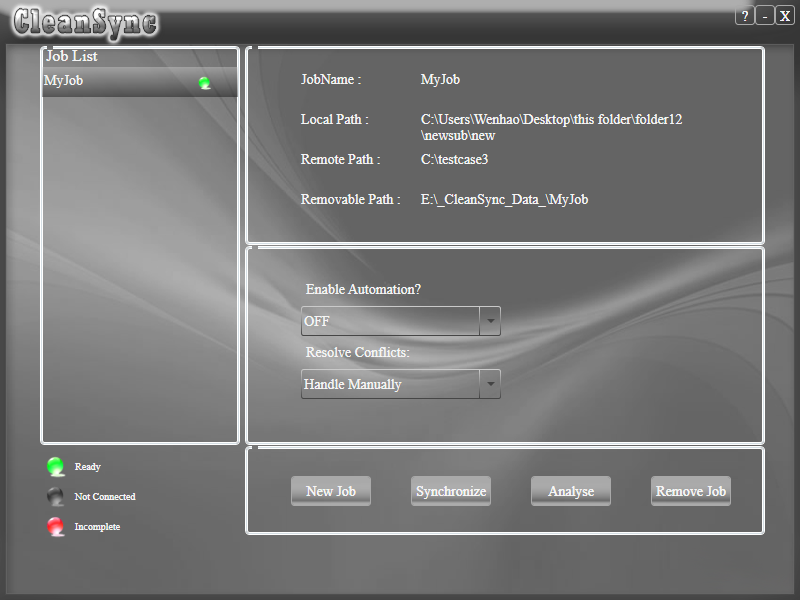
**Accepting a CleanSync job is now complete!**

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).**

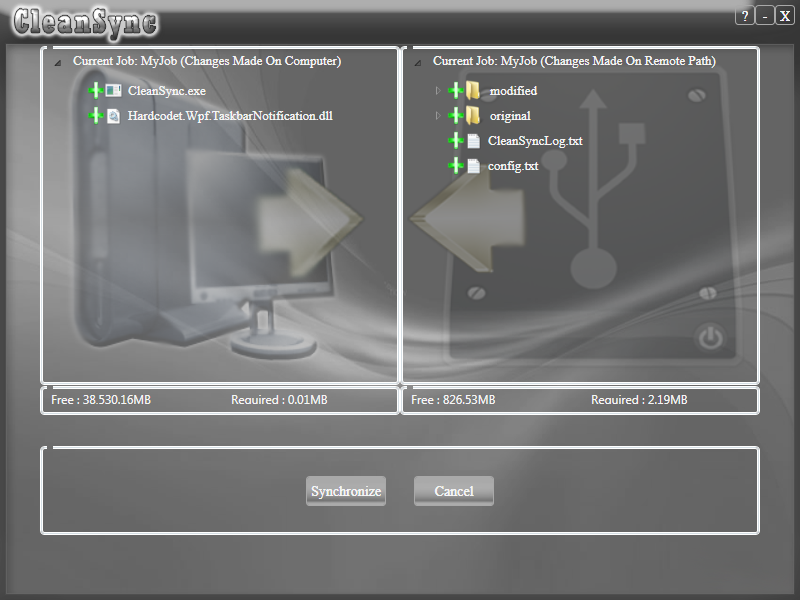
**Click on Analyse to view the impending changes**



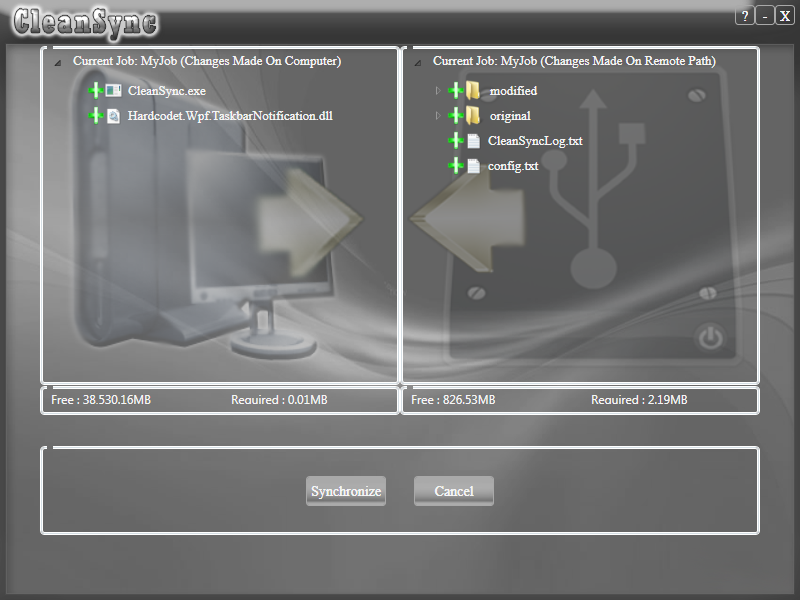
 **denotes a new file/folder to be copied over**

 **denotes a modified file or a folder whose contents have been changed.**

 **denotes a deleted file or folder.**

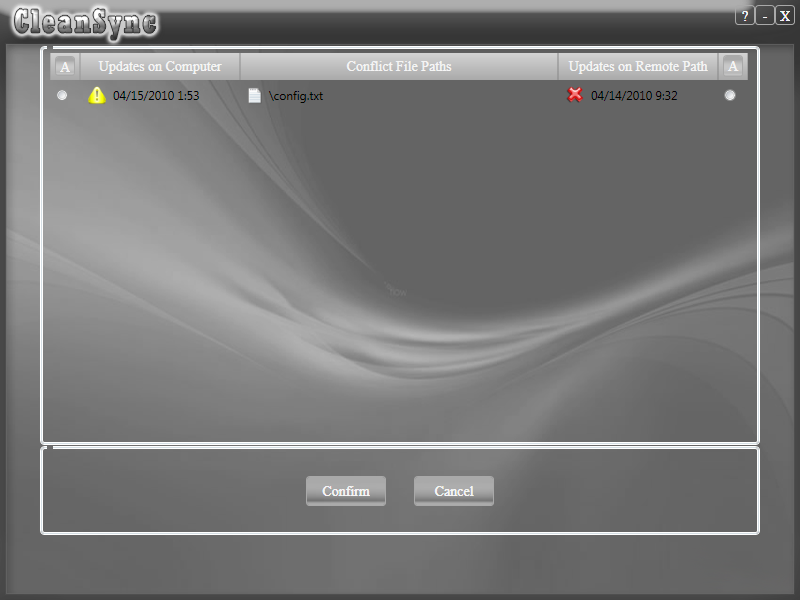


After viewing the changes that will happen from USB to PC and from PC to USB, click on “Synchronize” to start synchronization.



## 2.6 Conflicts

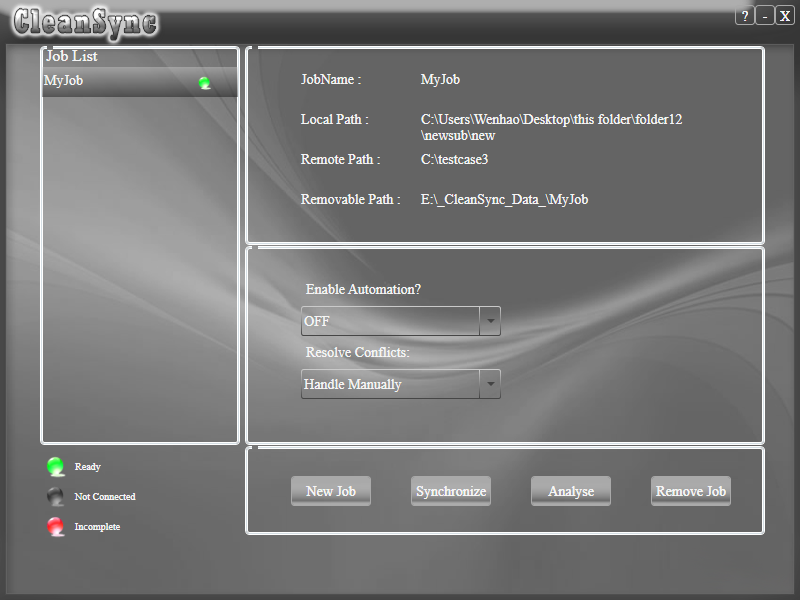
After analyzing, in the event of conflicts, i.e files to be copied from USB to PC has already been modified on the PC, a conflict window will appear:



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.

## 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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Group Members: Gu Yang

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Yu Qiqi

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.