

Agencia Nacional de Infraestructura

"ADQUISICIÓN, INSTALACIÓN, CONFIGURACIÓN Y PUESTA EN SERVICIO DE UNA SOLUCIÓN DE ALMACENAMIENTO COMPARTIDO Y BACKUP A CINTA PARA LA AGENCIA NACIONAL DE INFRAESTRUCTURA"



Libertad y Orden

PREGUNTAS Y RESPUESTAS

PROCESO DE SELECCIÓN ABREVIADA DE MENOR CUANTÍA N° VJ-VPRE-SA-004-2013

En Bogotá D.C., a los veinte (20) días del mes de septiembre de 2013, la Agencia Nacional de Infraestructura, por medio del presente documento se permite dar respuesta a la observación allegada al informe de verificación de requisitos habilitantes y de evaluación de las ofertas presentadas dentro del proceso de selección Abreviada de Menor Cuantía N° VJ-VPRE-SA-004-2013, en los siguientes términos:

NOMBRE/EMPRESA QUE PREGUNTA	OBSERVACIÓN REALIZADA	RESPUESTA DE LA AGENCIA
1 MICROHARD S.A.S	OBSERVACION TECNICA En la ficha técnica definitiva para la librería de cinta se solicitaba lo siguiente: "La librería de cintas debe ser del mismo fabricante del sistema de almacenamiento y Software de respaldo. Se debe ofertar una solución de respaldo completa que incluya los componentes de Software y Hardware necesarios" (subrayado y negrilla son nuestros). Al revisar las propuestas presentadas por los oferentes Computel System, Datapoint de Colombia y Global Technology Services, quienes ofrecen solución del fabricante Hewlett Packard, observamos que ofrecen la Librería HP MSL 4048 la cual no es fabricada por HP sino por un OEM externo BDT Solutions, como se puede evidenciar en el link: http://www.bdt-solutions.eu/ o http://www.bdt.de/en/products/storage-automation/references-products/, por lo tanto el ofrecimiento no cumple con el requerimiento que la librería sea del mismo fabricante del sistema de almacenamiento, y se deben declarar inhábil técnicamente. Agradecemos de antemano su atención y quedamos atentos a sus comentarios.	No se acepta la observación teniendo en cuenta que la librería de cintas HP MSL 4048 ofertada por los proponentes COMPUTEL SYSTEM SAS, DATAPOINT DE COLOMBIA SAS y GLOBAL TECHNOLOGY SERVICES GTS SA, es fabricada por Hewlett-Packard, al igual que el Sistema de Almacenamiento ofertado, esto de conformidad con el comunicado del fabricante (Hewlett-Packard) de fecha 17 de septiembre de 2013, documento que se adjunta y que hace parte integral de la presente respuesta.

Proyectó: Edwin Javier Díaz Blasco
 Revisó: Alejandro Prieto Guzmán



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Bogotá D.C., 17 de Septiembre de 2013

Señores

MINISTERIO DE TRANSPORTE - AGENCIA NACIONAL DE INFRAESTRUCTURA

República de Colombia

Atn. Ingeniero Edwin Díaz

Ciudad

Ref: ACLARACION - SELECCIÓN ABREVIADA DE MENOR CUANTÍA No VJ-VPRE-SA-004-2013

HEWLETT PACKARD COLOMBIA LTDA, en su carácter de representante Directo y Autorizado de HEWLETT PACKARD COMPANY, informa que las Librerías de Cintas Marca HP y modelo MSL 4048 son manufacturadas en las plantas de producción de Hewlett Packard Company, comercializadas por Hewlett Packard a nivel mundial con logo y marca HP y son soportadas en términos de garantía y repuestos directamente por Hewlett Packard. ✓

Es importante aclarar que los componentes principales de las librerías de cintas son los "Drives", que para el caso de la librería de cintas HP MSL 4048 son de tecnología estándar LTO y producidos directamente por Hewlett Packard. Como consta en información histórica y pública disponible en internet, la tecnología de cinta magnética de almacenamiento de datos denominada LTO por las siglas del idioma ingles "Linear Tape Open" fue desarrollada en conjunto a partir de 1990 por un consorcio conformado por Hewlett-Packard, IBM y Seagate (esta última compañía ya escindida y posteriormente adquirida por Quantum). En la actualidad el consorcio LTO continúa liderando el desarrollo y gestionando el licenciamiento y certificación de los medios hacia los fabricantes de mecanismos.

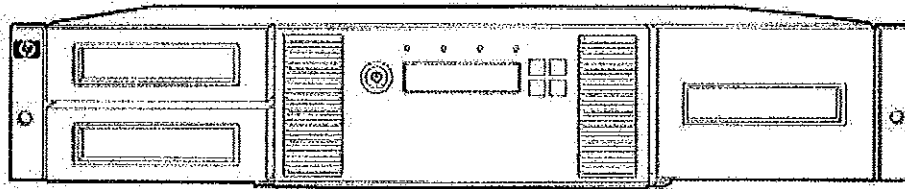
Cordialmente los invitamos a visitar la página oficial de LTO: <http://www.lto.org/index.html>, en la cual se encuentra toda la información de soporte sobre la importancia de HP en el desarrollo de estas tecnologías, desarrollo en el que ningún fabricante además de HP, IBM o Quantum participa y por lo cual todos los demás fabricantes de dispositivos que utilicen mecanismos LTO deben adquirir derechos de uso.

Atentamente,

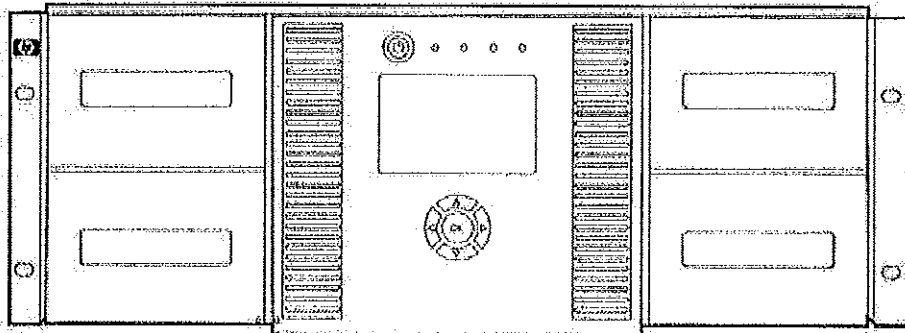
Maria Jose Laverde Rivera
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Hewlett-Packard Colombia
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Overview

The HP MSL Tape Libraries meet demanding storage requirement of businesses needing unattended backup, disaster recovery, or archive capability. The MSL Libraries offer a broad choice of storage capacity and interfaces with LTO-5, LTO-4, or LTO-3 Ultrium tape drives. Web-based remote management makes the MSL Libraries easily managed from across the room or across the globe, eliminating the need for remote office IT staff. Quickly and simply manage the tape media both in and out of the library with the standard bar code reader, configurable mail slots, and multiple 12-slot removable magazines. If a tape were lost or stolen, protect important business data from unauthorized access with the library-based encryption option. Library investment and uncertain data growth are easily managed with MSL accessory kits. Quickly increase capacity and/or performance with tool-free drive upgrades, slot license capacity upgrades, or library expandability. Now with TapeAssure to monitor drive and media utilization, monitor operational performance, report life and health information as well as provide notifications of drive and tape parameters that fall below HP recommended standards

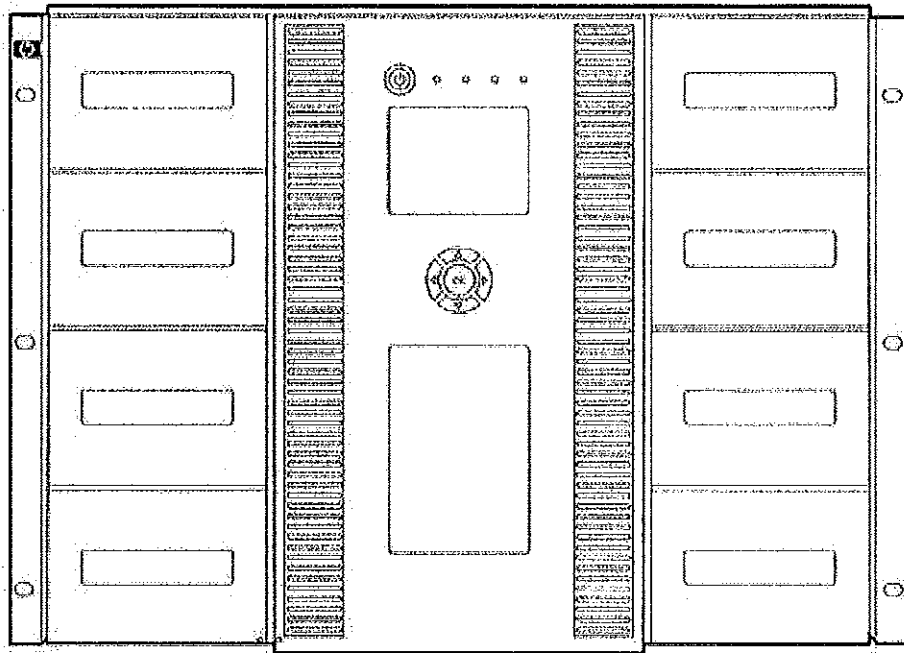


HP MSL2024 Tape Library



HP MSL4048 Tape Library

Overview



HP MSL8048/8096 Tape Library

What's New

- Compliance with new Restriction of Hazardous Substances (RoHS) requirements, which take affect 1 Jan 2013. New SKUs were created for the new RoHS compliant tape drives and MLS Library models containing the new RoHS compliant tape drives.

Key Features

- Exceptional storage density from 4.8 TB (2024) up to 288 TB of compressed capacity (2:1) in 8096
- Achieve up to 432 TB of storage capacity with the MSL Library Extender Kit
- Easy-to-use web-based remote management
- Integrated bar code reader
- Tool-free tape drive upgrades
- Customer upgradeable redundant power supply in the MSL 4048, 8048, or 8096 libraries.
- Multiple interface choices available (FC, SAS, or SCSI)
- Removable magazines with user-configurable mail slots
- Easy-to-enable AES 256-bit embedded hardware encryption with compression
- Extensive OS and software compatibility testing
- Proven high reliability
- Proactive drive and media health and operational performance reporting with TapeAssure.
- Achieve the highest level of encryption security to secure confidential business information while meeting compliance guidelines with the HP 1/8 G2 & MSL Encryption Kit.
- Proactively monitor utilization, operational performance, and overall life and health of the drives and media with TapeAssure.
- Leverage library investment to upgrade to higher performance and capacity points using the MSL Library Extender.
- Grow library capacity without adding additional hardware with the MSL8048 slot license upgrade option. Quick, easy, and affordable capacity growth.

QuickSpecs

HP MSL2024/MSL4048/MSL8048/MSL8096 Tape Libraries

Overview

Family Comparison	MSL2024	MSL4048	MSL8048/8096
Drive Technology	LTO-5 Ultrium 3280 LTO-5 Ultrium 3000 LTO-4 Ultrium 1840 LTO-4 Ultrium 1760 LTO-3 Ultrium 920	LTO-5 Ultrium 3280 LTO-5 Ultrium 3000 LTO-4 Ultrium 1840 LTO-4 Ultrium 1760 LTO-3 Ultrium 920	LTO-5 Ultrium 3280 LTO-5 Ultrium 3000 LTO-4 Ultrium 1840 LTO-4 Ultrium 1760
Maximum Number of Drives	1 (Ultrium 3280, 1840) 2 (Ultrium 3000, 1760, 920)	2 (Ultrium 3280, 1840) 4 (Ultrium 3000, 1760, 920)	4 (Ultrium 3280, 3000, 1840, 1760)
Maximum Capacity (2:1 compression)	72 TB (LTO-5) 38.4 TB (LTO-4) 19.2 TB (LTO-3)	144 TB (LTO-5) 76.8 TB (LTO-4) 38.4 TB (LTO-3)	288 TB (LTO-5, 96 slots) 153.6 TB (LTO-4, 96 slots) 76.8 TB (LTO-3, 96 slots) 144 TB (LTO-5, 48 slots) 76.8 TB (LTO-4, 48 slots) 38.4 TB (LTO-3, 48 slots)
Maximum Data Transfer (2:1 compression)	1 TB/hr (one 3280/3000) 864 GB/hr (one 1840) 576 GB/hr (one 1760) 864 GB/hr (two 920)	1.0 TB/hr (one 3280) 2.0 TB/hr (two 3000) 864 GB/hr (one 1840) 1.7 TB/hr (two 1840) 1.1 TB/hr (two 1760) 432 GB/hr (one 920) 864 GB/hr (two 920)	2.0 TB/hr (two 3280/3000) 4.0 TB/hr (four 3280/3000) 1.7 TB/hr (two 1840) 3.4 TB/hr (four 1840) 1.1 TB/hr (two 1760)
Drive Interface	8 Gb Native Fibre Channel (LTO 5 only) 4 Gb Native Fibre Channel (LTO 5, 4, 3) 6 Gb/sec SAS (LTO 5 only) 3 Gb/sec SAS (LTO 5, 4, 3) Ultra320 LVD SCSI (LTO 4, 3)	8 Gb Native Fibre Channel (LTO 5 only) 4 Gb Native Fibre Channel (LTO 5, 4, 3) 6 Gb/sec SAS (LTO 5 only) 3 Gb/sec SAS (LTO 5, 4, 3) Ultra320 LVD SCSI (LTO 4, 3)	8 Gb Native Fibre Channel (LTO 5 only) 4 Gb Native Fibre Channel (LTO 5, 4, 3) 6 Gb/sec SAS (LTO 5 only) 3 Gb/sec SAS (LTO 5, 4, 3) Ultra320 LVD SCSI (LTO 4, 3)



Product Highlights

Manageability

The MSL Tape Libraries come with web-based remote manageability so they can be easily monitored and managed from across the room or across the globe. Functions included in the management tool include:

- Status information on the drive and system
- System configuration operations and reporting
- System error and status logs
- Library and drive firmware upgrade capabilities
- Diagnostic tests and information
- Cartridge movement for maintenance and management purposes
- Cleaning cartridge support
- Security and access control
- SNMP support for IP communication
- Partitioning and Encryption management
- HTTPS capable
- IPv6 and IPv4 network protocol support

TapeAssure

HP TapeAssure makes managing, optimizing and archiving on the HP MSL 2024, 4040, 8048 or 8096 libraries faster and easier. TapeAssure provides comprehensive summaries and detailed information about the status, performance, utilization, and health of all tape drives and tapes for HP MSL libraries. TapeAssure utilization and performance reporting features allow you to optimize the use of your existing HP MSL tape libraries to make informed purchasing decisions if an increase in capacity is needed. With TapeAssure data you can:

- Modify backup schedules to make best use of the drives and tapes available and evenly distribute their workload
- Predict and prevent failures through early warnings and recommended service actions
- Determine if each drive and each tape is experiencing a high (or low) rate of usage
- Know when to retire tapes
- Find out the compression ratios actually achieved

TapeAssure health reports and alerts give you peace of mind knowing the condition of the drives, the tapes and the data on each tape. TapeAssure monitors every backup to ensure the highest standards of reliability, sends alerts when these standards are not met, and ensures that you can maintain the drives and tapes used in an archive environment to have the highest integrity.

TapeAssure builds a database of drive and tape history information that you can export as .CSV (comma-separated-value) files and import into Excel or other tools to create pivot-charts, pie charts and bar charts for graphical presentation or further analysis. This data can be automatically exported on a schedule or on demand and written to a local or network drive where analysis scripts can also be run.

TapeAssure real time alerts notify instantly if drive and data quality standards are not being achieved:

- In-depth analysis pinpoints if drive, tape or data characteristics fall below HP backup and archiving standards
- View alerts and statistics in real-time in the Command View TL GUI

NOTE: an alert does not imply that a failure has occurred as HP backup and archiving standards are very high. This allows you to treat many of the alerts as predictive and to follow up on the recommended service actions at a time that is least disruptive.

Easy Installation

The MSL Tape Libraries are shipped as a rack-ready unit. The rack mount hardware included with the library allows installation in a variety of HP racks. For more information on the HP rack offerings, please see the following URL: <http://h18004.www1.hp.com/products/servers/platforms/rackandpower.html>

