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**LTO PROGRAM ADDS MAXELL AS SIXTH LICENSEE  
OF ULTRIUM FORMAT GENERATION 2**

*Super Tape Drive Format Calls For Double Speed, Capacity in Second Generation*

**SILICON VALLEY, CALIF. — (Dec. 3, 2002) —** HP, IBM Corporation, and Seagate Removable Storage Solutions, the technology provider companies for the Linear Tape-Open (LTO) Program, today announced Maxell as the sixth licensee for the Ultrium format Generation 2.

“The unparalleled adoption of the first generation Ultrium format certainly made our decision to license the Ultrium format Generation 2 a lot easier,” said Tom Yamakawa, president, Maxell Corporation of America. “End users looking for a trusted source of successive technological innovation can continue to look at the LTO Ultrium format. As with the first generation Ultrium format, the LTO Program is delivering the Ultrium format Generation 2 on schedule, and we expect the Program will continue that tradition in later generations.”

The LTO Ultrium format Generation 2 tape storage capacity will increase up to 400GB compressed (assuming a 2:1 compression). The data transfer speed of the Ultrium format Generation 2 will also advance, increasing up to 80MB per second compressed. In addition, the LTO Ultrium format Generation 2 tape drives will offer backward compatible read-and-write capabilities with Generation 1 data cartridges, protecting previous investments in LTO Ultrium based tape technology.

“Maxell’s license of the Ultrium format Generation 2 is an invaluable endorsement of the LTO Program, and demonstrates once again why the Ultrium format is the preferred super tape drive technology in the midrange market,” said Frank Elliott, Vice President, Worldwide Sales, IBM Tape Storage Solutions. “Because the LTO Ultrium format is built using complimentary technology and available for open licensing, it is the only format to offer true customer choice from multiple vendors like Maxell, technical innovation from the best minds in tape storage, data interchangeability among tape drive manufacturers, scalability for growth, high performance, and high speed and capacity.”

To ensure data interchange compliance, the LTO Program requires all licensees to pass a series of compliance verification tests which call for rigorous data interchangeability testing before being issued a license and the right to display the trusted Ultrium trademark. Compliance testing of all Ultrium products must be completed annually to ensure that all manufacturers adhere to the LTO Ultrium format specifications. Buyers seeking true Ultrium format-compliant products should look for the Ultrium format compliance verification marks on both tape drives and data cartridges.

#### **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.