

SyncSharp: Plug & Sync

File Synchronization Software

User Guide V1.0

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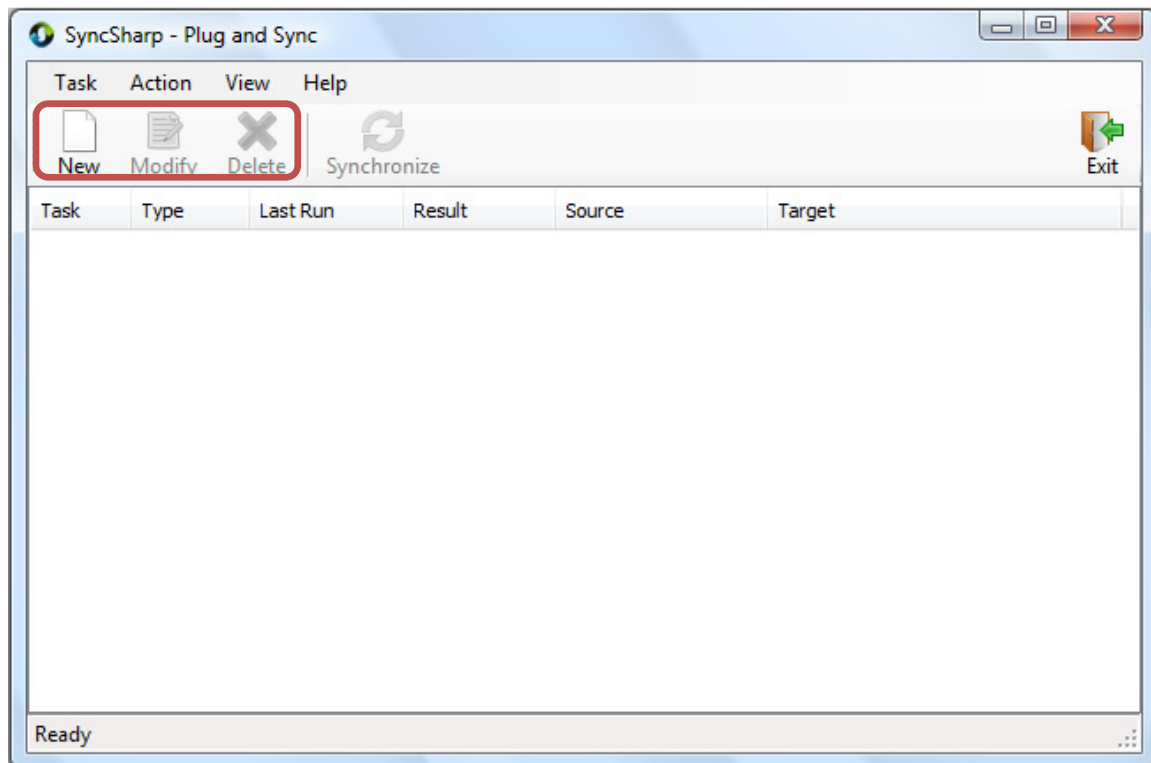
Part 1: Product Description

Syncsharp is developed for users who work with multiple computers and need to synchronize files that reside in different computers through an immediate device such as a USB drive. It is a Windows based application that allows users to sync files between multiple computers through an immediate device with no installation required. The file synchronization process is streamlined through a list of pre-determined user preferences.

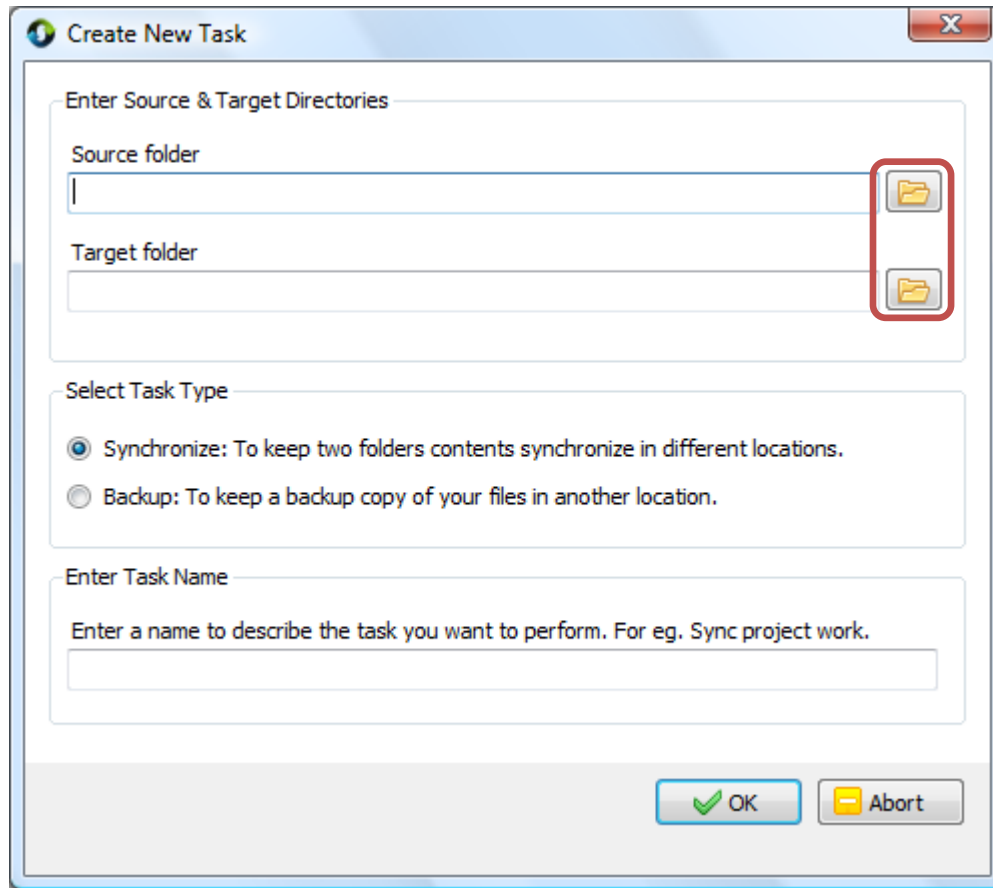
Part 2: Using Syncsharp

2.1 On First Run


On first run, user will need to activate SyncSharp by manually running the program. Subsequently, the program will automatically run by itself. Upon double clicking the executable, the following main window will pop up.



2.2 Creating New Sync Task



Step 1: Click on **New**, the **Create New Task** window will show up.

Step 2: Click on the icon  to locate the two folders ("Source folder" and "Target folder") that you would like to synchronize.

Step 3: **Select Task Type.**

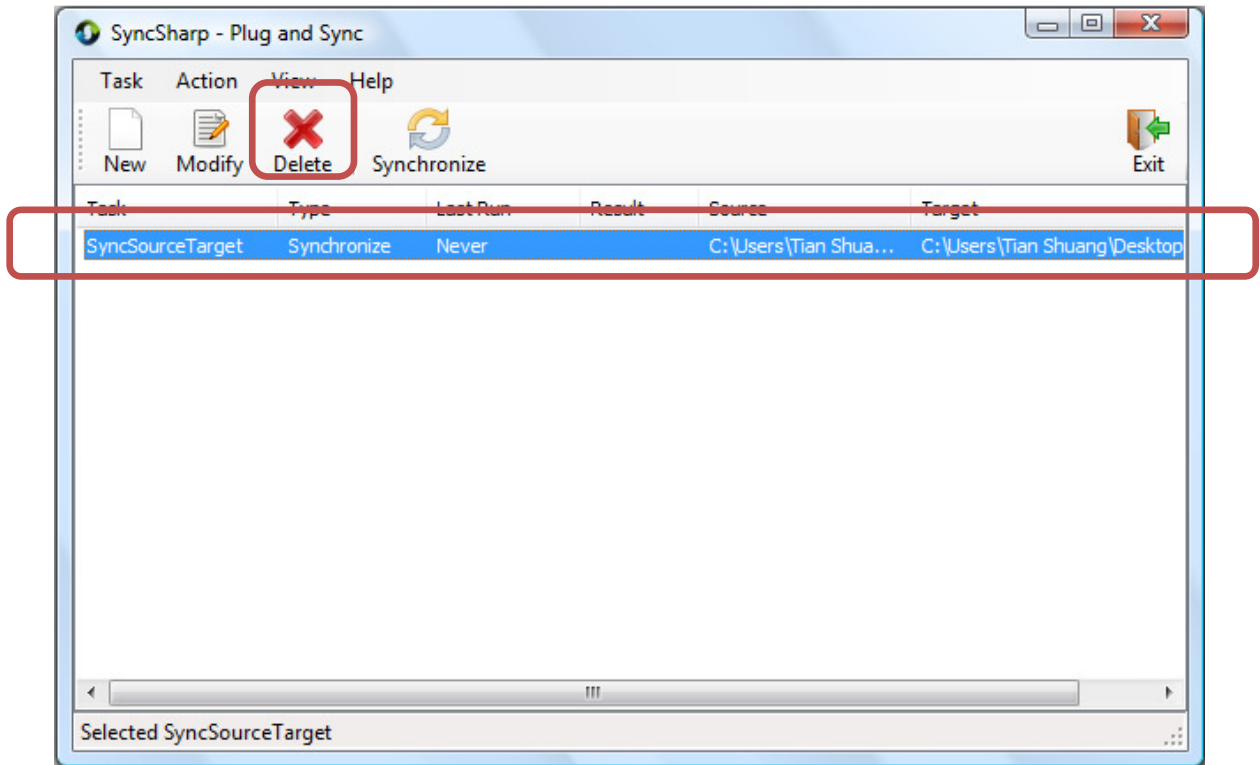
Synchronize – Synchronize source and target folders

Backup – Keep a copy of files in "Source folder" in "Target folder".

Step 4: **Enter Task Name.** Specify the name of this Sync Task. (This task will be saved, so next time the program is activated. It will automatically try to complete this task)

Step 5: Click on **OK** to finish the wizard.

2.3 Delete Sync Task



Step 1: Choose the Sync Task you want to delete.

Step 2: Click **Delete**.

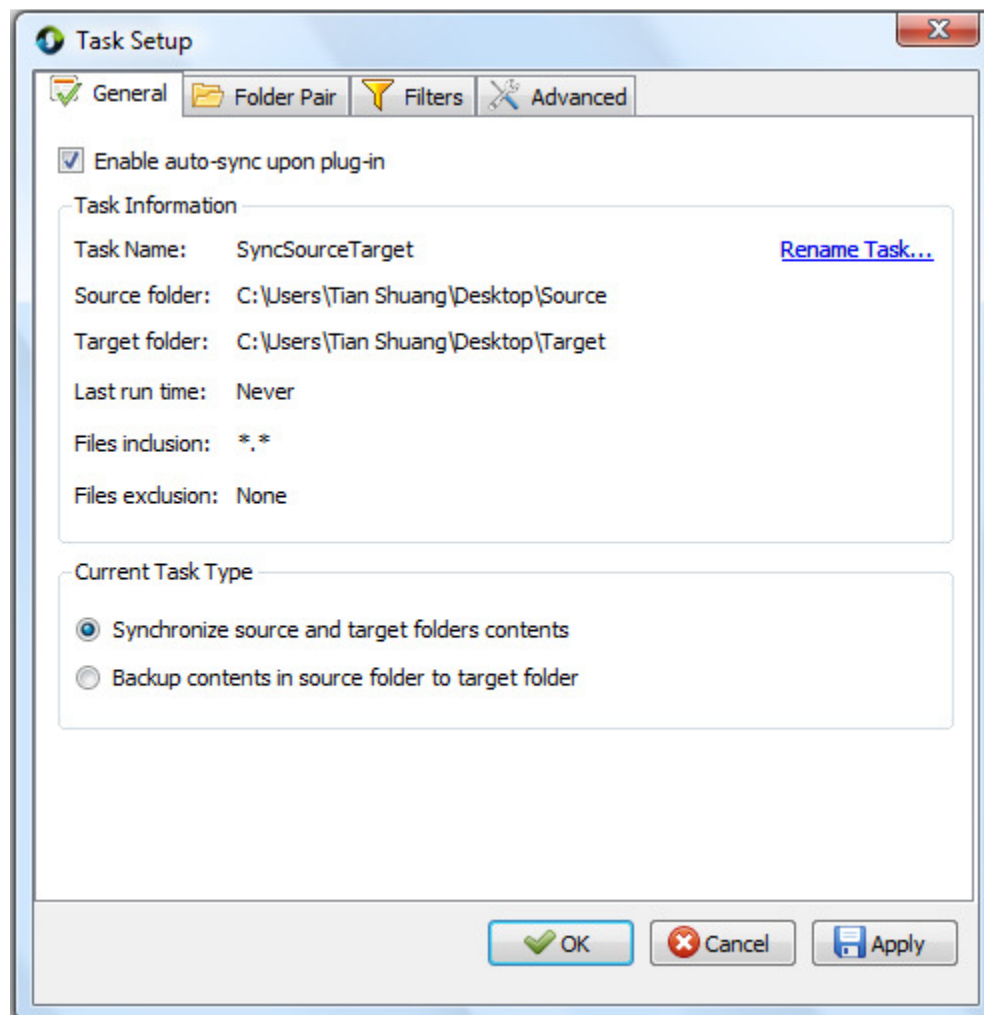
2.4 Modify Sync Task

Step 1: Click on the Sync Task you want to delete.

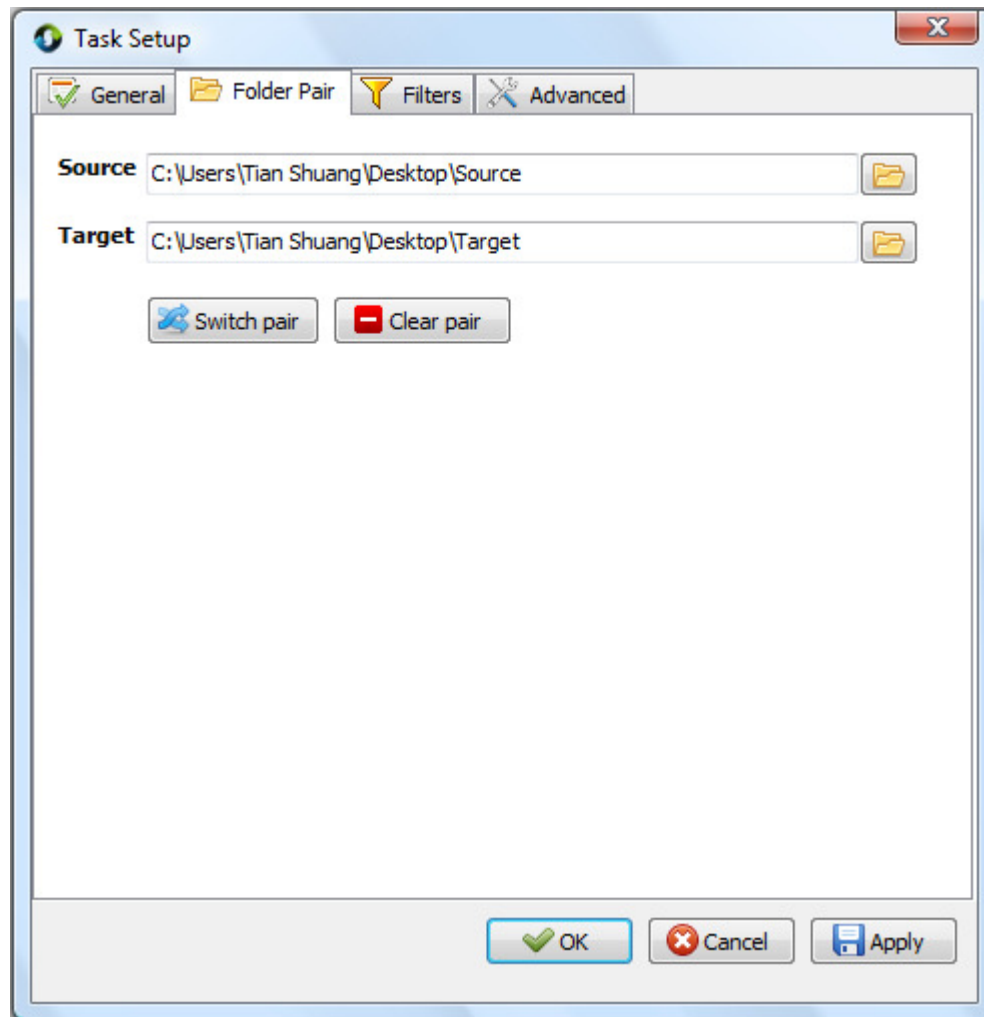
Step 2: Click **Modify**. The **Task Setup** window will pop up. It consists of 4 tabs.

- **General** – Display general information.
- **Folder Pair** – Modify folder pairs.
- **Filter** – Include/exclude file/folders in sync action.
- **Advanced** – Advanced syncing options.

General Tab



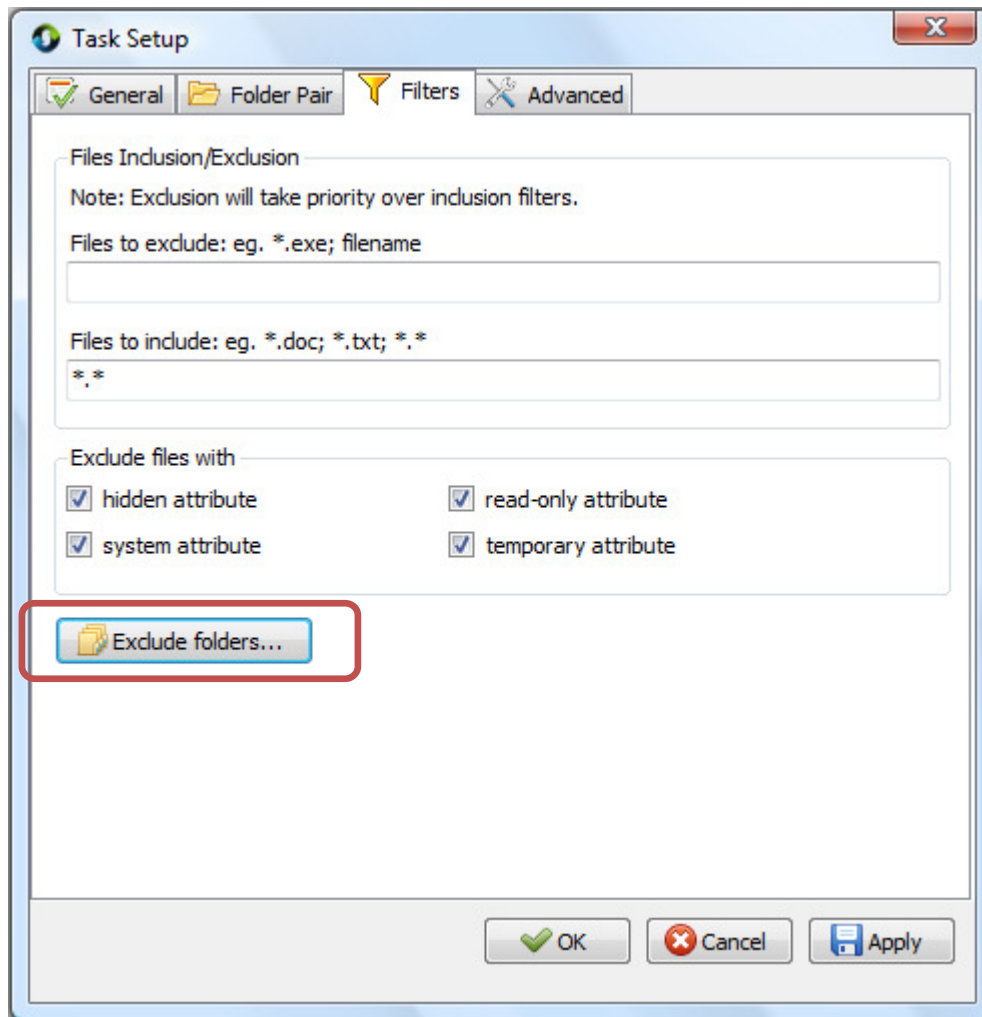
Folder Pair Tab



Switch pair – Switch the path of “Source” and “Target”

Delete pair – Delete the path of “Source” and “Target”

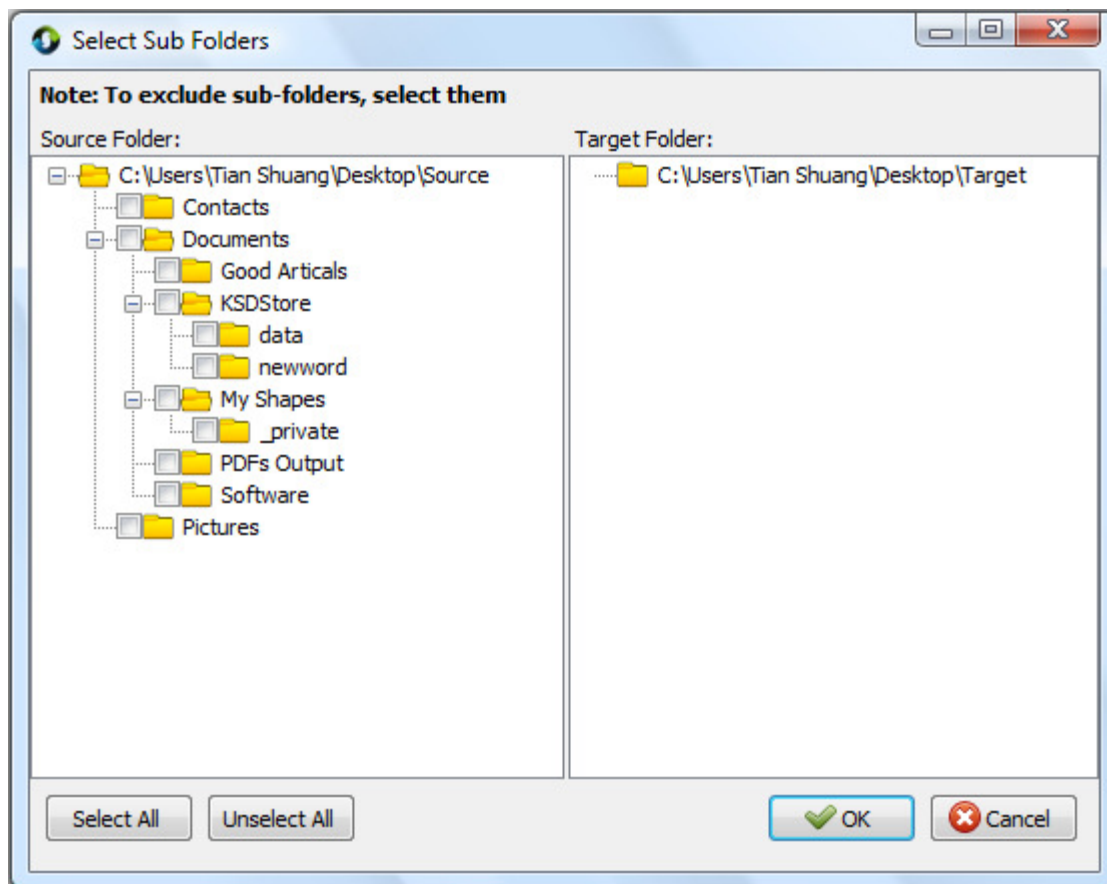
Filter Tab



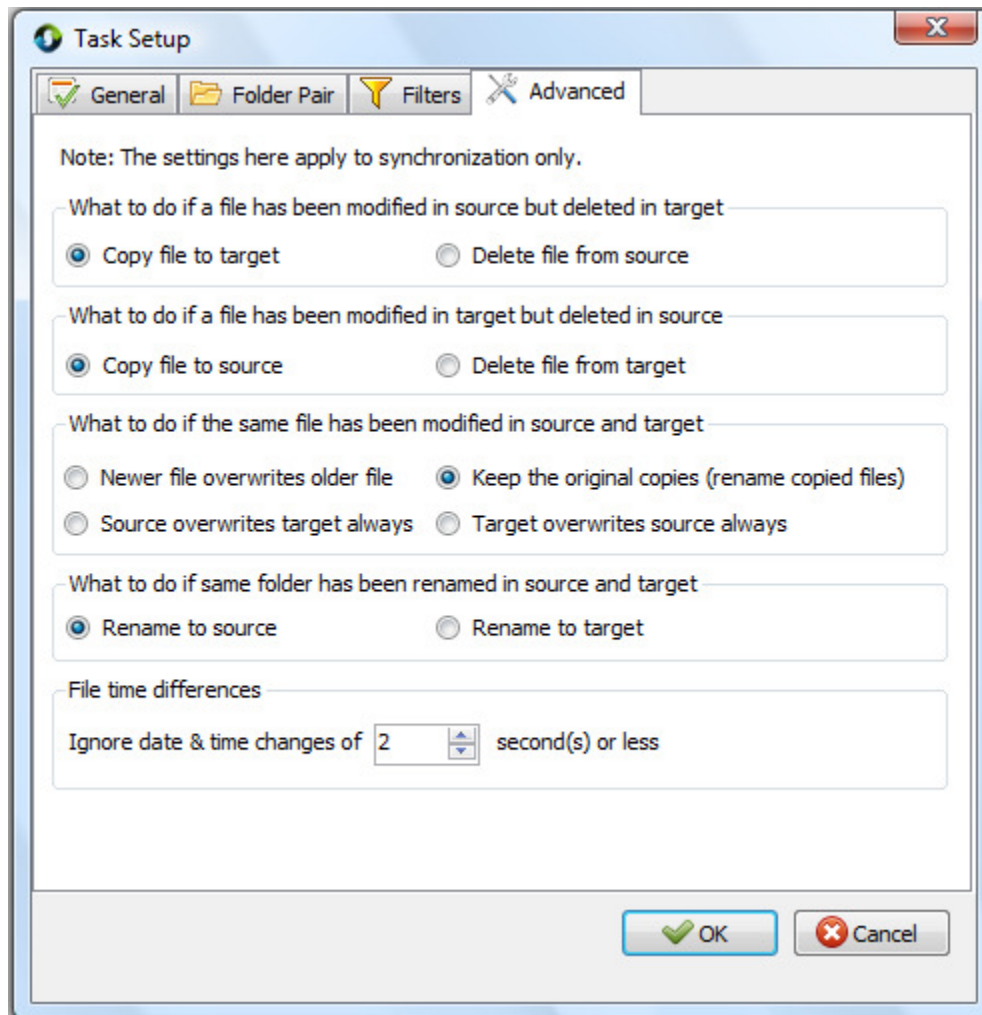
File Inclusion/Exclusion - Users are allowed to include/exclude files in “source” and “target” directory in the sync process. Filtering is based on file name or extension, (For e.g., to exclude all files with extension *‘.doc’*, put *‘*.doc’* in *‘Files to exclude’* textbox). Users are allowed to set multiple filtering criteria separated by ‘;’. Filtering of subfolders is achieved by using the **Exclude folder...** option.

Exclude files with – Filtering can also be achieved based on files/folders attributes. The default files to exclude are files with *‘system’* and *‘temporary’* attribute.

Exclude folders... will list out all sub folders in “Source” and “Target”. User is able to exclude sub-folders in the syncing process. (Below is a screenshot of its window).



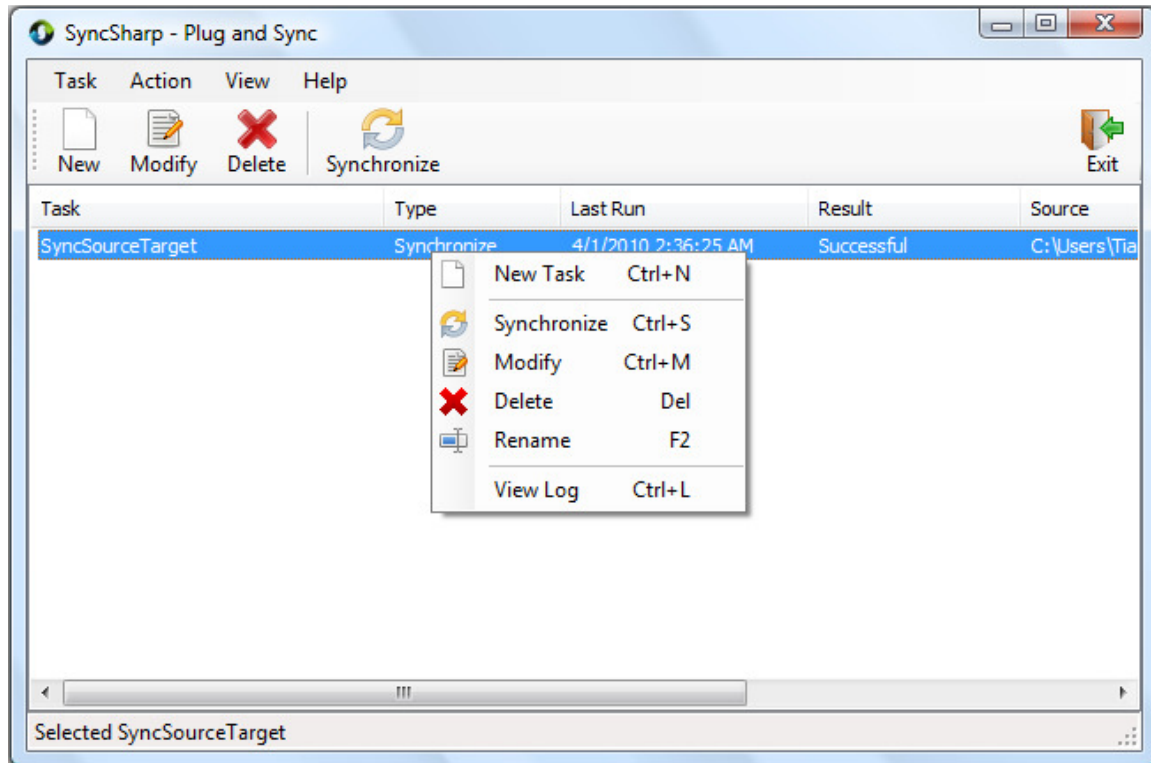
Advanced Tab



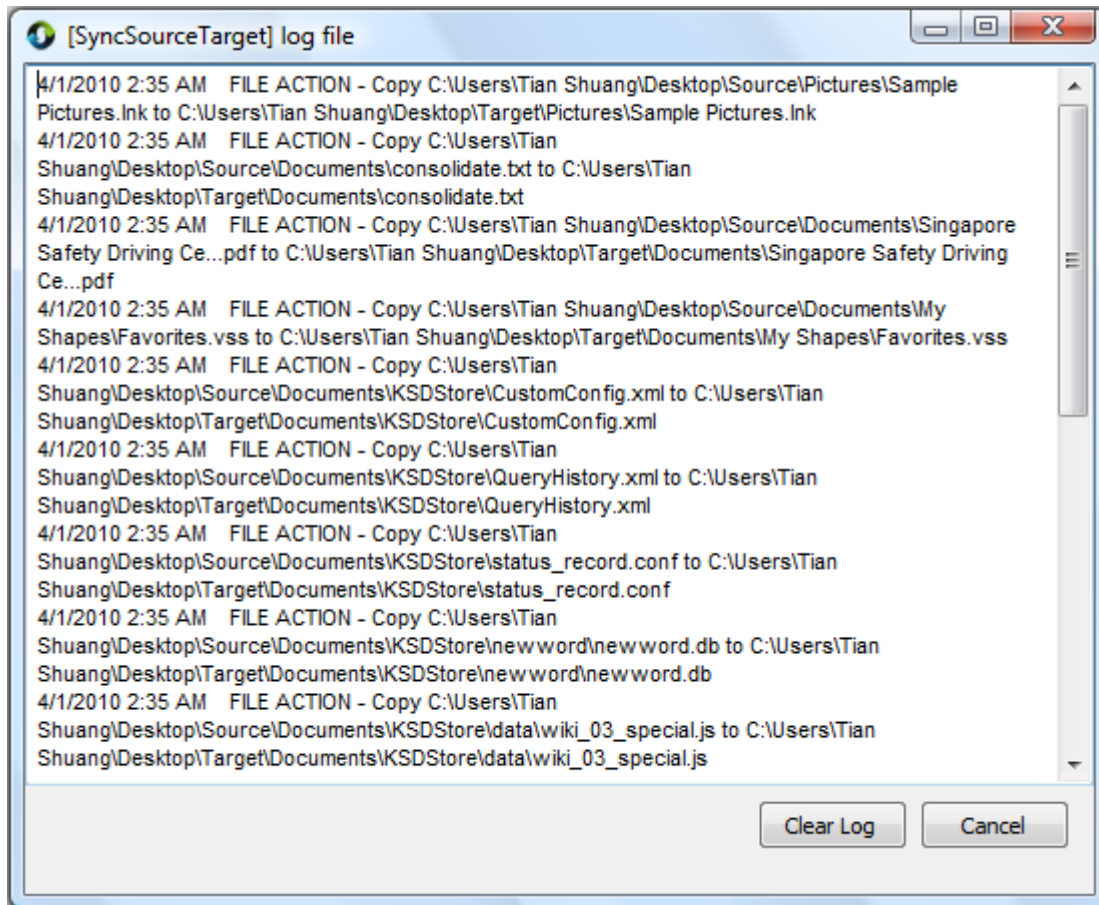
File time differences – While comparing two files or folders, if the difference in last-modified-time is less than or equals to the pre-set value. These files or folders are considered to be with the same modification time.

2.5 Task Management Menu

On the main menu, by right click on the Sync Task, the **Task Management Menu** will show up (as shown below). User could be able to make use of this menu to manage the tasks.



View Log provides a summary of last synchronization to user. Things like which files/folders are copied over from source to target, what kind of conflicts are resolved, which files have been deleted, etc, will be listed as **FILE ACTION** or **FOLDER ACTION** in the log. A sample log file is shown below.



2.6 Import Sync Task

Step 1: On the main menu, click **Task**

Step 2: Click **Import Task ...** or simply use 'Ctrl' + 'I'

Step 3: Specify which SyncTask to import.


2.7 Export Sync Task

Step 1: On the main menu, click **Task**

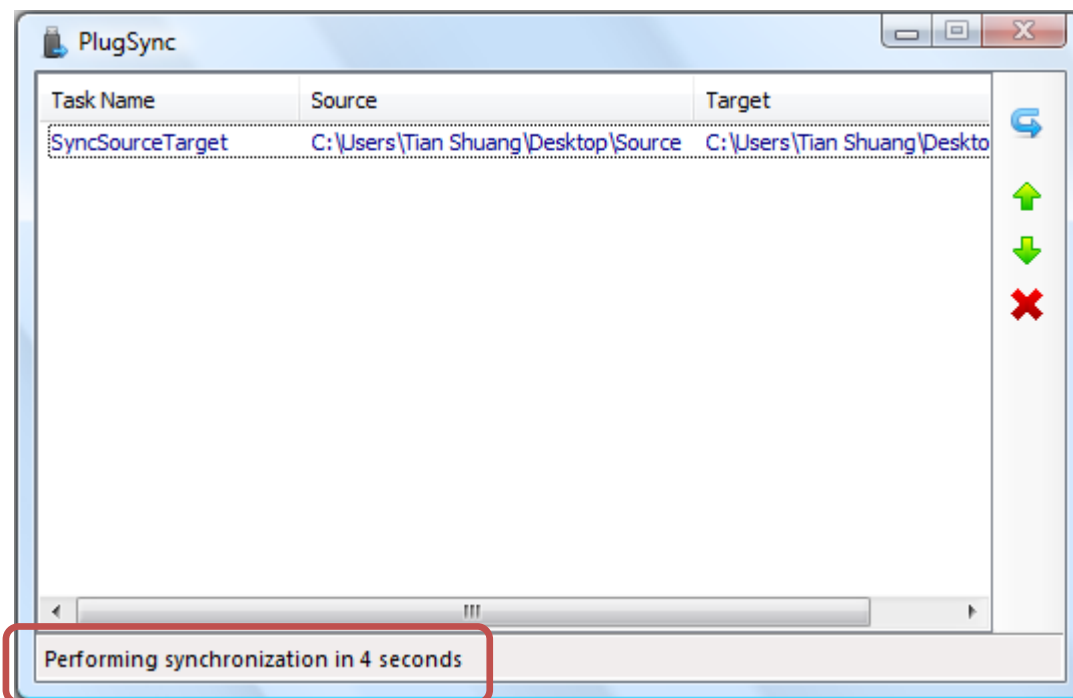
Step 2: Click **Export Task ...** or simply use 'Ctrl' + 'E'

Step 3: Specify the location you want the SyncTask to be saved.

2.8 PlugSync

The program will run by itself while external storage device is plugged into a computer. Upon execution, the **Autoplay** window as shown below will pop up. User is able to interrupt the **PlugSync** function by clicking on the  icon.

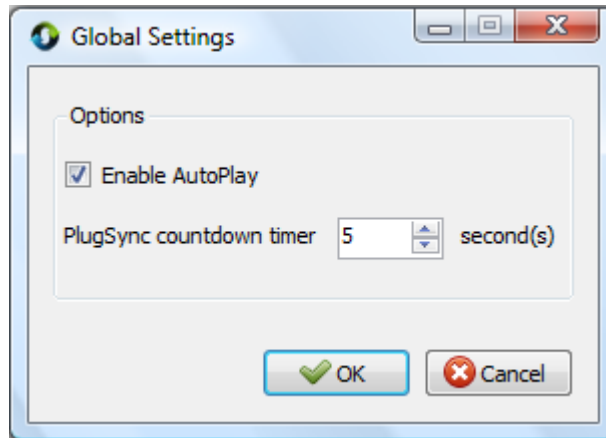
SyncSharp will count down for 5 seconds (default) waiting for user interruption (Count-down timer is shown on the bottom). If there is no interruption, program will automatically try to perform all the saved SyncTask.



2.9 Change the default countdown timer

Step1: On the main menu, click **View**

Step 2: Click on **Options ...**, the **Global Settings** window shown as below will pop up



Step 3: Use the up and down arrow to change the default countdown timer. (Sync will start right away if the timer was set to 0.)

Enable AutoPlay. If checked, an ***autorun.inf*** will be created on the external storage device to auto run SyncSharp upon plug in to the PC.

Part 3 Troubleshooting

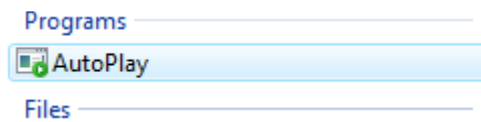
3.1 PlugSync Is Not Functioning Fully

On some Windows machines, **auto play** of external storage device is disabled. However, in order to enable the **PlugSync** function, user will need to modify the **auto play** settings. This guide will walk you through step by step on how to change the 'auto play' settings.

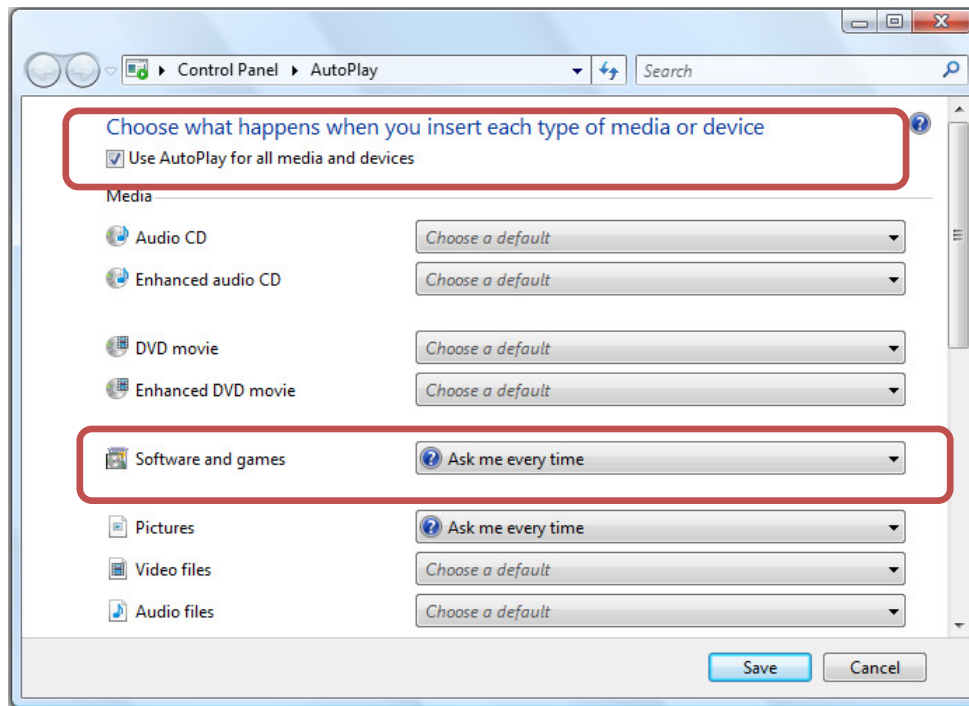
On Windows Vista:

Step 1: Click on **Start** → In the search box, type in **autoplay**

Step 2: Choose the first returned result, which looks like



Step 3: Click on the icon, the following window will pop up.

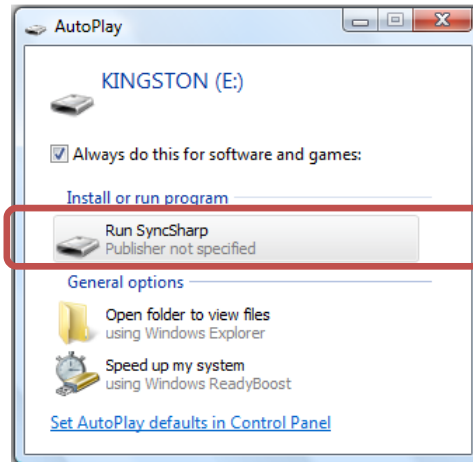


Step 4: Check the box **Use AutoPlay for all media and devices**

Step 5: In the drop-down list for **Software and games**, choose **Ask me every time**.

Step 6: Click on '**Save**' to save the setting.

Step 7: The next time user plug in his external storage device, system will prompt user for actions. A window looks like the following will show. Check the box '***Always do this for software and games:***' and click on '***Run SyncSharp***' to activate the program. By doing this, this action is saved on the machine, and the PlugSync feature will function properly.



Part 4 Glossary

Term	Definition
SyncSharp	Name of our sync tool
SyncTask	Configuration file that contains source and target directory information to be synchronized
SyncProfile	Contains list of SyncTasks for a Particular PC/Laptop
FileUnit	Abstract representation of a file or folder, contains information such as name, size, hash code, last modified date, etc.
PlugSync	A feature in our program. Program will run by itself while the USB is plugged into a computer. Upon execution, the program will count down for 5 seconds waiting for user interruption. If there is no interruption, the program will automatically try to perform all the saved SyncTask.
1 way sync	Update destination directory to have the same content as source directory
2 ways sync	Update source and destination directories to have the same state
Report/Logger	Log file that records the operations perform in the synchronization process
Target	The destination directory to be sync or compared
Detector	The sub-system that detect changes of the source or destination directory
Reconciler	The sub-system that resolves conflicts between the source & destination directories
TaskSettings	Contains configuration settings made for each SyncTask