



# LTO NewsBytes



## Tape and Cloud: How to Make Sure Your Data Soars Above

Choosing the right storage method for your needs can prove to be a challenge - that's why it's important to understand your options before deciding what solution is right for you. For those seeking a winning combination of long-term archival storage as well as quick access to short-term data storage, a tape and cloud partnership could be the perfect pairing.

With tape, users are able to store large volumes of data at a low operating cost per byte, making it ideal for long term archival storage of large files that don't need to be accessed frequently. Tape storage also offers the security of offline and off-the-net storage that protects company data assets from the threats that can attack online or on-the-net data (e.g. hacker, virus, disgruntled employee, system error) including both archive and backup data sets. And with last year's introduction of LTO generation 5, up to 3TB can be stored per cartridge, packing huge savings in a small space. In addition, a new software specification standard called Linear Tape File System (LTFS) allows access to data on LTO tapes in a manner similar to that of a removable hard disk drive. This means that LTO-5 tape offers directory tree access to tape files, and drag and drop capability, providing a simple and convenient way to store, access, and protect long term data, movies and audio files.

For storing and sharing documents such as Word files and Excel spreadsheets that are accessed frequently or by more than one person or from a variety of locations, the cloud can be a good choice. Companies can simply map the cloud storage to a location on their server which allows users of the server to access the data. Additionally, the data is automatically backed up and may not require user interaction. While cloud provides some advantages with automatic backup, there are also limitations to keep in mind. For example the cloud is limited by the bandwidth of the internet connection. So if you do have a lot of data, or large files, such as a data base or media rich file, it could take a long time to back up or retrieve completely.

Tape and cloud both have their specific attributes individually and together this kind of integrated solution may be the right blend for you. Tape to securely store and protect company data assets and large files long term, locally, offline and in the cloud for frequently accessed small files that may need to be accessed from many locations. For more details on the LTO Ultrium format and the LTFS specification, visit [www.Ultrium.com](http://www.Ultrium.com).

You can balance the evolving roles of disk and tape technologies as part of a comprehensive, tiered storage architecture to address complex data protection needs. For more detail, a [white paper](#) discussing these roles and best practices is available at the LTO Ultrium Web site.

The new LTO Ultrium generation 5 tapes can store 3TB of data (2:1 compressed) at up to 280MB/second (2:1 compressed) for low cost - high performance offline data protection. Learn more at: [trustlto.com](http://trustlto.com)

For more information, visit the [LTO Program website](#), read more about [LTFS](#) and the [LTFS specifications](#), see a [video demonstration](#) of LTFS in action, review the [LTFS FAQs](#).

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**GV EXPO**  
Nov 30th - Dec 1st (Washington DC)

Glowing Reviews

[Ray Lucchesi, Silverton Consulting and RayOn-Storage Blog](#)  
Included LTO in the list of the top 10 storage technologies over the last decade. "LTO has become the new dominant tape format for the data center."

[SearchStorageChannel.com](#)  
LTO listed as one of the top five storage channel tips of 2010. "The latest generation of Linear Tape-Open (LTO) technology, LTO-5, is the latest advancement in the LTO consortium's line of tape drive technology. LTO-5 has an increased capacity and includes two data partitions on the tape, allowing files to be written directly to tape and read by another computer, independent of operating system or application."

[SearchDataBackup.com](#)  
LTO included among top 10 best data backup technology tips of 2010. "Data backup experts have been predicting tape's demise for several years. But the release of LTO-5 tape may have breathed new life into the technology."

[RollingStone Magazine](#)  
In an article on the record industry's storage crisis, a storage exec from EMI commented that they immediately convert files of new albums onto systems like Linear Tape-Open. "The point is to make sure it's (the music) safe."

[Click here to learn more about LTO-5 technology.](#)

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