Hewlett Packard Enterprise HPE Support Center

HPE Library and Tape Tools - Testing: Utility Functions

Device specific utility descriptions

CAUTION: Some utilities are destructive to data on the media. When a utility is destructive to data, this is indicated in the utility description. To prevent data loss, use media that is either new or that contains unimportant data that can be erased. Do not attempt to perform a utility unless thoroughly familiar with its usage, or have been instructed to do so by HPE support personnel.

- Compare statistics utility
- Device configuration test
- Firmware tape creator (FUP tape) utility
- Force tape eject utility
- LTO firmware to data tape creator
- Tape erase utility
- Re-initialize LTFS tape

Compare statistics utility

Details/Device Specific Utility	Compare Statistics Utility
Description	• This utility reads current statistical values from the library (for example, number of moves and retries) and compares the current values to values saved previously in this library by this same utility. • It can be useful to run this utility before and after running another Library and Tape Tools (L&TT) test that exercises the library to see if there are changes in key statistics that would indicate a problem. • If the utility has never been executed before on the library, there will be no results to make a comparison with, but the current statistical values will be displayed and saved for comparisons when the utility is run in the future. • Depending on the library type, results can be saved in the library for anywhere from one to four executions of the utility. **NOTE:** For instructions on how to perform this utility, see • **Running tests and device-specific utilities** under **Managing firmware** section at the link below: Click here to view the page for instructions on how to perform this utility . • Running the tests and utilities section at the link below: Click here to view the page for instructions on how to perform this utility .
When to run	Run this utility to configure the drive to enable/disable data compression and to prevent/allow media removal.
Average duration	Since no library motion is necessary, this utility completes in just a few seconds.
Other notes	None.
Available for	LTO-1 to LTO-7 tape drives both standalone and within libraries and autoloaders.

Device configuration test

Details/Device Specific Utility	Device Configuration Test
Description	This utility helps to configure the drive to enable/disable data compression and to prevent/allow media removal. **NOTE:** For instructions on how to perform this test, see • **Running tests and device-specific utilities** under **Managing firmware** section at the link below: Click here to view the page for instructions on how to perform this utility . • Running the tests and utilities section at the link below: Click here to view the page for instructions on how to perform this utility .
Options	• **Enable/disable data compression** - Specify **enabled** or **disabled** to enable or disable data compression on the drive. Specify **leave unchanged** to retain the current data compression setting. • **Prevent/allow media removal** - Specify **prevent** or **allow** to prevent orallow media removal from the drive. Specify **leave unchanged** to retain the current setting. • **Enable ODBR** - This option is only available for some DDS drives. For DDS,device analysis will indicate whether or not there is a need to enable OBDR using the Device Configuration test.
When to run	Run this utility to configure the drive to enable/disable data compression and to prevent/allow media removal.

Details/Device Specific Utility	Device Configuration Test
Average duration	Less than 1 minute.
Available for	All drives supported by L&TT.

Firmware tape creator (FUP tape) utility

Details/Device Specific Utility	Firmware Tape Creator (FUP tape) Utility
Description	• Allows Firmware Update (FUP) tape on the drive. • A FUP tape is a tape that is created when a firmware file for a particular drive type is written onto a blank tape.
When to run	Run this utility to create a Firmware Update (FUP) tape to update drive firmware.
Average duration	Less than 2 minutes.
Other notes	This utility expects to find a firmware image file (**firmware.frm**) in the **firmware**directory.
Available for	Standalone LTO-1 to LTO-7 drives.

Force tape eject utility

Details/Device Specific Utility	Force Tape Eject Utility
Description	• This utility forces a tape drive to eject a tape that will not eject using the normal methods. • The utility will send special SCSI commands to the library controller, forcing it to take extra measures to remove the tape from the drive. • When the tape is successfully ejected from the tape drive, it will be returned to the storage slot from which it came. Use the test option drive number to specify which drive in the library holds the stuck tape.
When to run	Run this utility if a tape cannot be removed from a library tape drive using the normal methods of the ISV application, the front panel commands, or the move media feature from L&TT.
Average duration	Depending on the circumstances that prevent the tape from being removed, this utility can take anywhere from 1 to 30 minutes to complete.
Other notes	Use the **LTO stuck tape test** under section **Media specific tests** for standalone LTO drives at the link below: Click here to view the page for more information on LTO stuck tape test .
Available for	LTO-1 to LTO-7 tape drives standalone only.

LTO firmware to data tape creator

Details/Device Specific Utility	LTO Firmware to Data Tape Creator
Description	This utility converts a previously created firmware upgrade tape back to a normal data tape on the Ultrium drive. **NOTE:** For instructions on how to perform this utility, see • **Running tests and device-specific utilities** under **Managing firmware** section at the link below: Click here to view the page for instructions on how to perform this utility . • Running the tests and utilities section at the link below: Click here to view the page for instructions on how to perform this utility .
When to run	Run this utility script when to convert an Ultrium FUP tape back to a datatape.
Average duration	Less than 2 minutes.
Other notes	Test will overwrite all data on the media.
Available for	LTO drives only.

CAUTION: This utility is destructive and will overwrite data on the media that is present in the product.

Tape erase utility

Details/Device Specific Utility	Tape Erase Utility

Details/Device Specific Utility	Tape Erase Utility
Description	This utility converts a DDS, LTO, or SDLT data tape into a blank tape and has the following three options: • **Quick erase** - (1 min) Removes the tape directory and writes EOD at the start of the tape, but it does not overwrite the data on the remainder of the tape. This option is not available for SDLT. • **Full erase** - (2 - 4 hrs) Erases the tape directory and also overwrites all data on the tape. • **Secure erase** - (10 to 20 hrs) Performs a full erase followed by a rewind.It repeats this four more times for a total of five full erases. **NOTE:** For instructions on how to perform this utility, see • **Running tests and device-specific utilities** under **Managing firmware** section at the link below: Click here to view the page for instructions on how to perform this utility . • Running the tests and utilities section at the link below: Click here to view the page for instructions on how to perform this utility .
When to run	Run this utility script when to erase a tape that has been written previously.
Average duration	• Quick erase takes about one minute. • Full erase takes from 2 to 4 hours. • Secure erase takes between 10 to 25 hours.
Other notes	• Any data on tape will no longer be accessible after this test. • The test will not run with a tape that has been partitioned.
Available for	LTO-1 to LTO-7 tape drives standalone only.
CAUTION: This utility is destructive and will overwrite data on the media that is present in thestorage device.	

Re-initialize LTFS tape

Details/Device Specific Utility	Re-initialize LTFS Tape
Description	• This utility re-initializes an LTO-5 LTFS formatted tape into a data tape. • This utility has no options.
When to run	Run this utility when to reuse an LTFS-formatted tape as a normal datatape.
Average duration	Approximately one minute.
Other notes	The utility will not run with a tape that is not an LTO-5 Read/Write tape and has noLTFS partitions.
Available for	LTO-5, LTO-6 and LTO-7 tape drives standalone only.
CAUTION: This utility is destructive and will overwrite data on the media that is present in the storage device.	

Link to the list of available documents

Click here to view a list of documents available for the HPE Library and Tape Tools .

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