

**ULTRIUM 5**  
Data protection tape format

# LTO NewsBytes



## Paving the Road to the Future

As the sheer volume and requirements for data storage increase, a solid technology roadmap can be very helpful in making tomorrow's decisions today. The LTO Ultrium roadmap has been one of the foundations of the LTO program since its inception.

This month, the Linear Tape-Open (LTO) Program Technology Provider Companies -- HP, IBM and Quantum -- announced the extension of the product roadmap, providing details for two new generations. Generations 7 and 8 have been added to the LTO product roadmap, calling for native capacities of 6.4 TB and 12.8 TB, respectively.

Specifications include a larger compression history buffer which tests show can increase compression to 2.5 to 1. This can allow compressed cartridge capacities of 8 TB for generation 6, 16 TB for generation 7 and 32 TB for generation 8, helping users to store more data in less space and address cost control objectives.

Tape drive data transfer rates are anticipated to increase by 50 percent with each new generation, with plans for generation 6 to provide native transfer rates up to 210 MB per second, generation 7 up to 315 MB per second and generation 8 up to 472 MB per second.

Recently, the LTO Program introduced LTO Ultrium generation 5 specifications, which nearly doubled capacity to 1.5 terabytes native over generation 4, increased data transfer rates to 140 MB per second native. Also added was a new dual partitioning functionality and Linear Tape File System (LTFS), enabling capabilities that can help enhance file control and space management. With LTFS, one partition can hold the content index and the other can hold the content, allowing the tape to be self-describing. The tape can be utilized in a fashion like disk or other removable media, including directory tree structures.

The updated LTO Ultrium roadmap can help you plan for storage needs today and the future, [Click here to view the LTO Ultrium roadmap.](#)

## LTO Technology on the Road

[Storage Decisions Chicago](#)  
June 9-10  
Chicago, IL

## NAB Participants Rave About LTO-5 Technology!

Earlier this month the LTO Program sponsored a booth at the National Association of Broadcasters Show in Las Vegas and unveiled LTO-5 tape technology and the new Linear Tape File System to audio, video and film content professionals. The response was enthusiastic!

"I am shocked! This is exactly what we need!"

"You have made my dreams come true!"

"You can't see it, but I am dancing inside!"

"LTO-5 technology gives tape-less work-flow... with tape!"

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

## Tape Fallacies Exposed

There's been quite a bit of misinformation about tape over the past several years. David Hill of the Mesabi Group sheds light on the most common misperceptions about tape in a webinar entitled "Tape Fallacies Exposed: The Future of Tape is Still Bright!" Learn more about how tape and disk can be balanced in a strategic blend to address storage objectives. A copy of the accompanying white paper is also available.



**Use LTO-5 Technology with  
Tape Drive Encryption,  
Your Smart Bet for Data Protection!**

**For more details, check out white papers, articles and  
other useful information at [www.ultrium.com](http://www.ultrium.com)**