



# LTO NewsBytes



## LTO Celebrates 12 Years of Safe, Secure and Cost-Effective Storage

A little more than a decade ago, the storage world changed for the better with the formation of the LTO Program. Today it represents one of the storage technology's most successful endeavors as it reaches new milestones of more than 4 million LTO drives and nearly 200 million LTO tape cartridges shipped since the Program's inception. This translates into more than 80,000 PB (uncompressed) of storage capacity on LTO Ultrium tape worldwide.

That's a lot of data. Here are a few things to consider:

- 1 Terabyte is all the X-ray films in a large technological hospital
- 10 Terabytes represents the printed collection of the U. S. Library of Congress
- 2 Petabytes represents the content of all U.S. academic research libraries
- 200 Petabytes is the equivalent to all printed material
- 5,000 Petabytes is all of the words ever spoken by human beings

It's not only the continuous increases in capacity and data transfer rates driving this success. The LTO Program designed an open platform for compatibility among multiple providers, helping to enable options for storage managers to keep costs low and systems simple. The technology has delivered new, innovative features such as tape hardware encryption to help secure data, WORM (Write Once Read Many) capability to address compliance needs and media partitioning to open the door for new use cases and applications such as the exciting Linear Tape File System (LTFS) to help make tape data access and management easier. See the BAMM.TV article below highlighting their use of LTFS for video archiving.

The need for compatible, cost-effective tape backup and archive solutions remains an important part of the IT infrastructure - and this is more important than ever as the amount of data stored on tape continues to increase dramatically. The LTO Ultrium Generation 6 format is designed to continue to provide core functionality to enable broader use of the technology in a wide range of solutions. Earlier this month the LTO Program [announced](#) plans to release the specifications for LTO Ultrium generation 6 that are expected to call for more than double the compressed capacity of the previous generation and further increase transfer rates helping to protect more data assets while providing open standards including backwards read and write compatibility and cross vendor interchange.

## BAMM.TV Writes Data Failures Out of the Script

With the introduction of partitioning in LTO-5 technology - and availability of LTFS software - a whole new world of possibilities opened up for production and post-production companies looking for a safe, and reliable way to save on storage costs and get more assurance that their files will be there when needed. In our [latest case study](#), BAMM.TV's Jamie Morganstern talks about how they addressed cost, reliability and scalability needs with a transition to LTO-5 tape and LTFS. Check out the BAMM.TV [video](#) story!

## Need an In-Depth Introduction to LTFS?

A new white paper on LTFS by Media Technology Market Partners called "LTFS Hits the Mark" is hot off the presses and available for review on the LTO program website. Additional details on this paper will be available in the next NewsBytes, but if you want to learn more about how LTFS is utilized in the media and entertainment industry this [white paper](#) is for you.

## The LTO Program is Hitting the Road This Fall!

The Fall season is shaping up to be a good one and the LTO Program will be providing more insight on the latest uses of LTO technology around the world. Stop by and visit if you're attending one of the following events:

<a href="#">IBC</a>	Sept. 7th - 11th
<a href="#">DV Expo</a>	Sept. 19th - 20th
<a href="#">Storage Decisions</a>	Sept. 24th - 25th
<a href="#">Inter BEE</a>	Nov. 14th - 16th

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