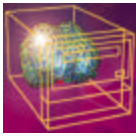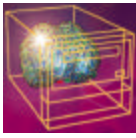# Tape Alert Specification v3
Hewlett-Packard Company
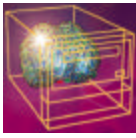
TapeAlert

Specification

CHANGE CONTROL

ISSUE: 1.0 -   First issue
1.2 -   Added implementation guidelines for minimum subset of flags
Added details to resolve ambiguities and merged MRIE 0x3/0x4
Added localised TapeAlert messages (French, German, Spanish)
2.0 -   Added support for stand-alone changer devices (libraries) using new
device specific flag definition tables
New library flags 1-25 in changer device flag definition table
Added requirements for software to poll at the beginning of jobs
Added localised TapeAlert message (Portuguese)
Clarified Log Sense flag clearing criteria and severity definitions
Changed tape drive/autoloader flag grouping definitions
Removed Flag 7 from minimum subset for tape drive/autoloader
Minor changes to host error messages for flags 1,7,12,20,21,30,31,33
Flag 14,15,16,17,18: New read/write management flags
Flag 23: New cleaning management flag
Flag 29,35,36,37,38,39: New drive h/w fault flags
Changed Mode page MRIE definition to match ANSI SCSI
Added Test Flag Number option to Mode page
2.1 -   Added guidelines for SCSI Log Sense/Select behaviour
Added Flag 19 (Nearing Media Life) to tape drive/autoloader errors
3.0 –   Modified host text for tape drive flags 11, 18, 35, 36, 37, 38
Modified host text for library flags 9, 10, 11
Added new tape drive flags 24-28 and 50-54
Added new library flags 26-32
Clarified host software polling criteria for libraries

INTRODUCTION AND SCOPE

This document details a new specification for tape drive and library diagnostics. It is based on the tape drive/library performing constant self-diagnostics, and then interpreting this information into standard high-level error flags. This will allow any storage software application using TapeAlert capable tape drives/libraries to access detailed device diagnostic information in a standard way. Given this new additional diagnostic information, the storage software can communicate clearly the tape drive or library's behaviour and therefore improve the overall reliability and usability of the storage solution.

The TapeAlert specification is designed for easy addition of other device types in the future, by adding new device specific definitions for the 64 alert flags in the TapeAlert Log page. There are currently two device types supported:
- Tape drive/autoloader device
- Stand-alone changer device (ie library)

HOST SOFTWARE INTERFACE

The TapeAlert information is accessed via a Log Sense page, and configuration is via a Mode Select page. The Mode Sense/Select configuration of the TapeAlert interface is compatible with the SMART diagnostic standard for disc drives. The host software should first check the tape drive/library to determine whether it supports the TapeAlert Log Sense page 0x2e. By default the host software access to the TapeAlert Log Sense page is via polling, with the Page Control (PC) bits in the Log Sense CDB set to 0x00.

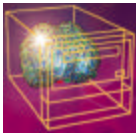The TapeAlert Log Sense page is read from a tape drive/autoloader device at the following times as a minimum:
- At the beginning of a write/read job, even if media is not loaded
- Immediately after a fatal error during the write/read job
- At the end of each tape when the write/read job spans multiple tapes. If the tape is to be ejected then the Log Sense page must be read BEFORE this.
- At the end of a write/read job

The TapeAlert Log Sense page is read from a library device at the following times as a minimum:
- At the beginning of a write/read job occurring on a device inside the library, even if media is not loaded in that device
- Immediately after a fatal error during a write/read job occurring on a device inside the library
- At the end of a write/read job occurring on a device inside the library
- Immediately after fatal error returned from any command (inventory, read element (forced/non forced), bin-to-bin moves (increased performance, tape staging)

Though not mandatory, the host software may also poll the Log Sense page every 60 seconds while the tape drive/library is idle. However, the host software may use the TapeAlert Mode page to configure other access methods, depending on what options are supported by the tape drive/library.

Each time the host software reads the TapeAlert Log page, it should check all 64 flags to discover which are set (there may be more than one). The definitions of the 64 flags are device type specific, so that there is one definition for tape drive/autoloader devices, and a different definition for stand-alone changer devices (in libraries). For each set flag the host software should communicate the defined error message and severity for that flag to the user, and also log it. If multiple flags are set simultaneously, they will be displayed together in ascending order of severity. At the beginning of each set of TapeAlert error messages, the tape device/library that initiated them must be identified. For the tape drive media-related flags (flags 4, 7, 15, 18, 19, 50-54) the software label of the media should be included in the TapeAlert error messages so that the user is aware what piece of media the error refers to, and for library flag 32 the slot number should be included in the TapeAlert error message. Such information could also be displayed with the messages for other flags as well if required. The information read in the TapeAlert flags should not in itself cause the software to stop a current backup/restore job.

HEWLETT PACKARD

TapeAlert SCSI LOG SENSE FORMAT

The TapeAlert interface to the tape drive is via the SCSI bus, based on a new LOG SENSE page, which contains 64 one-byte alert flags. The specific conditions for any one flag to be set and cleared are device-specific, and thus must be defined by the device vendor implementing them. However, there are basic implementation guidelines supplied for the minimum subset definitions below that provide some advice.

Since the TapeAlert data is event based the Page Control (PC) bits in the Log Sense CDB are not applicable, and therefore should be ignored by the device. The format of the LOG SENSE page returned by the device is as follows:
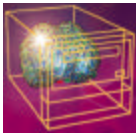
	7	6	5	4	3	2	1	0
0	Page Code 0x2e							
1	Reserved (0)							
2	(MSB) Page Length (0x140)							
3	(LSB)							
	TapeAlert Flags							
5n-1	(MSB) Parameter Code (n)							
5n	(LSB)							
5n+1	DU(0)	DS(1)	TSD(0)	ETC(0)	TMC(0)		Res(0)	LP(0)
5n+2	Parameter Length (1)							
5n+3	Value of Flag (set when bit 0 = 1)							

Note that the DU (Disable Update), DS (Disable Save), TSD (Target Save Disable), ETC (Enable Threshold Comparison), TMC (Threshold Met Criteria) and LP (List Parameters) fields are standard ANSI SCSI parameters for Log sense data, and are collectively referred to as the *control byte*.

Each flag will be cleared to zero in the following circumstances:
- At drive power on
- When the TapeAlert Log page is read.
- When specified corrective action has been taken (such as using a cleaning cartridge)
- On SCSI bus reset or bus device reset message
- On Log Select reset (note that the recommended action on receiving Log Select for the TapeAlert Log page is to reject the command with an error)

Note: When a flag is cleared by reading the TapeAlert Log page, a flag cannot be set again until the error condition is removed (eg the specified corrective action has been taken). So, for example, if the cartridge in the drive is not data grade, once flag 8 has been cleared by the host software reading the Log page it cannot be set again until the cartridge has been removed. All other methods of clearing allow the flag to be set again. There are three types of flags, listed below in order of increasing severity:
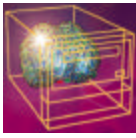
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Severity	Urgent User Intervention	Risk of Data Loss	Explanations
Critical	X	X	
Warning		X	X
Information			X

The definitions of the 64 alert flags in the Log page vary depending on the device type. Flag definitions are currently provided for the following device types:

- Tape drive/autoloader (streaming device using a single physical ID). If the device includes an integrated changer device on another LUN under the same physical device ID (an autoloader) then it is still treated as a single streaming device.
- Stand-alone changer device (changer mechanism using a single physical ID inside a library).

The following tables detail the currently defined error flags in the TapeAlert specification for tape/autoloader devices and for stand-alone changer devices. The specification allows for additional device specification definitions and additional flags to be defined when necessary, and also allows for additional diagnostic information to be passed in the spare 7 bits of the flag byte. At this time these spare 7 bits are RESERVED for future use.

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Tape Drive/Autoloader Flag Definitions

The minimum subset of flags that must be supported by a tape drive/autoloader are as follows, along with some basic implementation *guide-lines* advice (note that these are only examples and may not relate to some tape technologies):

Flag 3: **Hard Error**
This flag is set for **any** unrecoverable read/write/positioning error, and is internally cleared when the media is ejected (this flag is set as an explanation of the error in conjunction with one of the recovery action flags 4, 5, or 6)

Flag 4: **Media**
This flag is set for any unrecoverable read/write/positioning error that is due to faulty media, and is internally cleared when the media is ejected

Flag 5: **Read Failure**
This flag is set for any unrecoverable read error where the diagnosis is uncertain and could either be faulty media or faulty drive hardware, and is internally cleared when the media is ejected

Flag 6: **Write Failure**
This flag is set for any unrecoverable write/positioning error where the diagnosis is uncertain and could either be faulty media or faulty drive hardware, and is internally cleared when the media is ejected

Flag 20: **Clean Now (if drive supports cleaning cartridges)**
This flag is set when the tape drive detects it needs cleaning (eg when the cleaning LED is lit), and is internally cleared when the drive is successfully cleaned

Flag 22: **Expired Cleaning (if drive supports cleaning cartridges)**
This flag is set when the tape drive detects a cleaning cycle was attempted but was not successful, and is internally cleared when the next cleaning cycle is attempted

Flag 31: **Hardware B**
This flag is set when the tape drive fails its internal Power-On-Self-Tests (POST), and is not internally cleared until the drive is powered off

If the tape drive/autoloader does not support any of the remaining error flags, then it is acceptable for unsupported flags to remain unset.

The tape drive/autoloader flag definition is grouped into the following sections:
Flags 1 to 19: For tape drive write/read management
Flags 20 to 25:   For cleaning management
Flags 26 to 39:   For tape drive hardware errors
Flags 40 to 49:   For tape autoloader errors

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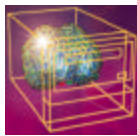SPECIFICATION DOCUMENT

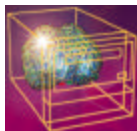| No.	Flag	Type	Required Host Message	Cause
1	Read Warning	W	The tape drive is having problems reading data. No data has been lost, but there has been a reduction in the performance of the tape.	The drive is having severe trouble reading
2	Write Warning	W	The tape drive is having problems writing data. No data has been lost, but there has been a reduction in the capacity of the tape.	The drive is having severe trouble writing
3	Hard Error	W	The operation has stopped because an error has occurred while reading or writing data which the drive cannot correct.	The drive had a hard read or write error
4	Media	C	Your data is at risk: 1. Copy any data you require from this tape. 2. Do not use this tape again. 3. Restart the operation with a different tape.	Media can no longer be written/read, or performance is severely degraded
5	Read Failure	C	The tape is damaged or the drive is faulty. Call the tape drive supplier helpline.	The drive can no longer read data from the tape
6	Write Failure	C	The tape is from a faulty batch or the tape drive is faulty: 1. Use a good tape to test the drive. 2. If the problem persists, call the tape drive supplier helpline.	The drive can no longer write data to the tape
7	Media Life	W	The tape cartridge has reached the end of its calculated useful life: 1. Copy any data you need to another tape 2. Discard the old tape.	The media has exceeded its specified life
8	Not Data Grade	W	The tape cartridge is not data-grade. Any data you back up to the tape is at risk. Replace the cartridge with a data-grade tape.	The drive has not been able to read the MRS stripes
9	Write Protect	C	You are trying to write to a write-protected cartridge. Remove the write-protection or use another tape.	Write command is attempted to a write protected tape
10	No Removal	I	You cannot eject the cartridge because the tape drive is in use. Wait until the operation is complete before ejecting the cartridge.	Manual or s/w unload attempted when prevent media removal on
11	Cleaning Media	I	The tape in the drive is a cleaning cartridge.	Cleaning tape loaded into drive
12	Unsupported Format	I	You have tried to load a cartridge of a type which is not supported by this drive.	Attempted loaded of unsupported tape format, e.g. DDS2 in DDS1 drive
13	Recoverable Snapped Tape	C	The operation has failed because the tape in the drive has snapped: 1. Discard the old tape. 2. Restart the operation with a different tape.	Tape snapped/cut in the drive where media can be ejected
14	Unrecoverable Snapped Tape	C	The operation has failed because the tape in the drive has snapped: 1. Do not attempt to extract the tape cartridge. 2. Call the tape drive supplier helpline.	Tape snapped/cut in the drive where media cannot be ejected
15	Memory Chip in Cartridge Failure	W	The memory in the tape cartridge has failed, which reduces performance. Do not use the cartridge for further backup operations.	Memory chip failed in cartridge
16	Forced Eject	C	The operation has failed because the tape cartridge was manually ejected while the tape drive was actively writing or reading.	Manual or forced eject while drive actively writing or reading
17	Read Only Format	W	You have loaded a cartridge of a type that is read-only in this drive. The cartridge will appear as write-protected	Media loaded that is read-only format

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No.	Flag	Type	Required Host Message	Cause
18	Tape Directory Corrupted on Load	W	The directory on the tape cartridge has been corrupted. File search performance will be degraded. The tape directory can be rebuilt by reading all the data on the cartridge	Tape drive powered down with tape loaded, or permanent error prevented the tape directory being updated
19	Nearing Media Life	I	The tape cartridge is nearing the end of its calculated life. It is recommended that you: 1. Use another tape cartridge for your next backup. 2. Store this tape cartridge in a safe place in case you need to restore data from it.	Media may have exceeded its specified number of passes
20	Clean Now	C	The tape drive needs cleaning: 1. If the operation has stopped, eject the tape and clean the drive 2. If the operation has not stopped, wait for it to finish and then clean the drive. Check the tape drive users manual for device specific cleaning instructions.	The drive thinks it has a head clog, or needs cleaning
21	Clean Periodic	W	The tape drive is due for routine cleaning: 1. Wait for the current operation to finish. 2. Then use a cleaning cartridge. Check the tape drive users manual for device specific cleaning instructions.	The drive is ready for a periodic clean
22	Expired Cleaning Media	C	The last cleaning cartridge used in the tape drive has worn out: 1. Discard the worn out cleaning cartridge. 2. Wait for the current operation to finish. 3. Then use a new cleaning cartridge.	The cleaning tape has expired
23	Invalid Cleaning Tape	C	The last cleaning cartridge used in the tape drive was an invalid type: 1. Do not use this cleaning cartridge in this drive. 2. Wait for the current operation to finish. 3. Then use a valid cleaning cartridge.	Invalid cleaning tape type used
24	Retention Requested	W	The tape drive has requested a retention operation	The drive is having severe trouble reading or writing, which will be resolved by a retention cycle
25	Dual-Port Interface Error	W	A redundant interface port on the tape drive has failed	Failure of one interface port in a dual-port configuration, e.g. Fibrechannel
26	Cooling Fan Failure	W	A tape drive cooling fan has failed.	Fan failure inside tape drive mechanism or tape drive enclosure
27	Power Supply	W	A redundant power supply has failed inside the tape drive enclosure. Check the enclosure users manual for instructions on replacing the failed power supply.	Redundant PSU failure inside the tape drive enclosure or rack subsystem
28	Power Consumption	W	The tape drive power consumption is outside the specified range	Power consumption of the tape drive is outside specified range
29	Drive Maintenance	W	Preventive maintenance of the tape drive is required. Check the tape drive users manual for device specific preventive maintenance tasks or call the tape drive supplier helpline.	The drive requires preventative maintenance (not cleaning).

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No.	Flag	Type	Required Host Message	Cause
30	Hardware A	C	The tape drive has a hardware fault: 1. Eject the tape or magazine. 2. Reset the drive. 3. Restart the operation.	The drive has a hardware fault that requires reset to recover.
31	Hardware B	C	The tape drive has a hardware fault: 1. Turn the tape drive off and then on again. 2. Restart the operation. 3. If the problem persists, call the tape drive supplier helpline. Check the tape drive users manual for device specific instructions on turning the device power on and off.	The drive has a hardware fault which is not read/write related or requires a power cycle to recover.
32	Interface	W	The tape drive has a problem with the host interface: 1. Check the cables and cable connections. 2. Restart the operation.	The drive has identified an interfacing fault
33	Eject Media	C	The operation has failed: 1. Eject the tape or magazine. 2. Insert the tape or magazine again. 3. Restart the operation.	Error recovery action
34	Download Fail	W	The firmware download has failed because you have tried to use the incorrect firmware for this tape drive. Obtain the correct firmware and try again.	Firmware download failed
35	Drive Humidity	W	Environmental conditions inside the tape drive are outside the specified humidity range	Drive humidity limits exceeded
36	Drive Temperature	W	Environmental conditions inside the tape drive are outside the specified temperature range	Drive temperature limits exceeded
37	Drive Voltage	W	The voltage supply to the tape drive is outside the specified range	Drive voltage limits exceeded
38	Predictive Failure	C	A hardware failure of the tape drive is predicted. Call the tape drive supplier helpline.	Predictive failure of drive hardware
39	Diagnostics Required	W	The tape drive may have a fault. Check for availability of diagnostic information and run extended diagnostics if applicable. Check the tape drive users manual for instructions on running extended diagnostic tests and retrieving diagnostic data	The drive may have had a failure which may be identified by stored diagnostic information or by running extended diagnostics (eg Send Diagnostic)
40	Loader Hardware A	C	The changer mechanism is having difficulty communicating with the tape drive: 1. Turn the autoloader off then on. 2. Restart the operation. 3. If problem persists, call the tape drive supplier helpline.	Loader mechanism is having trouble communicating with the tape drive
41	Loader Stray Tape	C	A tape has been left in the autoloader by a previous hardware fault: 1. Insert an empty magazine to clear the fault. 2. If the fault does not clear, turn the autoloader off and then on again. 3. If the problem persists, call the tape drive supplier helpline.	Stray tape left in loader after previous error recovery
42	Loader Hardware B	W	There is a problem with the autoloader mechanism.	Loader mechanism has a hardware fault
43	Loader Door	C	The operation has failed because the autoloader door is open: 1. Clear any obstructions from the autoloader door. 2. Eject the magazine and then insert it again. 3. If the fault does not clear, turn the autoloader off and then on again 4. If the problem persists, call the tape drive supplier helpline.	Tape changer door open

No.	Flag	Type	Required Host Message	Cause
44	Loader Hardware C	C	The autoloader has a hardware fault: 1. Turn the autoloader off and then on again. 2. Restart the operation. 3. If the problem persists, call the tape drive supplier helpline. Check the autoloader users manual for device specific instructions on turning the device power on and off.	The loader mechanism has a hardware fault that is not mechanically related.
45	Loader Magazine	C	The autoloader cannot operate without the magazine. 1. Insert the magazine into the autoloader 2. Restart the operation.	Loader magazine not present
46	Loader Predictive Failure	W	A hardware failure of the changer mechanism is predicted. Call the tape drive supplier helpline.	Predictive failure of loader mechanism hardware
50	Lost Statistics	W	Media statistics have been lost at some time in the past	Drive or library powered down with tape loaded
51	Tape directory invalid at unload	W	The tape directory on the tape cartridge just unloaded has been corrupted. File search performance will be degraded The tape directory can be rebuilt by reading all the data.	Error prevented the tape directory being updated on unload.
52	Tape system area write failure	C	The tape just unloaded could not write its system area successfully: 1. Copy data to another tape cartridge 2. Discard the old cartridge	Write errors while writing the system log on unload
53	Tape system area read failure	C	The tape system area could not be read successfully at load time: 1. Copy data to another tape cartridge 2. Discard the old cartridge	Read errors while reading the system area on load
54	No start of data	C	The start of data could not be found on the tape: 1. Check you are using the correct format tape 2. Discard the tape or return the tape to your supplier	Tape damaged, bulk erased, or incorrect format
64				

Stand-Alone Changer Device Flag Definitions

The minimum subset of flags that must be supported by a stand-alone changer device (ie changer inside a library) are as follows, along with some basic implementation guide-lines advice:

Flag 2: **Library Hardware B**
This flag is set for **any** unrecoverable mechanical error (this flag can be set as an explanation of the error in conjunction with one of the recovery action flags 3, 4, 5 or 7)

Flag 4: **Library Hardware D**
This flag is set when the changer device fails its internal Power-On-Self-Tests (POST) or when a mechanical error occurs that requires a power cycle to recover, and is not internally cleared until the device is powered off.

Flag 13: **Library Pick Retry**
This flag is set when the changer device passes a high retry count threshold when performing an operation to pick a cartridge from a slot before the operation succeeds. It is internally cleared when another pick operation is attempted.

Flag 14: **Library Place Retry**
This flag is set when the changer device passes a high retry count threshold when performing an operation to place a cartridge back into a slot before the operation succeeds. It is internally cleared when another place operation is attempted.

Flag 15: **Library Load Retry**
This flag is set when the changer device passes a high retry count threshold when performing an operation to load a cartridge into an internal device before the operation succeeds. It is internally cleared when another load operation is attempted. Note that if the load actually fails due to a media or drive problem there will be the appropriate TapeAlert flags set by the internal device rather than then changer device.
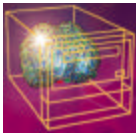
Flag 16: **Library Door (if changer supports door interlock)**
This flag is set when the changer device cannot perform media move operations because its door is open, and is internally cleared when the door is closed.

Flag 23: **Library Scan Retry (if changer supports bar code reader)**
This flag is set when the changer device passes a high retry count threshold when performing an operation to scan the barcode on a cartridge before the operation succeeds. It is internally cleared when another barcode scanning operation is attempted.
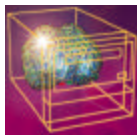
If the stand-alone changer device does not support any of the remaining error flags, then it is acceptable for unsupported flags to remain unset.

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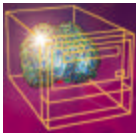| No.	Flag	Type	Required Host Message	Cause
1	Library Hardware A	C	The library mechanism is having difficulty communicating with the drive: 1. Turn the library off then on. 2. Restart the operation. 3. If problem persists, call the library supplier helpline.	Changer mechanism is having trouble communicating with the internal drive
2	Library Hardware B	W	There is a problem with the library mechanism. If problem persists, call the library supplier helpline.	Changer mechanism has a hardware fault
3	Library Hardware C	C	The library has a hardware fault: 1. Reset the library 2. Restart the operation. Check the library users manual for device specific instructions on resetting the device.	The changer mechanism has a hardware fault that requires reset to recover.
4	Library Hardware D	C	The library has a hardware fault: 1. Turn the library off and then on again. 2. Restart the operation. 3. If the problem persists, call the library supplier helpline. Check the library users manual for device specific instructions on turning the device power on and off.	The changer mechanism has a hardware fault that is not mechanically related, or requires a power cycle to recover
5	Library Diagnostics Required	W	The library mechanism may have a hardware fault. Run extended diagnostics to verify and diagnose the problem. Check the library users manual for device specific instructions on running extended diagnostic tests.	The changer mechanism may a hardware fault which would be identified by extended diagnostics (eg SCSI Send Diagnostic).
6	Library Interface	C	The library has a problem with the host interface: 1. Check the cables and cable connections. 2. Restart the operation.	The library has identified an interfacing fault
7	Predictive Failure	W	A hardware failure of the library is predicted. Call the library supplier helpline.	Predictive failure of library hardware
8	Library Maintenance	W	Preventative maintenance of the library is required. Check the library users manual for device specific preventative maintenance tasks, or call your library supplier helpline.	Library preventative maintenance required
9	Library Humidity Limits	C	General environmental conditions inside the library are outside the specified humidity range	Library humidity limits exceeded
10	Library Temperature Limits	C	General environmental conditions inside the library are outside exceeded the specified temperature range	Library temperature limits exceeded
11	Library Voltage Limits	C	The voltage supply to the library is outside the specified range. There is a potential problem with the power supply or failure of a redundant power supply	Library voltage limits exceeded
12	Library Stray Tape	C	A cartridge has been left in a drive inside the library by a previous hardware fault: 1. Insert an empty magazine to clear the fault. 2. If the fault does not clear, turn the library off and then on again. 3. If the problem persists, call the library supplier helpline.	Stray cartridge left in library drive after previous error recovery
13	Library Pick Retry	W	There is a potential problem with a drive ejecting cartridges short or with the library mechanism picking a cartridge from a slot. 1. No action needs to be taken at this time. 2. If the problem persists, call the library supplier helpline.	Operation to pick a cartridge from a slot had to perform an excessive number of retries before succeeding

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No.	Flag	Type	Required Host Message	Cause
14	Library Place Retry	W	There is a potential problem with the library mechanism placing a cartridge into a slot 1. No action needs to be taken at this time. 2. If the problem persists, call the library supplier helpline.	Operation to place a cartridge into a slot had to perform an excessive number of retries before succeeding
15	Library Load Retry	W	There is a potential problem with a drive or the library mechanism loading cartridges, or an incompatible cartridge.	Operation to load a cartridge into a drive had to perform an excessive number of retries before succeeding
16	Library Door	C	The operation has failed because the library door is open: 1. Clear any obstructions from the library door. 2. Close the library door. 3. If the problem persists, call the library supplier helpline.	Changer door open prevents library functioning
17	Library Mailslot	C	There is a mechanical problem with the library media import/export mailslot.	Mechanical problem with import/export mailslot
18	Library Magazine	C	The library cannot operate without the magazine. 1. Insert the magazine into the library 2. Restart the operation.	Library magazine not present
19	Library Security	W	Library security has been compromised	Library door opened then closed during operation
20	Library Security Mode	I	The security mode of the library has been changed. The library has either been put into secure mode, or the library has exited the secure mode. This is for information purposes only. No action is required.	Library security mode changed
21	Library Offline	I	The library has been manually turned offline and is unavailable for use.	Library manually turned offline
22	Library Drive Offline	I	A drive inside the library has been taken offline. This is for information purposes only. No action is required.	Library turned internal drive offline
23	Library Scan Retry	W	There is a potential problem with the barcode label or the scanner hardware in the library mechanism. 1. No action needs to be taken at this time. 2. If the problem persists, call the library supplier helpline.	Operation to scan the barcode on a cartridge had to perform an excessive number of retries before succeeding
24	Library Inventory	C	The library has detected a inconsistency in its inventory. 1. Redo the library inventory to correct inconsistency. 2. Restart the operation Check the applications users manual or the hardware users manual for specific instructions on redoing the library inventory.	Inconsistent media inventory
25	Library Illegal Operation	W	A library operation has been attempted that is invalid at this time.	Illegal operation detected
26	Dual-Port Interface Error	W	A redundant interface port on the library has failed	Failure of one interface port in a dual-port configuration, e.g. Fibrechannel
27	Cooling Fan Failure	W	A library cooling fan has failed.	One or more fans inside the library have failed. Internal flag state only cleared when all fans are working again.

No.	Flag	Type	Required Host Message	Cause
28	Power Supply	W	A redundant power supply has failed inside the library. Check the library users manual for instructions on replacing the failed power supply.	Redundant PSU failure inside the library subsystem
29	Power Consumption	W	The libary power consumption is outside the specified range	Power consumption of one or more devices inside the library is outside specified range
30	Pass-through mechansim failure	C	A failure has occurred in the cartridge pass-through mechanism between two library modules.	Error occurred in pass-through mechanism during self test or while attempting to transfer a cartridge between library modules
31	Cartridge in pass-through mechanism	C	A cartridge has been left in the library pass-through mechanism from a previous hardware fault. Check the library users guide for instructions on clearing this fault.	Cartridge left in the pass-through mechanism between two library modules
32	Unreadable bar code labels	I	The library was unable to read the bar code on a cartridge	Unable to read a bar-code label on a cartridge during library inventory/scan
64				

TAPEALERT DIAGNOSTIC
SPECIFICATION DOCUMENT

TapeAlert SCSI MODE PAGE FORMAT

The TapeAlert interface on the tape drive/library can be configured via the SCSI bus, based on a new Mode page. The TapeAlert configuration capabilities of the device can be read using the Mode Sense command, and then any supported configuration options can be changed using the Mode Select command. All TapeAlert compliant devices must support this Mode page, though which fields are settable via Mode Select is device specific. The format of the TapeAlert Mode page is as follows:

	7	6	5	4	3	2	1	0
0	Page Code (0x1C)							
1	Page Length (0x0A)							
2	Perf	Reserved			DExcpt	Test	Reserved	LogErr
3	Reserved				MRIE			
4 5 6 7	Interval Timer							
8 9 10 11	Report Count / Test Flag Number							

The Page Code 0x1C and format of the TapeAlert Mode page is identical with the SMART disk diagnostic interface, and are intended to be fully compatible with the ANSI SCSI definition. The TapeAlert Mode page will return to default settings when a SCSI bus reset is received. The following fields are in the Mode page:

DExcpt (Default set to 1):
When this bit is set to zero the reporting method indicated by the MRIE field is used. When this bit is set to one this indicated that the target shall disable all information exception operations, ignoring the MRIE field (In this mode the software must poll the TapeAlert Log page). Thus to enable "check condition" mode set the bit to zero**.**
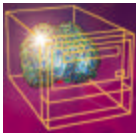
LogErr (Default set to 0):
When this bit is set to zero, this indicates that the logging of informational exception conditions within a target is vendor specific. When this bit is set to one, the target shall log informational exception conditions.

Perf (Default set to 0):
When this bit is set to zero, this indicates that informational exception operations that can cause delays are acceptable. When this bit is set to one, the target shall not cause delays while doing informational exception operations (may cause the target to disable some or all of the informational exception operations).

Test (Default set to 0):

When this bit is set to zero, this indicates that the target shall not generate any false/test informational exception conditions.
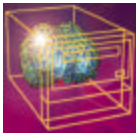
When this bit is set to one and Test Flag Number is set to zero, the target will generate a false informational exception condition based on the MRIE field (the Interval Timer field is ignored and the Report Count field is used as the Test Flag Number). When a false information exception condition is posted, the TapeAlert flags in the Log page are not modified. However, real informational exception conditions have priority over false informational exception conditions. The Test bit will be automatically cleared when the false information exception condition is posted on the first command (excluding Inquiry and Request Sense) that is received with no real information exception condition pending. The false informational exception condition will then be reported in the method specified by the MRIE value, except with the additional sense code set to 0x5DFF. If both the Test and DExcpt bits are set to one and Test Flag Number set to zero, then the MODE SELECT command will return Check Condition, with sense key set to Illegal Request and extended sense set to Invalid Field in Parameter List.

When the Test bit is set to one and the Test Flag Number is set to valid non-zero value, the target will generate/clear a test informational exception condition. The value of the Test bit returned by a Mode Sense command will remain at zero. The test action is based on the Test Flag Number value:

1 to 64:	This will set in the Log page the TapeAlert flag indicated by th e Test Flag Number. Once the TapeAlert flag is set it is processed normally based on the DExcpt, MRIE, Interval Count and Report Count values.
-1 to -64:	This will clear the TapeAlert flag indicated by the absolute value of the Test Flag Number. Clearing the flag in this way is equivalent to performing the specified corrective action for that flag, thus allowing a real information exception condition to be set if the real error condition occurs for that flag.
32767 (0x7FFF):	This will set in the Log page all of the TapeAlert flags that are supported by the target. Once the supported TapeAlert flags are set they are processed normally based on the DExcpt, MRIE, Interval Count and Report Count values.

Interval Timer (Default set to 0):

When this field is set to zero, this indicates that the target shall only report the informational exception condition one time. When this field is set to non-zero, the value indicates the period in 100 millisecond increments for reporting that an informational exception condition has occurred. The target shall not report informational exception conditions more frequently than the specified timer interval and as soon as possible after the timer interval has elapsed. A value of 0xFFFFFFFF in the field indicates the timer interval is vendor specific.

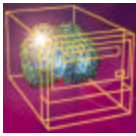**Report Count/Test Flag Number (Default set to 0):**

This field has a dual purpose. When the Test bit is set to zero, then the value of this field in the Mode Select data represents the Report Count, which is what is always returned in response to a Mode Sense command. When the Report Count field is set to zero, this indicates that there is no limit on the number of times the target shall report the informational exception condition (assuming that Interval Timer is set to non-zero). When the Report Count field is set to non-zero this indicates the number of times to report an informational exception condition. If multiple TapeAlert flags are set simultaneously, these are reported as a single informational exception condition. The report count is controlled by the newest flag that is set.

When a Mode Select command is sent with the Test bit is set to one, then the value of this field in the Mode Select data represents the Test Flag Number, which is never returned in response to a Mode Sense command. Valid vales of the Test Flag Number are –64 to 64 and 32677 (0x7FFF). Negative numbers are represented using the 2's complement method. If the Test Flag Number is set to an invalid value, then the Mode Select command will return Check Condition, with sense key set to Illegal Request and extended sense set to Invalid Field in Parameter List. If the device does not support Test Flag Number, then when the Test bit is set to one and the Test Flag Number is set to non-zero the Mode Select command will return Check Condition, with sense key set to Illegal Request and extended sense set to Invalid Field in Parameter List.

MRIE (Default set to 0x3):

This field indicates the method used by the target to report informational exception conditions (note that this is standard SCSI terminology and is not related in any way to the "Information" severity level for the flags). The priority of reporting informational exception conditions is vendor specific. If the informational exception condition was generated by an event that caused a real Check Condition to occur, then this real Check Condition will over-ride (i.e. be used instead of) the Check Condition defined in MRIE modes 0x1 to 0x5. The values defined for this field are:

0x0: **No reporting of informational exception conditions** This method instructs the device server to not report information exception conditions

0x1: **Asynchronous Event Reporting** This method instructs the device server to report information exception conditions by using the rules for asynchronous event reporting as described in the SCSI-3 Architecture Model and the relevant protocol standard. The sense key shall be set to RECOVERED ERROR and the additional sense code shall indicate the cause of the information exception condition (which is 5D00 for a TapeAlert event).

0x2: **Generate Unit Attention**. This method instructs the device server to report information exception conditions by returning a Check Condition status on the next SCSI command (excluding Inquiry and Request Sense) after an informational exception condition was detected. The sense key shall be set to UNIT ATTENTION and the additional sense code shall indicate the cause of the information exception condition (which is 5D00 for a TapeAlert event). The command that has the Check Condition shall NOT be executed before the informational exception condition is reported (and thus needs to be repeated).
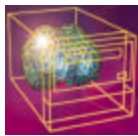
0x3: **Conditionally generate Recovered Error.** This method instructs the device server to report information exception conditions, if reporting of recovered errors is allowed, by returning a Check Condition status on the next SCSI command (excluding Inquiry and Request Sense) after an informational exception condition was detected. The sense key shall be set to RECOVERED ERROR and the additional sense code shall indicate the cause of the information exception condition (which is 5D00 for a TapeAlert event). The command that has the Check Condition shall complete without error before any exception condition may be reported (and thus does NOT need to be repeated).

0x4: **Unconditionally generate Recovered Error.** This method instructs the device server to report information exception conditions, regardless of the value of the per bit of the error recovery parameters mode page, by returning a Check Condition status on the next SCSI command (excluding Inquiry and Request Sense) after an informational exception condition was detected. The sense key shall be set to RECOVERED ERROR and the additional sense code shall indicate the cause of the information exception condition (which is 5D00 for a TapeAlert event). The command that has the Check Condition shall complete without error before any exception condition may be reported (and thus does NOT need to be repeated).

0x5: **Generate No Sense**. This method instructs the device server to report information exception conditions by returning a Check Condition status on the next SCSI command (excluding Inquiry and Request Sense) after an informational exception condition was detected. The sense key shall be set to NO SENSE and the additional sense code shall indicate the cause of the information exception condition (which is 5D00 for a TapeAlert event). The command that has the Check Condition shall complete without error before any exception condition may be reported (and thus does NOT need to be repeated).

0x6: **Only report informational exception condition on request** This method instructs the device server to preserve information exception(s) information. To find out about information exception conditions the application client polls the device server by issuing an unsolicited REQUEST SENSE command. The sense key shall be set to NO SENSE and the additional sense code shall indicate the cause of the informational exception condition (which is 5D00 for a TapeAlert event).

With MRIE modes 0x1 to 0x6, the additional sense code of 5D00 indicates that a TapeAlert event has occurred on the device, and detailed information about this event is stored in the TapeAlert Log page. Note that the MRIE modes do not effect the logging of events in the TapeAlert Log page.

A device may choose not to support any of the settable TapeAlert Mode page fields, but the recommended default capability is as follows:

DExcpt: When set to zero this enables TapeAlert reporting using the specified MRIE mode. By default, this means supporting MRIE mode 0x3 that generates a Recovered Error check condition (unless the device has been configured to not allow reporting of recovered errors).

Test: When set to one this provides the ability to generate false TapeAlert events, and also set/clear test TapeAlert flags using Test Flag Number.

Test Flag Number: When set to non-zero and Test set to one, this provides an interface to specify which TapeAlert flags to set/clear. Note that supporting Test Flag Number does not mean that Report Count is supported.

TAPEALERT DIAGNOSTIC
SPECIFICATION DOCUMENT

APPENDIX: LOCALISED ERROR MESSAGES

FRENCH TapeAlert ERROR MESSAGES
TAPE DRIVE/AUTOLOADER DEVICE TYPE

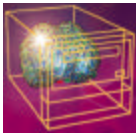| No.	Flag	Required Host Message
1	Read	Le lecteur de bande ne parvient pas à lire les données. Aucune donnée n'a été perdue, mais les performances de la bande sont réduites.
2	Write	Le lecteur de bande ne parvient à écrire les données. Celles-ci ne sont pas perdues, mais il s'est produit une réduction de la capacité de la bande.
3	Hard Error	L'opération s'est arrêtée : il s'est produit une erreur de lecture ou d'écriture des données, que le lecteur ne peut pas corriger.
4	Media	Risque de perte de vos données : 1. Copiez toutes les données de cette bande auxquelles vous tenez. 2. N'utilisez plus cette bande. 3. Recommencez l'opération avec une autre bande.
5	Read Failure	La bande est endommagée ou le lecteur est défaillant. Appelez le service d'assistance de votre fournisseur.
6	Write Failure	La bande provient d'un lot défaillant ou le lecteur est défaillant : 1. Utilisez une bande en bon état pour tester le lecteur. 2. Si le problème persiste, appelez le service d'assistance de votre fournisseur.
7	Media Life	La cartouche de bande a atteint la fin de sa durée de vie prévue: 1. Copiez toutes les données de cette bande auxquelles vous tenez. 2. Jetez cette bande.
8	Not Data Grade	La cartouche de bande utilisée n'est pas destinée à la sauvegarde de donnée : vous risquez de perdre toutes les données enregistrées. Remplacez cette cartouche par une cartouche de sauvegarde de données.
9	Write Protect	Vous avez tenté d'enregistrer des données sur une cartouche protégée en écriture. Retirez la protection en écriture ou utilisez une autre bande.
10	No Removal	Vous ne parvenez pas à retirer la cartouche du lecteur parce que celui-ci est en activité. Attendez la fin de l'opération en cours pour retirer la cartouche.
11	Cleaning Media	La cartouche utilisée est une cartouche de nettoyage des têtes de lecture.
12	Unsupported Format	Vous avez tenté de charger une cartouche non compatible avec ce lecteur.
13	Recoverable Snapped Tape	L'opération a échoué parce que la bande utilisée a cassé. 1. Jetez la cartouche. 2. Recommencez l'opération avec une autre bande.
14	Unrecoverable Snapped Tape	L'opération a échoué parce que la bande dans l'unité s'est arrachée : 1. Ne tentez pas d'extraire la cartouche de bande. 2. Appelez le service d'assistance du fournisseur de l'unité de bande.
15	Memory Chip in Cartridge Failure	La mémoire de la cartouche de bande est défectueuse, ce qui réduit les performances. N'utilisez plus cette cartouche pour les sauvegardes ultérieures.
16	Forced Eject	L'opération a échoué parce que la cartouche de bande a été éjectée manuellement pendant une écriture ou une lecture de l'unité.
17	Read Only Format	Vous avez chargé dans cette unité une cartouche ayant un attribut de lecture seule. La cartouche apparaîtra comme protégée en écriture.
18	Tape Directory Corrupted	Le répertoire de la cartouche de bande est corrompu. Les performances de recherche de fichier seront dégradées. Le répertoire de bande peut être reconstruit en lisant les données présentes sur la cartouche.
19	Nearing Media Life	La cartouche de bande est usagée. Nous vous recommandons : 1. D'utiliser une autre bande pour votre sauvegarde ; 2. De conserver cette cartouche usagée en lieu sûr au cas où vous auriez besoin de récupérer les données sauvegardées.

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No.	Flag	Required Host Message
20	Clean Now	Le lecteur de bande a besoin d'être nettoyé : 1. Si l'opération est terminée, retirez la cartouche et nettoyez les têtes. 2. Si l'opération n'est pas terminée, attendez qu'elle le soit et nettoyez les têtes. Reportez-vous au manuel d'utilisation de l'unité de bande pour les instructions de nettoyage spécifiques à ce périphérique.
21	Clean Periodic	Le nettoyage de routine du lecteur de bande doit être effectué : 1. Attendez la fin de l'opération en cours. 2. Utilisez une cartouche de nettoyage. Reportez-vous au manuel d'utilisation de l'unité de bande pour les instructions de nettoyage spécifiques à ce périphérique.
22	Expired Cleaning Media	La dernière cartouche de nettoyage utilisée est hors d'usage : 1. Jetez-la. 2. Attendez la fin de l'opération en cours. 3. Utilisez une cartouche de nettoyage neuve.
23	Invalid Cleaning Tape	La dernière cartouche de nettoyage utilisée dans l'unité de bande est d'un type incorrect : 1. N'utilisez pas cette cartouche de nettoyage dans cette unité. 2. Attendez que l'opération en cours soit terminée. 3. Puis utilisez une cartouche de nettoyage d'un type correct.
24	Retention Requested	Le lecteur de bande exige que la bande soit retendue
25	Dual-Port Interface Error	Un port d'interface redondant sur le lecteur de bande est défaillant
26	Cooling Fan Failure	Un des ventilateurs du lecteur de bande est défaillant.
27	Power Supply	Une défaillance est survenue au niveau de l'alimentation redondante, à l'intérieur du boîtier du lecteur de bande. Consultez la Guide d'utilisation du boîtier pour savoir comment remplacer l'alimentation défaillante.
28	Power Consumption	La consommation électrique du lecteur de bande est en dehors de la plage spécifiée
29	Drive Maintenance	Une maintenance préventive de l'unité de bande est nécessaire. Reportez-vous au manuel d'utilisation de l'unité de bande pour déterminer les tâches de maintenance préventive spécifiques à effectuer ou appelez le service d'assistance du fournisseur de l'unité de bande.
30	Hardware A	Le lecteur ou le système de sauvegarde présente une défaillance matérielle : 1. Retirez la bande ou le magasin de bandes. 2. Réinitialisez le lecteur. 3. Recommencez l'opération.
31	Hardware B	Le lecteur ou le système de sauvegarde présente une défaillance matérielle : 1. Mettez-le hors tension, puis à nouveau sous tension. 2. Recommencez l'opération. 3. Si le problème persiste, appelez le service d'assistance de votre fournisseur. Reportez-vous au manuel d'utilisation de l'unité de bande pour savoir comment allumer et éteindre ce périphérique.
32	Interface	Le lecteur de bande a un problème d'interface hôte: 1. Vérifiez les câbles et leurs connexions. 2. Recommencez l'opération.
33	Eject Media	L'opération a échoué : 1. Retirez la bande ou le magasin de bandes. 2. Réinsérez la bande ou le magasin de bandes. 3. Recommencez l'opération.
34	Download Fail	Le téléchargement des microprogrammes a échoué parce que vous avez tenté d'utiliser des microprogrammes ne convenant pas à ce lecteur de bande. Procurez-vous les microprogrammes appropriés et ré-essayez.
35	Drive Humidity	Le niveau d'humidité à l'intérieur du lecteur de bande est en dehors de la plage d'humidité spécifiée
36	Drive	La température à l'intérieur du lecteur de bande est en dehors de la plage de température spécifiée

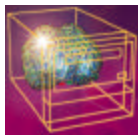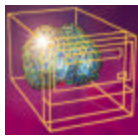|	Temperature	
37	Drive Power	L'alimentation du lecteur de bande est en dehors de la plage spécifiée

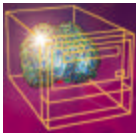| No.	Flag	Required Host Message
38	Predictive Failure	Une panne matérielle de l'unité de bande est prévisible. Appelez le service d'assistance du fournisseur de l'unité de bande.
39	Diagnostics Required	Le lecteur de bande peut être défaillant. Vérifiez si les informations de diagnostic sont disponibles et, le cas échéant, lancez les tests étendus. Consultez le Guide d'utilisation du lecteur de bande pour connaître la procédure d'exécution de tests étendus et pour savoir comment récupérer des données de diagnostic
40	Loader Hardware A	Le mécanisme de chargement automatique des bandes a des difficultés à communiquer avec le lecteur de bande : 1. Mettez l'autochargeur hors tension, puis à nouveau sous tension. 2. Recommencez l'opération. 3. Si le problème persiste, appelez le service d'assistance de votre fournisseur.
41	Loader Stray Tape	Une bande est restée dans l'autochargeur du fait d'une erreur matérielle précédente : 1. Insérez un magasin vide pour effacer l'erreur. 2. Si l'erreur persiste, mettez l'autochargeur hors tension, puis à nouveau sous tension. 3. Si le problème persiste, appelez le service d'assistance de votre fournisseur.
42	Loader Hardware B	Le mécanisme de l'autochargeur est défectueux.
43	Loader Door	L'opération a échoué parce que la porte de l'autochargeur est restée ouverte. 1. Vérifiez que rien ne gêne la fermeture de la porte. 2. Retirez le magasin de bandes et réinsérez-le. 3. Si l'erreur persiste, mettez l'autochargeur hors tension, puis à nouveau sous tension. 4. Si le problème persiste, appelez le service d'assistance de votre fournisseur.
44	Loader Hardware C	Le chargeur automatique est défectueux : 1. Eteignez puis rallumez le chargeur automatique. 2. Recommencez l'opération. 3. Si le problème persiste, appelez le service d'assistance du fournisseur de l'unité de bande. Reportez-vous au manuel d'utilisation du chargeur automatique pour savoir comment allumer et éteindre ce périphérique.
45	Loader Magazine	Le chargeur automatique ne peut fonctionner sans magasin. 1. Insérez le magasin dans le chargeur automatique. 2. Recommencez l'opération.
46	Loader Predictive Failure	Une panne matérielle du mécanisme du changeur est prévisible. Appelez le service d'assistance du fournisseur de l'unité de bande.
50	Lost Statistics	Les statistiques sur les supports ont été égarées
51	Tape directory invalid at unload	Le répertoire de la bande sur la cartouche de bande qui vient d'être déchargée est corrompu. Les performances de recherche de fichier seront dégradées. Le répertoire de bande peut être reconstruit en lisant les données présentes sur la cartouche.
52	Tape system area write failure	La bande qui vient d'être déchargée n'a pas réussi à écrire sur sa zone système 1. Copiez toutes les données de cette bande auxquelles vous tenez. 2. Jetez cette bande.
53	Tape system area read failure	La zone système n'a pu être lue lors du chargement 1. Copiez toutes les données de cette bande auxquelles vous tenez. 2. Jetez cette bande.
54	No start of data	Les données du début n'ont pu être localisées sur la bande : 1. Vérifiez que vous utilisez le format de bande approprié 2. Jetez la bande ou rapportez-la à votre fournisseur

TAPEALERT DIAGNOSTIC
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STAND-ALONE CHANGER DEVICE TYPE

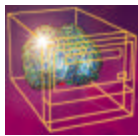| No.	Flag	Required Host Message
1	Library Hardware A	Le mécanisme de la librairie a des difficultés pour communiquer avec le lecteur : 1. Eteignez puis rallumez la librairie. 2. Recommencez l'opération. 3. Si le problème persiste, appelez le service d'assistance du fournisseur de la librairie.
2	Library Hardware B	Le mécanisme de la librairie présente un problème. S'il persiste, appelez le service d'assistance du fournisseur de la librairie.
3	Library Hardware C	La librairie présente un défaut matériel : 1. Réinitialisez la librairie. 2. Recommencez l'opération. Reportez-vous au manuel d'utilisation de la librairie pour savoir comment réinitialiser ce périphérique.
4	Library Hardware D	La librairie présente un défaut matériel : 1. Eteignez puis rallumez la librairie. 2. Recommencez l'opération. 3. Si le problème persiste, appelez le service d'assistance du fournisseur de la librairie. Reportez-vous au manuel d'utilisation de la librairie pour savoir comment allumer et éteindre ce périphérique.
5	Library Diagnostics Required	Le mécanisme de la librairie peut présenter un défaut. Exécutez les diagnostics étendus pour vérifier et déterminer la nature du problème. Reportez-vous au manuel d'utilisation de la librairie pour savoir comment exécuter les diagnostics étendus spécifiques à ce périphérique.
6	Library Interface	La librairie a un problème avec l'interface hôte : 1. Vérifiez les câbles et leurs branchements. 2. Recommencez l'opération.
7	Predictive Failure	Une panne matérielle de la librairie est prévisible. Appelez le service d'assistance du fournisseur de la librairie.
8	Library Maintenance	Une maintenance préventive de la librairie est nécessaire. Reportez-vous au manuel d'utilisation de la librairie pour déterminer les tâches de maintenance préventive spécifiques à effectuer, ou appelez le service d'assistance du fournisseur de la librairie.
9	Library Humidity	Le niveau d'humidité à l'intérieur de la librairie est en dehors de la plage d'humidité spécifiée
10	Library Temperature	La température à l'intérieur de la librairie est en dehors de la plage spécifiée
11	Library Power Limits	La tension d'alimentation de la librairie dépasse la limite spécifiée. Il y a un problème avec l'alimentation redondante ou la tension d'entrée
12	Library Stray Tape	Une cartouche a été laissée dans un lecteur à l'intérieur de la librairie par un problème matériel précédent : 1. Insérez un magasin vide pour faire disparaître le défaut. 2. Si le défaut ne disparaît pas, éteignez la librairie puis rallumez-la. 3. Si le problème persiste, appelez le service d'assistance du fournisseur de la librairie.
13	Library Pick Retry	Il y a un problème potentiel avec un lecteur éjectant des cartouches prématurément ou avec le mécanisme de la librairie lorsqu'il prend une cartouche dans un logement. 1. Il n'y a rien à faire pour le moment. 2. Si le problème persiste, appelez le service d'assistance du fournisseur de la librairie.
14	Library Place Retry	Il y a un problème potentiel avec le mécanisme de la librairie lorsqu'il range une cartouche dans un logement. 1. Il n'y a rien à faire pour le moment. 2. Si le problème persiste, appelez le service d'assistance du fournisseur de la librairie.
15	Library Load Retry	Il y a un problème potentiel avec un lecteur ou le mécanisme de la librairie lorsqu'il charge des cartouches, ou une cartouche incompatible.
16	Library Door	L'opération a échoué parce que la porte de la librairie est ouverte : 1. Retirez tout objet gênant la porte de la librairie. 2. Fermez la porte de la librairie. 3. Si le problème persiste, appelez le service d'assistance du fournisseur de la librairie.
17	Library Mailslot	Il y a problème mécanique dans le chargeur du support.

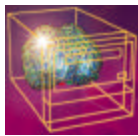| No.	Flag	Required Host Message
18	Library Magazine	La librairie ne peut pas fonctionner sans magasin. 1. Insérez le magasin dans la librairie. 2. Recommencez l'opération.
19	Library Security	La sécurité de la librairie a été compromise.
20	Library Security Mode	Le mode de sécurité de la librairie a été modifié. La librairie a été placée en mode de sécurité, ou a quitté le mode de sécurité. Ceci est pour information seulement. Aucune action n'est nécessaire.
21	Library Offline	La librairie a été mise hors ligne manuellement et son utilisation est impossible.
22	Library Drive Offline	Un lecteur à l'intérieur de la librairie a été mis hors ligne. Ceci est pour information seulement. Aucune action n'est nécessaire.
23	Library Scan Retry	Il y a un problème potentiel avec l'étiquette à code à barres ou avec le scanner du mécanisme de la librairie. 1. Il n'y a rien à faire pour le moment. 2. Si le problème persiste, appelez le service d'assistance du fournisseur de la librairie.
24	Library Inventory	La librairie a détecté une incohérence dans son inventaire. 1. Refaire l'inventaire de la librairie pour corriger l'incohérence. 2. Recommencez l'opération. Reportez-vous au manuel d'utilisation des applications ou au manuel d'utilisation du matériel pour savoir comment refaire l'inventaire de la librairie.
25	Library Illegal Operation	Une opération non autorisée à ce moment a été tentée sur la librairie.
26	Dual-Port Interface Error	Un des ports d'interface redondant de la librairie est défaillant
27	Cooling Fan Failure	Un des ventilateurs de la librairie est défaillant.
28	Power Supply	Une des alimentations redondantes de la librairie est défaillante. Consultez son Guide d'utilisation pour savoir comment remplacer l'alimentation défaillante.
29	Power Consumption	La consommation électrique du lecteur de bande est en dehors de la plage spécifiée
30	Pass-through mechansim failure	Le mécanisme de circulation de la cartouche reliant deux modules de la librairie est défaillant.
31	Cartridge in pass-through mechanism	Suite à un problème matériel, une cartouche est restée dans le mécanisme de circulation de la cartouche de la librairie. Consultez le Guide d'utilisation de la librairie pour savoir comment résoudre le problème.
32	Unreadable bar code labels	La librairie n'a pas pu lire le code barre de la cartouche
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TAPEALERT DIAGNOSTIC
SPECIFICATION DOCUMENT

GERMAN TapeAlert ERROR MESSAGES

TAPE DRIVE/AUTOLOADER DEVICE TYPE

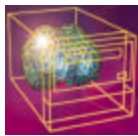| No.	Flag	Required Host Message
1	Read	Das Bandlaufwerk hat Probleme beim Lesen von Daten. Es ist kein Datenverlust eingetreten, jedoch hat sich die Leistung der Kassette verringert.
2	Write	Das Bandlaufwerk hat Probleme beim Schreiben von Daten. Es sind keine Daten verlorengegangen ; es kam jedoch zu einer Verringerung der Bandkapazität.
3	Hard Error	Der Vorgang wurde angehalten, da ein Fehler beim Lesen oder Schreiben von Daten aufgetreten ist, den das Laufwerk nicht korrigieren kann.
4	Media	Es besteht die Gefahr von Datenverlust: 1. Kopieren Sie alle benötigten Daten auf einen anderen Datenträger. 2. Verwenden Sie dieses Band nicht mehr. 3. Wiederholen Sie den Vorgang mit einem anderen Band.
5	Read Failure	Das Band ist beschädigt oder das Laufwerk fehlerhaft. Wenden Sie sich an den Hersteller des Bandlaufwerks.
6	Write Failure	Das Band kommt aus einem fehlerhaften Lauf, oder das Bandlaufwerk ist fehlerhaft. 1. Verwenden Sie ein unbeschädigtes Band, um das Laufwerk zu testen. 2. Besteht das Problem auch weiterhin, so wenden Sie sich an den Hersteller des Bandlaufwerks.
7	Media Life	Die Bandkassette hat das Ende ihrer berechneten Lebensdauer erreicht: 1. Kopieren Sie alle benötigten Daten auf ein anderes Band 2. Entsorgen Sie das alte Band.
8	Not Data Grade	Die Bandkassette entspricht nicht dem Datenstandard. Bei Daten, die Sie auf das Band speichern, besteht die Gefahr von Datenverlust. Ersetzen Sie das Band durch ein Band nach Datenstandard.
9	Write Protect	Sie versuchen, auf eine schreibgeschützte Bandkassette zu schreiben. Entfernen Sie den Schreibschutz oder verwenden Sie ein anderes Band.
10	No Removal	Die Bandkassette kann nicht ausgeworfen werden, da das Bandlaufwerk gerade verwendet wird. Warten Sie vor dem Auswerfen der Kassette, bis der Vorgang abgeschlossen ist.
11	Cleaning Media	Das Band im Laufwerk ist ein Reinigungsband.
12	Unsupported Format	Sie haben versucht, eine Bandkassette einzulegen, deren Typ von diesem Laufwerk nicht unterstützt wird.
13	Recoverable Snapped Tape	Der Vorgang ist fehlgeschlagen, da das Band im Laufwerk gerissen ist. 1. Entsorgen Sie das alte Band. 2. Wiederholen Sie den Vorgang mit einem anderen Band.
14	Unrecoverable Snapped Tape	Die Operation ist fehlgeschlagen, da die Kassette im Laufwerk beschädigt ist: 1. Versuchen Sie nicht, die Kassette aus dem Bandlaufwerk zu nehmen. 2. Wenden Sie sich an den Kundendienst des Lieferanten des Bandlaufwerks.
15	Memory Chip in Cartridge Failure	Der Speicher in der Kassette ist fehlerhaft, dadurch verringert sich die Leistung. Verwenden Sie die Kassette nicht mehr für weitere Datensicherungen.
16	Forced Eject	Die Operation ist fehlgeschlagen, da die Kassette manuell ausgeworfen wurde, während das Bandlaufwerk einen Schreib- oder Lesevorgang durchführte
17	Read Only Format	Sie haben einen Kassettentyp eingelegt, der in diesem Laufwerk nur gelesen werden kann. Die Kassette erscheint als schreibgeschützt.
18	Tape Directory Corrupted	Das Verzeichnis auf der Bandkassette wurde beschädigt. Die Dateisuchfunktion ist eingeschränkt. Das Kassettenverzeichnis kann wiederhergestellt werden, indem alle auf der Kassette vorhandenen Daten gelesen werden.
19	Nearing Media Life	Die Kassette nähert sich dem Ende ihrer Nutzungsdauer. Führen Sie die folgenden Schritte durch: 1. Verwenden Sie für Ihre nächste Datensicherung eine andere Kassette. 2. Bewahren Sie diese Kassette an einem sicheren Ort auf, falls Sie von dieser zu einem späteren Zeitpunkt Daten zurückladen müssen.

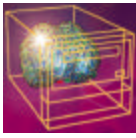| No.	Flag	Required Host Message
20	Clean Now	Das Bandlaufwerk muß gereinigt werden: 1. Ist der Vorgang zu Ende, so entnehmen Sie das Band, und reinigen Sie das Laufwerk. 2. Ist der Vorgang noch nicht zu Ende, warten Sie, bis er abgeschlossen ist, und reinigen dann das Laufwerk. Lesen Sie im Benutzerhandbuch zum Bandlaufwerk die gerätespezifischen Reinigungsanweisungen.
21	Clean Periodic	Es wird Zeit, das Bandlaufwerk zu reinigen: 1. Warten Sie auf das Ende des aktiven Vorgangs. 2. Legen Sie ein Reinigungsband ein. Lesen Sie im Benutzerhandbuch zum Bandlaufwerk die gerätespezifischen Reinigungsanweisungen.
22	Expired Cleaning Media	Das Reinigungsband, das zuletzt in dem Laufwerk verwendet wurde, ist abgenutzt. 1. Entsorgen Sie das abgenutzte Reinigungsband. 2. Warten Sie auf das Ende des aktiven Vorgangs. 3. Legen Sie ein neues Reinigungsband ein.
23	Invalid Cleaning Tape	Der zuletzt im Bandlaufwerk verwendete Reinigungskassettentyp war nicht zulässig: 1. Verwenden Sie diese Reinigungskassette nicht in diesem Laufwerk. 2. Warten Sie, bis der derzeitige Vorgang abgeschlossen ist. 3. Verwenden Sie dann eine zulässige Reinigungskassette.
24	Retention Requested	Das Bandlaufwerk hat ein Straffen des Bandes angefordert.
25	Dual-Port Interface Error	Am Bandlaufwerk ist ein redundanter Schnittstellenanschluß ausgefallen .
26	Cooling Fan Failure	Am Bandlaufwerk ist ein Ventilator ausgefallen .
27	Power Supply	Im Gehäuse des Bandlaufwerks ist ein redundantes Netzteil ausgefallen. Schlagen Sie im Benutzerhandbuch zum Gehäuse nach. Dort finden Sie Anweisungen für das Austauschen des ausgefallenen Netzteils.
28	Power Consumption	Der Stromverbrauch des Bandlaufwerks liegt außerhalb des zulässigen Grenzwertes.
29	Drive Maintenance	Eine vorbeugende Wartung des Bandlaufwerks ist erforderlich. Lesen Sie im Benutzerhandbuch zum Bandlaufwerk die gerätespezifischen Aufgaben zur vorbeugenden Wartung, oder wenden Sie sich telefonisch an den Kundendienst des Lieferanten des Bandlaufwerks.
30	Hardware A	Bei dem Bandlaufwerk ist ein Gerätefehler aufgetreten: 1. Entnehmen Sie das Band oder das Magazin. 2. Setzen Sie das Band auf die Grundeinstellungen zurück. 3. Wiederholen Sie den Vorgang.
31	Hardware B	Bei dem Bandlaufwerk ist ein Gerätefehler aufgetreten: 1. Schalten Sie das Laufwerk aus und wieder ein. 2. Wiederholen Sie den Vorgang. 3. Besteht das Problem auch weiterhin, so wenden Sie sich an den Hersteller des Laufwerks. Lesen Sie im Benutzerhandbuch zum Bandlaufwerk die gerätespezifischen Anweisungen zum Ein- und Ausschalten des Laufwerks.
32	Interface	Es gibt ein Problem zwischen dem Bandlaufwerk und der Host-Schnittstelle: 1. Prüfen Sie die Verbindungskabel und die Stecker. 2. Wiederholen Sie den Vorgang.
33	Eject Media	Der Vorgang ist fehlgeschlagen: 1. Entnehmen Sie das Band oder das Magazin. 2. Legen Sie das Band oder das Magazin erneut ein. 3. Wiederholen Sie den Vorgang.
34	Download Fail	Das Herunterladen der Firmware ist fehlgeschlagen, da Sie versucht haben, eine ungültige Firmware für dieses Laufwerk zu verwenden. Besorgen Sie die richtige Firmware, und versuchen Sie es nochmals.
35	Drive Humidity	Die im Bandlaufwerk vorherrschende Luftfeuchtigkeit liegt außerhalb des zulässigen Grenzwertes.
36	Drive Temperature	Die im Bandlaufwerk vorherrschende Temperatur liegt außerhalb des zulässigen Grenzwertes.
37	Drive Power	Die Spannungsversorgung des Bandlaufwerks liegt außerhalb des zulässigen Grenzwertes.

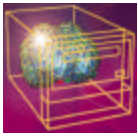| No.	Flag	Required Host Message
38	Predictive Failure	Es wurde ein bevorstehender Hardware-Ausfall am Bandlaufwerk erkannt. Wenden Sie sich telefonisch an den Kundendienst des Lieferanten des Bandlaufwerks.
39	Diagnostics Required	Das Bandlaufwerk ist eventuell defekt. Prüfen Sie, ob Diagnoseinformationen vorliegen, und führen Sie die erweiterten Diagnosetests durch (sofern möglich). Schlagen Sie im Benutzerhandbuch zum Bandlaufwerk nach. Dort finden Sie Anweisungen zum Ausführen der erweiterten Diagnosetests und Abfragen der Diagnosedaten.
40	Loader Hardware A	Es gibt Probleme bei der Kommunikation zwischen dem Wechselmechanismus und dem Bandlaufwerk: 1. Schalten Sie den Autoloader aus und wieder ein. 2. Wiederholen Sie den Vorgang. 3. Besteht das Problem auch weiterhin, so wenden Sie sich an den Hersteller des Laufwerks.
41	Loader Stray Tape	Bei einem vorhergehenden Gerätefehler blieb ein Band im Autoloader: 1. Legen Sie ein leeres Magazin ein, um den Fehler zu bereinigen. 2. Wird der Fehler nicht bereinigt, schalten Sie den Autoloader aus und wieder ein. 3. Besteht das Problem auch weiterhin, so wenden Sie sich an den Hersteller des Laufwerks.
42	Loader Hardware B	Es gibt ein Problem mit dem Autoloader-Mechanismus.
43	Loader Door	Der Vorgang ist fehlgeschlagen, da die Klappe des Autoloaders geöffnet ist: 1. Entfernen Sie alle Hindernisse von der Klappe des Autoloaders. 2. Entnehmen Sie das Magazin, und legen Sie es erneut ein. 3. Wird der Fehler hierdurch nicht behoben, schalten Sie den Autoloader aus und wieder ein. 4. Besteht das Problem auch weiterhin, so wenden Sie sich an den Hersteller des Laufwerks.
44	Loader Hardware C	Am Autoloader liegt ein Hardware-Fehler vor: 1. Schalten Sie den Autoloader aus und dann wieder ein. 2. Wiederholen Sie den Vorgang. 3. Wenn das Problem weiterhin besteht, wenden Sie sich telefonisch an den Kundendienst des Lieferanten des Bandlaufwerks. Lesen Sie im Benutzerhandbuch zum Autoloader die gerätespezifischen Anweisungen zum Ein- und Ausschalten des Gerätes.
45	Loader Magazine	Der Autoloader kann nicht ohne Magazin betrieben werden. 1. Legen Sie das Magazin im Autoloader ein. 2. Wiederholen Sie den Vorgang.
46	Loader Predictive Failure	Es wurde ein bevorstehender Hardware-Ausfall am Wechselmechanismus erkannt. Wenden Sie sich telefonisch an den Kundendienst des Lieferanten des Bandlaufwerks.
50	Lost Statistics	Die statistischen Mediendaten sind irgendwann in der Vergangenheit verlorengegangen.
51	Tape directory invalid at unload	Das Kassettenverzeichnis auf der soeben ausgegebenen Kassette wurde beschädigt. Die Dateisuchfunktion ist eingeschränkt. Das Kassettenverzeichnis kann wiederhergestellt werden, indem alle auf der Kassette vorhandenen Daten gelesen werden.
52	Tape system area write failure	Die soeben ausgegebene Kassette konnte nicht ihren Systembereich erfolgreich beschreiben. 1. Kopieren Sie alle benötigten Daten auf ein anderes Band 2. Entsorgen Sie das alte Band.
53	Tape system area read failure	Der Systembereich der Kassette konnte beim Laden nicht erfolgreich gelesen werden. 1. Kopieren Sie alle benötigten Daten auf ein anderes Band 2. Entsorgen Sie das alte Band.
54	No start of data	Auf der Kassette konnte der Anfang der Daten nicht gefunden werden: 1. Prüfen Sie, ob Sie das korrekte Kassettenformat verwenden. 2. Entsorgen Sie die Kassette, oder bringen Sie diese zu Ihrem Händler.

TAPEALERT DIAGNOSTIC
SPECIFICATION DOCUMENT

STAND-ALONE CHANGER DEVICE TYPE

No.	Flag	Required Host Message
1	Library Hardware A	Der Bibliotheksmechanismus kann nicht mit dem Laufwerk kommunizieren: 1. Schalten Sie die Bibliothek aus und dann wieder ein. 2. Wiederholen Sie den Vorgang. 3. Wenn das Problem weiterhin besteht, wenden Sie sich telefonisch an den Kundendienst des Lieferanten der Bibliothek.
2	Library Hardware B	Es liegt ein Problem mit dem Bibliotheksmechanismus vor. Wenn das Problem weiterhin besteht, wenden Sie sich telefonisch an den Kundendienst des Lieferanten der Bibliothek.
3	Library Hardware C	An der Bibliothek liegt ein Hardware-Fehler vor: 1. Setzen Sie die Bibliothek zurück. 2. Wiederholen Sie den Vorgang. Lesen Sie im Benutzerhandbuch zur Bibliothek die gerätespezifischen Anweisungen zum Zurücksetzen des Gerätes.
4	Library Hardware D	An der Bibliothek liegt ein Hardware-Fehler vor: 1. Schalten Sie die Bibliothek aus und dann wieder ein. 2. Wiederholen Sie den Vorgang. 3. Wenn das Problem weiterhin besteht, wenden Sie sich telefonisch an den Kundendienst des Lieferanten der Bibliothek. Lesen Sie im Benutzerhandbuch zur Bibliothek die gerätespezifischen Anweisungen zum Ein- und Ausschalten des Gerätes.
5	Library Diagnostics Required	Am Bibliotheksmechanismus liegt möglicherweise ein Hardware-Fehler vor . Überprüfen und diagnostizieren Sie das Problem mit den erweiterten Diagnosetests. Lesen Sie im Benutzerhandbuch zur Bibliothek die gerätespezifischen Anweisungen zum Ausführen der erweiterten Diagnosetests.
6	Library Interface	Bei der Bibliothek liegt ein Problem mit der Host-Schnittstelle vor: 1. Überprüfen Sie die Kabel und Kabelverbindungen. 2. Wiederholen Sie den Vorgang.
7	Predictive Failure	Es wurde ein bevorstehender Hardware-Ausfall an der Bibliothek erkannt. Wenden Sie sich telefonisch an den Kundendienst des Lieferanten der Bibliothek.
8	Library Maintenance	Eine vorbeugende Wartung der Bibliothek ist erforderlich. Lesen Sie im Benutzerhandbuch zur Bibliothek die gerätespezifischen Aufgaben zur vorbeugenden Wartung, oder wenden Sie sich telefonisch an den Kundendienst des Lieferanten der Bibliothek.
9	Library Humidity Limits	Die in der Bibliothek vorherrschende Luftfeuchtigkeit liegt außerhalb des zulässigen Grenzwertes.
10	Library Temperature Limits	Die in der Bibliothek vorherrschende Temperatur liegt außerhalb des zulässigen Grenzwertes.
11	Library Power Limits	Die Spannungsversorgung der Bibliothek liegt außerhalb des zulässigen Grenzwertes. Möglicherweise liegt ein Problem mit der Stromversorgung vor, oder ein redundantes Netzteil ist ausgefallen.
12	Library Stray Tape	Aufgrund eines vorangegangenen Hardware-Fehlers befindet sich noch eine Kassette in einem Laufwerk innerhalb der Bibliothek: 1. Setzen Sie ein leeres Magazin ein, um den Fehler zu beheben. 2. Wenn der Fehler nicht behoben ist, schalten Sie die Bibliothek aus und dann wieder ein. 3. Wenn das Problem weiterhin besteht, wenden Sie sich telefonisch an den Kundendienst des Lieferanten der Bibliothek.
13	Library Pick Retry	Möglicherweise liegt ein Problem beim Auswerfen von Kassetten bei einem Laufwerk oder beim Aufnehmen einer Kassette aus einem Fach in den Bibliotheksmechanismus vor. 1. An dieser Stelle sind keine weiteren Schritte erforderlich. 2. Wenn das Problem weiterhin besteht, wenden Sie sich telefonisch an den Kundendienst des Lieferanten des Bandlaufwerks.

TAPEALERT DIAGNOSTIC
SPECIFICATION DOCUMENT

No.	Flag	Required Host Message
14	Library Place Retry	Möglicherweise liegt ein Problem mit dem Bibliotheksmechanismus beim Einsetzen einer Kassette in einem Fach vor. 1. An dieser Stelle sind keine weiteren Schritte erforderlich. 2. Wenn das Problem weiterhin besteht, wenden Sie sich telefonisch an den Kundendienst des Lieferanten des Bandlaufwerks.
15	Library Load Retry	Möglicherweise liegt ein Problem mit einem Laufwerk oder dem Bibliotheksmechanismus beim Laden einer Kassette oder einer inkompatiblen Kassette vor.
16	Library Door	Der Vorgang ist fehlgeschlagen, da die Tür der Bibliothek offen ist: 1. Entfernen Sie etwaige Hindernisse von der Tür der Bibliothek. 2. Schließen Sie die Tür der Bibliothek. 3. Wenn das Problem weiterhin besteht, wenden Sie sich telefonisch an den Kundendienst des Lieferanten der Bibliothek.
17	Library Mailslot	Es liegt ein mechanisches Problem mit der Öffnung zum Einlegen/Entnehmen von Medien bei der Bibliothek vor.
18	Library Magazine	Die Bibliothek kann nicht ohne Magazin betrieben werden. 1. Legen Sie das Magazin in die Bibliothek ein. 2. Wiederholen Sie den Vorgang.
19	Library Security	Die Sicherheit der Bibliothek ist in Gefahr.
20	Library Security Mode	Der Sicherheitsmodus der Bibliothek wurde geändert. Die Bibliothek wurde entweder in den Sicherheitsmodus versetzt, oder die Bibliothek hat den Sicherheitsmodus beendet. Dieser Hinweis dient nur zur Information. Es sind keine weiteren Schritte erforderlich.
21	Library Offline	Die Bibliothek wurde manuell offline geschaltet und kann nicht verwendet werden.
22	Library Drive Offline	Ein Laufwerk innerhalb der Bibliothek wurde offline geschaltet. Dieser Hinweis dient nur zur Information. Es sind keine weiteren Schritte erforderlich.
23	Library Scan Retry	Möglicherweise liegt ein Problem mit dem Strichcodeaufkleber oder der Scanner-Hardware im Bibliotheksmechanismus vor. 1. An dieser Stelle sind keine weiteren Schritte erforderlich. 2. Wenn das Problem weiterhin besteht, wenden Sie sich telefonisch an den Kundendienst des Lieferanten des Bandlaufwerks.
24	Library Inventory	Die Bibliothek hat in ihrem Bestand eine Inkonsistenz erkannt. 1. Machen Sie die Erstellung des Bibliotheksbestands rückgängig, um die Inkonsistenz zu beseitigen. 2. Wiederholen Sie den Vorgang. Lesen Sie im Benutzerhandbuch zu den Anwendungen oder zur Hardware die gerätespezifischen Anweisungen zum Rückgängigmachen des Bibliotheksbestands.
25	Library Illegal Operation	An dieser Stelle wurde versucht, eine unzulässige Bibliotheksfunktion durchzuführen.
26	Dual-Port Interface Error	In der Bibliothek ist ein redundanter Schnittstellenanschluß ausgefallen.
27	Cooling Fan Failure	In der Bibliothek ist ein Ventilator ausgefallen.
28	Power Supply	In der Bibliothek ist ein redundantes Netzteil ausgefallen. Schlagen Sie im Benutzerhandbuch zur Bibliothek nach. Dort finden Sie Anweisungen für das Austauschen des ausgefallenen Netzteils.
29	Power Consumption	Der Stromverbrauch der Bibliothek liegt außerhalb des zulässigen Grenzwertes.
30	Pass-through mech failure	Im Kassettenübergabemechanismus zwischen zwei Bibliotheksmodulen ist ein Fehler aufgetreten.
31	Cartridge in pass-through mechanism	Aufgrund eines früheren Hardware-Fehlers befindet sich im Kassettenübergabemechanismus noch eine Kassette. Anweisungen zur Behebung dieses Fehlers finden Sie im Benutzerhandbuch zur Bibliothek.
32	Unreadable	Die Bibliothek konnte den Balkencode auf einer Kassette nicht lesen.

	bar code labels	
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TAPEALERT DIAGNOSTIC
SPECIFICATION DOCUMENT

SPANISH TapeAlert ERROR MESSAGES

TAPE DRIVE/AUTOLOADER DEVICE TYPE

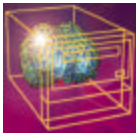| No.	Flag	Required Host Message
1	Read	La unidad de cintas tiene problemas para leer datos. No se ha perdido información, pero ha bajado el rendimiento de la cinta.
2	Write	La unidad de cintas tiene problemas para escribir datos. No ha habido pérdida de datos, pero se ha producido una reducción en la capacidad de la cinta.
3	Hard Error	La operación se ha detenido porque durante la lectura o escritura de datos se ha producido un error que la unidad no puede corregir.
4	Media	Sus datos corren peligro: 1. Copie todos los datos que pueda necesitar de esta cinta. 2. No vuelva a utilizar esta cinta. 3. Reinicie la operación con una nueva cinta.
5	Read Failure	La cinta está dañada o la unidad está estropeada. Llame al teléfono de ayuda del proveedor de la unidad de cinta.
6	Write Failure	La cinta forma parte de un lote defectuoso o la unidad de cintas está estropeada: 1. Use una cinta en buen estado para comprobar la unidad. 2. Si el problema persiste, llame al teléfono de ayuda del proveedor de la unidad de cintas.
7	Media Life	El cartucho de cinta ha llegado al final de su vida útil prevista: 1. Copie todos los datos que necesite en otra cinta. 2. Deseche la cinta antigua.
8	Not Data Grade	El cartucho de cinta no tiene calidad para datos. Los datos que pueda almacenar en la cinta están en peligro. Cambie el cartucho por una cinta con calidad para datos.
9	Write Protect	Está tratando de escribir en un cartucho protegido contra escritura. Retire la protección contra escritura o utilice otra cinta.
10	No Removal	No puede expulsar el cartucho porque la unidad de cinta está en uso. Espere hasta que la operación haya concluido antes de expulsar el cartucho.
11	Cleaning Media	La cinta de la unidad es un cartucho limpiador.
12	Unsupported Format	Ha tratado de cargar un cartucho de un tipo no soportado por esta unidad.
13	Recoverable Snapped Tape	La operación ha fallado porque la cinta de la unidad se ha roto: 1. Deseche la cinta antigua. 2. Reinicie la operación con una nueva cinta.
14	Unrecoverable Snapped Tape	El funcionamiento ha fallado porque la cinta se ha roto: 1. No intente extraer el cartucho de cinta. 2. Llame al proveedor de unidades de cintas.
15	Memory Chip in Cartridge Failure	Ha fallado la memoria del cartucho de cinta, lo que merma el rendimiento. No utilice el cartucho para otras operaciones de copia de seguridad.
16	Forced Eject	El funcionamiento ha fallado porque el cartucho se retiró manualmente mientras la unidad de cinta estaba escribiendo o leyendo.
17	Read Only Format	Ha cargado un cartucho que es de sólo lectura en esta unidad. El cartucho aparecerá como protegido contra escritura.
18	Tape Directory Corrupted	Se ha dañado el directorio del cartucho de cinta. Se reducirá el rendimiento de búsqueda de archivos. El directorio de cinta puede reconstruirse leyendo todos los datos del cartucho.
19	Nearing Media Life	La cinta de su unidad de cinta se está acercando al término de su vida útil. Se recomienda que usted: 1. Utilice otra cinta para su próxima copia de seguridad. 2. Guarde esta cinta en un lugar seguro en caso de que la necesite para restaurar información en el futuro.

TAPEALERT DIAGNOSTIC
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No.	Flag	Required Host Message
20	Clean Now	Es preciso limpiar la unidad de cinta: 1. Si se ha detenido la operación, extraiga la cinta y limpie la unidad 2. Si no se ha detenido la operación, espere hasta que acabe y limpie la unidad. Consulte el manual del usuario de la unidad de cinta para las instrucciones específicas de limpieza del dispositivo.
21	Clean Periodic	La unidad de cinta necesita limpieza periódica: 1. Espere hasta que concluya la operación actual. 2. A continuación utilice un cartucho limpiador. Consulte el manual del usuario de la unidad de cinta para las instrucciones específicas de limpieza del dispositivo.
22	Expired Cleaning Media	El último cartucho limpiador utilizado en la unidad de cinta está agotado: 1. Deseche el cartucho limpiador agotado. 2. Espere hasta que concluya la operación actual. 3. A continuación utilice un cartucho limpiador.
23	Invalid Cleaning Tape	El último cartucho de limpieza usado en la unidad no era del tipo correcto: 1. No use este cartucho de limpieza en esta unidad. 2. Espere a que termine la tarea que se está realizando. 3. A continuación, utilice un cartucho de limpieza válido.
24	Retention Requested	La unidad de cinta ha solicitado una operación de retensión
25	Dual-Port Interface Error	Se ha producido un fallo en un puerto de interfaz redundante de la unidad de cinta
26	Cooling Fan Failure	Se ha producido un fallo en un ventilador de refrigeración de la unidad de cinta.
27	Power Supply	Se ha producido un fallo en una fuente de alimentación redundante del recinto de la unidad de cinta. Consulte el manual del usuario del recinto para obtener instrucciones sobre cómo reemplazar la fuente de alimentación averiada.
28	Power Consumption	El consumo de energía de la unidad de cinta se encuentra fuera del rango especificado
29	Drive Maintenance	Es necesario realizar el mantenimiento preventivo de la unidad de cinta. Consulte el manual del usuario de la unidad de cinta para familiarizarse con las tareas específicas de mantenimiento preventivo del dispositivo o llame al proveedor de unidades de cinta.
30	Hardware A	Esta unidad de cinta tiene un error de hardware: 1. Extraiga la cinta o el cargador. 2. Vuelva a inicializar la unidad. 3. Reinicie la operación.
31	Hardware B	La unidad de cinta tiene un error de hardware: 1. Desconecte la unidad de cinta y vuelva a conectarla. 2. Reinicie la operación. 3. Si el problema persiste, llame al teléfono de ayuda del proveedor de la unidad de cintas. Consulte el manual del usuario de la unidad de cinta para las instrucciones específicas sobre encendido y apagado del dispositivo.
32	Interface	La unidad de cinta tiene un problema con el interface del ordenador central: 1. Compruebe los cables y las conexiones de los cables. 2. Reinicie la operación.
33	Eject Media	La operación no ha tenido éxito: 1. Extraiga la cinta o el cargador. 2. Inserte de nuevo la cinta o el cargador. 3. Reinicie la operación.
34	Download Fail	La carga del firmware no ha tenido éxito porque ha tratado de utilizar un firmware incorrecto para esta unidad de cinta. Consiga el firmware apropiado y vuelva a intentarlo.
35	Drive Humidity	Las condiciones ambientales de la unidad de cinta se encuentran fuera del rango de humedad especificado

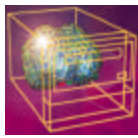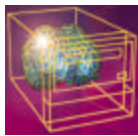| 36	Drive Temperature	Las condiciones ambientales de la unidad de cinta se encuentran fuera del rango de temperatura especificado

**TAPEALERT DIAGNOSTIC
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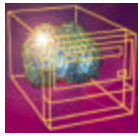| No.	Flag	Required Host Message
37	Drive Power	La tensión de alimentación de la unidad de cinta se encuentra fuera del rango especificado
38	Predictive Failure	Se ha previsto un fallo de hardware de la unidad de cinta. Llame al proveedor de unidades de cinta.
39	Diagnostics Required	Posible fallo en la unidad de cinta. Compruebe la disponibilidad de la información de diagnóstico y ejecute un diagnóstico ampliado si es posible. Consulte el manual del usuario de la unidad de cinta para obtener instrucciones sobre la ejecución de una prueba de diagnóstico ampliado y la recuperación de datos de diagnóstico
40	Loader Hardware A	El mecanismo cambiador tiene dificultades para comunicarse con la unidad de cintas: 1. Desconecte el cargador automático y vuelva a conectarlo. 2. Reinicie la operación. 3. Si el problema persiste, llame al teléfono de ayuda del proveedor de la unidad de cinta.
41	Loader Stray Tape	Ha quedado una cinta en el cargador automático debido a un fallo de hardware anterior: 1. Inserte un cargador vacío para corregir el fallo. 2. Si no se corrige el fallo, desconecte la unidad y vuelva a conectarla. 3. Si el problema persiste, llame al teléfono de ayuda del proveedor de la unidad de cinta.
42	Loader Hardware B	Hay un problema con el mecanismo del cargador automático.
43	Loader Door	La operación no ha tenido éxito debido a que la puerta de la unidad está abierta: 1. Elimine cualquier obstrucción de la puerta de la unidad. 2. Extraiga el cargador y vuelva a insertarlo. 3. Si el fallo no se corrige, desconecte la unidad y vuelva a conectarla. 4. Si el problema persiste, llame al teléfono de ayuda del proveedor de la unidad de cinta.
44	Loader Hardware C	El autocargador presenta un fallo de hardware: 1. Apague el autocargador y vuelva a encenderlo. 2. Vuelva a empezar la operación. 3. Si persiste el problema, llame al proveedor de unidades de cinta. Consulte el manual del usuario del autocargador para las instrucciones específicas sobre encendido y apagado del dispositivo.
45	Loader Magazine	El autocargador no puede funcionar sin el cargador. 1. Inserte el cargador en el autocargador. 2. Vuelva a empezar la operación.
46	Loader Predictive Failure	Se ha previsto un fallo de hardware del mecanismo cambiador. Llame al proveedor de unidades de cinta.
50	Lost Statistics	Las estadísticas de los soportes se han perdido en algún momento dado
51	Tape directory invalid at unload	Se ha dañado el directorio de cinta del cartucho que acaba de descargar. Se reducirá el rendimiento de búsqueda de archivos. El directorio de cinta puede reconstruirse leyendo todos los datos del cartucho.
52	Tape system area write failure	La cinta que acaba de descargar no puede escribir correctamente su área del sistema 1. Copie todos los datos que necesite en otra cinta. 2. Deseche la cinta antigua.
53	Tape system area read failure	El área de sistema de la cinta no pudo leerse correctamente al cargarse 1. Copie todos los datos que necesite en otra cinta. 2. Deseche la cinta antigua.
54	No start of data	No pudo encontrarse el inicio de los datos en la cinta: 1. Compruebe que está utilizando una cinta con el formato correcto 2. Deseche la cinta o devuélvala a su proveedor

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STAND-ALONE CHANGER DEVICE TYPE

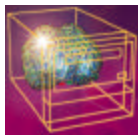| No.	Flag	Required Host Message
1	Library Hardware A	El mecanismo de biblioteca tiene problemas para comunicarse con la unidad: 1. Apague y encienda el mecanismo de biblioteca. 2. Vuelva a empezar la operación. 3. Si persiste el problema, llame al proveedor de mecanismos de biblioteca.
2	Library Hardware B	Existe un problema con el mecanismo de biblioteca. Si persiste el problema, llame al proveedor de mecanismos de biblioteca.
3	Library Hardware C	El mecanismo de biblioteca presenta un fallo de hardware: 1. Reinicialice el mecanismo de biblioteca. 2. Vuelva a empezar la operación. Consulte el manual del usuario del mecanismo de biblioteca para las instrucciones específicas sobre reinicialización del dispositivo.
4	Library Hardware D	El mecanismo de biblioteca presenta un fallo de hardware: 1. Apague y encienda el mecanismo de biblioteca. 2. Vuelva a empezar la operación. 3. Si persiste el problema, llame al proveedor de mecanismos de biblioteca. Consulte el manual del usuario del mecanismo de biblioteca para las instrucciones específicas sobre el encendido y apagado del dispositivo.
5	Library Diagnostics Required	El mecanismo de biblioteca puede tener un fallo de hardware. Ejecute los diagnósticos ampliados para verificar y diagnosticar el problema. Consulte el manual del usuario del mecanismo de biblioteca para las instrucciones de ejecución de pruebas ampliadas de diagnóstico.
6	Library Interface	El mecanismo de biblioteca tiene problemas con el interfaz del ordenador central: 1. Compruebe los cables y las conexiones de cable. 2. Vuelva a empezar la operación.
7	Predictive Failure	Se ha previsto un fallo de hardware del mecanismo de biblioteca. Llame al proveedor de mecanismos de biblioteca.
8	Library Maintenance	El mecanismo de biblioteca precisa mantenimiento preventivo. Consulte el manual del usuario del mecanismo de biblioteca para familiarizarse con las tareas específicas de mantenimiento preventivo o llame al proveedor de mecanismos de biblioteca.
9	Library Humidity Limits	Las condiciones ambientales generales del mecanismo de biblioteca se encuentran fuera del rango de humedad especificado
10	Library Temperature Limits	Las condiciones ambientales generales del mecanismo de biblioteca se encuentran fuera del rango de temperatura especificado
11	Library Power Limits	La tensión de alimentación del mecanismo de biblioteca se encuentra fuera del rango especificado. Posible problema con la fuente de alimentación o fallo de la fuente de alimentación redundante
12	Library Stray Tape	Se ha dejado un cartucho en una unidad dentro del mecanismo de biblioteca debido a un fallo anterior de hardware: 1. Inserte un cargador vacío para eliminar el fallo. 2. Si no se elimina el fallo, apague el mecanismo de biblioteca y vuelva a encenderlo. 3. Si persiste el problema, llame al proveedor de mecanismos de biblioteca.
13	Library Pick Retry	Existe un posible problema con una unidad que expulsa cartuchos o con el mecanismo de biblioteca al coger un cartucho de una ranura. 1. No es necesario adoptar medidas en este momento. 2. Si persiste el problema, llame al proveedor de unidades de cinta.
14	Library Place Retry	Existe un posible problema con el mecanismo de biblioteca al colocar un cartucho en una ranura. 1. No es necesario adoptar medidas en este momento. 2. Si persiste el problema, llame al proveedor de unidades de cinta.
15	Library Load Retry	Existe un posible problema con una unidad o con el mecanismo de biblioteca al cargar cartuchos o un cartucho incompatible.

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No.	Flag	Required Host Message
16	Library Door	El funcionamiento ha fallado porque la puerta del mecanismo de biblioteca está abierta: 1. Retire todo objeto que obstruya la puerta del mecanismo de biblioteca. 2. Cierre la puerta del mecanismo de biblioteca. 3. Si persiste el problema, llame al proveedor de mecanismos de biblioteca.
17	Library Mailslot	Existe un problema mecánico con la ranura de importación/exportación de soportes del mecanismo de biblioteca.
18	Library Magazine	El mecanismo de biblioteca no puede funcionar sin el cargador. 1. Inserte el cargador en el mecanismo de biblioteca. 2. Vuelva a empezar la operación.
19	Library Security	La seguridad del mecanismo de biblioteca se ha visto expuesta.
20	Library Security Mode	Se ha cambiado el modo de seguridad del mecanismo de biblioteca. El mecanismo de biblioteca se ha puesto en modo seguro o ha salido de este modo. Este mensaje es sólo de información. No se precisa ninguna medida.
21	Library Offline	El mecanismo de biblioteca ha sido desconectado manualmente y no está disponible.
22	Library Drive Offline	Se ha desconectado una unidad dentro del mecanismo de biblioteca. Este mensaje es sólo de información. No se precisa ninguna medida.
23	Library Scan Retry	Existe un posible problema con la etiqueta del código de barras o con el hardware del escáner en el mecanismo de biblioteca. 1. No es necesario adoptar medidas en este momento. 2. Si persiste el problema, llame al proveedor de unidades de cinta.
24	Library Inventory	El mecanismo de biblioteca ha detectado una incoherencia en su inventario. 1. Rehaga el inventario del mecanismo de biblioteca para corregir la incoherencia. 2. Vuelva a empezar la operación. Consulte el manual del usuario de aplicaciones o el manual del usuario del hardware para las instrucciones específicas sobre cómo rehacer el inventario del mecanismo de biblioteca.
25	Library Illegal Operation	Se ha intentado una operación del mecanismo de biblioteca que no es válida en este momento.
26	Dual-Port Interface Error	Fallo en un puerto de interfaz redundante del mecanismo de biblioteca
27	Cooling Fan Failure	Fallo en el ventilador de refrigeración del mecanismo de biblioteca.
28	Power Supply	Fallo en una fuente de alimentación redundante del mecanismo de biblioteca. Consulte el manual del usuario del mecanismo de biblioteca para obtener instrucciones sobre cómo reemplazar la fuente de alimentación averiada.
29	Power Consumption	El consumo de energía del mecanismo de biblioteca está fuera del rango especificado
30	Pass-through mechansim failure	Se ha producido un fallo en el dispositivo intermedio del cartucho entre dos módulos del mecanismo de biblioteca.
31	Cartridge in pass-through mechanism	Se ha dejado un cartucho en el dispositivo intermedio del mecanismo de biblioteca utilizado durante un error de hardware anterior. Consulte la guía del usuario del mecanismo de biblioteca para obtener instrucciones sobre cómo eliminar este fallo.
32	Unreadable bar code labels	El mecanismo de biblioteca no pudo leer el código de barras de un cartucho
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PORTUGUESE TapeAlert ERROR MESSAGES

TAPE DRIVE/AUTOLOADER DEVICE TYPE

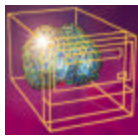| No.	Flag	Required Host Message
1	Read	A unidade de fita está tendo problemas ao ler os dados. Nenhum dado foi perdido, mas houve uma redução no desempenho da fita.
2	Write	A unidade de fita está tendo problemas ao gravar os dados. Nenhum dado foi perdido, mas houve uma redução na capacidade da fita.
3	Hard Error	A operação foi interrompida pois ocorreu um erro ao ler ou gravar dados que a unidade não pode corrigir.
4	Media	Seus dados estão em risco: 1. Copie quaisquer dados requeridos desta fita. 2. Não use esta fita novamente. 3. Reinicie a operação com uma fita diferente.
5	Read Failure	A fita está danificada ou a unidade está defeituosa. Ligue para a linha de ajuda do fornecedor.
6	Write Failure	A fita provém de um lote defeituoso ou a unidade está defeituosa: 1. Use uma fita boa para testar a unidade. 2. Se o problema persistir, ligue para a linha de ajuda do fornecedor.
7	Media Life	O cartucho da fita chegou ao fim da sua vida útil prevista: 1. Copie quaisquer dados necessários para outra fita. 2. Descarte a fita antiga.
8	Not Data Grade	O cartucho de fita não é de padrão para dados. Quaisquer dados copiados para esta fita estão em risco. Substitua por um cartucho de fita de padrão de dados.
9	Write Protect	Você está tentando gravar num cartucho protegida contra gravação. Remova a proteção contra gravação ou use outra fita.
10	No Removal	Você não pode ejetar o cartucho pois a unidade de fita está em uso. Aguarde até que a operação esteja concluída antes de ejetar o cartucho.
11	Cleaning Media	A fita na unidade é um cartucho de limpeza.
12	Unsupported Format	Você tentou carregar um cartucho de um tipo não suportado por esta unidade.
13	Recoverable Snapped Tape	A operação falhou porque a fita na unidade se rompeu: 1. Descarte a fita antiga. 2. Reinicie a operação com uma fita diferente.
14	Unrecoverable Snapped Tape	A operação falhou porque a fita na unidade rompeu-se: 1. Não tente extrair o cartucho de fita. 2. Ligue para a helpline do fornecedor da unidade.
15	Memory Chip in Cartridge Failure	A memória no cartucho de fita falhou, o que reduz o desempenho. Não use o cartucho para outras operações de backup.
16	Forced Eject	A operação falhou porque o cartucho de fita foi ejetado manualmente enquanto a unidade de fita estava escrevendo ou lendo ativamente.
17	Read Only Format	Você carregou um cartucho de um tipo exclusivo de leitura nesta unidade. O cartucho vai aparecer como protegido para gravação
18	Tape Directory Corrupted	O diretório no cartucho de fita foi estragado. O desempenho de busca de arquivos será degradado. O diretório da fita pode ser remontado lendo todos os dados no cartucho.
19	Nearing Media Life	O cartucho de fita está próximo do fim de sua vida útil. Recomenda-se que você: 1. Utilize uma fita nova para seu próximo backup. 2. Armazene este cartucho de fita em um lugar seguro no caso de precisarrecuperar dados dele.

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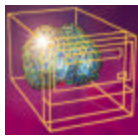
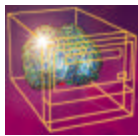| No.	Flag	Required Host Message
20	Clean Now	A unidade de fita precisa de limpeza: 1. Se a operação foi interrompida, ejete a fita e limpe a unidade. 2. Se a operação não foi interrompida, aguarde sua conclusão e então limpe a unidade. Procure instruções de limpeza específicas do dispositivo no manual do usuário da unidade de fita.
21	Clean Periodic	A unidade de fita está no prazo de sua limpeza de rotina: 1. Aguarde a conclusão da operação corrente. 2. Use então um cartucho de limpeza. Procure instruções de limpeza específicas do dispositivo no manual do usuário da unidade de fita.
22	Expired Cleaning Media	O último cartucho de limpeza usado na unidade de fita estava gasto: 1. Descarte o cartucho de limpeza gasto. 2. Aguarde a conclusão da operação corrente. 3. Use então um cartucho de limpeza.
23	Invalid Cleaning Tape	O último cartucho de limpeza usado na unidade era de um tipo inválido: 1. Não use esse cartucho de limpeza nesta unidade. 2. Espere até que a operação atual seja concluída. 3. Depois use um cartucho de limpeza válido.
24	Retention Requested	A unidade de fita solicitou uma operação de retenção
25	Dual-Port Interface Error	Uma porta de interface redundante na unidade de fita falhou
26	Cooling Fan Failure	A ventoinha de resfriamento da unidade de fita falhou.
27	Power Supply	Uma fonte de alimentação redundante dentro do compartimento da unidade de fita falhou. Consulte o manual do usuário do compartimento para instruções sobre a substituição da fonte de alimentação defeituosa.
28	Power Consumption	O consumo de energia da unidade de fita está fora da faixa especificada
29	Drive Maintenance	É requerida a manutenção preventiva da unidade de fita. Leia o manual do usuário da unidade de fita para as tarefas de manutenção preventiva específicas para o dispositivo ou ligue para a helpline do fornecedor da unidade de fita.
30	Hardware A	A unidade de fita apresenta falha de hardware: 1. Ejete a fita ou cartucho. 2. Restaure a unidade. 3. Reinicie a operação.
31	Hardware B	A unidade de fita apresenta falha de hardware: 1. Desligue a unidade de fita e ligue novamente. 2. Reinicie a operação. 3. Se o problema persistir, ligue para a linha de ajuda do fornecedor de unidade de fitas. Procure instruções específicas de como ligar e desligar o dispositivo no manual do usuário da unidade de fita.
32	Interface	A unidade de fita apresenta um problema com a interface de host: 1. Verifique os cabos e conexões dos cabos. 2. Reinicie a operação.
33	Eject Media	A operação falhou: 1. Ejete a fita ou cartucho. 2. Insira a fita ou cartucho novamente. 3. Reinicie a operação.
34	Download Fail	O carregamento do firmware falhou pois foi tentado usar use um firmware incorreto para esta unidade de fita. Obtenha o firmware correto e tente novamente.
35	Drive Humidity	As condições ambientais dentro da unidade de fita estão fora da faixa de umidade especificada
36	Drive Temperature	As condições ambientais dentro da unidade de fita estão fora da faixa de temperatura especificada
37	Drive Power	A tensão aplicada à unidade de fita está fora da faixa especificada
38	Predictive Failure	Prevista a ocorrência de uma falha do hardware. Ligue para a helpline do fornecedor da unidade de fita.

TAPEALERT DIAGNOSTIC
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No.	Flag	Required Host Message
39	Diagnostics Required	A unidade de fita pode ter uma falha. Verifique se há disponibilidade de diagnóstico e execute-o estendido, se aplicável. Consulte o manual do usuário da unidade de fita para instruções sobre a execução de testes de diagnósticos estendidos e a obtenção dos dados desse diagnóstico
40	Loader Hardware A	O mecanismo trocador está tendo dificuldade em comunicar-se com a unidade de fita: 1. Desligue o autoloader e ligue novamente. 2. Reinicie a operação. 3. Se o problema persistir, ligue para a linha de ajuda do fornecedor de unidade de fitas.
41	Loader Stray Tape	Uma fita foi deixada no autoloader por uma falha de hardware anterior: 1. Insira um cartucho vazio para remover a falha. 2. Se a falha não for removida, desligue o autoloader e ligue novamente. 3. Se o problema persistir, ligue para a linha de ajuda do fornecedor de unidade de fitas.
42	Loader Hardware B	Existe um problema com o mecanismo do autoloader.
43	Loader Door	A operação falhou pois a porta do autoloader está aberta: 1. Remova quaisquer obstruções da porta do autoloader. 2. Ejete o cartucho e insira-o novamente. 3. Se a falha não for removida, desligue o autoloader e ligue novamente 4. Se o problema persistir, ligue para a linha de ajuda do fornecedor de unidade de fitas.
44	Loader Hardware C	O autoloader está com uma falha de hardware: 1. Desligue e ligue o autoloader. 2. Reinicie a operação. 3. Caso o problema persista, ligue para a helpline do fornecedor da unidade de fita. Leia o manual do usuário do autoloader para instruções específicas sobre como ligar e desligar o dispositivo.
45	Loader Magazine	O autoloader não pode operar sem o magazine. 1. Insira o magazine no autoloader 2. Reinicie a operação.
46	Loader Predictive Failure	Está prevista a ocorrência de uma falha de hardware do mecanismo trocador. Ligue para a helpline do fornecedor da unidade de fita.
50	Lost Statistics	As estatísticas de mídia se perderam em algum momento no passado
51	Tape directory invalid at unload	O diretório da fita no cartucho recém descarregado está corrompido. O desempenho de busca de arquivos será degradado. O diretório da fita pode ser remontado lendo todos os dados no cartucho.
52	Tape system area write failure	A fita recém descarregada não pôde gravar sua área de sistema com sucesso 1. Copie quaisquer dados necessários para outra fita. 2. Descarte a fita antiga.
53	Tape system area read failure	A área de sistema da fita não pôde ser lida com sucesso no momento do carregamento 1. Copie quaisquer dados necessários para outra fita. 2. Descarte a fita antiga.
54	No start of data	O início dos dados não pôde ser encontrado na fita: 1. Verifique se está usando o formato de fita correto 2. Jogue a fita fora ou devolva-a ao fornecedor

TAPEALERT DIAGNOSTIC
SPECIFICATION DOCUMENT

STAND-ALONE CHANGER DEVICE TYPE

No.	Flag	Required Host Message
1	Library Hardware A	O mecanismo da biblioteca está tendo dificuldades para se comunicar com a unidade: 1. Desligue e ligue a biblioteca. 2. Reinicie a operação. 3. Se o problema continuar, ligue para a helpline do fornecedor da biblioteca.
2	Library Hardware B	Há um problema com o mecanismo da biblioteca. Se o problema persistir, ligue para a helpline do fornecedor da biblioteca.
3	Library Hardware C	A biblioteca está com uma falha de hardware: 1. Reinicialize a biblioteca 2. Reinicie a operação. Leia o manual do usuário da biblioteca para instruções específicas sobre a reinicialização do dispositivo.
4	Library Hardware D	A biblioteca está com uma falha de hardware: 1. Desligue e ligue a biblioteca. 2. Reinicie a operação. 3. Caso o problema persista, ligue para a helpline do fornecedor da biblioteca. Leia o manual do usuário da biblioteca para instruções específicas sobre como ligar e desligar o dispositivo.
5	Library Diagnostics Required	O mecanismo da biblioteca pode estar com uma falha de hardware. Execute o diagnóstico estendido para verificar e diagnosticar o problema. Leia o manual do usuário da biblioteca para instruções específicas para o dispositivo sobre como executar testes de diagnóstico estendido.
6	Library Interface	A biblioteca está com um problema com a interface do host: 1. Verifique os cabos e suas conexões. 2. Reinicie a operação.
7	Predictive Failure	Está prevista a ocorrência de uma falha do hardware da biblioteca. Ligue para a helpline do fornecedor da biblioteca.
8	Library Maintenance	É requerida manutenção preventiva da biblioteca. Leia o manual do usuário da biblioteca para instruções específicas para a tarefa de manutenção, ou ligue para a helpline do fornecedor da biblioteca.
9	Library Humidity Limits	As condições ambientais gerais dentro da biblioteca estão fora da faixa de umidade especificada
10	Library Temperature Limits	As condições ambientais gerais dentro da biblioteca estão fora da faixa de temperatura especificada
11	Library Power Limits	A tensão aplicada à biblioteca está fora da faixa especificada. Há um problema em potencial com a fonte de alimentação ou uma falha com a fonte de alimentação redundante
12	Library Stray Tape	Um cartucho foi deixado numa unidade dentro da biblioteca devido a uma falha de hardware anterior: 1. Insira um magazine vazio para eliminar a falha. 2. Se a falha não for eliminada, desligue e ligue novamente a biblioteca. 3. Caso o problema persista, ligue para a helpline do fornecedor da biblioteca.
13	Library Pick Retry	Existe um problema em potencial com uma unidade ejetando cartuchos fora da hora ou com o mecanismo da biblioteca pegando um cartucho de um slot. 1. Não é preciso fazer nada agora. 2. Caso o problema persista, ligue para a helpline do fornecedor da unidade de fita.
14	Library Place Retry	Existe um problema em potencial com o mecanismo da biblioteca colocando um cartucho num slot 1. Não é preciso fazer nada agora. 2. Caso o problema persista, ligue para a helpline do fornecedor da unidade de fita.
15	Library Load Retry	Existe um problema em potencial com uma unidade ou com o mecanismo da biblioteca carregando cartuchos, ou um cartucho incompatível.
16	Library Door	A operação falhou porque a porta da biblioteca está aberta: 1. Limpe quaisquer obstruções da porta da biblioteca. 2. Feche a porta da biblioteca. 3. Se o problema persistir, ligue para a helpline do fornecedor da biblioteca.

No.	Flag	Required Host Message
17	Library Mailslot	Há um problema mecânico com o mailslot de importação/exportação de mídia da biblioteca.
18	Library Magazine	A biblioteca não pode ser operada sem o magazine. 1. Insira o magazine na biblioteca 2. Reinicie a operação.
19	Library Security	A segurança da biblioteca foi comprometida
20	Library Security Mode	O modo de segurança da biblioteca foi alterado. A biblioteca foi colocada no modo de segurança, ou a biblioteca saiu do modo de segurança. Isto é apenas para finalidades informativas. Nenhuma ação é necessária.
21	Library Offline	A biblioteca foi colocada fora de linha manualmente e não está disponível para uso.
22	Library Drive Offline	Uma unidade dentro da biblioteca está fora de linha. Isto é apenas para finalidades de informação. Nenhuma ação é necessária.
23	Library Scan Retry	Há um problema em potencial com a etiqueta de código de barra ou com o hardware do scanner no mecanismo da biblioteca 1. Não é preciso fazer nada agora. 2. Caso o problema persista, ligue para a helpline do fornecedor da unidade de fita.
24	Library Inventory	A biblioteca detectou uma inconsistência no seu inventário. 1. Refaça o inventário da biblioteca para corrigir a inconsistência. 2. Reinicie a operação Leia o manual do usuário dos aplicativos ou o manual do usuário do hardware para instruções específicas sobre como refazer o inventário da biblioteca.
25	Library Illegal Operation	Foi tentada uma operação da biblioteca que é inválida neste momento.
26	Dual-Port Interface Error	Uma porta de interface redundante na biblioteca falhou
27	Cooling Fan Failure	A ventoinha de resfriamento da biblioteca falhou.
28	Power Supply	Uma fonte de alimentação redundante falhou dentro da biblioteca. Consulte o manual do usuário da biblioteca para instruções sobre como substituir a fonte de alimentação defeituosa.
29	Power Consumption	O consumo de energia da biblioteca está fora da faixa especificada
30	Pass-through mechansim failure	Ocorreu uma falha no mecanismo de passagem do cartucho entre dois módulos de biblioteca.
31	Cartridge in pass-through mechanism	Um cartucho foi deixado no mecanismo de passagem da biblioteca de uma falha de hardware anterior. Consulte o manual do usuário da biblioteca para instruções sobre como retirar essa falha.
32	Unreadable bar code labels	A biblioteca não conseguiu ler o código de barras em um cartucho
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