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**MORE THAN 5 MILLION LTO ULTRIUM FORMAT CARTRIDGES SHIP;  
MILESTONE DEMONSTRATES PREFERENCE FOR SUPER TAPE DRIVE LEADER**

*LTO Program Sees Ultrium Cartridge Shipments Reach Over 1 Million Per Quarter*

**SILICON VALLEY, CALIF. — (Dec. 3, 2002) —** Further validating ongoing enthusiasm for the LTO Ultrium format, HP, IBM Corporation and Seagate Removable Storage Solutions, the three technology provider companies (TPCs) for the LTO (Linear Tape-Open) Program, today announced that more than five million LTO Ultrium format tape data cartridges have shipped worldwide since September 2000, when products based on the format first became commercially available.

This milestone, achieved in just over 24 months following product availability, is a significant endorsement by the IT community for the LTO Ultrium format.

“In our view, this achievement is nothing short of a rallying cry by storage administrators for the LTO Ultrium format, and further evidence that the industry enthusiastically embraces the Ultrium format in the midrange tape storage market,” said Frank Elliott, Vice President, Worldwide Sales, IBM Tape Storage Solutions. “The LTO Program pioneered the creation of the super tape drive category, and seven out of ten IT managers chose the Ultrium format in 2001. This latest milestone tells us that end user interest in the Ultrium format continues to grow.”

Since September 2000, the Ultrium format Generation 1, with 200GB of compressed capacity per cartridge and 20-40MB/s compressed data transfer rates, has shipped approximately 1,000 Petabytes of storage capacity. The LTO Program is currently licensing the Ultrium format Generation 2 technology, which will offer end users up to 400GB storage capacity per cartridge, with performance of up to 80MB/s (both figures assume 2:1 compression).

The LTO Ultrium format is the only tape storage specification built using complimentary open standards technology, which provides end users with multiple manufacturer and feature choices, data interchangeability, competitive pricing, technological advancements, high speed and capacity data storage, scalability for growth, and reliability.

In today's business environment, data is the number one corporate asset and is essential to ongoing competitive success. Rising deployment of data-intensive rich media including video, Web content, images, audio and business applications require backup and archiving to protect data in the event of disasters, human error or computer viruses.

LTO has an extensive and prestigious licensee roster, which gives users access to multiple sources of tape drive products and tape cartridges, as well as common tape specifications for data interchange. This pro-competitive environment leads to faster-paced innovation and enhancements, creates a dynamically competitive market, and provides for data compatibility.

#### **How to License LTO Ultrium Technology**

The LTO Program offers several different license packages – from enhanced packages that provide the specifications to manufacture Ultrium Generation 2 products, to basic license packages, providing Ultrium format specifications and guidelines for interchangeability.

Buyers seeking true Ultrium format-compliant products should look for the Ultrium format compliance verification marks on both tape drives and data cartridges. Storage and media manufacturers interested in licensing LTO technology may obtain information by contacting the Law Offices of Ladas & Parry at (323) 934-2300, or by e-mail at [LTO\\_INFO@ladasparry.com](mailto:LTO_INFO@ladasparry.com).

#### **About Linear Tape-Open (LTO) Technology**

LTO technology is a powerful, scaleable, open tape format created by technology providers HP, IBM Corporation and Seagate Removable Storage Solutions to meet the growing demands of data protection in the midrange to enterprise-class server environments. This new generation of tape storage products delivers outstanding performance, capacity and reliability combining the advantages of linear multi-channel, bi-directional formats with enhancements in servo technology, data compression, track layout, and error correction.

The LTO Ultrium format storage solution is a single-reel, high-performance tape cartridge ideal for backing up, restoring, and archiving applications. As a market-leading tape technology for ultra-high capacity storage, the LTO Ultrium format is the only tape storage technology with a well-defined four-generation roadmap for growth and scalability – doubling speed and capacity with each new generation, and delivering significant data integrity improvements over current tape storage formats.

While the LTO Program gives licensees wide latitude in implementing mechanical and electrical designs, strict adherence is required to format specifications impacting the ability to read and write Ultrium format tape cartridges. Independent compliance verification is vital to meet the free-interchange objectives that are at the core of the LTO Program. With numerous compliance checkpoints for each LTO technology product, end-users and OEMs can be confident of data interchangeability between LTO products regardless of the manufacturer.

Ultrium tape mechanism and tape cartridge interchange specifications are available on a licensee basis. For additional information on LTO Ultrium technology, visit the Ultrium Web site at [www.ultrium.com](http://www.ultrium.com).

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Note: Linear Tape-Open, LTO, and Ultrium are U.S. trademarks of HP, IBM and Seagate.