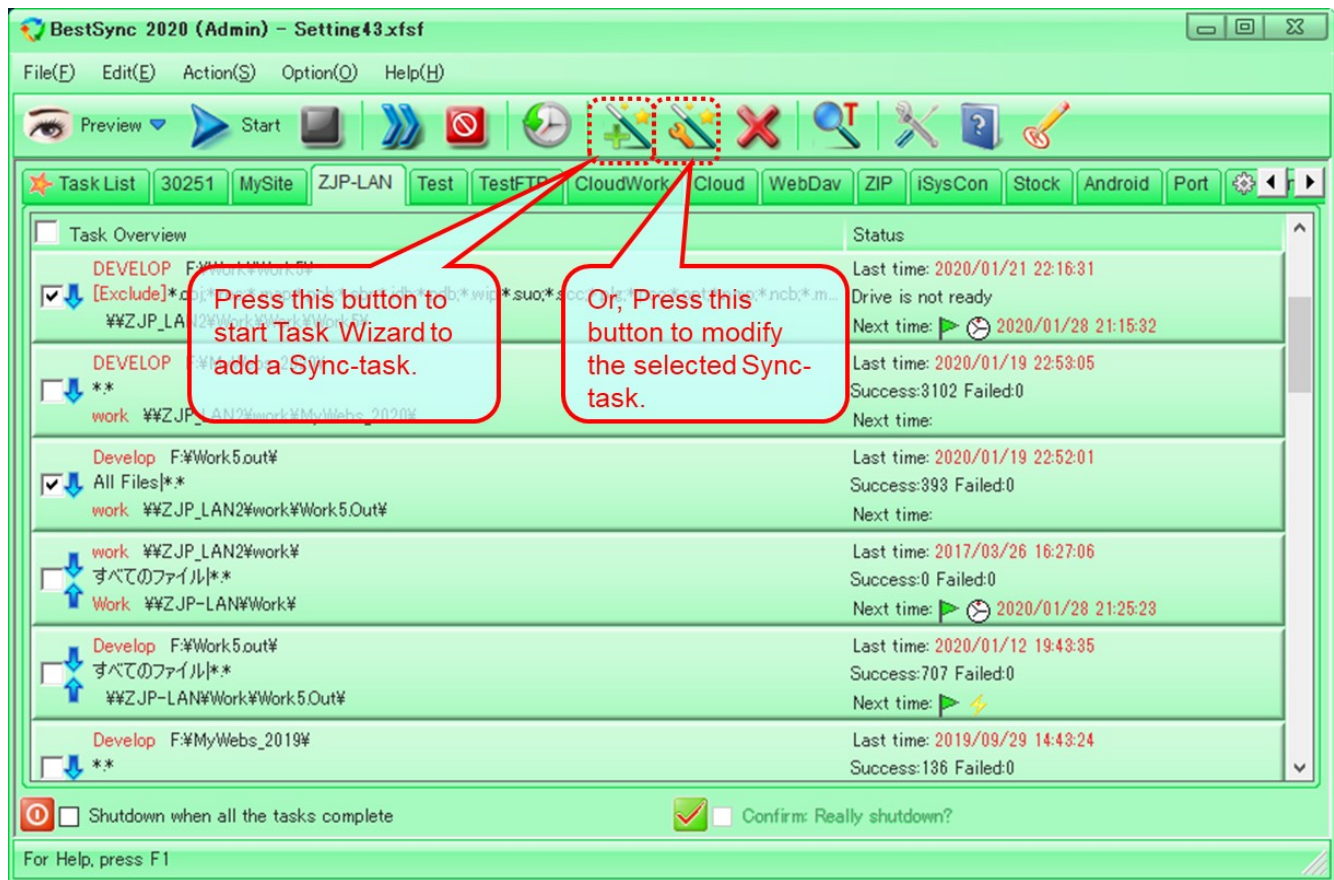## How to synchronize with a network shared folder as Windows Service

This tutorial demonstrates how to setup a task to synchronize with a network shared folder (or NAS folder), and run the task as a Windows Service without user logon.
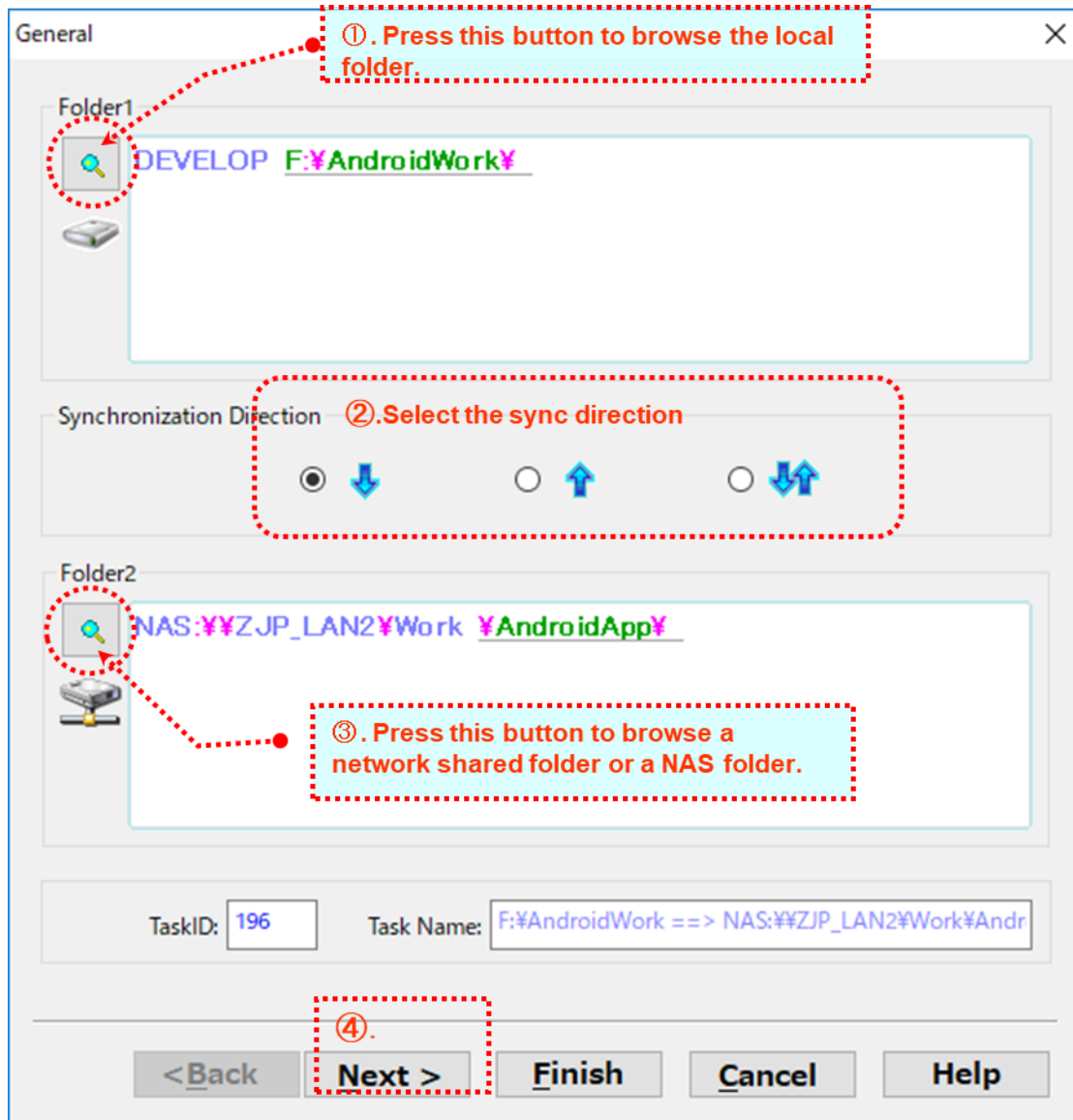
1. On the main windows, press the "Add task" button ( ) to add a task.

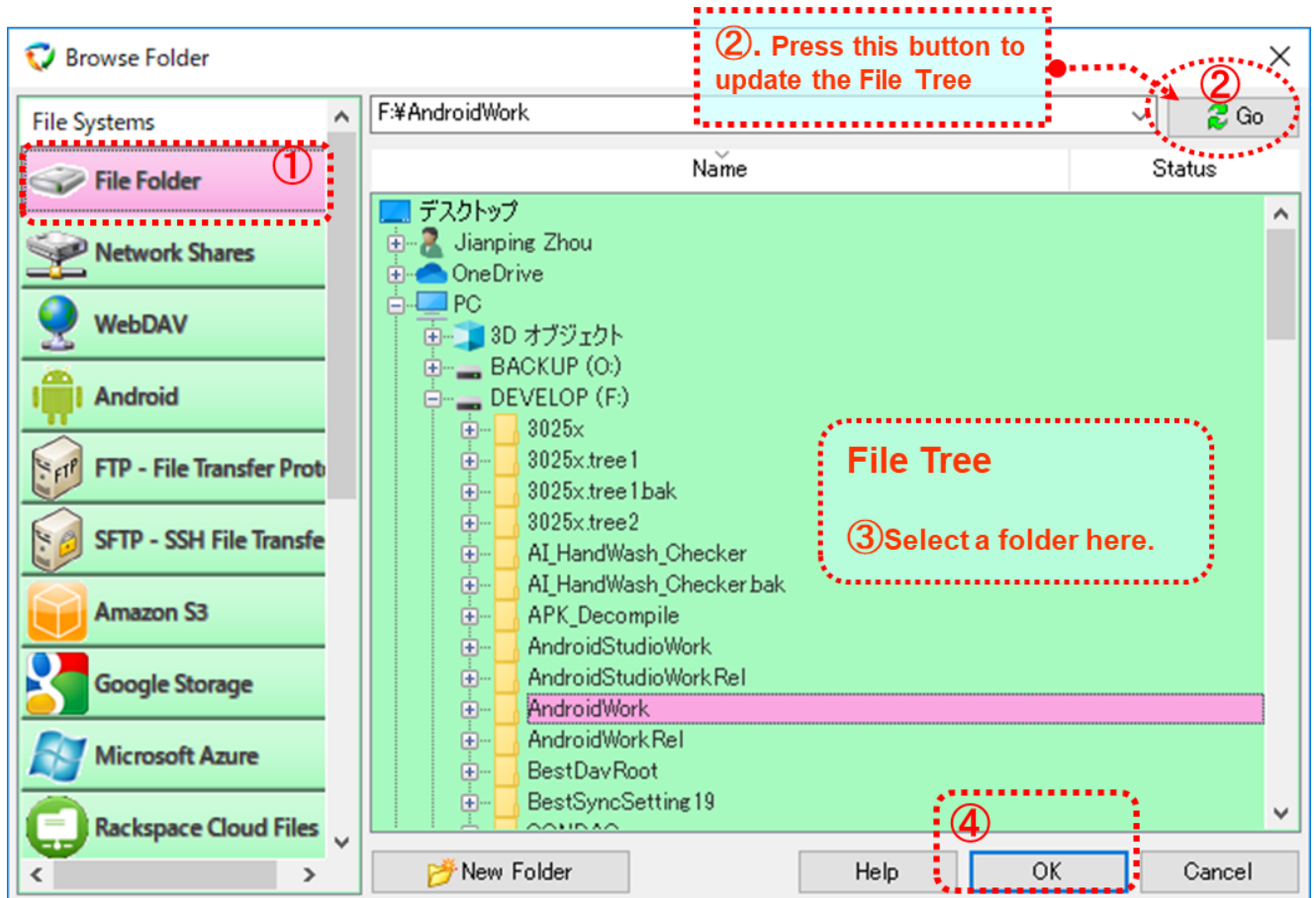   After you add a task, you can modify it later by press the "Setup task" button ( ).

The task wizard starts up.

2. On the "General" wizard page, browse the local folder (Step3), set the sync direction and browse the network shared folder (Step4) like the following screenshot.
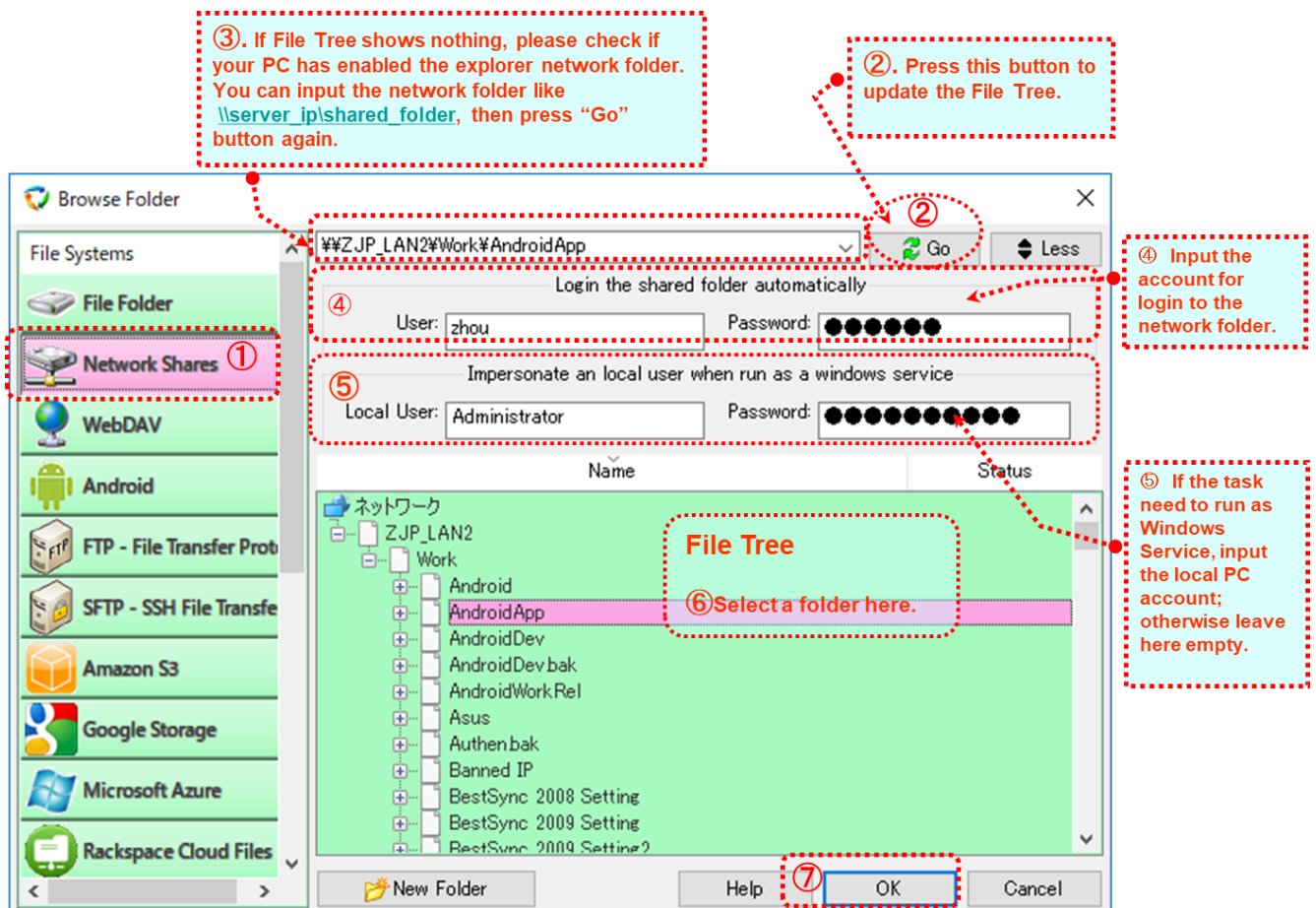
3. Press "Folder1" button to browse a local folder.

① Select "File Folder" in the File System list of "Browse Folder" dialog box.
② Press "Go" button to update the File Tree.
③ Select the folder in the File Tree for synchronization.
④ Press "OK" to close the dialog box.

4. Press "Folder2" button to browse the network shared folder.

③. **If File Tree shows nothing, please check if your PC has enabled the explorer network folder. You can input the network folder like \\server_ip\shared_folder, then press "Go" button again.**

②. **Press this button to update the File Tree.**

④ **Input the account for login to the network folder.**

⑤ **If the task need to run as Windows Service, input the local PC account; otherwise leave here empty.**

File Tree

⑥**Select a folder here.**

① Select "Network Shares" in the File System list of "Browse Folder" dialog box.

② Press "Go" button to update the File Tree.

③ If File Tree shows nothing, please check if your PC has enabled the network discovery.

(You can search "Windows 10 enable network discovery" for how to enable this function in Windows 10)

Or you can input the network folder like

¥¥server_ip¥shared_folder, then press "Go" button again.

④ In login "Login the shared folder automatically", input the account for login the network shared folder (or NAS drive).

⑤ If this sync-task need to be ran as Windows Service (you can set a schedule later), you must set the local account (the account you login the PC) in "Impersonate a local user when
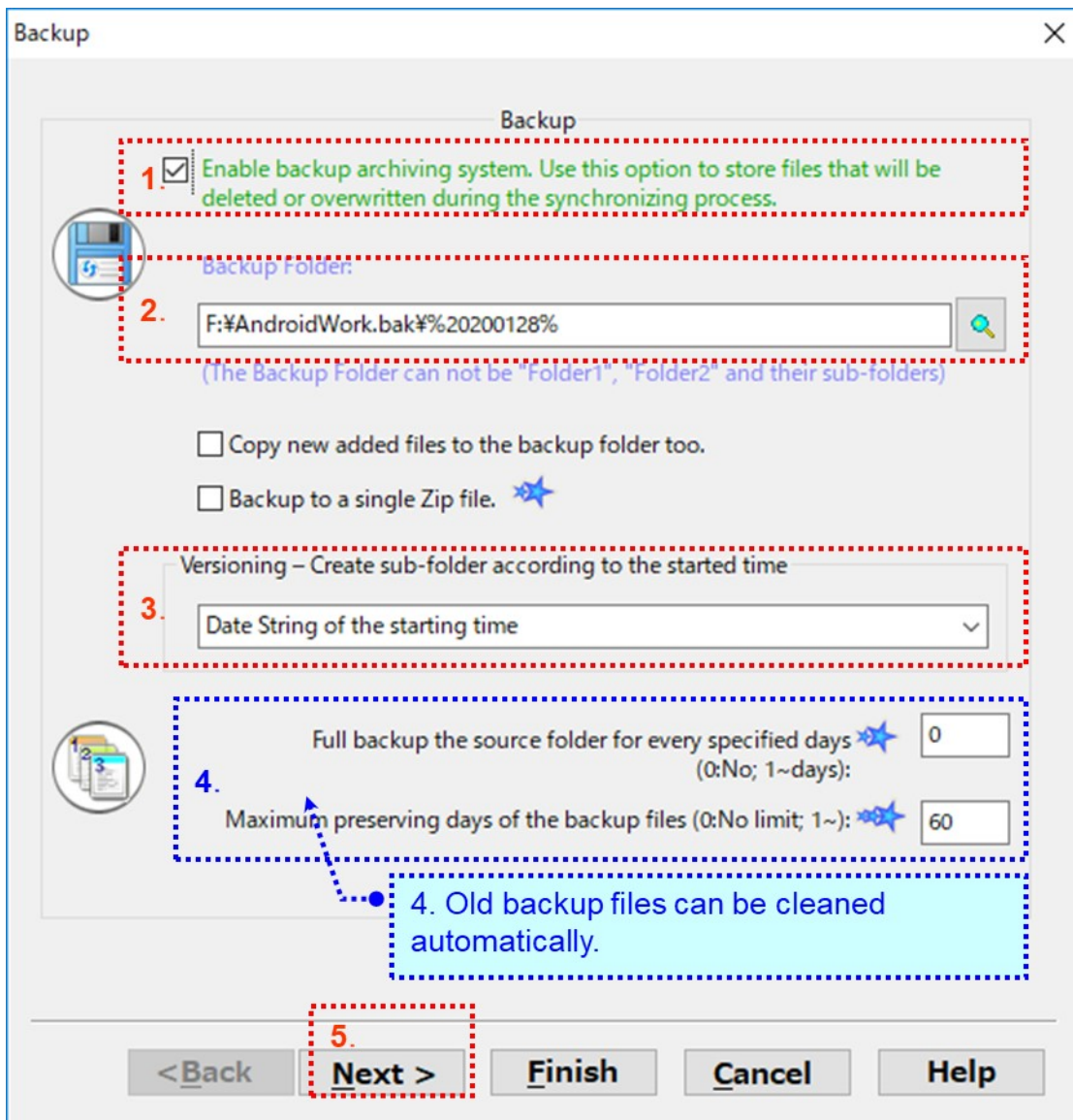
run as Windows Service" group. If you do not set this account, "**Drive not ready**" error will happen when this task is started in BestSync Service.

⑥ Select the folder in the File Tree for synchronization.
⑦ Press "OK" to close the dialog box.

5. Backup all the changed files to a backup folder if you need.

During synchronization, the updated files are copied to the target folder, and the deleted files are also deleted from the target folder (according to the deletion options in the "delete" wizard page that will be setup later).

You can backup these CHANGED files (overwritten files and deleted files) to the backup folder, like the following graph.
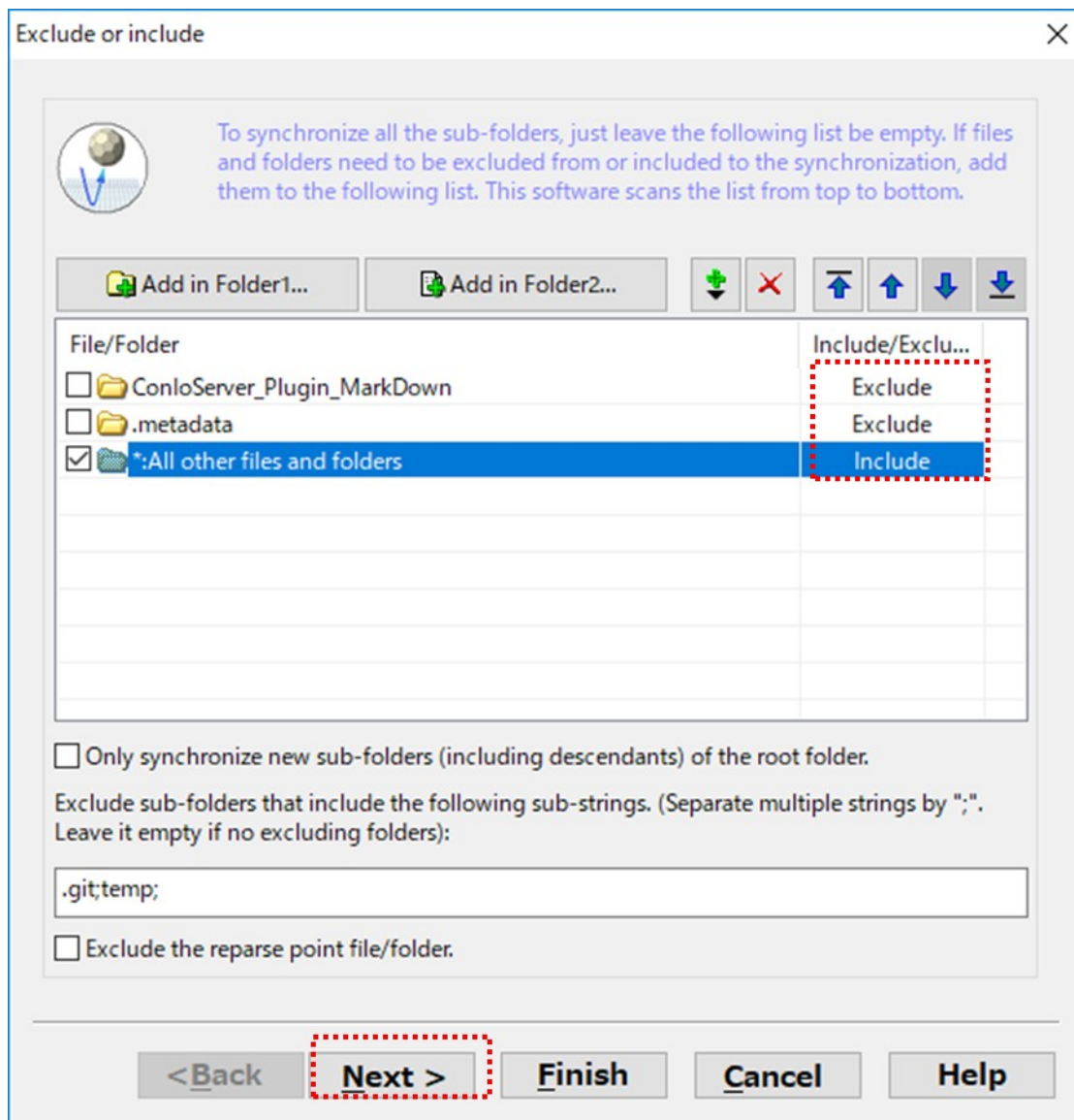
And you can save the versions of the CHANGED FILES into sub-folders that is created automatically by the "Versioning—Create sub-folder by the synchronizing time".
If you want to clean the old versions of the backup file automatically, type a day number for preserving the old files. The backup files that are older than the designated days will be cleaned automatically. If you do not want to clean the old files, type 0.
Press the "Next" button to go to the next page.

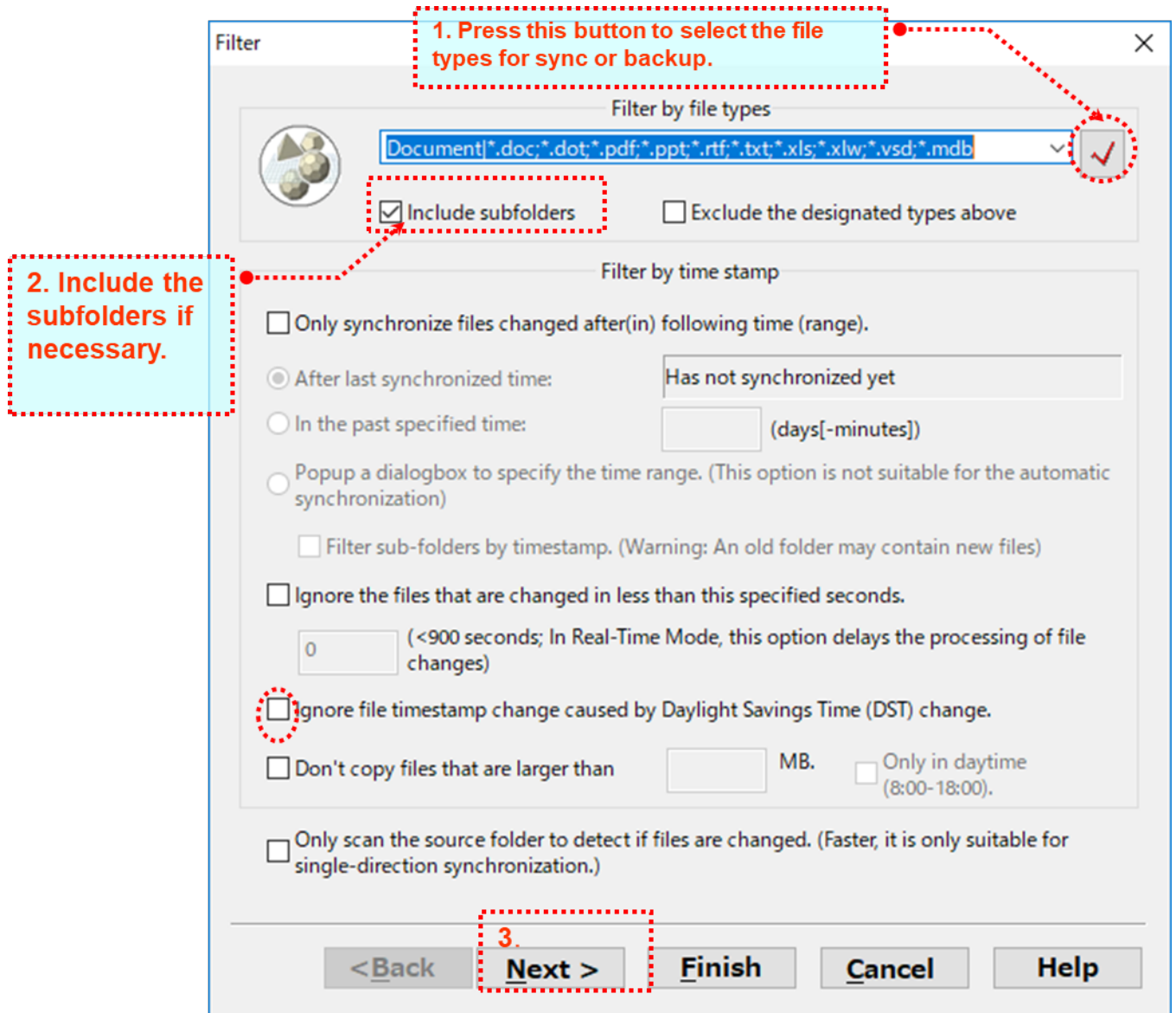6. Exclude or include some folders or files into the synchronization task.

   If no folders or files are needed to be excluded from the synchronization, just click "Next" button.

Hint: You can exclude sub-folders later in the Preview Window of the task.

7. Filter files by file types.

In the "Filter" setting tab, select file types that are needed to be synchronized by [✓] button. Check "Include subfolders" to backup file in all the sub-folders.
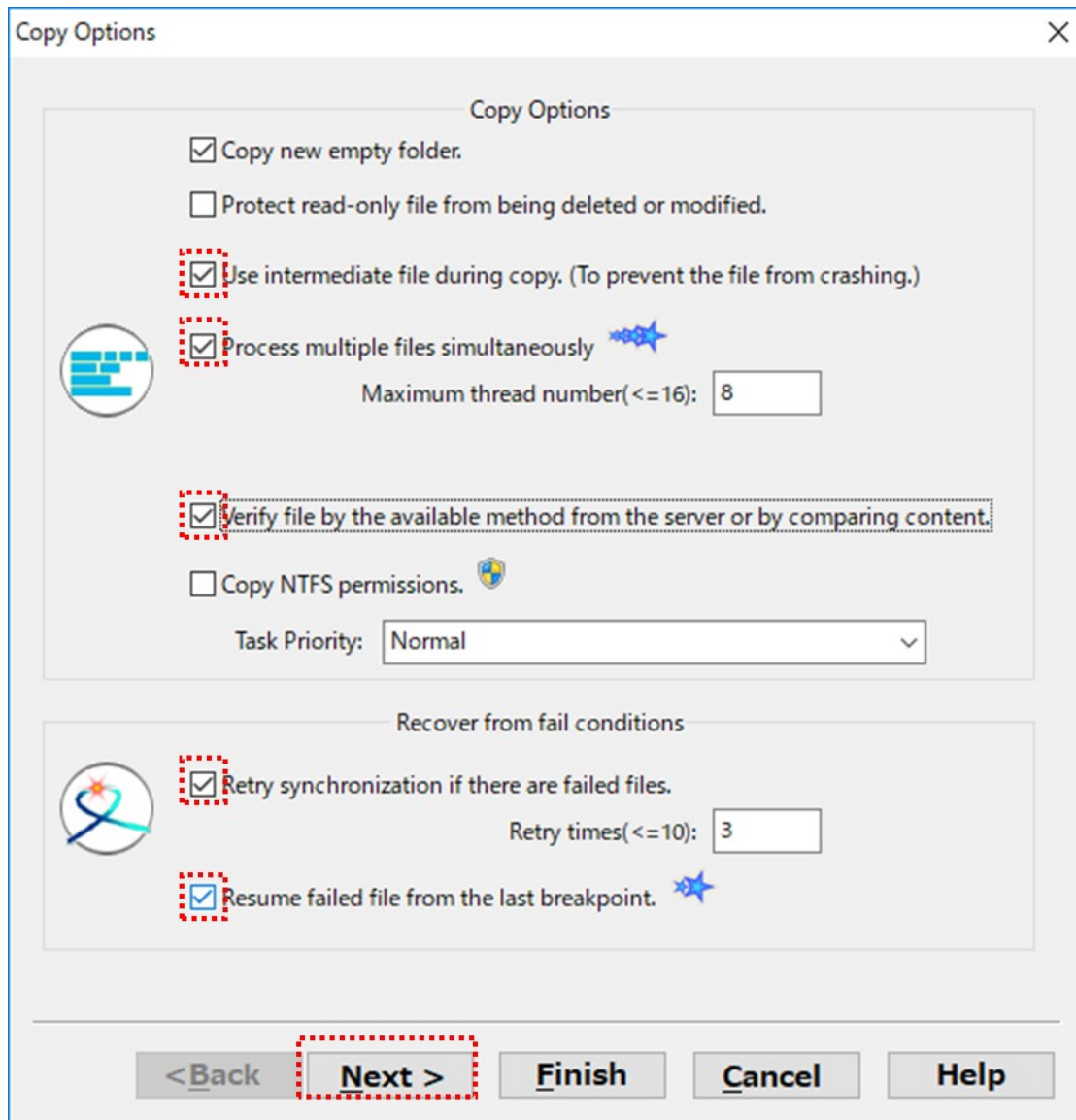

If your country uses Daylight Savings Time, and one of the two folders is FAT or FAT32 file system, please select the "Ignore file date & time changes that are because of Daylight Savings Time (DST) changes" option, otherwise, when the DST changes, all the files may be copied again.

Press the "Next" button to go to the next page.

8. Select the necessary copy options.

The following screenshot shows the recommended copy options.

"Use intermediate file during copy. (To prevent the file from being crashed.)" option:
If this option is checked, BestSync will use an intermediate file as the target file during copying process. When the file is copied successfully, the intermediate file is renamed to the target file. This action avoids an incomplete file in the target folder, and the target file is never cashed even if it fails to copy the file due to any error (such as network error).

"Process multiple files simultaneously." Option:
This option will improve the performance dramatically when synchronize with network folder.

"Retry synchronization if there are failed files." Option:

If this option is checked, BestSync will retry the synchronization if there are failed items.
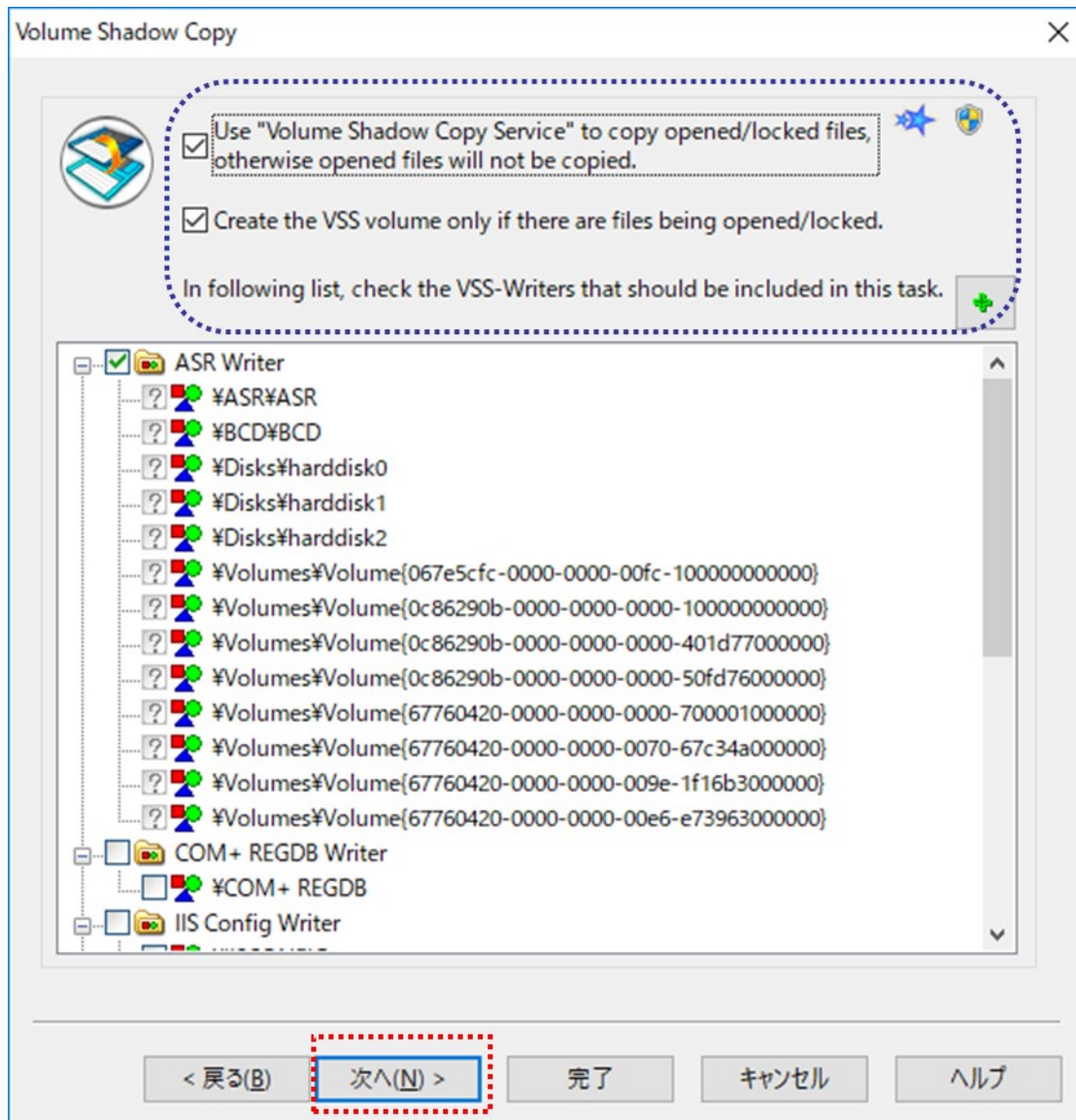
"Verify file after copy by available method from the server or MD5" option:

If this option is checked, when sync with FTP server, BestSync will try to use XCRC or XMD5 command to verify the file after download/upload the file; when synchronize with Amazon S3 or Google Storage, BestSync uses MD5 to verify the file.

"Resume failed file from the breakpoint." Option:

If this option is checked, BestSync will resume the file copy operation from the last breakpoint if error happens during synchronization.   This option is very useful to copy a large file to/from FTP server or network drive.
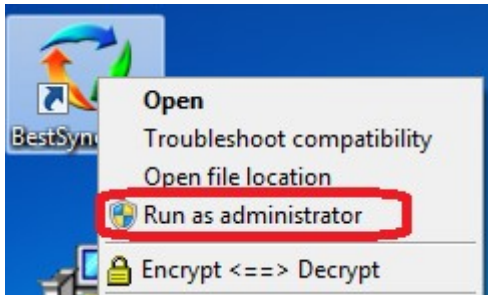
9. The "Volume Shadow Copy" options are optional.

If the task needs to copy the opened/locked files, "**Use "Volume Shadow Copy Service" to copy opened files......**" option must be checked.

If this option is checked, the opened files such as windows registry file, data base file, Outlook .PST files can also be copied. Some files such as the SQL database file, and Outlook PST file are always locked, if you do not use this option, copying these files will fail.

NOTE: For using this option, BestSync must be started by Administrator. You can start BestSync as Administrator by right click the "Run as administrator" context menu of BestSync icon on the desktop.

Press the "Next" button to go to the next page.

10. The "Encryption" options are optional.

   If you want to compress and encrypt the files while synchronize the files, select the options like following graph.
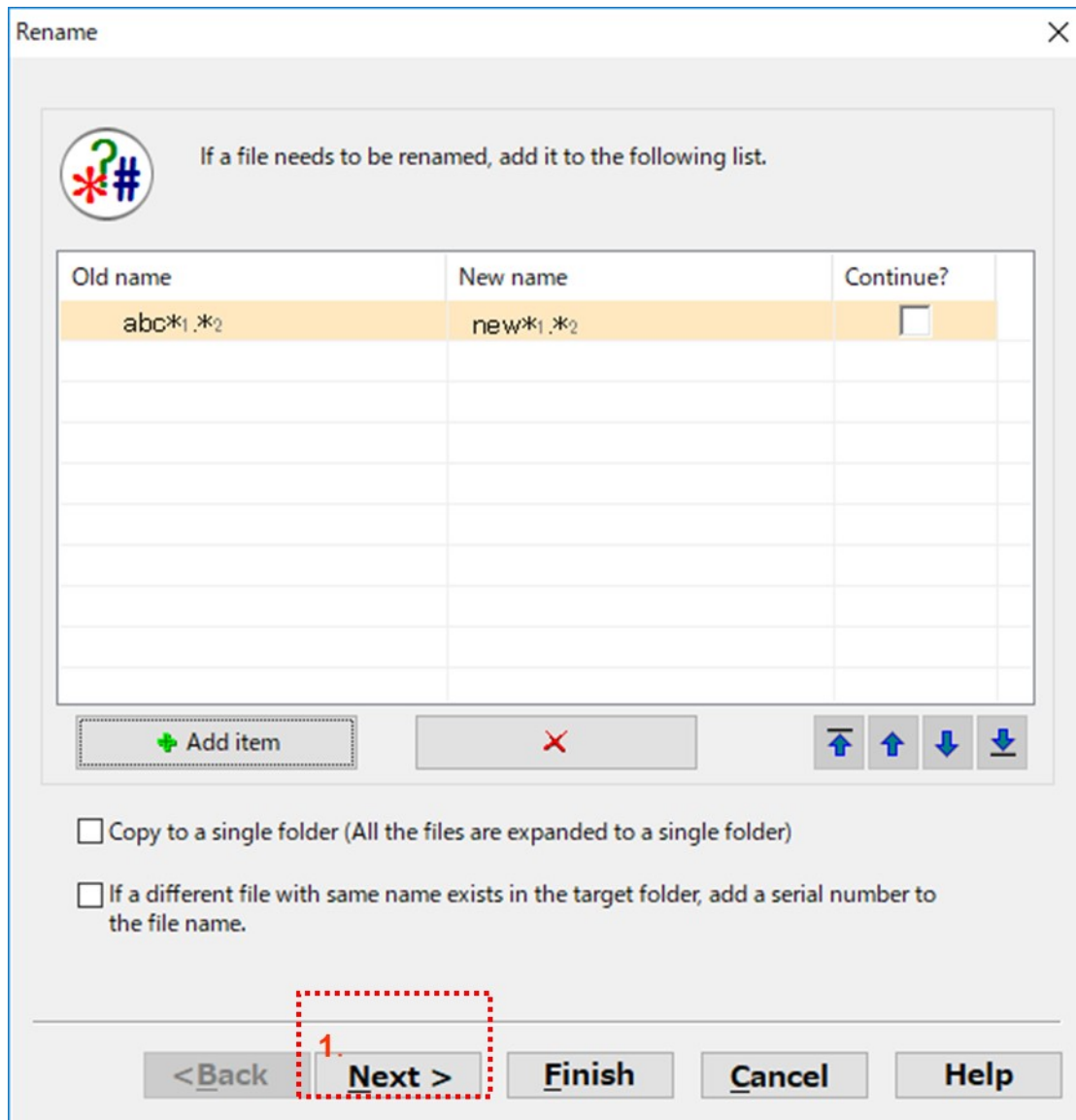

When the encryption option is selected, BestSync compress the file first then used AES 256bit algorithm to encrypt the file.

   Press the "Next" button to go to the next page.

11. The "Rename" options are optional.

If need to rename the files when synchronize the files, add the rules to rename the files.
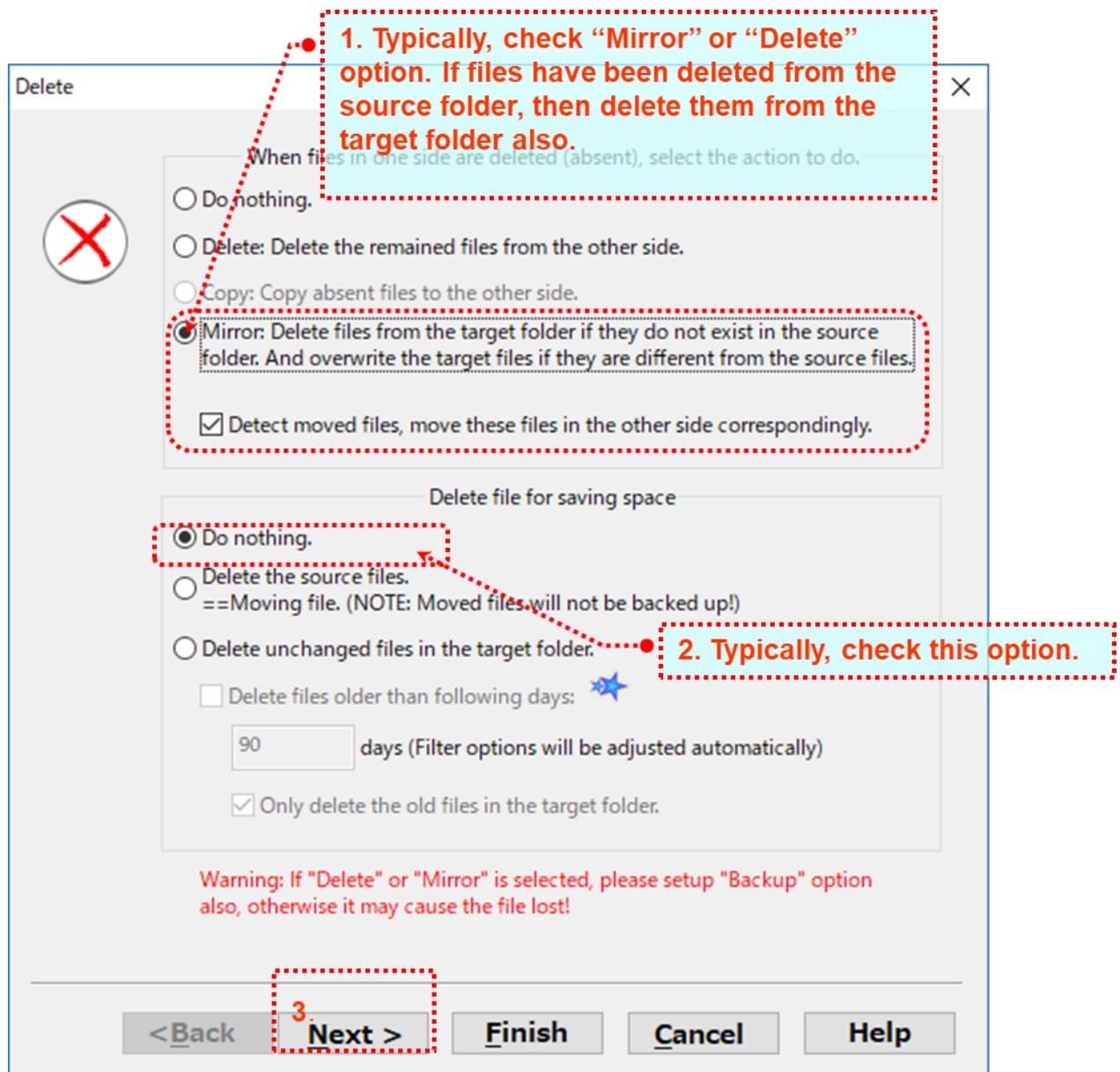

If not need to rename the files, just click the "Next" button.

Press the "Next" button to go to the next page.

12. Select the "Delete" options as you prefer.

The typical option is "Delete: Delete the remained file in the other side".

(1) "Do nothing". If you want to use a backup profile, than deleted files from the source will still be preserved in the Target Folder.
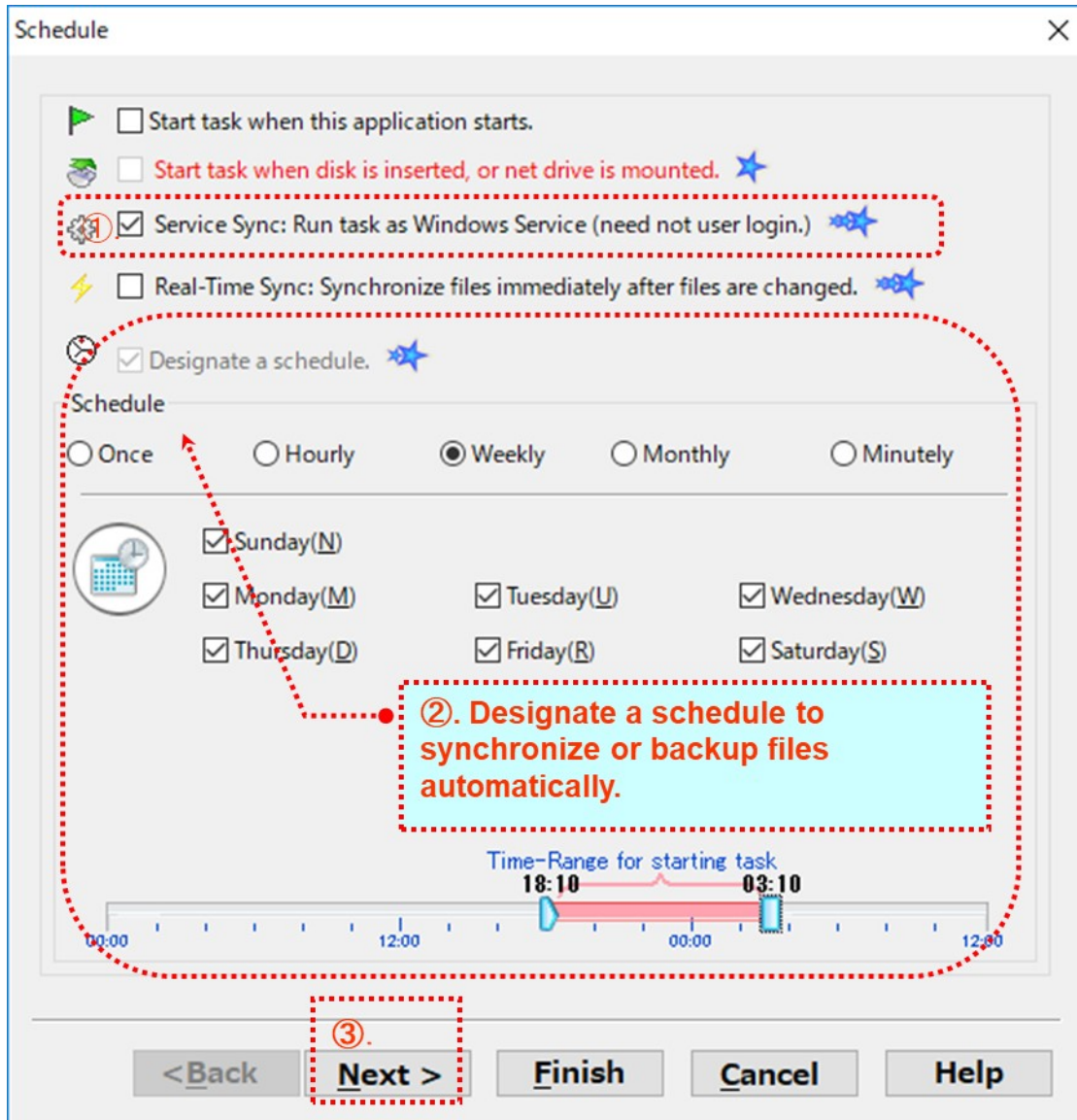
(2) Or, "Delete: Delete remained file in the other side". If the files are deleted from the source, then it will also be deleted from the target folder.

(3) Or, "Mirror: Delete file in ….". To make the contents of both folders exactly the same. All the files that do not exist in the source folder will be deleted from the target folder. If the files in the source folder are old, the old files will overwrite the new files in the target folder.

(4) Leave "Do nothing" selected, in "Delete file for save space".

Press the "Next" button to go to the next page.

13. Designate a schedule to start the task automatically.

Check "Service Sync: Run task as Windows Service (need not user login)" option, this task will be ran by BestSync Service. Even no user login the PC, or the user logs off, this task is still ran by the designated schedule.

Select "Designate a schedule", and select a time mode to start the schedule.

If you want the changed files be backed up or synchronized immediately after the files are changed, select the "Real-Time Sync: Synchronize files immediately after they are changed". If this option is selected, the task will be started immediately after BestSync is started; and

whenever files or folders are changed, the task detects the changes immediately and update the changes to another side.

NOTE: Real-time may not be support by a NAS drive, but network shared folder of Windows supports real-time sync. If real-time sync is not supported, BestSync will synchronize the folder in about 3 minutes.

Press the "Next" button to go to the next page.

14. Press the "Next" button, to use the default log setting.

Check the "Record the log data for the log view window" option. This option will record the log data of the synchronization. You can view the log data by the Log View, and if you have setup the "Backup" option in "step 4", you can also restore the backup data conveniently in the Log View.

If you want to send the log data by the email to monitor the synchronization remotely, check the "Send log data by e-mail" option. After this option is checked, the "General Option" "Email" dialog box will popup, you can setup the SMTP account in the dialog box.

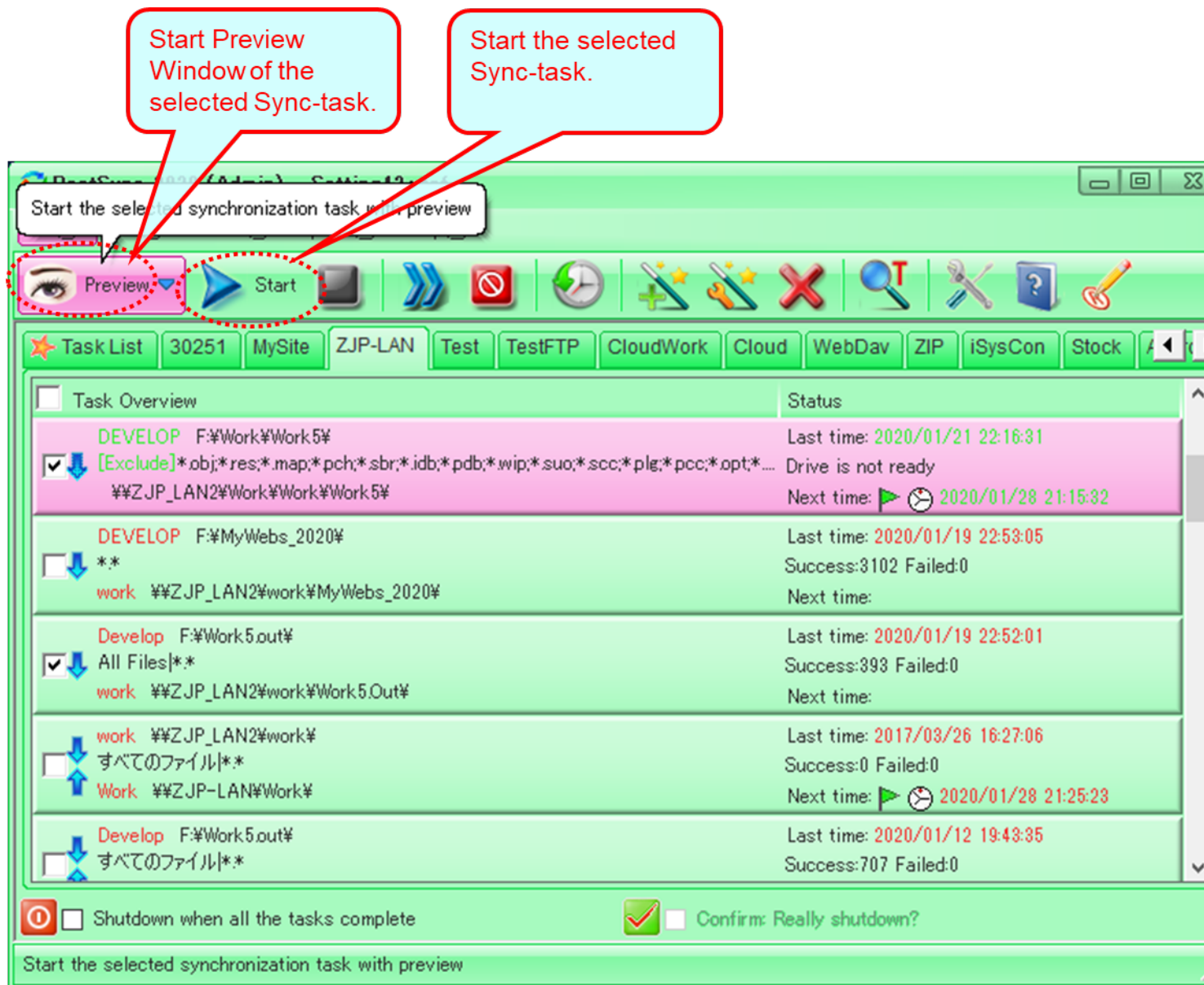Press the "Next" button to go to the next page.

15. The "Application" options are optional.

If you want a program, batch file or Power shell script be started just before the synchronization is started, set the program and argument like step (1) in the above image. You can also designate the Task be ran after this task like step (2) in the above image. Press "Finish" to end the Wizard Page.
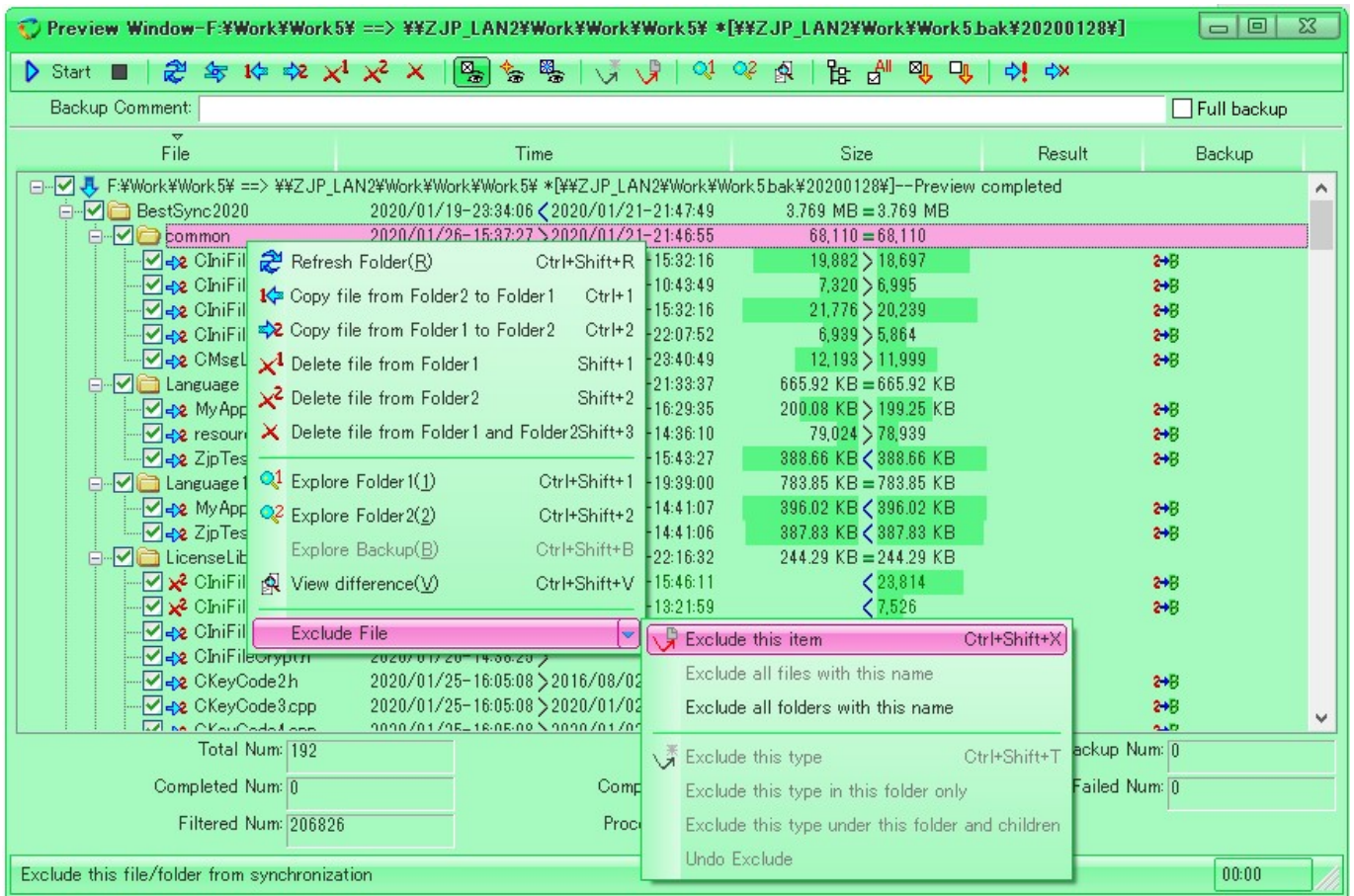
16. Press the "Preview" button to start the preview window, to view the hit files and modify the sync actions of sub-folders of individual files if necessary.
    Or just press the "Start" button to synchronize the files immediately.

BestSync Main Window:

You can start the selected task manually, or start the preview of the task by the toolbar buttons.

BestSync Preview Window:

In the preview Windows, you can change the synchronizing actions of files.

Also, you can exclude files, folders or file types from the synchronization.

(End)