

Data Recovery

**Process
& Implementation**

Introduction:

Data recovery is the process of retrieving and securing deleted information from a storage media. Recovery may be required due to either physical damage to the storage device or logical damage to the file system that prevents it from being mounted by the host operating system. With the proliferation of computers and computer networks in business, the demand for incidental services like Data recovery has been ever increasing.

Data Loss:

The impact of data loss can be crippling to any organization. Imagine a scenario where you lose customer data. Now, you might not be able to ship merchandise against the placed orders. This will increase the risk of losing business and would add overheads in the form of backtracking the order details. Day-to-day operations can thus be severely crippled. It is clear that the risk of data loss is something that cannot be ignored.

How Data Gets Lost?

This is a very common question having very common answers. The data recorded on computer media can get lost in different ways, like:

- System Crashes caused by software bugs or hardware problems.
- Power Supply Problems that can corrupt the file system, making the data unreadable.
- Trojans, Viruses and Hackers can damage or even completely wipe out data recorded on hard disks and other storage media.
- Human Errors such as accidental erasure of data or careless performance of administrative routines.
- Misplacing Removable Media such as CD/DVD and Flash Disks
- Natural Disasters like fires, floods or earthquakes.

What to do to prevent data loss?

As discussed above, data loss can be due to various reasons, with some of them being uncontrollable. However all is not lost as you can get hard drive data recovery tools which can enable you to retrieve any lost files. Data loss can also be prevented either by setting up some in-house processes or by hiring some professional agencies like [Agape Inc.](#) But if the systematic procedures are not in place, in-house data recovery attempts can aggravate the problem. Data that might be recoverable by expert agencies might become completely unrecoverable if amateurish attempts are made.

Recovering the information from a hard drive can be a very time consuming process, all depending on just how bad the drive has been damaged. If the hard drive is damaged physical or the sectors have been damaged, some of the information that was stored on it may be lost forever. That's when professional agencies come into picture as they not only have the experience to recover the most difficult recovery situations; they also use state

of the art equipments, Class 100" / ISO-5 cleanroom facilities to protect the media while repairing.

Professional agencies would capture the raw image left on the damaged disk onto a new media. They might use different approaches such as:

- Using data recovery software to make the data readable again
- Replacing any damaged components of the storage media
- Rebuilding the data using the logic that was used to record it
- Using remote recovery data facility

For more information on Data Recovery, visit us at www.agapeinc.in or www.agapeforensic.com.