



1.1 Continuous Data Protection (CDP)

The Servosity PRO/STD Continuous Data Protection (CDP) feature enables files to be backed up automatically at the time when there are changes made to the files on the local hard disks. The benefits of using CDP are:

1. Continuous Incremental Backups:

- a. All intra-day interim changes are backed up automatically. Even if the computer breaks down completely before the users have had the chance to backup their data. This is especially helpful when the data is normally scheduled to be backed up at the end of the day using the Logout Backup Reminder. This function ensures that all changes within the day have been backed up safely by CDP and no data is lost.

2. Continuous Data Scanning:

- a. Occasionally users do not save their data in the folders designated as backup source path folders. This results in data not being backed up even when a backup runs. Since CDP continuously tracks all changes made to files on the local hard disk, all changes made by the users are automatically backed up no matter if the files are located in the backup source paths or not. This makes defining a backup set a much easier task for both administrators and users.

Although CDP is a very helpful feature, it does have some drawbacks:

1. High Demand for Resources:

- a. A memory resident program, which continuously tracks file changes to the file system and backs up files automatically in the background consumes both a computer's CPU and memory resources. It can potentially slow down a computer considerably.
 - i. An alternative for application servers like Microsoft Exchange Server or Microsoft SQL Server, that do not require CDP features, is they can use the Transaction Log Backup Interval set to a frequency of every 1 minute to mimic a continuous backup strategy.

ii. This is set by turning off CDP. This can be done by following these simple steps:

1. Open your computer's **[Start]** menu
2. Click on the **[Control Panel]** and open the menu
3. Now open the **[Administrative Tools]** menu
4. Click on **[Services]**
5. Click on **[Continuous Data Protection (Servosity PRO/STD)]**
6. Click on **[General]**
7. Click on **[Startup type]** and set to "manual".

The following table goes into more detail about all of the CDP parameters available within a backup set.

Parameter	Description
Enable Continuous Data Protection (local disk only)	Defines whether CDP is enabled in this backup set. Please note that CDP will only backup files on local hard disks, not files on floppy drives, removable drives and network mapped drives.
Time Mark Interval	Defines the interval of point-in-time views generated by CDP. For example, if this setting is set to "60 minutes", the point-in-time views selectable under Servosity PRO/STD restore wizard and File Explorer will be "00:00", "01:00", "02:00" etc, for each day.
Minimum Update Interval	Defines the minimum interval that repeatedly updated files are backed up. For example, if a file is updated every minute and the [Minimum Update Interval] is set to "10 minutes", CDP backs up this file every 10 minutes instead of every minute. If you want all changes to be backed up instead, please change this setting to "Always". However, since Servosity PRO/STD keeps only 1 snapshot of file within a single point-in-time view ("Time Mark Interval"), only the last backup file within each point-in-time view is restorable from Servosity PRO/STD; all other interim backup files are overwritten automatically without notice. ***Please note that this applies to all full file backup only, but not for files that are backed up incrementally by in-file delta. To maintain a valid in-file delta chain for incremental delta files, Servosity PRO/STD will not delete incremental delta files automatically. If you are interested in restoring any of these backed up snapshots, you can use the [Show all files] view to display all of the interim incremental backup files.
Type	[Backup file(s) selected by backup sources and filters] – When this option is selected, CDP will only back up all changed files selected by backup set's sources and filters settings [Backup all files] – When this option is selected, CDP will only back up all changed files. [Custom] – When this option is selected, CDP will only back up changed files selected by CDP backup sources and CDP backup filters settings.
Do not backup files defined as system files	If this option is enabled, CDP will exclude the following files from its backup: <ol style="list-style-type: none"> 1. '[WINDOWS_DIR]' (e.g. C:\WINDOWS*) 2. '[PROGRAM_DIR]' (e.g. C:\Program Files*)

	<ol style="list-style-type: none"> 3. '[RECYCLE_BIN_DIR]' (e.g. C:\RECYCLER, D:\\$Recycle.Bin) 4. '[ALL_LOCAL_DRIVE]:\Pagefile.sys' (e.g. C:\Pagefile.sys, D:\Pagefile.sys) 5. '[ALL_LOCAL_DRIVE]:\hiberfil.sys' (e.g. C:\hiberfil.sys, D:\hiberfil.sys) 6. '[ALL_LOCAL_DRIVE]:****.tmp' (e.g. C:\xxx\abc.tmp, D:\yyy\abc.tmp) 7. '[ALL_LOCAL_DRIVE]:\System Volume Information' (e.g. C:\System Volume Information, D:\System Volume Information) 8. '[APP_DATA]\Microsoft' 9. '[APP_DATA]\Kaspersky Lab' 10. '[APP_DATA]\Symantec' 11. '[APP_DATA]\Avg7' 12. '[APP_DATA]\Avg8' 13. '[APP_DATA]\McAfee' 14. '[APP_DATA]\McAfee.com' 15. '[APP_DATA]\Sophos' 16. '*\ntuser.dat' 17. '*\Application Data\Mozilla**' 18. '*\Local Settings\Application Data\Microsoft**' 19. '*\Application Data\Macromedia**' 20. '~\$*(.doc dot ppt xls DOC DOT PPT XLS)' 21. '*\Local Settings\Temp\Temporary Internet Files\History**' 22. '*\LOCALS~1\Temp\Tempor~1\History**' <p>where [APP_DATA] = "C:\Documents and Settings\All Users\Application Data\" (XP) or "C:\ProgramData" (Vista)</p> <p>If you are interested in contributing to the maintenance of this by adding your suggestions, please contact us.</p>
Backup Source	This option is only available when the [Custom] CDP type is selected. When this option is used, CDP will only backup the files under the paths defined and all other files are ignored.
Backup Filter	This defines whether any file will be backed up by CDP. When the CDP type is [Backup all files] , it is only possible to exclude files from the CDP backup. The CDP backup filter is similar to the Backup Set Filter; please refer to Backup Filter section for more information.