

# CleanSync User Guide

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## Version 2.0

**Presented by Team 0110**

**2010/4/15**

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# 1. 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!

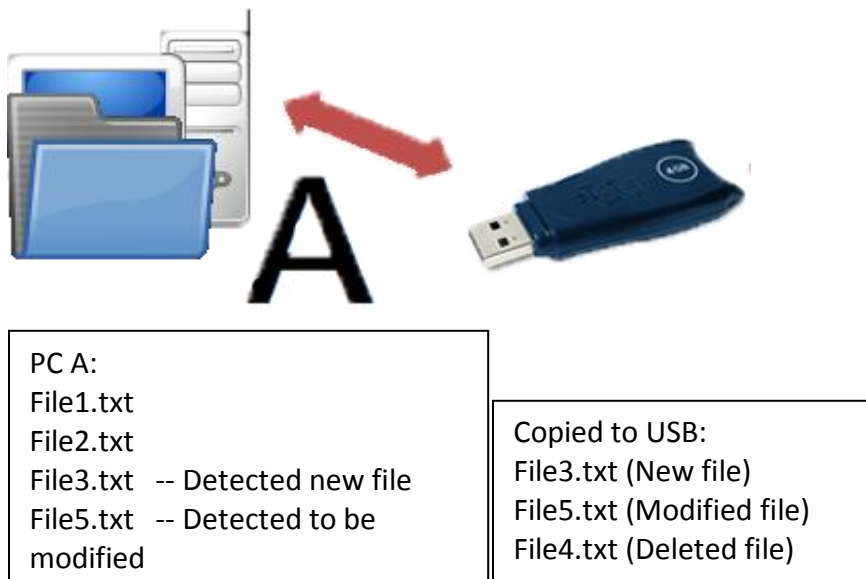


Consider this scenario: You have to ensure that files and folders in a certain directory are the same in Computer A and Computer B. Each time, you will need to copy all the files from one side to other side by copying and pasting every single files (or only changed files, which might take longer to find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

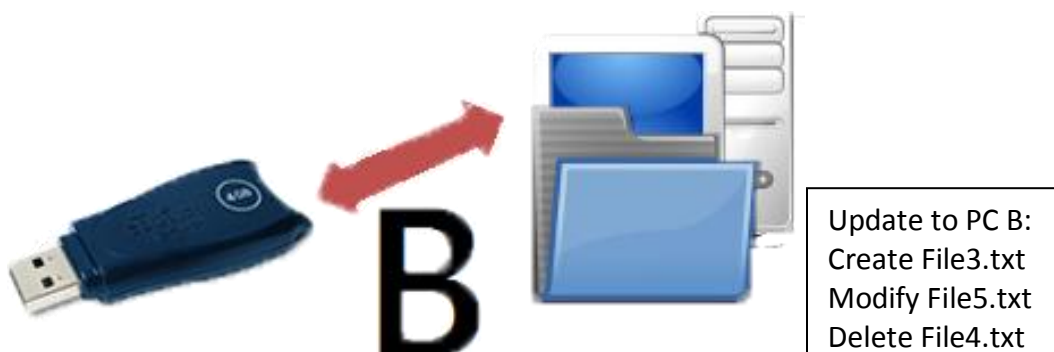
## 1.2 Clean Synchronization

So, how does CleanSync work? CleanSync does synchronization through a process called Clean Synchronization. Through Clean Synchronization, synchronizing folders between 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.



**Step 2: Unplug external device from Computer A, plug into 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.



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## *1.3 CleanSync Features*



### **Clean Synchronization**

Utilizing clean synchronization, you 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.



### **Safe Synchronization**

CleanSync is designed to prevent unwanted loss of important files and folders. If the removable drive is accidentally removed, or if the computer shuts down during synchronization, CleanSync will restore everything to the state before synchronization.



### **Cleaner Folders**

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



### **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.



### **Automation Support**

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



### **Clean and intuitive user interface**

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



## **Synchronization Cancellation**

If you change your mind, you can at cancel anytime during synchronization.



## **Folder Back-up**

Files and folders deleted during the latest synchronization process will not be deleted but stored in the “CleanSync” folder in your computer’s Application Data folder

## 2. CleanSync guide

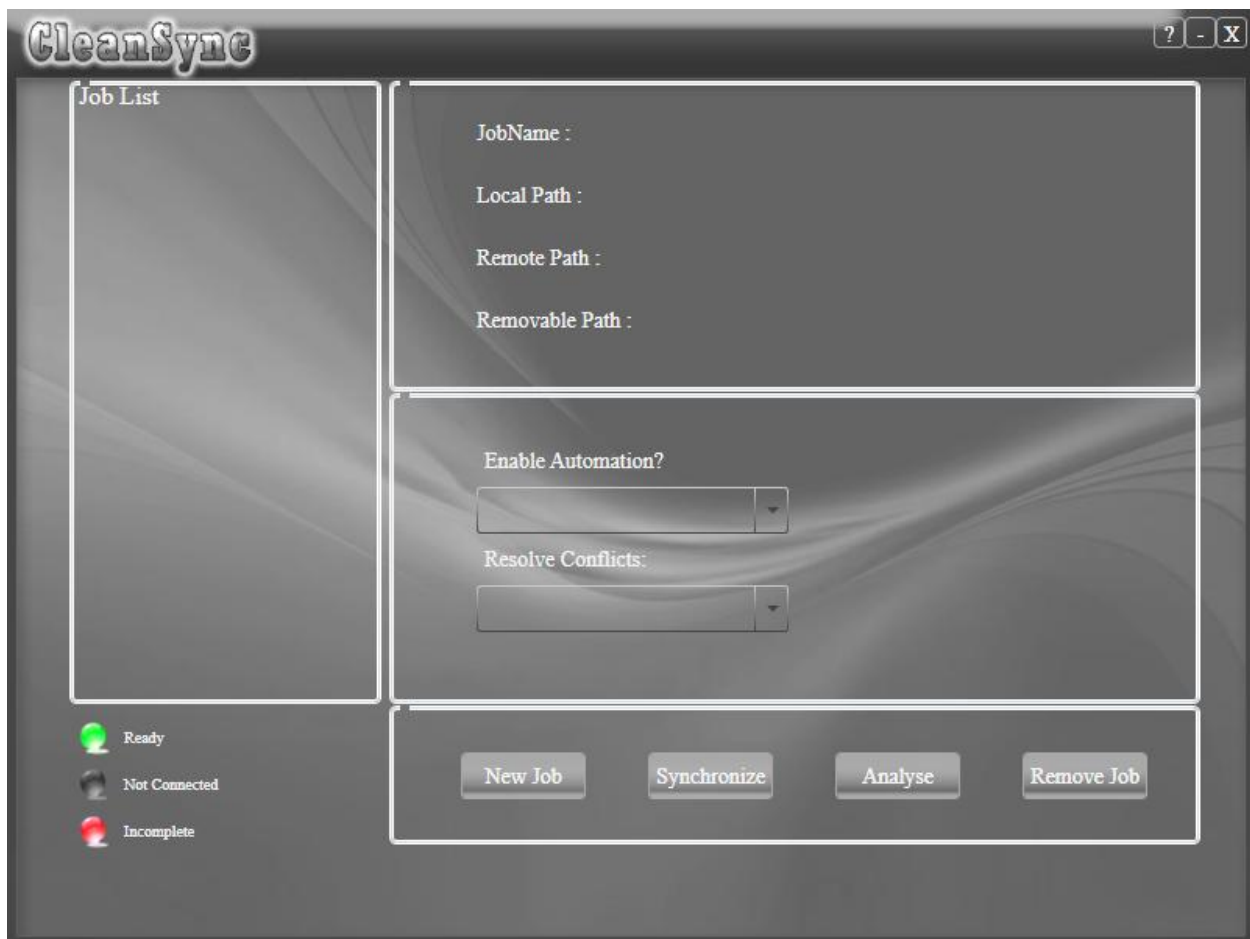
### 2.1 Installation CleanSync

Unzip CleanSync\_v2.0.zip to any directory in your computer\*. A folder “CleanSync v2.0” will be created in that directory.

### 2.2 Starting CleanSync

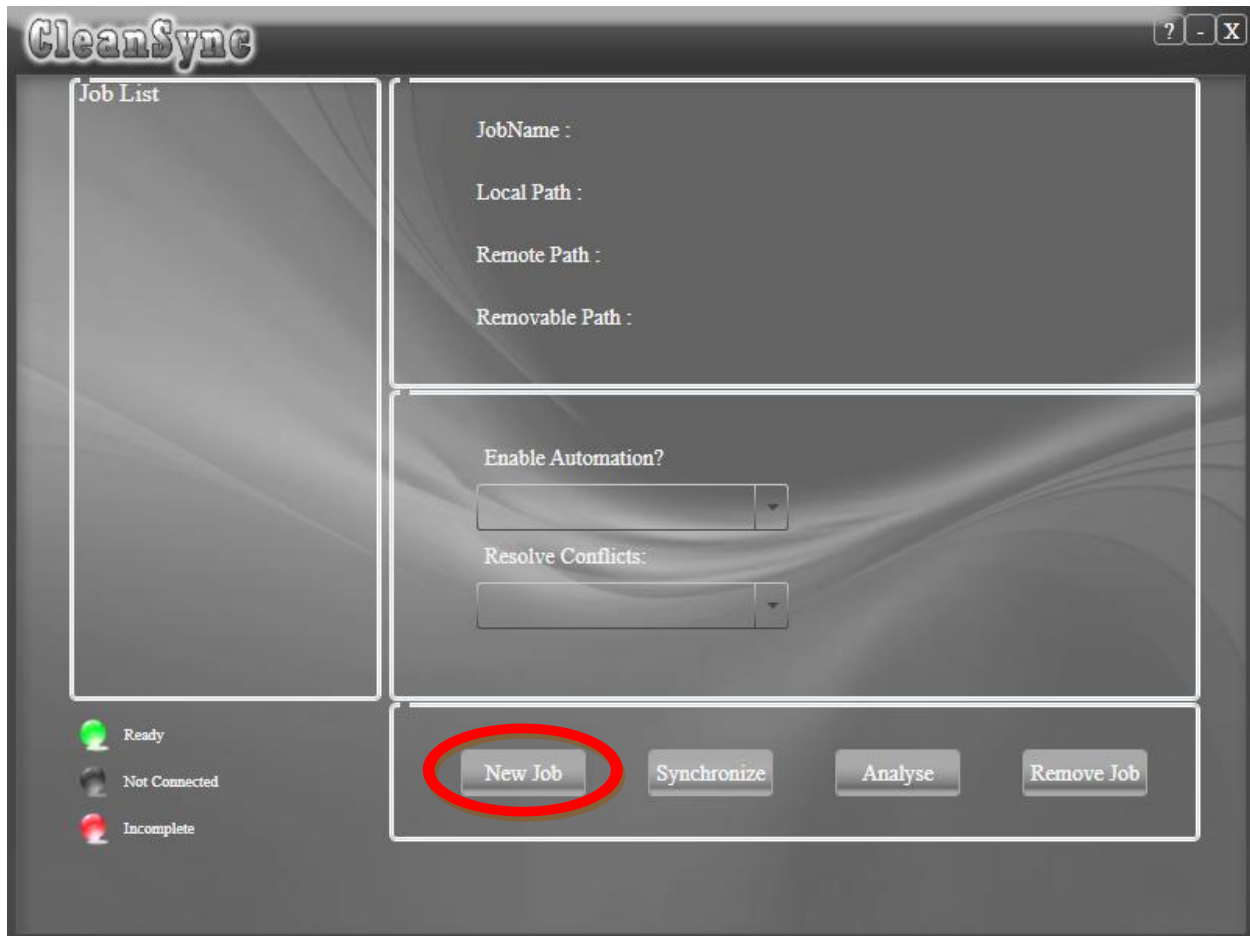
To start, double click on **CleanSync.exe**

You are now in the main screen:

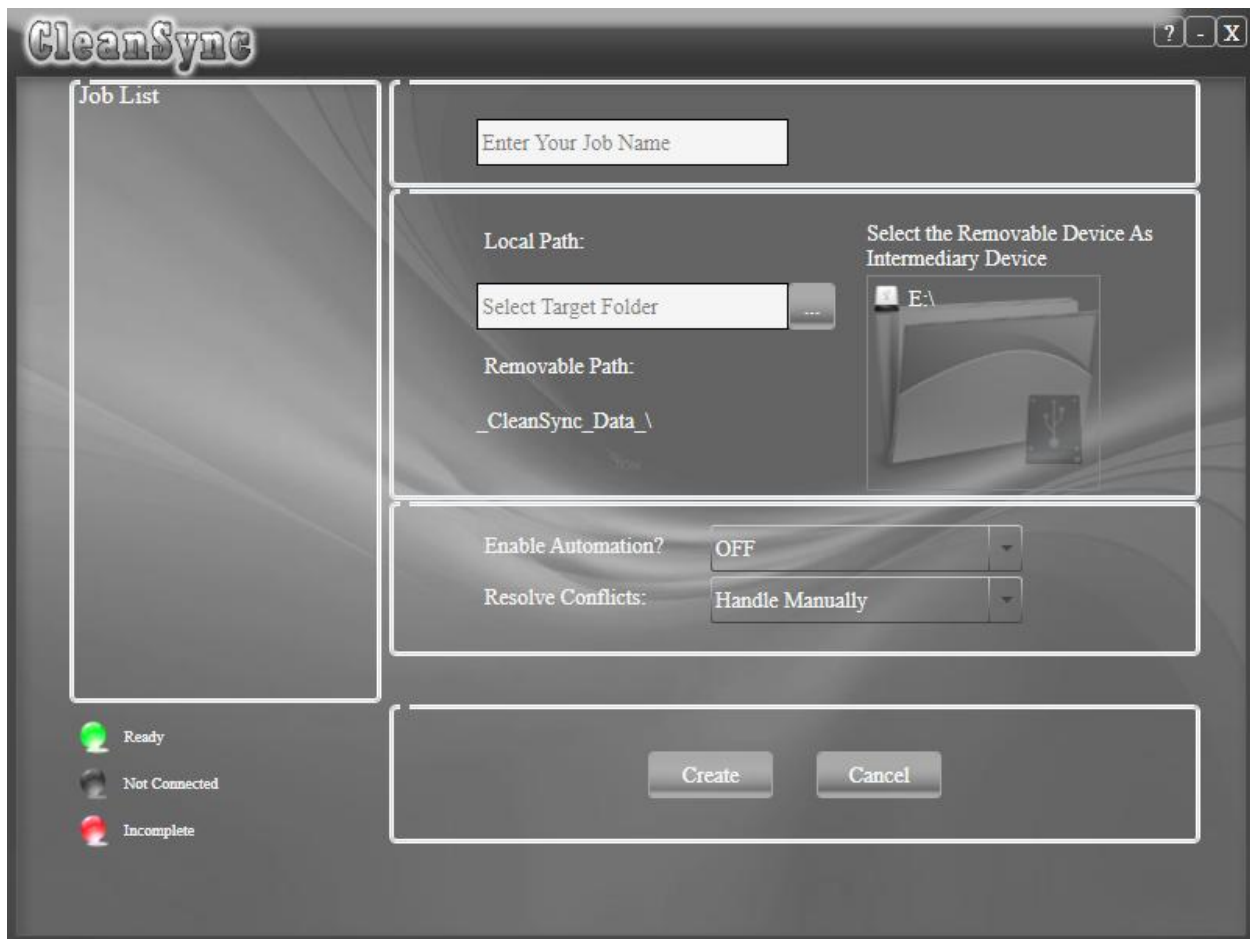


## 2.3 Creating a new CleanSync Job

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



Then you will be inside the new job window:



The screenshot shows the CleanSync application window titled "CleanSync". It features a "Job List" panel on the left, which is currently empty. The main area contains several input fields and controls:

- Enter Your Job Name:** A text input field.
- Local Path:** A section containing a "Select Target Folder" button and a "Removable Path:" label.
- Removable Path:** A text input field containing the text "\_CleanSync\_Data\".
- Select the Removable Device As Intermediary Device:** A section containing a folder icon labeled "E:\".
- Enable Automation?:** A dropdown menu set to "OFF".
- Resolve Conflicts:** A dropdown menu set to "Handle Manually".
- Create and Cancel buttons:** Two buttons at the bottom right.

At the bottom left, there is a status section with three indicators:

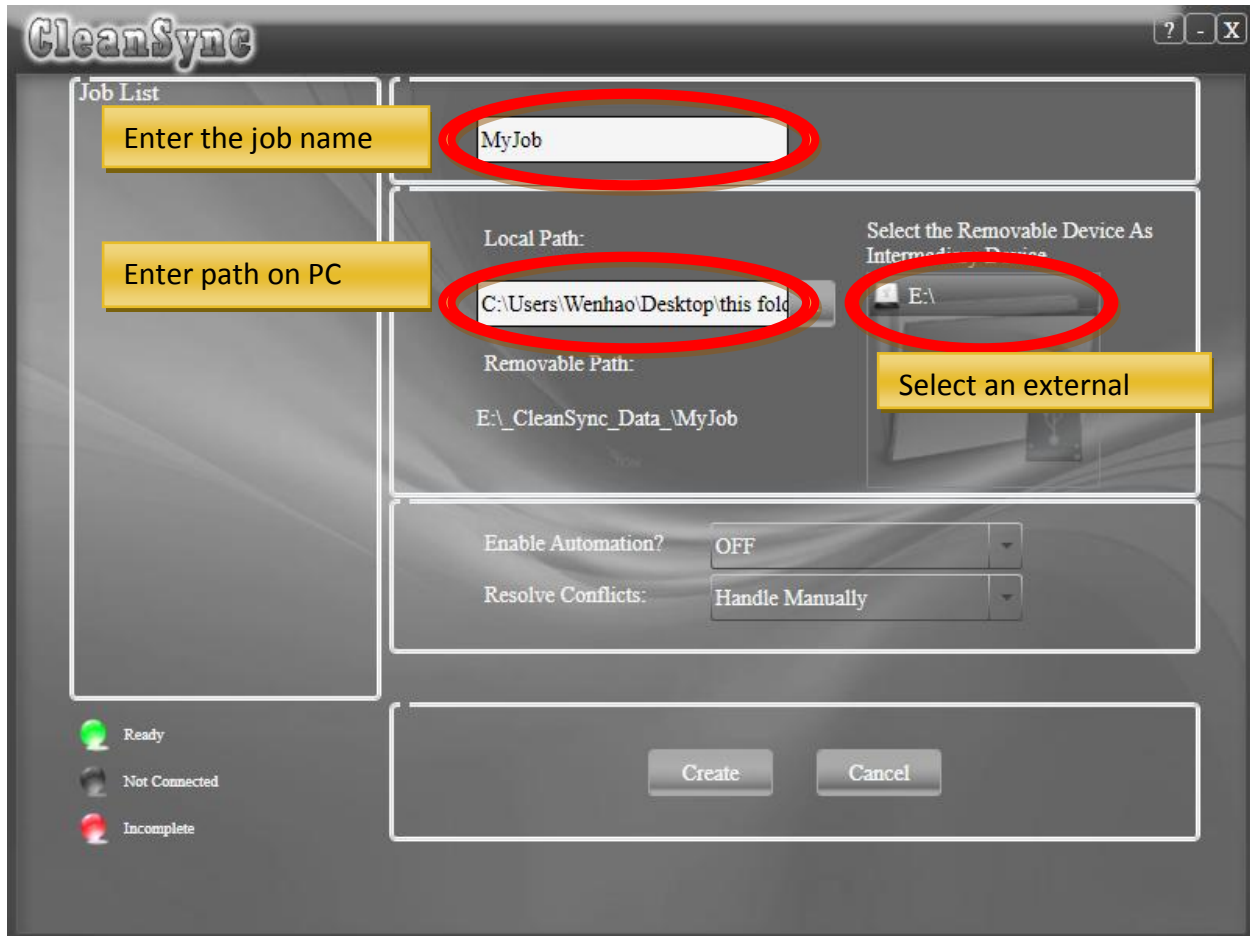
- Ready:** Represented by a green circle.
- Not Connected:** Represented by a black circle.
- Incomplete:** Represented by a red circle.



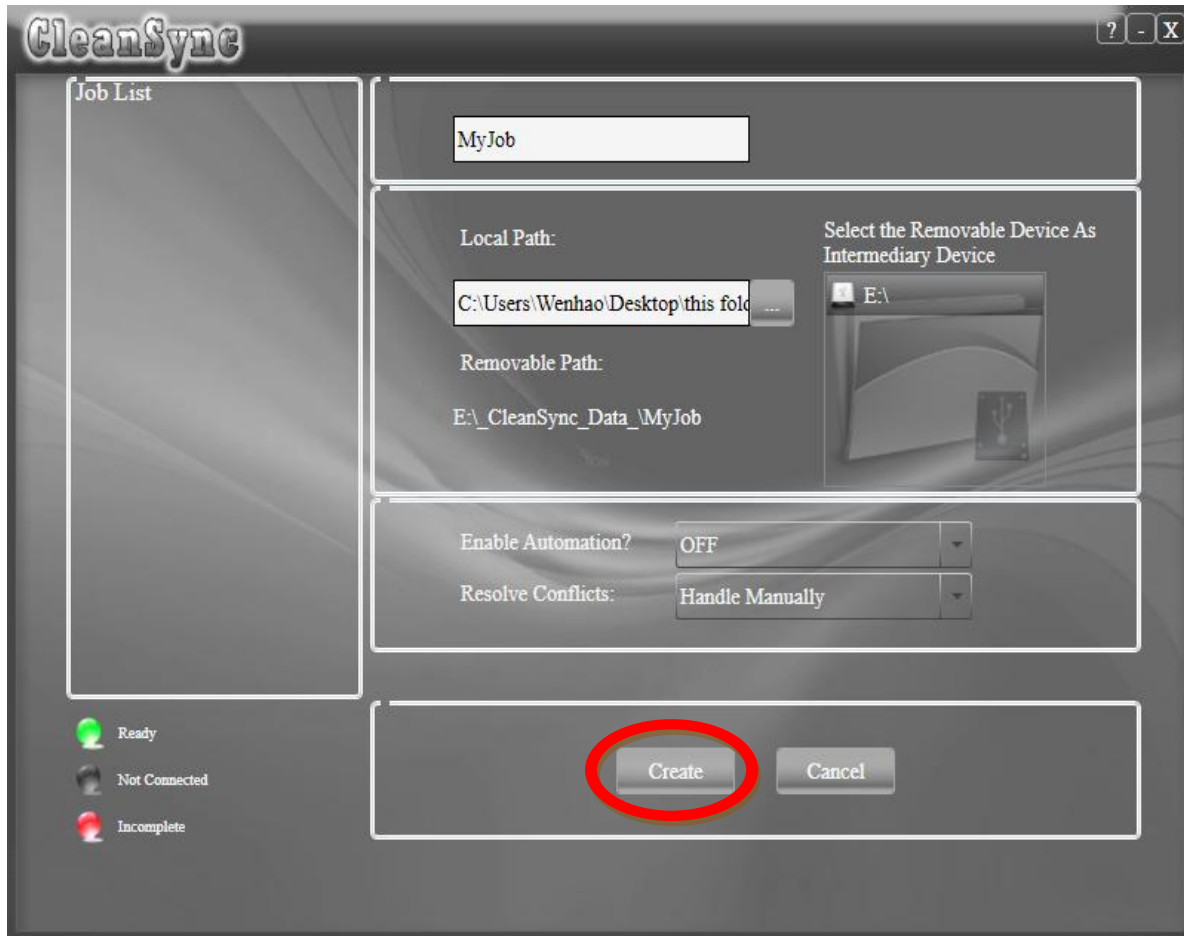
**Enter a name for the job, and select the folder to synchronize.**

**Select a folder on the USB drive to store the data on the USB drive.**

**You are ready to synchronize for the first time!**



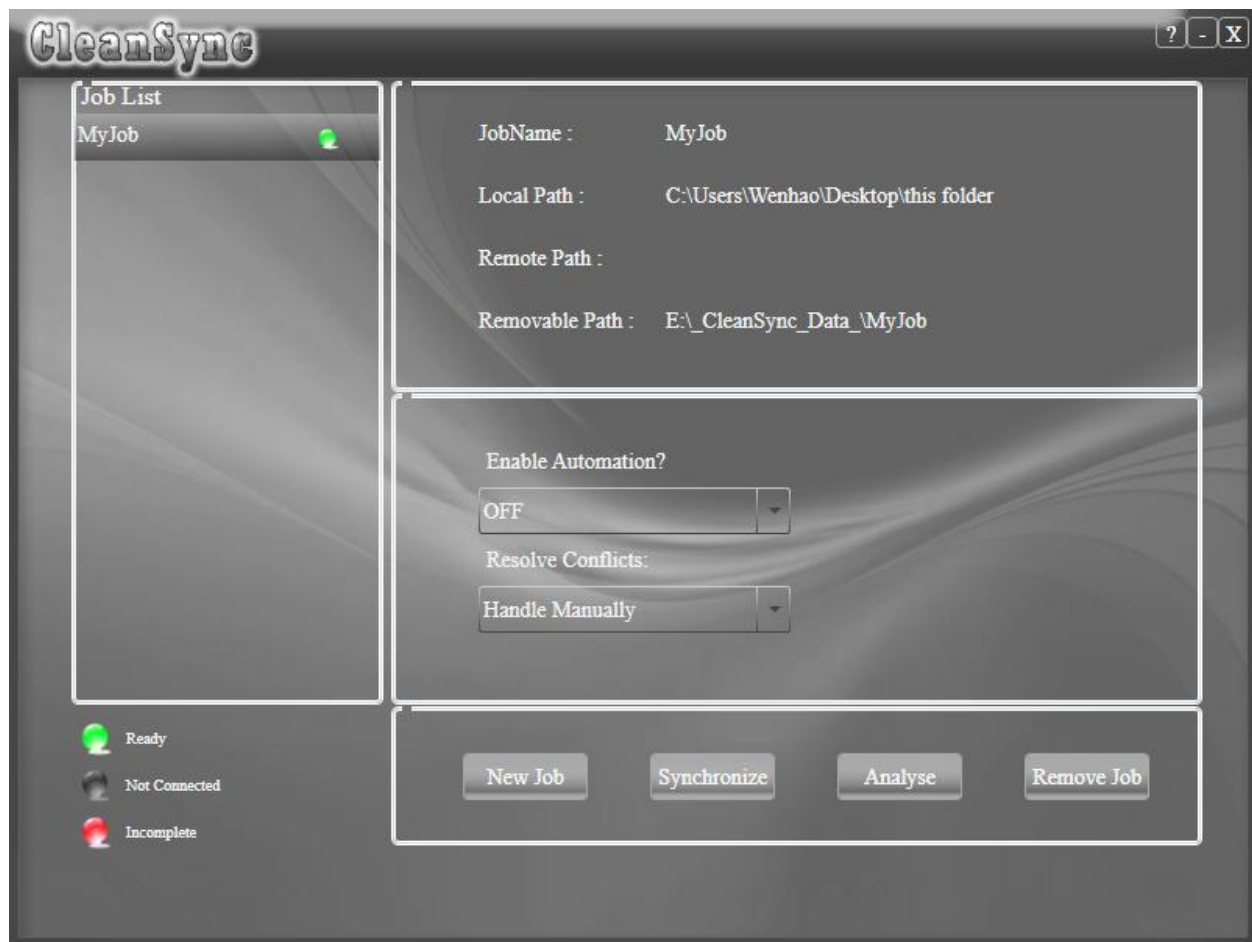
Click on "Create" to copy all the files from the PC folder to the USB folder.





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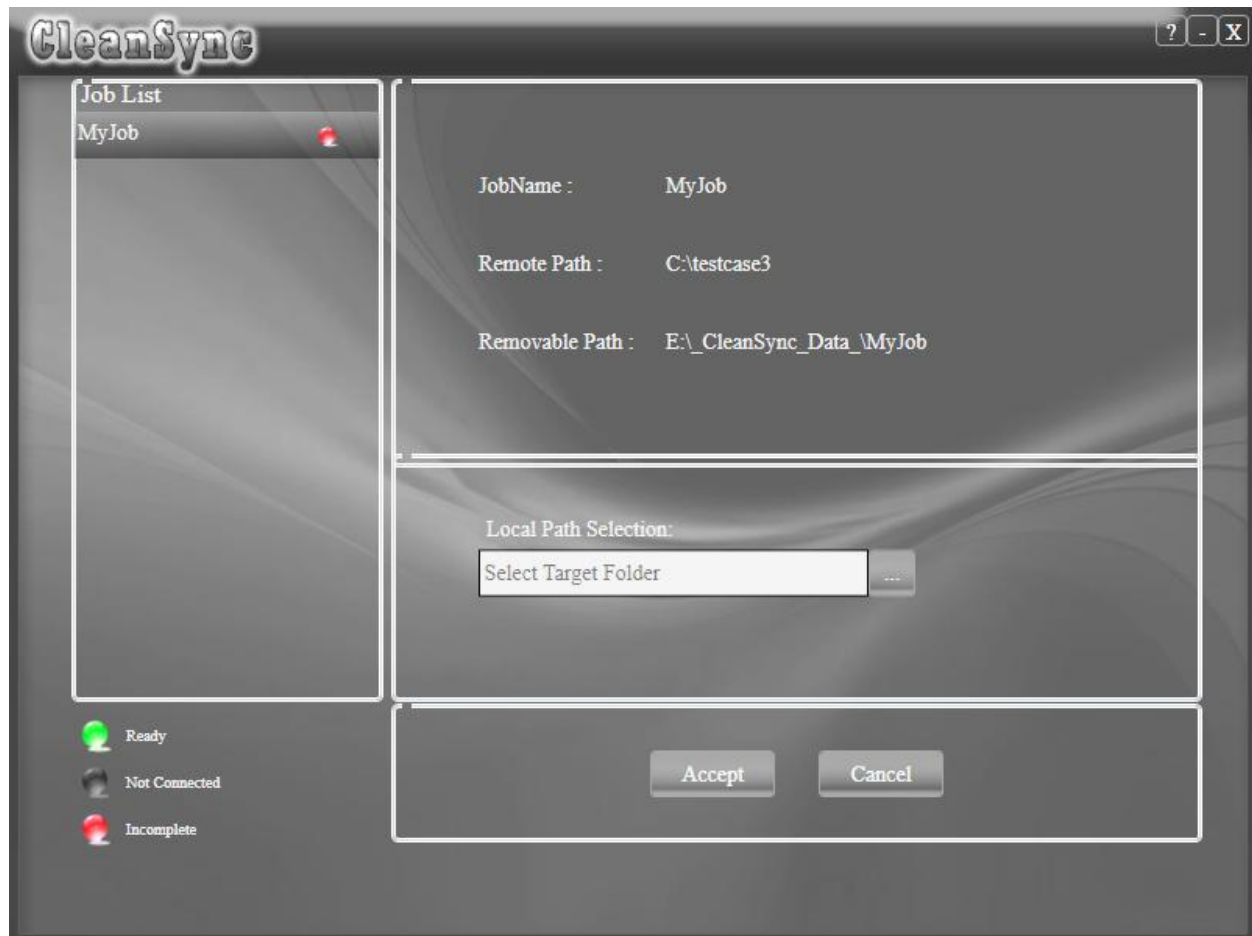
## Creating a job on this PC is now complete!



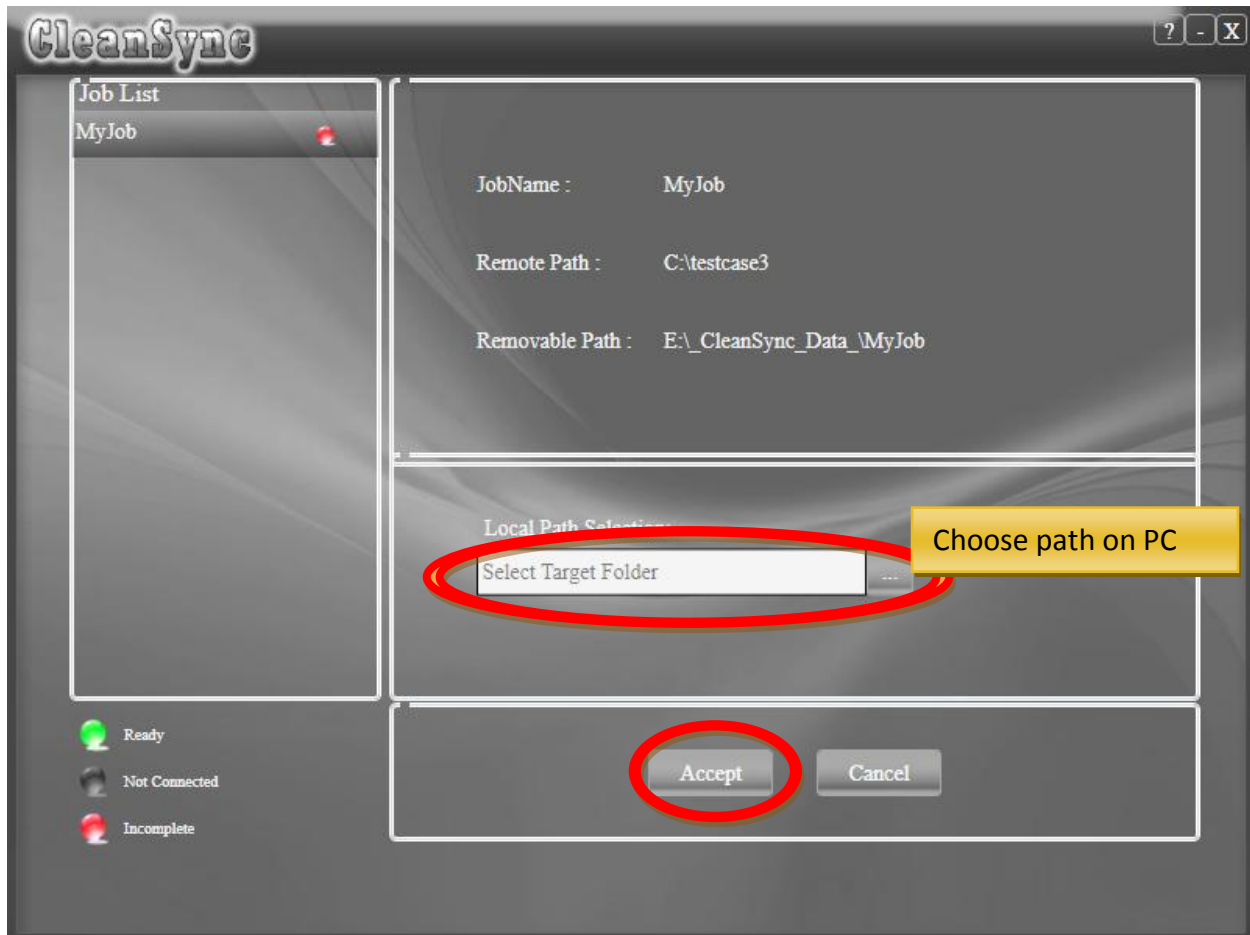
**Now you can plug the USB into another computer with CleanSync installed for the other computer to accept the CleanSync job.**

## 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.

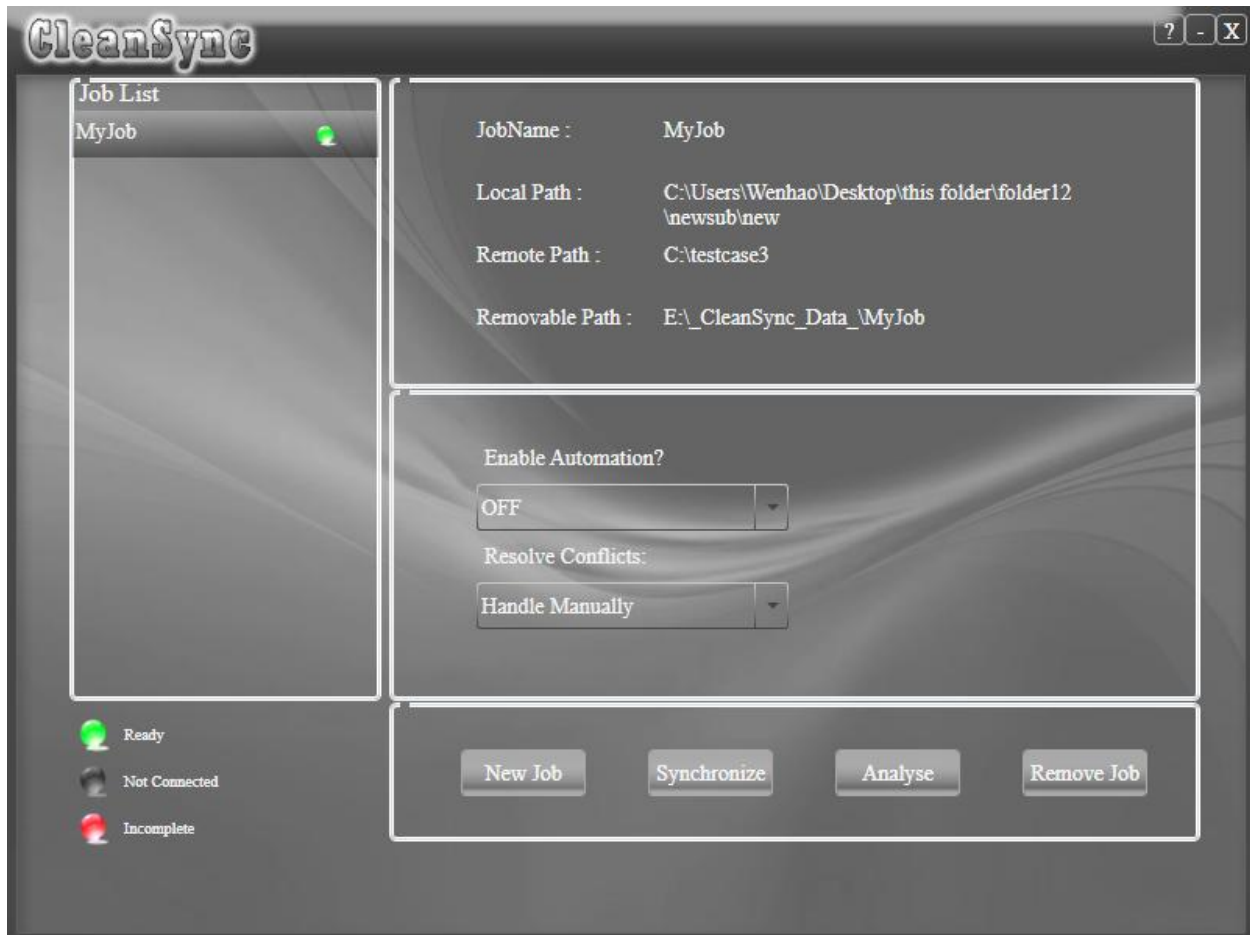


To accept, select the incomplete job, select a folder to synchronize on and click on “Accept”.





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



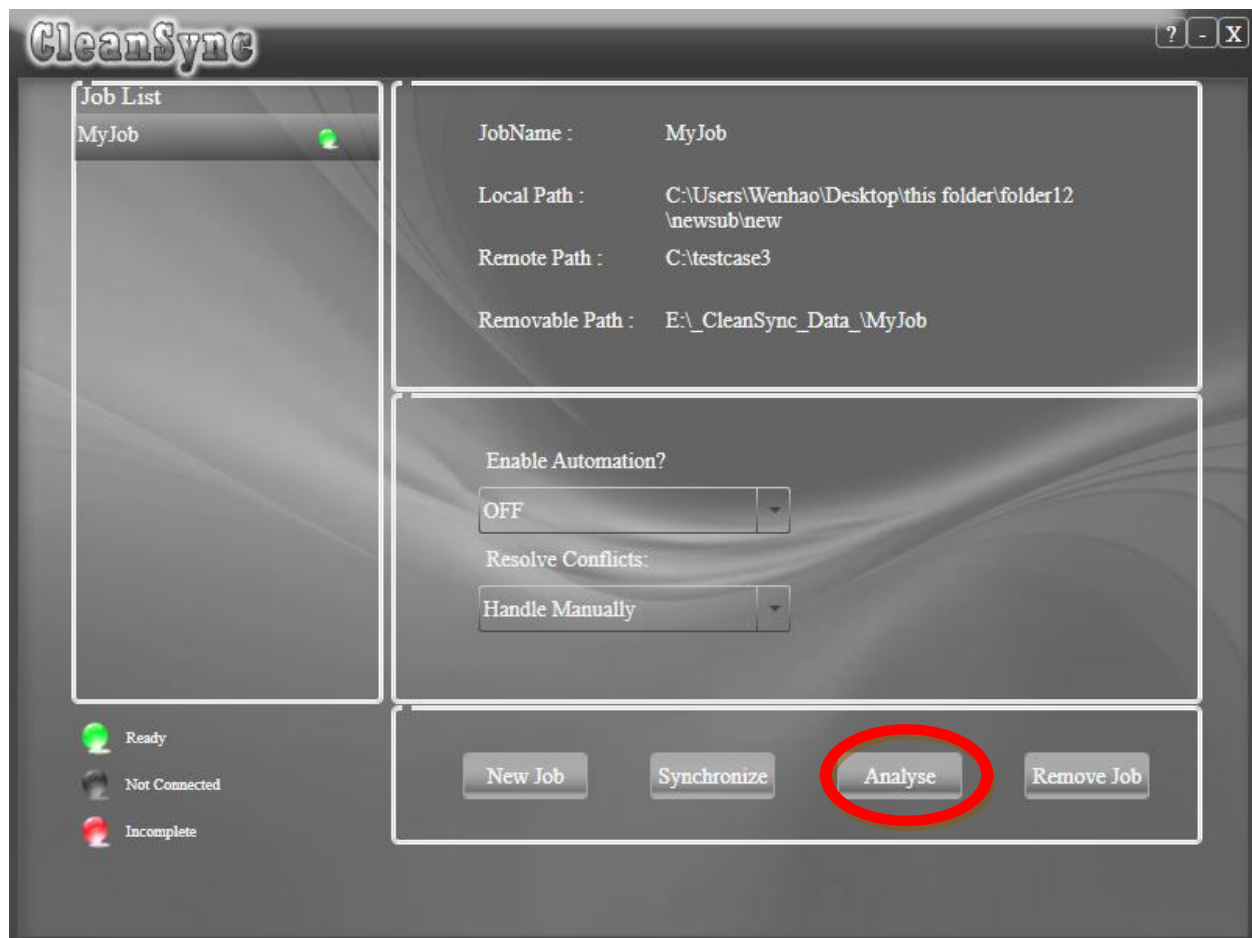
**Accepting a CleanSync job is now complete!**

## 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 color 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.

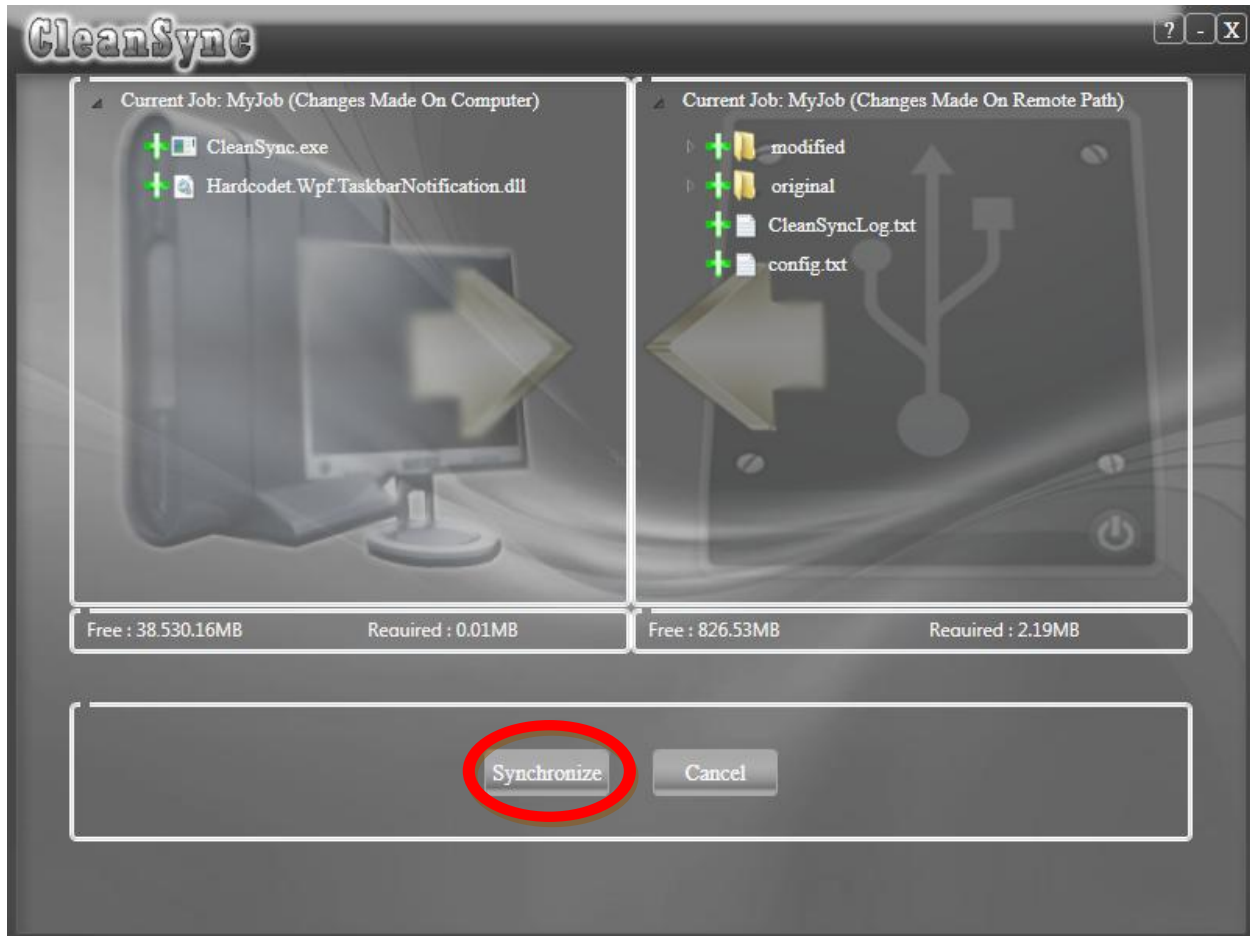


denotes a deleted file or folder.





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

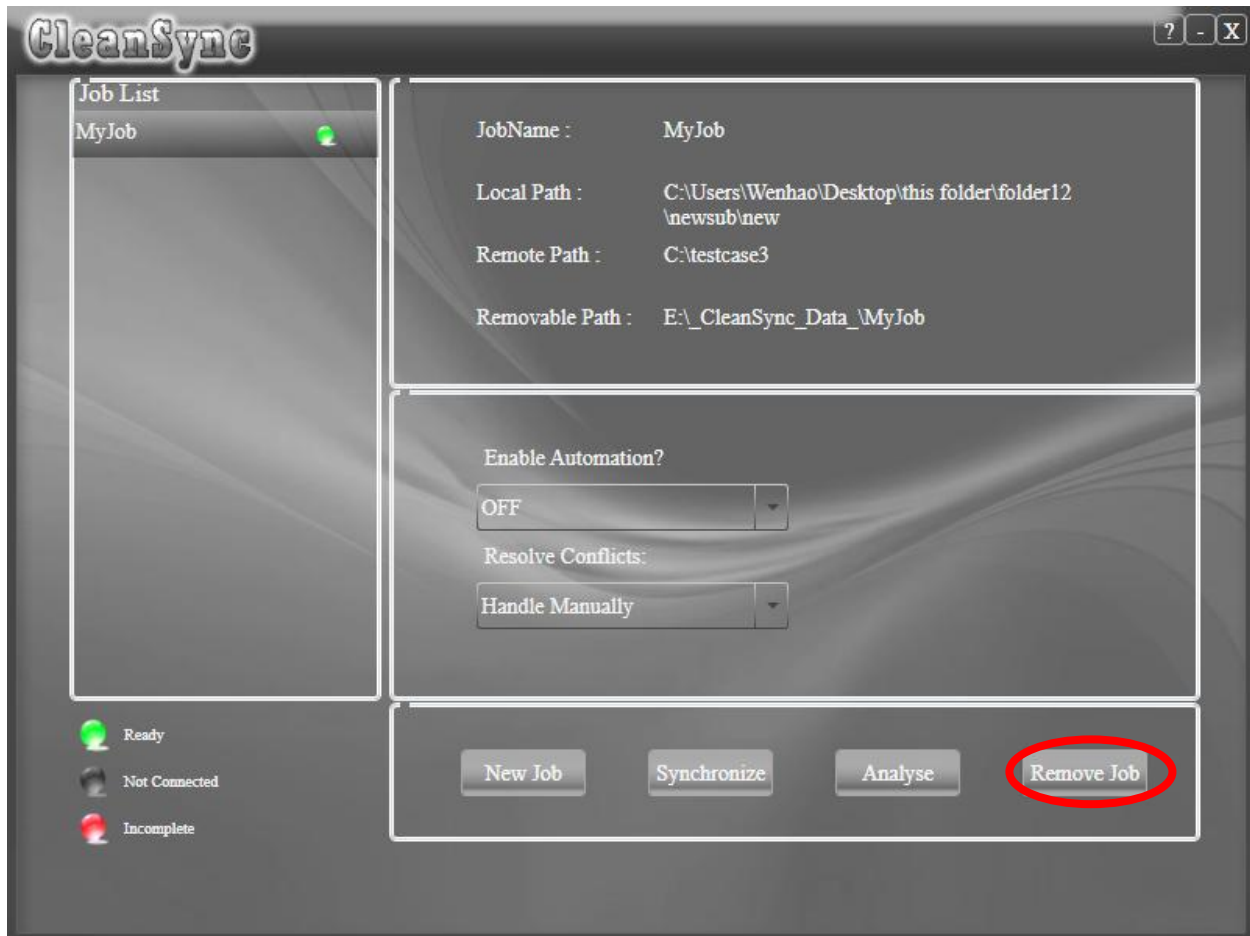
After analyzing, in the event of conflicts, i.e files to be copied from USB to PC has already been modified on the PC, a conflict window will appear:



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.



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## 3. 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.

Group Leader:        Li Yi  
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                             Li ZiChen  
                             Lu Wenhao  
                             Tso Shuk Yi  
                             Yu Qiqi

Special thanks to Dr. Damith, our mentor for this project, Dr. Soo for CleanSync's architecture, Mr. Jonathan, Miss Maung, Mr. Xue Yinxing, Miss Yip Yoke Min Shawn and everyone in our CS2315 module for giving us invaluable feedback on our product.