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**IBM® TS7700 Series Operator Informational
Messages White Paper
Version [4.1.1](#)**

Dante Pichardo
Tucson Tape Development
Tucson, Arizona

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Introduction

During normal and exception processing within an IBM tape library, intervention or action by an operator or storage administrator is sometimes required. IBM tape libraries have an optional facility that causes a z/OS console message, CBR3750I, to be displayed when intervention or action is needed. The intervention or action may require immediate attention to continue library processing or may be something that can be handled at a later time. The purpose of this white paper is to list the intervention or action messages that are generated and to indicate the importance of each message in regards to how they need to be handled. The white paper is targeted for the following customer personnel:

- System Operators
- System Administrators

Summary of Changes

This is the initial version of the document.

April 16, 2012 – Added new host console messages

August 1, 2012 – Added host console message for auto-removal completion

September 4, 2012 – Added host console message AL5012 and AL5013

December 6, 2012 – Update for ETC, Hydra 3.0

January 31, 2012 – Set correct version number to 1.6
April 16, 2013 - Version 1.7 Added host console message AL5014

July 10, 2013 – Added new host console messages for H3.1

July 26, 2013 – Version 1.7.2 - Added Trigger Type (TT) column. Included CBR messages other than CBR3750I to the end of the document.

March 26, 2014 – Added TT for H3.1

May 8, 2014 – Added AL0012, AL0013, AL5015 and AL5016 for H3.2

September 17, 2014 – Added G0035 for H3.2

April 13, 2015 – Added new RAS interventions for H3.2

August 20, 2015 – H3.3 change. Added G0036-G0038 GGM console messages.

April 15, 2016 – Added new host console messages for H3.3

April 15, 2016 – Added new host console messages for H4.0

[April 24, 2017 – Added new host console messages for H4.1](#)

[July 6, 2017 – Updated Library Manager and TSSC messages](#)

Configurations Supported

All currently supported ESCON/FICON attached IBM tape libraries, including native partitions and those with Virtual Tape Servers or Virtualization Engines as well as their associated library manager, generate

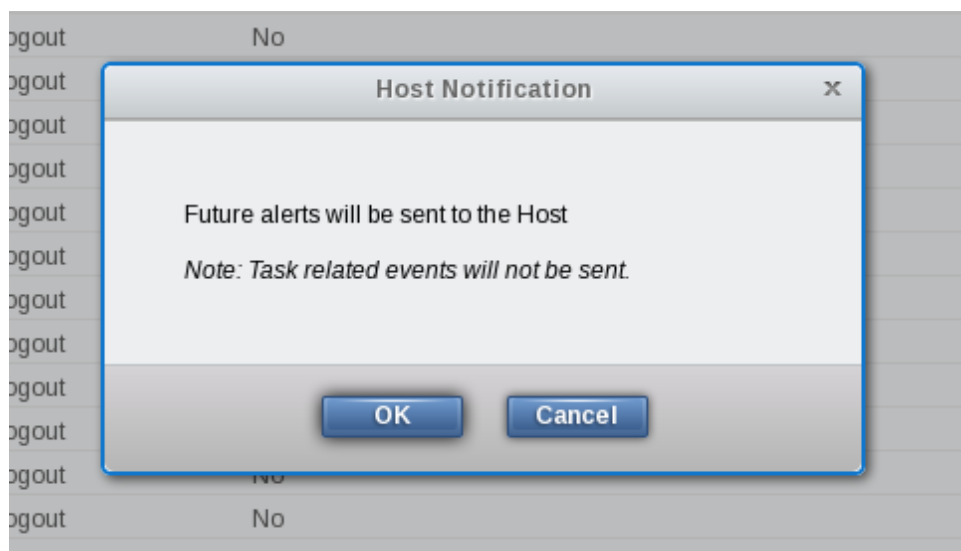
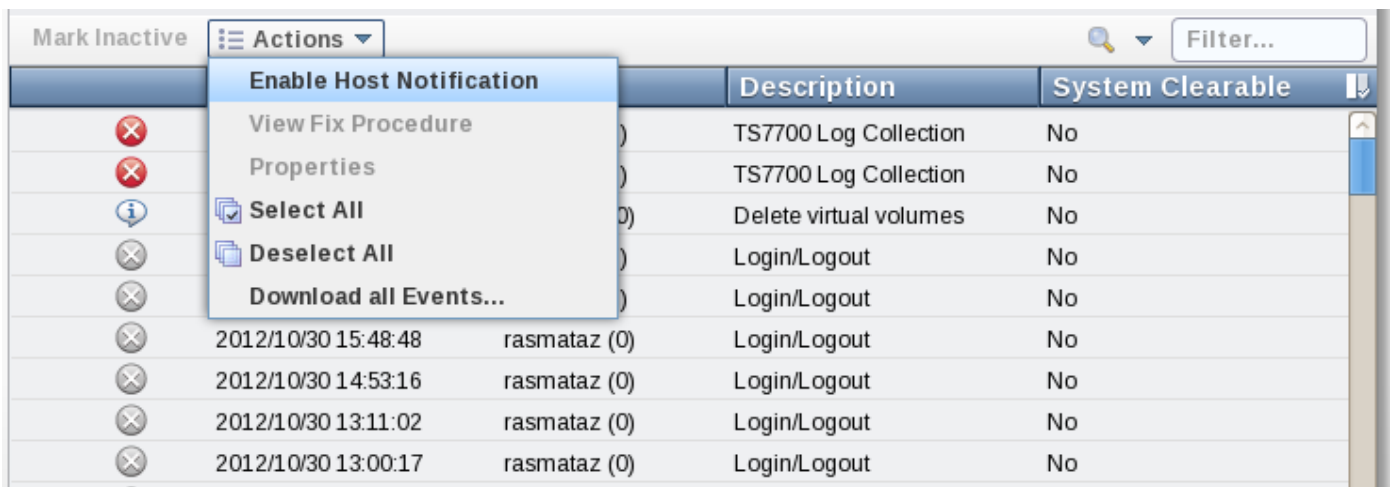
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notifications to their attached hosts to inform the customer of conditions or events that have occurred within the product. Those libraries are the 3494 and the TS3500 (aka 3584) with a 3953 Library Manager. However, not all messages are generated by all level of code on all products.

Intervention and Informational Message Overview

During normal and exception processing within a library with a library manager or the TS7700 associated with a library, these products may encounter conditions or events that require some level of action by an operator. As these conditions or events are encountered, a message text, called an intervention message, is logged. An operator can monitor and view the intervention messages through the TS7700 web interface. Optionally, the text associated with the intervention message can be sent to all hosts that are attached to the subsystem in the form of a message.

To send all intervention messages to the hosts attached to its associated native drive controller, TS7700 or VTS products, go to the Events panel and click the “Enable Host Notification” button in the “Actions” menu, then click “OK” in the confirmation dialog. See below for an example of the Events panel displayed through the web interface:



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The default is to not send the messages, so if you want them to be sent, you will need to enable it as described above.

The TS7700 and VTS products may also generate informational messages. These messages provide information about an operation that is taking place within the product and may or may not require operator action. Informational messages are always sent to the hosts attached to the product.

If the TS7700 generating the message is a member of a Grid, the message is sent to all hosts that are attached to all of the TS7700s in the Grid configuration. If the VTS is a member of a Peer-to-Peer VTS, the message is sent to all hosts attached to the Virtual Tape Controllers of that PTP VTS.

Only the z/OS platform currently supports receiving the messages and generates the following host console message:

CBR3750I Message from library *library-name*: *message-text*

Where *library-name* identifies the source of the message. Messages can come from a native library partition, standalone VTS or the composite or distributed libraries in a TS7700 or a PTP VTS. This is the eight character library name that had been previously defined through the library definitions panels through z/OS. The *message-text* contains the information being provided. Included in the *message-text* is a five character message ID field that may be examined by message automation software to filter or route specific messages. The message text can be up to 240 characters in length.

In the following table, the intervention and informational messages are defined. For each message, an impact code based on the action required and potential to impact operations is assigned as follows:

Impact	Code	Impact Description	Action
Critical	C	Operations in the reporting TS7700/VTS/Library are stopped, all jobs allocated may fail.	Immediate operator, system administrator or service representative action
Serious	S	One or more jobs may fail, some logical volumes may be inaccessible, mounts are suspended, performance may be degraded	Important to examine message, take action as needed
Impact	I	No immediate impact to operations, but ejects cannot proceed, input station processing problem, early warning for serious type interventions including performance degradation, copies may not be performed or are degraded.	Examine message as time allows
Warning	W	No immediate impact to operations, redundant resource lost, installation/configuration problem or change, drive cleaning may be impacted	Examine message as time allows
Information	M	Informational message about operations in the TS7700/VTS/library	Log for historical review

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The product area associated with the message is also listed and could be used when deciding who to evaluate the message. The product areas are:

Library - regarding the physical library

Media - regarding a physical tape cartridge

Tape Drive - regarding a physical tape device

Library Manager - regarding the library manager code and hardware

VTS/TS7700 - regarding the VTS or TS7700 code and hardware

Control Unit - regarding the control unit code or hardware

Refer to the *IBM 3953 Library Manager Model L05 Operator's Guide* or the *IBM TotalStorage 3494 Tape Library Operator's Guide* for the probable cause for the intervention condition and the actions required for resolution.

In the message text, 'n's, 'm's, 'x's, 'y's and 'z's are replaced with values specific for the message.

TT – Trigger Type – This column provides guidelines for which interventions or events may want to be monitored by host automation. The column indicates if the event is a setting of a condition (“C” or “S”) or a clearing of a condition (“c” or “r”). The column also indicates whether the intervention or event is a customer (“C” and “c”) responsibility or an IBM (“S” and “r”) responsibility.

- C – Customer responsibility – Condition is set
- c – Customer responsibility – Condition is cleared
- S – IBM responsibility – Condition is set – Notify IBM
- r – IBM Responsibility – Condition is reset – Notify IBM
- Blank – requires no trigger.

Message ID	Impact Code	TT	Product Area	Intervention Message Text
None	M		VTS/TS7700	VTS Database Backup written to Physical Tape RSG632.
None	M		VTS/TS7700	Temporary Conflict for Volser xxxxxx - LM paused or long drive op
None	W		VTS/TS7700	ERROR - Drive types in VTS are mixed or cannot ID drives
None	M		VTS/TS7700	Checkfiles created on virgin VTS system
AL0000	M	C	VTS/TS7700	Uncopied data of xxxx GB above low warning limit of yyyy GB.
AL0001	M	c	VTS/TS7700	No longer above uncopied data low warning limit of yyyy GB.
AL0004	M	S	VTS/TS7700	Available physical drives of nn is below low limit of xx.
AL0005	M	r	VTS/TS7700	Available physical drives no longer below low limit of xx.
AL0006	M	C	VTS/TS7700	Available physical scratch volumes nnn below low limit of xxx for pool yy.
AL0007	M	c	VTS/TS7700	Available physical scratch no longer below low limit of xxx for pool yy.
AL0008	M	C	VTS/TS7700	Resident data of nnnn GB above low warning limit of xxxx GB.
AL0009	M	c	VTS/TS7700	No longer above resident data low warning limit of xxxx GB.
AL0010	M	C	TS7700	Distributed Library xx has a total pending inbound copy backlog of yyyy GB which is above the low warning limit of zzzz GB

Message ID	Impact Code	TT	Product Area	Intervention Message Text
AL0011	M	c	TS7700	Distributed Library xx has successfully fallen below the inbound copy backlog low warning limit of zzzz GB
AL0012	M	C	TS7720 Tape Attach	Sum of resident data in tape partitions of nnnn GB above low warning limit of xxxx GB.
AL0013	M	c	TS7720 Tape Attach	Sum of resident data in tape partitions no longer above low warning limit of xxxx GB.
AL2000	M		VTS/TS7700	Database Backup written to Encrypted Physical Tape vvvvvv.
AL2001	M	C	VTS/TS7700	TS7740 is unable to communicate with at least one Encryption Key Manager
AL5000	M	C	VTS/TS7700	Uncopied data of nnnn GB above high warning limit of xxxx GB
AL5001	M	c	VTS/TS7700	No longer above uncopied data high warning limit of xxxx GB.
AL5004	M	S	VTS/TS7700	Available physical drives of nnn is below critical limit of xxx.
AL5005	M	r	VTS/TS7700	Available physical drives no longer below critical limit of xxx.
AL5006	M	C	VTS/TS7700	Available physical scratch volumes nnn below critical limit of xxx for pool yy.
AL5007	M	c	VTS/TS7700	Available physical scratch no longer below critical limit of xxx for pool yy.
AL5008	M	C	VTS/TS7700	Resident data of xxxx GB above high warning limit of yyyy GB.
AL5009	M	c	VTS/TS7700	No longer above resident data high warning limit of yyyy GB.
AL5010	M	C	TS7700	Distributed Library xx has a total pending inbound copy backlog of yyyy GB which is above the critical warning limit of zzzz GB
AL5011	M	c	TS7700	Distributed Library xx has successfully fallen below the inbound copy backlog critical warning limit of zzzz GB
AL5012	M		TS7700	Auto removal of volumes has completed on this disk only cluster.
AL5013	M		TS7700	Physical volume xxxxxx from <cluster name or library id> has been erased
AL5014	M		TS7700	BVIR volume map exceeds <maximum number of records> records
AL5015	M	C	TS7720 Tape Attach	Sum of resident data in tape partitions of nnnn GB above high warning limit of xxxx GB.
AL5016	M	c	TS7720 Tape Attach	Sum of resident data in tape partitions no longer above high warning limit of xxxx GB.
G0001	M		VTS/TS7700	Service preparation has started for distributed library xx.
G0002	M		VTS/TS7700	Service preparation has completed for distributed library xx.
G0003	W		VTS/TS7700	Service preparation has failed for distributed library xx.
G0004	M		VTS/TS7700	Service preparation has exited for distributed library xx.
G0005	I		VTS/TS7700	Distributed library xx has entered the immediate deferred state.
G0006	M		VTS/TS7700	Distributed library xx has exited the immediate deferred state.
G0007	W		VTS/TS7700	A user at library xx has enabled Read/Write takeover against library yy.
G0008	W		VTS/TS7700	A user at library xx has enabled Read-Only takeover against library yy.
G0009	S	S	VTS/TS7700	Autonomic ownership takeover manager within library xx has determined that library yy is unavailable. The Read/Write ownership takeover mode has been enabled.
G0010	S	S	VTS/TS7700	Autonomic ownership takeover manager within library xx has determined that library yy is unavailable. The Read-Only ownership takeover mode has been enabled.
G0011	M	r	VTS/TS7700	Ownership takeover mode within library xx has been automatically disabled now that library yy has become available.
G0012	W		VTS/TS7700	A user at library xx has disabled the ownership takeover mode within the grid against library yy.
G0013	S	S	VTS/TS7700	Library xx has experienced an unexpected outage with its peer library

Message ID	Impact Code	TT	Product Area	Intervention Message Text
				yy. Library yy may be unavailable or a communication issue may be present.
G0014	M	r	VTS/TS7700	Library xx is now available to the peer library yy.
G0015	M	r	VTS/TS7700	Library xx has restored communication and is now available to the peer library yy.
G0020	M		VTS/TS7700	Library xx has taken over ownership of volume yyyyyy from library zz using a read/write takeover mode. mmmmmm total volumes have been taken over from peer clusters.
G0021	M		VTS/TS7700	Library xx has taken over ownership of volume yyyyyy from library zz using a read-only takeover mode. mmmmmm total volumes have been taken over from peer clusters.
G0022	M		VTS/TS7700	Library xx has reconciled volume yyyyyy against library zz with respect to ownership takeover. mmmmmm total volumes remain in the takeover state against one or more peer libraries.
G0023	S	S	VTS/TS7700	Library xx has moved volume yyyyyy into the damaged state due to ownership takeover conflict. mmmmmm total volumes now exist in the damaged state.
G0024	S	S	VTS/TS7700	Library xx has moved volume yyyyyy into the damaged state due to token corruption. mmmmmm total volumes now exist in the damaged state.
G0025	S	S	VTS/TS7700	Library xx has moved volume yyyyyy into the damaged state due to disaster recovery. mmmmmm total volumes now exist in the damaged state.
G0026	S	S	VTS/TS7700	Library xx has moved volume yyyyyy into the damaged state. mmmmmm total volumes now exist in the damaged state.
G0027	M	r	VTS/TS7700	Library xx has moved volume yyyyyy out of the damaged state and into the insert category. mmmmmm total volumes remain in the damaged state.
G0030	I	S	VTS/TS7700	Library xx Pri,Alt,Pri2,Alt2 Grid Link are degraded. (degraded Grid link port is also reported)
G0031	M	r	VTS/TS7700	All grid links for this cluster have left the degraded state.
G0032	M	C	VTS/TS7700	XX copies have been queued for over 24 hours. Check Incoming Copy Queue on the MI for details.
G0033	M	c	VTS/TS7700	Distributed Library xx has entered the synchronous deferred state due to volser yyyyyy.
G0034	M		VTS/TS7700	Distributed Library xx has exited the synchronous deferred state.
G0035	S	C	VTS/TS7700	Distributed Library xx mount failed due to excessive large volume mounts.
G0036	M		TS7700	Distributed Library xx completed GGM copy of volume yyyyyy from the composite library zz with CC cc
G0037	M		TS7700	Distributed Library xx failed GGM copy of volume yyyyyy from the composite library zz with CC cc
G0038	M		TS7700	Distributed Library xx failed GGM copy of volume yyyyyy from the composite library zz due to communication failure
G0039	I	S	TS7700	Hot token merge with peer library xx has failed. Retries will be attempted.
G0040	M		TS7700	Hot token merge with peer library xx has recovered.
G0041	W	S	TS7700	Grid has detected the temporary cache access failure
G0042	M		TS7700	Temporary cache access failure has been recovered
G0043	C	S	TS7700	Cluster will reboot in xx seconds because the cache access has been totally lost
G0044	M	C	TS7700	Distributed Library zz is an island and can not communicate with yy

Message ID	Impact Code	TT	Product Area	Intervention Message Text
				(*) This message is surfaced only when PFE/Development sets the backdoor manually.
G0045	M	c	TS7700	Distributed Library zz is no longer an island (*) This message is surfaced only when PFE/Development sets the backdoor manually.
OP0001	S	C	Library Manager	The convenience I/O station should be empty but is not, visually check the station.
OP0002	S	S	Library Manager	A cartridge has been dropped.
OP0003	I	C	Library	The I/O station is full.
OP0004	I	C	Library	The virtual library is full.
OP0005	S	C	Library Manager	A duplicate volser (xxxxxx) was ejected to the convenience I/O station.
OP0006	I	C	Library Manager	A duplicate volser (xxxxxx) was left in the convenience I/O station.
OP0007	I	C	Library Manager	A VOLSER (xxxxxx) with an unknown media type has been ejected to the convenience I/O station.
OP0009	I	C	Library Manager	An invalid VOLSER (xxxxxx) has been ejected to the convenience I/O station.
OP0010	I	C	Library Manager	During an Inventory Update operation, VOLSER (xxxxxx) was ejected to the convenience I/O station because there were no free cells.
OP0011	I	S	Library Manager	An error occurred for cartridge xxxxxx during insert from convenience I/O slot number yy to cell: Rack number: nn Rack column: mm Rack row: zz
OP0012	I	C	Library Manager	An unreadable volser was left in high-capacity input rack cell yyyy.
OP0013	I	C	Library Manager	The cartridge label located at cell (rack number:nn, rack column:mm, rack row:zz) has an unknown media type.
OP0014	I	C	Library Manager	An invalid volser (xxxxxx) was left in the convenience I/O station.
OP0015	I	C	Library Manager	The cartridge label located at cell (rack number:nn, rack column:mm, rack row:zz) is unreadable.
OP0016	I	C	Library Manager	The cartridge label located at cell (rack number:nn, rack column:mm, rack row:zz) is Invalid.
OP0017	S	S	Tape Drive	A load or unload failure has occurred on device: nnnn
OP0018	I	C	Library Manager	Target Storage Pool nn is out of physical volumes.
OP0019	I	S	Library Manager	VOLSER xxxxxx is damaged.
OP0020	I	C	Library Manager	The convenience I/O station door is open.
OP0021	I	C	Library Manager	The convenience I/O station door is open.
OP0022	S	S	Library Manager	Unknown intervention for condition xxxxxx
OP0023	S	C	Library Manager	Volser (xxxxxx) could not be put away. It was ejected to high-capacity output rack cell: yyyy.
OP0024	I	C	Library Manager	A duplicate VOLSER has been found at cell nnn.
OP0025	S	S	Library Manager	A duplicate VOLSER has been found at cell nnn .A cartridge could not be released from gripper x, accessor y.
OP0026	S	S	Library Manager	A cartridge has been dropped.
OP0027	MS		Library Manager	Pool nn is defined with a different media class and was reset to match.
OP0028	C,S Note 1	S	Library Manager	An emergency stop has occurred.

Message ID	Impact Code	TT	Product Area	Intervention Message Text
OP0029	S	C	Library Manager	Damaged volser (xxxxxx) ejected to the convenience I/O station.
OP0030	S	C	Library Manager	Cartridge (xxxxxx) has been left in uninstalled device.
OP0031	I	S	Library Manager	Device xxx is not ready.
OP0032	I	S	Library Manager	Device xxx is reporting an element address of zero. Call service.
OP0033	I	C	Library Manager	High capacity input station should be empty but is not.
OP0034	I	C	Library Manager	A mislabeled cleaner cartridge has been left in device xxx feed slot. Remove the cartridge.
OP0035	W	S	Library Manager	A recoverable error occurred on device xxx. A service call may be needed if the error persists.
OP0036	W	C	Library Manager	A cartridge containing invalid media has been left in device xxx feed slot. Remove the cartridge.
OP0037	W	C	Library Manager	An invalid media volser <xxxxxx> has been ejected to the convenience I/O station.
OP0038	S	C	Library Manager	A cartridge or cartridge label located at cell x y zz is upside-down.
OP0039	S	C	Library Manager	A duplicate Volser has been found at cell yyyy.
OP0040	S	C	Library Manager	The cartridge label located at cell yyyy is unreadable.
OP0041	S	C	Library Manager	The cartridge label located at cell yyyy is invalid.
OP0042	C,S Note 1	S	Library Manager	The system has failed. A service call is required.
OP0043	C	S	Library Manager	The accessor or gripper configuration has changed. The 3494 must be retaught.
OP0044	I	C	Library Manager	The top two I/O station cells are inaccessible. Move cartridges to cell 3.
OP0045	S	C	Media	Volser xxxxxx cannot be removed from its home location..
OP0046	I	C	Library Manager	Volser (xxxxxx) cannot be removed from the high-capacity station cell: yyyy.
OP0047	I	S	Library Manager	The device xxxxxx has failed and a service call is required to correct the problem.
OP0048	I	C	Media	A volser xxxxxx has an incorrect media type on the external label.
OP0049	S	S	Library Manager	A physical device's install status or online status has changed for a device attached to the TS7700 Virtualization Engine.
OP0050	S	S	Library Manager	Control of this physical device has been switched to the node on this cluster (the cluster where the operator intervention is listed).
OP0051	W		Library Manager	The library is out of HPCT cleaner cartridges.
OP0052	S	C	Library Manager	A volser (xxxxxx) with an unknown media type has been ejected to the convenience I/O station.
OP0053	S	C	Library Manager	A volser (xxxxxx) with an unknown media type has been ejected to high-capacity output facility cell: yyyy.
OP0054	I	C	Library Manager	Volser (xxxxxx) cannot be removed from convenience I/O station.
OP0055	I	C	Library Manager	Free storage threshold has been crossed for VTS z.
OP0056	I	C	Library Manager	A volser (xxxxxx) with an unknown media type has been left in the convenience input station.
OP0057	I	C	Library Manager	A volser (xxxxxx) with an unknown media type has been left in the high-capacity input station.
OP0058	S	C	Library Manager	An invalid volser (xxxxxx) has been ejected to the convenience I/O station.
OP0059	S	C	Library Manager	The cartridge label located at cell yyyy has an unknown media type.
OP0060	S	C	Library Manager	During an Inventory Update operation, volser xxxxxx was ejected to the convenience I/O station because there were no free cells.
OP0061	S	C	Library Manager	During an Inventory Update operation, volser xxxxxx was ejected to the high capacity station because there were no free cells.

Message ID	Impact Code	TT	Product Area	Intervention Message Text
OP0062	C,I Note 1	S	Library Manager	Power failure on accessor x. A service call is required.
OP0063	W	C	Library Manager	Limited Cache Free Space
OP0064	W	S	Library Manager	Dual Write has failed. A service call is required.
OP0065	S	C	Library Manager	Out of Cache Resource .
OP0066	M		Media	One or more volumes have been inserted into the library and marked unassigned.
OP0067	I		Library Manager	Eject failed for volser xxxxxx. This operation was initiated by the Library Manager.
OP0068	M		Library Manager	A Library Manager switch has completed. This switch was initiated by the operator.
OP0069	W		Library Manager	A Library Manager switch has completed. This switch was due to an error.
OP0070	W		Library Manager	A hard drive has failed. Call service.
OP0071	W		Library Manager	Mirroring disabled. Call service. Library is operational but degraded. Or LM-x mirroring disabled. Call service. Library is operational but degraded.
OP0072	C	S	Library Manager	Barrier door A is not fully retracted. Call service.
OP0073	C	S	Library Manager	Barrier door B is not fully retracted. Call service.
OP0074	S		Library Manager	Control unit on port xx requires a higher level of Library Manager.
OP0075	I		Library Manager	Database discrepancies have been found. Call service. Library is still operational.
OP0076	S	S	Library Manager	Volser xxxxxx cannot be found. Check home cell: yyyy and accessor A, gripper 1.
OP0077	S	S	Library Manager	Volser xxxxxx cannot be found. Check home cell: yyyy and accessor A, gripper 2.
OP0078	S	S	Library Manager	Volser xxxxxx cannot be found. Check home cell: yyyy and accessor B, gripper 1.
OP0079	S	S	Library Manager	Volser xxxxxx cannot be found. Check home cell: yyyy and accessor B, gripper 2.
OP0080	W		Library Manager	Error writing to dual write log (on Library Manager A or B).
OP0081	C	S	Library Manager	An emergency stop has occurred, or accessor A or B has failed. A service call is required.
OP0082	I	S	Library Manager	Volser xxxxxx left in convenience I/O slot nn due to vision system failure.
OP0083	I	S	Library Manager	Volser xxxxxx left in high capacity rack cell xx y zz due to vision system failure.
OP0084	W		Library Manager	Scratch mount performance is degraded. A service call is required.
OP0085	W		Library Manager	Database performance is degraded.
OP0086	W		Library Manager	Problem detected with Token Ring connection. Call service.
OP0087	W	S	Library Manager	Logging is now disabled on LM-x. Call service.
OP0088	S	C	Library Manager	Target Storage Pool xx is out of stacked volumes for VTS y.
OP0089	W		Library Manager	The number of xxxxxxxx constructs has reached the maximum number allowed (yyy).
OP0090	W		Library Manager	The number of xxxxxxxx constructs has exceeded yyy. The maximum number allowed is zzz.
OP0091	S	S	Library Manager	The yyyy internal LAN switch (HUB) has failed or is not configured correctly. Call service.
OP0092	S	S	Library Manager	A database error has occurred. View help panel for SQL error code xxxx. Call service.
OP0093	W	S	Library Manager	NVRAM read failure on LM-A. Call service.

Message ID	Impact Code	TT	Product Area	Intervention Message Text
OP0094	W	S	Library Manager	NVRAM write failure on LM-A. Call service.
OP0095	W	S	Library Manager	NVRAM read failure on LM-B. Call service.
OP0096	W	S	Library Manager	NVRAM write failure on LM-B. Call service.
OP0098	S	S	Library Manager	The yyyyy internal LAN switch (HUB) is not configured correctly. Call service.
OP0099	M	C	Library Manager	Volser XXXXXX was ejected during recovery processing.
OP0100	M	C	Media	A read-only status physical volume xxxxxx has been ejected.
OP0101	C	C	Media	This cluster is out of empty physical volumes.
OP0102	S	C	Media	A physical volume has a label error. Internal: xxxxxx, External: yyyyyy
OP0103	C	S	VTS/TS7700	A permanent, nonrecoverable tape volume vache error has occurred. (VTS z)
OP0104	S	S	Library Manager	An orphaned virtual volume (xxxxxx) has been found. Call service.
OP0105	S	S	Library Manager	A VTS has a CHECK-1 (xxxx) failure. (VTS z).
OP0106	S	C	VTS/TS7700	Virtual volume xxxxxx was only partially read.
OP0107	S	S	VTS/TS7700	Virtual volume xxxxxx was not fully recovered from damaged physical volume yyyyyy.
OP0108	W	S	Library Manager	The Tape Volume Cache is degraded (xxxx). (VTS z)
OP0109	W	S	Library Manager	Database restore from volume xxxxxx failed, attempting restore from next most recent. (VTS z)
OP0110	S	S	Library Manager	Insert of virtual volume xxxxxx failed during disaster recovery. (VTS z)
OP0111	S	S	Library Manager	Damaged volume xxxxxx ejected during disaster recovery. Could not be read on 2 drives. (VTS z)
OP0112	W	S	Tape Drive	Device serial number nnnnn has been made offline and/or unavailable by the TS7700 Engine with a reason code of mmmm.
OP0113	C	S	Library Manager	A VTS does not have enough available physical drives (359x) to continue operation. (VTS z)
OP0114	S	C	Library Manager	The grid partition attempted unsuccessfully to eject a stacked volume (xxxxxx) during disaster recovery. (VTS z)
OP0115	S	S	Media	The cluster attempted unsuccessfully to eject a damaged physical volume xxxxxx.
OP0116	S	S	Library Manager	VTS physical device xxx is cabled incorrectly. It has been made unavailable. (VTS z)
OP0117	W	S	Library Manager	The TS7700 cannot communicate with device xxx. It has been made unavailable. (VTS z)
OP0118	S	C	Library Manager	Mount of virtual volume xxxxxx failed because physical volume yyyyyy is not in the library. (rc=rrrr) (VTS z)
OP0119	W	S	Library Manager	Database restore from volume <xxxxxx> failed. Attempting to restore from next most recent event
OP0120	S	C	Media	Mount of virtual volume xxxxxx failed because physical volume yyyyyy is misplaced. (reason code= nnn)
OP0121	S	C	Media	Mount of virtual volume xxxxxx failed because physical volume yyyyyy is inaccessible.
OP0122	S	C	Media	Mount of virtual volume xxxxxx located on physical volume yyyyyy failed. (reason code=mmm)
OP0123	I	C	Media	Physical volume xxxxxx is in read-only status due to successive media errors.
OP0124	S	C	Media	Physical volume xxxxxx is unavailable
OP0125	W	S	Library Manager	The TS7700 Virtualization Engine controller is degraded. Error code yyyyy. Call service. (VTS z)
OP0126	W	C	Library Manager	The TS7700 Virtualization Engine requested that device xxx be made

Message ID	Impact Code	TT	Product Area	Intervention Message Text
				unavailable but a mount/demount is in progress. (VTS z)
OP0127	C	S	Tape Drive	An invalid mixture of physical drive types was detected.
OP0128	C	S	Tape Drive	The TS7700 Engine does not have enough physical drives to continue operation.
OP0130	I	C	Media	Physical volume xxxxxx failed scratch mount. Its label cannot be read and the tape must be re-initialized.
OP0131	I	C	Library Manager	Stacked volume xxxxxx ejected due to incompatible media type. (VTS z)
OP0132	W	C	Library Manager	Stacked volume xxxxxx could not be ejected because the convenience I/O station is full, or the door is open.
OP0134	M	C	Media	Physical volume xxxxxx is write-protected.
OP0135	I		Media	The TS7700 unsuccessfully attempted to eject write-protected physical volume xxxxxx.
OP0136	I	S	Media	Physical volume xxxxxx was moved to category FF08 due to unrecovered active data.
OP0138	C	C	Media	The common scratch pool (Pool 00) is out of mmmm media physical volumes.
OP0139	C	C	Media	Storage pool nn is out of scratch physical volumes.
OP0140	M		Media	VOLSER xxxxxx could not be moved from Storage Pool nn to Storage Pool mm. Error code = yyyy.
OP0141	I	S	Library Manager	VTS x was unable to obtain construct information for volser xxxxxx.
OP0142	S	S	Library Manager	Stacked volume xxxxxx exists in the VTS database but doesn't exist in the Library Manager database.
OP0143	M		Library Manager	VTS x has completed processing the stacked volumes as part of the Disaster Recovery inventory.
OP0144	W	S	Media	Eject failed on physical volume xxxxxx that contains active data. Error code = nnnn.
OP0145	W	S	Library Manager	Unable to make stacked volume xxxxxx read-only.
OP0146	W	S	Library Manager	Unable to make stacked volume xxxxxx read-write.
OP0147	W	S	Library Manager	Stacked volume xxxxxx is in an invalid state.
OP0148	S	C	Library Manager	There are stacked volumes in the VTS database that can't be found in the library.
OP0149	C	C	Media	Storage Pool nn is out of write compatible physical scratch volumes
OP0150	I	C	Media	The physical volume xxxxxx has become degraded. This condition is the result of a media condition report.
OP0151	W	S	Library Manager	The time on the TS7700 could not be adjusted. Contact your IBM service representative.
OP0152	S	C	Media	Active data on ejected physical volume xxxxxx need to be recovered.
OP0153	S	C	Media	Physical volume xxxxxx is misplaced.
OP0154	I	C	Library Manager	Pool nn has stacked volumes of wrong (opposite) media class. (VTS z)
OP0155	I	S	Library Manager	Device nnnn is configured incorrectly. 3592-E05 must be set to emulate a 3592-J1A.
OP0160	S	C	Library Manager	Above threshold for uncopied data in cache, throttling possible (VTS z)
OP0161	M	C	Library Manager	Below threshold for uncopied data in cache (VTS z)
OP0164	M		VTS/TS7700	The TS7700 Engine has initiated auto removal of volumes has begun on this disk-only cluster.
OP0165	M	C	Media	One or more non-writable physical volumes were found.
OP0166	M	C	Media	Copy export did not export physical volume xxxxxx because of an incorrect format.
OP0167	M	C	Media	Unsupported media (for example: JA, JJ) is set for First Media, Second Media, or both for Physical Volume Pools(s): xx.

Message ID	Impact Code	TT	Product Area	Intervention Message Text
OP0168	I	C	Media	One or more unsupported empty media has been found and cannot be used by the installed tape drives.
OP0169	C	C	VTS/TS7700	The 'xx' is out of cache space. The total used, 'yy' TiB, is less than 1 TiB from the total cache space or less than 5% below the total cache space, 'zz' TiB.
OP0170	W	C	VTS/TS7700	The 'xx' has limited cache free space. The total used, 'yy' TiB, is less than 3 TiB from the total cache space or less than 15% of the total cache space, 'zz' TiB.
OP0171	W	C	Media	Unsupported scratch media of type 'xxxx' were inserted into the library.
OP0172	M		VTS/TS7700	Automatic removal of logical volumes on this cluster has been disabled due to a small cache resident only partition size.
OP0173	M		VTS/TS7700	Automatic removal of logical volumes on this cluster has been enabled by having a sufficient cache resident only partition size.
OP0200	W	C,S	VTS/TS7700	The local cluster is operating in immediate copy mode and at least one copy did not finish prior to the completion of the Rewind/Unload command.
OP0201	M	c,r	VTS/TS7700	All immediate deferred copy operations are complete.
OP0202	W	C,S	VTS/TS7700	One or more volumes opened as part of a synchronous mode copy operation did not synchronize completely across both clusters.
OP0203	M	c,r	VTS/TS7700	Synchronization across both clusters has completed for all volumes that were in the synchronous deferred state.
OP0204	W	C,S	VTS/TS7700	Copy operations for the local cluster are disabled by the system.
OP0205	M	c,r	VTS/TS7700	The system has enabled copy operations at the local cluster.
OP0206	M	C	VTS/TS7700	Copy operations for the local cluster are disabled by the host.
OP0207	M	c	VTS/TS7700	Copy operations for the local cluster are enabled by the host.
OP0300	I	S	Library Manager	One or more virtual volumes have corrupted tokens. Call service.
OP0301	S	S	Library Manager	Previous Peer-to-Peer Virtual Volume Restore did not complete. Call service. (VTS z)
OP0302	W	C	Library Manager	Volser xxxxxx is damaged. (VTS z)
OP0303	S	C	Library Manager	Volser xxxxxx is in the manual eject category. (VTS z)
OP0304	S	S	Library Manager	VTS ADSM port xx has failed. Call service. (VTS z)
OP0305	W	C	Library Manager	More than nn errors encountered for stacked volume XXXXXX. (VTS z)
OP0306	W	C	Library Manager	Pool nn has stacked volumes of different media class and was reset to default values. (VTS z)
OP0307	I		Library Manager	VTS attempted High Capacity Cache Option with xxxxx volumes but yyyyy volumes already exist. (VTS z)
OP0308	C		Library Manager	Virtualization Engine (VE) has been taught/configured incorrectly as a cluster.
OP0309	C		Library Manager	Cluster has been taught/configured incorrectly as a Virtualization Engine (VE)
OP0310	M		VTS/TS7700	The data class nnnn was automatically created with the default actions for volume virtual volume xxxxxx
OP0311	M		VTS/TS7700	The Storage Class nnnn was automatically created with the default actions for volume xxxxxx.
OP0312	M		VTS/TS7700	The Management Class nnnn was automatically created with the default actions for volume xxxxxx.
OP0313	M		VTS/TS7700	The Storage Group nnnn was automatically created with the default actions for volume xxxxxx.
OP0314	M		VTS/TS7700	The inhibit create command was ignored and one or more constructs

Message ID	Impact Code	TT	Product Area	Intervention Message Text
				were automatically created with the default actions for volume xxxxxx as a result of an imbalance of defined SMS constructs across the Domain
OP0315	M		VTS/TS7700	The maximum number of defined constructs has been reached. An imbalance of defined SMS constructs across the domain has occurred. Default constructs were assigned for volume xxxxxx.
OP0316	C	S	VTS/TS7700	The TS7700 Engine has detected corrupted tokens for one or more virtual volumes.
OP0400	W	C	Library Manager	The library is out of ETC cleaner cartridges.
OP0401	M	C	Library Manager	xxxxx cleaner cartridge (yyyyyy) was ejected due to maximum use.
OP0402	W	S	Library Manager	xx percent of mounts performed by accessor y over the past hour required excessive mount recovery. Call service.
OP0403	W	S	Library Manager	xx percent of mounts performed by accessor y over the past 24 hours required excessive mount recovery. Call service.
OP0404	W	S	Library Manager	Device zzz required excessive mount recovery (xx percent of mounts) over the past hour (accessor y). Call service.
OP0405	W	S	Library Manager	Device zzz required excessive mount recovery (xx percent of mounts) over the past 24 hours (accessor y). Call service.
OP0406	W		Library Manager	Logging is degraded on LM-x. Call service.
OP0407	W		Library Manager	Communication with the MasterConsole has failed (LM rc = xx, MasterConsole rc = yy). Call service.
OP0408	W		Library Manager	LM-x: MasterConsole configuration has failed (rc = yy). Call service.
OP0409	M		VTS/TS7700	The volume hold function was disabled for fast-ready category xxxx
OP0410	M		VTS/TS7700	The hold/expire time has been changed to nnn hours for fast-ready category xxxx
OP0411	M		VTS/TS7700	A fast-ready attribute was deleted for category xxxx.
OP0412	W		Library Manager	Volser (xxxxxx) has been returned to the station. A service cartridge cannot be inserted via CIO or HCIO.
OP0413	W		Library Manager	Possible hard drive failure detected. View help panel for error code = yy.
OP0414	I	S	Library Manager	Error threshold exceeded for accessor x. View help panel for error code = yy.
OP0415	S	C	Library Manager	During an insert/inventory the media type of volser xxxxxx did not match its destination pool. Volser is not assigned to a VTS.
OP0416	W		Library Manager	Preferred EASH in frame xx is not responding. Call service.
OP0417	W		Library Manager	Non-preferred EASH in frame xx is not responding. Call service.
OP0418	W		Library Manager	Port xx on the preferred EASH in frame yy has failed. Call service.
OP0419	W		Library Manager	Port xx on the non-preferred EASH in frame yy has failed. Call service.
OP0420	W		Library Manager	Library Serial Number xxxxxxxx from CU/VTS on port yy does not match the number entered during Configuration.
OP0421	W		Library Manager	Library First Storage Element xxxx from CU/VTS on port yy does not match the element entered during Configuration.
OP0422	W		Library Manager	Device xxx with World Wide Node Name yy.yy is cabled incorrectly. It is in the wrong lvirtual or physical library.
OP0423	W	C	Library Manager	A volser (xxxxxx) with an unsupported media type has been left in the convenience input station.
OP0424	I	C	Library Manager	An unreadable volser was left in the convenience I/O station, element address xxxx.
OP0425	W	S	Library Manager	Two devices (xxx, yyy) have the same serial number (zzzzzzz). Both have been uninstalled. Call service.
OP0426	W	S	Library Manager	Two devices (xxx, yyy) have the same element addr (zzzz). Both have

Message ID	Impact Code	TT	Product Area	Intervention Message Text
				been uninstalled. Call service.
OP0427	W	S	Library Manager	The 3584 library reported that calibration is required.
OP0428	S	S	Library	The 3584 reported a hardware error (nnnn) . Contact your IBM service representative.
OP0430	W		Library Manager	The Primary Link has encountered multiple failures. Call service.
OP0431				Reserved
OP0432				Reserved
OP0433	M		VTS/TS7700	The Send Interventions to Host Console settings on the Events panel has been turned on.
OP0434	M		VTS/TS7700	The Send Interventions to Host Console setting on the Events panel has been turned off.
OP0435	W	S	Library Manager	Two devices (xxx;yyy) have the same serial number (zzzzzzz). Second has been uninstalled. Call service.
OP0436	W	S	Library Manager	Two devices (xxx;yyy) have the same element address (zzzz). Second has been uninstalled. Call service.
OP0437	S	S	Library Manager	Cartridge xxxxxx has been left in uninstalled device yyy. Call service.
OP0438	W	S	Library Manager	Device yyy is reporting an element address of zero. Call service.
OP0439	W,S See note 2	C	VTS/TS7700	The TS7700 has lost communication with the primary Encryption Key Server.
OP0440	W,S See note 2	C	VTS/TS7700	The TS7700 has lost communication with the alternate Encryption Key Server.
OP0441	M	S	Library Manager	Possible degradation due to 3584 TapeAlert error (nnnn). Service call Home has been generated.
OP0442	S	C	Library	Physical volume xxxxxx is inaccessible.
OP0443	S	S	Library	The virtual tape library has detected an inconsistency with the physical tape library.
OP0444	W		Library	LM PC has not been rebooted in 6 months.
OP0445	W	C	VTS/TS7700	The primary Encryption Key Server was set to UNAVAILABLE
OP0446	W	C	VTS/TS7700	The alternate Encryption Key Server was set to UNAVAILABLE
OP0448	M	C	Media	More than nn errors were encountered for physical volume xxxxxx.
OP0449	M	C	Media	Pool nn has physical volumes of the wrong media class.
OP0450	M	C	Media	The media type of VOLSER xxxxxx does not match its volser range. The VOLSER was not assigned to a cluster.
OP0451	S	C	VTS/TS7700	Encryption is enabled. No Encryption Key Server are configured.
OP0452	W	C	VTS/TS7700	Device nnn could not encrypt data in storage pool nn (Encryption Key Server error mmm).
OP0453	W	C	VTS/TS7700	Device nnnn could not append encrypted data to cartridge xxxxxx (Encryption Key Server error mmm).
OP0454	W	C	VTS/TS7700	Device nnnn could not decrypt data from cartridge xxxxxx (Encryption Key Server error mmm).
OP0455	W	S	Tape Drive	Device nnnnn is not in 3592 E05 Native mode. The Device was made unavailable..
OP0456	W	C	VTS/TS7700	Encryption is enabled on the virtual tape library. Device nnnnn is not enabled for system-managed encryption.
OP0457	W	S	Library Manager	Device nnnnn is not in 3592 J1A emulation mode. The device was made unavailable
OP0458	S	S	Library Manager	An internal hardware/software error has occurred.
OP0459	S	S	Library Manager	A disk cache error has occurred.
OP0460	W	S	Library Manager	A Grid link error xxxxxx has occurred.
OP0461	I	S	Library Manager	A tape drive error: xxxxxx has occurred.

Message ID	Impact Code	TT	Product Area	Intervention Message Text
OP0462	I	S	Library Manager	A fiber switch error xxxxxx has occurred.
OP0463	W	S	Library Manager	A TSSC error has occurred. The TSSC is unable to call home.
OP0464	I	S	Library Manager	A library error has occurred
OP0465	I	S	Library Manager	An Autonomic Ownership Takeover Mode communications error occurred. The device is unable to communicate with the remote cluster.
OP0466	I	C	Library Manager	An Encryption Key Manager server error xxxxxx error has occurred
OP0467	I	S	Library Manager	Tape cartridge xxxxxx is stuck in a storage cell.
OP0468	W		Library	The 3494 Library Manager has an Event.
OP0469	W		Library	The 3494 Library Manager is in a degraded state.
OP0470	M		VTS/TS7700	Delete Expire capability has been disabled.
OP0471	I	C	Media	The Field Microcode Replacement tape xxxxxx cannot be used as a data cartridge.
OP0472	M		Media	The database backup to physical volume xxxxxx failed during the Copy Export operation as a result of a media error.
OP0473	M		Media	A media error occurred during the Copy Export operation and the physical volume xxxxxx has been ejected. The medium may be degraded, and should not be reused in an export pool.
OP0474	M		Media	The Copy Export operation did not export physical volume xxxxxx because the primary copy for virtual volume xxxxxx is currently unavailable.
OP0475	M		Media	Copy Export did not export virtual volume xxxxxx because it was not able to premigrate the volume to the export pool.
OP0476	M		VTS/TS7700	The event was cleared automatically.
OP0477	M		VTS/TS7700	The event was cleared by 'xxxx'.
OP0480	M	S	VTS/TS7700	Service Call Home will be initiated.
OP0481	M	S	VTS/TS7700	Service Call Home was initiated.
OP0482	M	S	VTS/TS7700	Service Call Home was initiated with PMR number xxxxx,yyy,zzz.
OP0483	C	S	VTS/TS7700	A permanent cache problem was encountered.
OP0484	C	S	VTS/TS7700	A permanent cache problem was encountered.
OP0485	C	S	VTS/TS7700	A 3956-CC6 permanent check was encountered.
OP0486	C	S	VTS/TS7700	A CHECK1 condition was encountered.
OP0487	C	S	VTS/TS7700	An adapter microcode CHECK1 condition occurred.
OP0488	C	C	VTS/TS7700	A channel event occurred.
OP0489	C	S	VTS/TS7700	An undetermined error occurred.
OP0490	C	C	VTS/TS7700	An operator notification occurred.
OP0491	C	S	VTS/TS7700	A microcode exception occurred in the ATL daemon.
OP0492	C	S	VTS/TS7700	An undetermined error occurred.
OP0493	C		VTS/TS7700	An informational message was presented by CU.
OP0494	C	C	VTS/TS7700	An environmental problem has occurred.
OP0495	C	S	VTS/TS7700	A microcode exception occurred in the tape daemon.
OP0496	C	S	VTS/TS7700	The tape daemon detected a CRC error.
OP0497	C	S	VTS/TS7700	A microcode exception occurred in the tape daemon.
OP0498	C	S	VTS/TS7700	A microcode exception occurred in the BATE daemon.
OP0499	M	S	VTS/TS7700	An error was detected and a Call Home has been generated. The call home includes the following SIM(s): SIMID-RESOURCE-REF_CODES 'xx'.
OP0500	M		VTS/TS7700	The times displayed by the local and remote clusters nnnn differ by more than 5 seconds.
OP0510	M		VTS/TS7700	nnnn logged into the Web interface.
OP0511	M		VTS/TS7700	nnnn logged out of the Web interface.
OP0512	M		VTS/TS7700	User mmmm the setting to send future events to host.

Message ID	Impact Code	TT	Product Area	Intervention Message Text
OP0514	M		VTS/TS7700	Custom Role mmmm has been changed.
OP0515	M		VTS/TS7700	SNMP settings have changed. Values are: SNMP Version: nn Enable SNMP Traps: mmmm Trap Community Name: xxxx
OP0516	M		VTS/TS7700	Stand-alone mount was initiated for volume xxxxxx on device zzz.
OP0517	M		VTS/TS7700	Stand-alone demount was initiated on device zzz.
OP0518	M		VTS/TS7700	Node nnnn has been shut down.
OP0519	M		VTS/TS7700	Custom Role mmmm has been created.
OP0520	M		VTS/TS7700	Custom Role mmmm has been deleted.
OP0521	M		VTS/TS7700	The security settings for local authentication have changed. Local Account Expiration: mmmm. The account will expire if the password is not changed in n days.
OP0522	M		VTS/TS7700	The security settings for local authentication have changed. Local Account Expiration: mmmm.
OP0523	M		VTS/TS7700	The security settings for local authentication have changed. Local Account Lock: mmmm. The account will be locked after n unsuccessful attempts to enter the password.
OP0524	M		VTS/TS7700	The security settings for local authentication have changed. Local Account Lock: mmmm.
OP0525	C	S	Tape Drive	A TAPE DRIVE FAILURE has occurred
OP0526	C	S	VTS/TS7700	A FibrePath, FibreSwitch, or FibreInterface error has occurred.
OP0527	M		VTS/TS7700	Stand-alone mount for volume xxxxxx on device zzz completed successfully.
OP0528	M		VTS/TS7700	Stand-alone demount for volume xxxxxx on device zzz completed successfully.
OP0529	W		VTS/TS7700	Stand-alone mount for volume xxxxxx on device zzz failed with error code nnnn.
OP0530	W		VTS/TS7700	Stand-alone demount for volume xxxxxx on device zzz failed with error code nnnn.
OP0531	W	C, S	VTS/TS7700	The network connection on grid port xx with IP address: n.m.y.z experienced a possible loss of connectivity.
OP0532	C	C, S	VTS/TS7700	The network connection on grid port xx with IP address: n.m.y.z is not responding.
OP0533	M	C, S	VTS/TS7700	The connection of local cluster to remote cluster nnnn with remote port xx and IP address: n.m.y.z of the remote cluster was unavailable for a brief time.
OP0534	W	C, S	VTS/TS7700	The connection of local cluster to remote cluster nnnn with remote port xx and IP address: n.m.y.z of the remote cluster is losing packages, or the connection was unavailable.
OP0535	C	C, S	VTS/TS7700	The connection of local cluster to remote cluster nnnn with remote port xx and IP address: n.m.y.z of the remote cluster, was not available.
OP0536	C	S	VTS/TS7700	The link to remote cluster: nnnn with IP address: n.m.y.z is in the offline state.
OP0537	M	C, S	VTS/TS7700	The connection of local cluster to remote cluster nnnn with remote port xx and remote IP address: n.m.y.z was unavailable for a brief time or because the local cluster was unable to retrieve the status of the remote adapter.
OP0538	W	C, S	VTS/TS7700	The connection of local cluster to remote cluster nnnn with remote port xx and remote IP address: n.m.y.z was not available, because the local cluster reports the status of the remote adapter as not available.
OP0539	C	S	VTS/TS7700	The connection of local cluster to remote cluster nnnn with remote port xx and IP address: n.m.y.z of the remote cluster was not available, because the state of the remote adapter appears as Failed.

Message ID	Impact Code	TT	Product Area	Intervention Message Text
OP0540	C	C, S	VTS/TS7700	The link to remote cluster: nnnn With IP address: n.m.y.z is in the offline state. NTC (Network Traffic Controller) reports link state: mmmm
OP0541	W	C, S	VTS/TS7700	Degraded state to gateway IP: gateway IP address.
OP0542	C	C, S	VTS/TS7700	Failed state to gateway IP: gateway IP address.
OP0543	W	C, S	VTS/TS7700	The primary and alternate grid adapters have different speeds: Primary nnnn link speed is: xxx Alternate mmmm link speed is: yyy
OP0544	C	S	VTS/TS7700	The primary grid Ethernet adapter nnnn is down.
OP0545	C	S	VTS/TS7700	The alternate grid Ethernet adapter nnnn is down.
OP0546	M	S	VTS/TS7700	Could not retrieve the date on cluster nnnn.
OP0547	C	C, S	VTS/TS7700	A time synchronization failure was detected between cluster nnnn and Cluster mmmm.
OP0548	W	S	VTS/TS7700	There is no communication with one or more clusters in the Grid.
OP0549	W		VTS/TS7700	One or more clusters in the Grid are in Service status.
OP0550	M	C	TSSC	Service Call Home, TSSC was unable to generate a PMR number
OP0551	C	S	VTS/TS7700	A permanent cache problem was encountered.
OP0552	C	S	VTS/TS7700	A temporary cache problem was encountered.
OP0553	C	S	VTS/TS7700	The cache has an unreadable sector.
OP0554	C	S	VTS/TS7700	A cache power supply has failed.
OP0555	C	S	VTS/TS7700	A cache power or fan assembly has failed.
OP0556	C	S	VTS/TS7700	The cache has lost redundancy.
OP0557	C	S	VTS/TS7700	A problem exists with the cabling or drive path inside the cache enclosure.
OP0558	C	S	VTS/TS7700	A cache component has failed or been removed.
OP0559	C	S	VTS/TS7700	A cache controller has failed or been removed.
OP0560	C	S	VTS/TS7700	An environmental service module (ESM) canister in the cache has failed or been removed.
OP0561	C	S	VTS/TS7700	A cache drive is missing.
OP0562	C	S	VTS/TS7700	A cache drive is in a degraded state.
OP0563	C	S	VTS/TS7700	A cache disk has reported errors.
OP0564	C	S	VTS/TS7700	A cache RAID array has failed drives.
OP0565	C	S	VTS/TS7700	An unsupported number of drive enclosures exists on a cache loop.
OP0566	C	S	VTS/TS7700	The reported data rate of a cache drive channel is outside the expected range.
OP0567	C	S	VTS/TS7700	The data rate could not be obtained on a drive channel for the cache.
OP0568	C	S	VTS/TS7700	An incorrect number of enclosures exists on a cache loop.
OP0569	C	S	VTS/TS7700	The number of enclosures on a cache loop cannot be determined.
OP0570	C	S	VTS/TS7700	Mismatched drives exist in a cache array.
OP0571	C	S	VTS/TS7700	Disk operation in the cache is degraded.
OP0572	M	S	VTS/TS7700	Network errors were detected while connecting to the cache.
OP0573	C	S	VTS/TS7700	An unreadable sector exists in the cache.
OP0574	C	S	VTS/TS7700	A parity error occurred in the cache.
OP0575	C	S	VTS/TS7700	A cache media error occurred.
OP0576	M	r	VTS/TS7700	A temporary cache problem was encountered.
OP0577	C	S	VTS/TS7700	The cache has an unreadable sector.
OP0578	C	S	VTS/TS7700	A cache power supply has failed.
OP0579	C	S	VTS/TS7700	A cache power or fan assembly has failed.
OP0580	C	S	VTS/TS7700	The cache has lost redundancy.
OP0581	C	S	VTS/TS7700	A problem exists with the cabling or drive path inside the cache enclosure.
OP0582	C	S	VTS/TS7700	A cache component has failed or been removed.
OP0583	C	S	VTS/TS7700	A cache controller has failed or been removed.

Message ID	Impact Code	TT	Product Area	Intervention Message Text
OP0584	C	S	VTS/TS7700	An environmental service module (ESM) canister in the cache has failed or been removed.
OP0585	C	S	VTS/TS7700	A cache drive is missing.
OP0586	C	S	VTS/TS7700	A cache drive is in a degraded state.
OP0587	C	S	VTS/TS7700	A cache disk has reported errors.
OP0588	C	S	VTS/TS7700	A cache RAID array has failed drives.
OP0589	C	S	VTS/TS7700	An unsupported number of drive enclosures exists on a cache loop.
OP0590	C	S	VTS/TS7700	The reported data rate of a cache drive channel is outside the expected range.
OP0591	C	S	VTS/TS7700	The data rate could not be obtained on a drive channel for the cache.
OP0592	C	S	VTS/TS7700	An incorrect number of enclosures exists on a cache loop.
OP0593	C	S	VTS/TS7700	The number of enclosures on a cache loop cannot be determined.
OP0594	C	S	VTS/TS7700	Mismatched drives exist in a cache array.
OP0595	C	S	VTS/TS7700	Disk operation in the cache is degraded.
OP0596	C	S	VTS/TS7700	Network errors were detected while connecting to the cache.
OP0597	C	S	VTS/TS7700	An unreadable sector exists in the cache.
OP0598	C	S	VTS/TS7700	A parity error occurred in the cache.
OP0599	C	S	VTS/TS7700	A cache media error occurred.
OP0600	W,S See note 2	S	VTS/TS7700	A temporary cache problem was encountered.
OP0601	C	S	VTS/TS7700	The cache has an unreadable sector.
OP0602	C	S	VTS/TS7700	A cache power supply has failed.
OP0603	C	S	VTS/TS7700	A cache power or fan assembly has failed.
OP0604	C	S	VTS/TS7700	The cache has lost redundancy.
OP0605	C	S	VTS/TS7700	A problem exists with the cabling or drive path inside the cache enclosure.
OP0606	C	S	VTS/TS7700	A cache component has failed or been removed.
OP0607	C	S	VTS/TS7700	A cache controller has failed or been removed.
OP0608	C	S	VTS/TS7700	An environmental service module (ESM) canister in the cache has failed or been removed.
OP0609	C	S	VTS/TS7700	A cache drive is missing.
OP0610	C	S	VTS/TS7700	A cache drive is in a degraded state.
OP0611	C	S	VTS/TS7700	A cache disk has reported errors.
OP0612	C	S	VTS/TS7700	A cache RAID array has failed drives.
OP0613	C	S	VTS/TS7700	An unsupported number of drive enclosures exists on a cache loop.
OP0614	C	S	VTS/TS7700	The reported data rate of a cache drive channel is outside the expected range.
OP0615	C	S	VTS/TS7700	The data rate could not be obtained on a drive channel for the cache.
OP0616	C	S	VTS/TS7700	An incorrect number of enclosures exists on a cache loop.
OP0617	C	S	VTS/TS7700	The number of enclosures on a cache loop cannot be determined.
OP0618	C	S	VTS/TS7700	Mismatched drives exist in a cache array.
OP0619	C	S	VTS/TS7700	Disk operation in the cache is degraded.
OP0620	C	S	VTS/TS7700	Network errors were detected while connecting to the cache.
OP0621	C	S	VTS/TS7700	An unreadable sector exists in the cache.
OP0622	C	S	VTS/TS7700	A parity error occurred in the cache.
OP0623	C	S	VTS/TS7700	A cache media error occurred.
OP0624	C	S	VTS/TS7700	An error was detected in the disk cache.
OP0625	C	S	VTS/TS7700	A system reboot interrupted a call home.
OP0626	M	S	VTS/TS7700	One or more issues on the system have persisted for longer than 48 hours.
OP0627	C	S	VTS/TS7700	There is a problem with network communication required for

Message ID	Impact Code	TT	Product Area	Intervention Message Text
				autonomic ownership takeover.
OP0628	C	S	VTS/TS7700	The cache controller is not configured.
OP0629	C	S	VTS/TS7700	The cache file system is inefficiently allocating its available space.
OP0630	C	S	VTS/TS7700	There is a problem with the network fail over code.
OP0631	C	S	VTS/TS7700	The error detection feature has restarted five times in 24 hours.
OP0632	C	S	VTS/TS7700	The available memory is not configured correctly.
OP0633	C	S	VTS/TS7700	A CPU has failed.
OP0634	C	S	VTS/TS7700	Port 0 on the customer network has failed.
OP0635	C	S	VTS/TS7700	Port 1 on the customer network has failed.
OP0636	C	S	VTS/TS7700	Both Ethernet routers have failed.
OP0637	C	S	VTS/TS7700	The primary Ethernet router has failed.
OP0638	C	S	VTS/TS7700	The alternate Ethernet router has failed.
OP0639	C	S	VTS/TS7700	The Network Time Protocol (NTP) server is not responding.
OP0640	C	S	VTS/TS7700	A port in an Ethernet router has failed.
OP0641	C	S	VTS/TS7700	A port in an Ethernet router shows increasing errors.
OP0642	C	S	VTS/TS7700	Communication between the disk cache and the primary switch has failed.
OP0643	C	S	VTS/TS7700	Communication between the disk cache and the alternate switch has failed.
OP0644	C		VTS/TS7700	One or more arrays are not encrypted.
OP0645	M		VTS/TS7700	This is a cache Call Home test.
OP0646	W	C	Tape Drive	Encryption is enabled on the virtual tape library. Device xxxxxxxx is not encryption-capable. The device was made unavailable.
OP0647	C	C,S	VTS/TS7700	Host adapter 'xx' is offline.
OP0648	W	C,S	VTS/TS7700	The link 'xx' to host adapter 'yy' is unavailable.
OP0649	C	S	VTS/TS7700	No IBM media changer devices were found on the system.
OP0650	W	S	VTS/TS7700	The system identified 'xxxx' IBM media changer devices. This is an incorrect number of devices.
OP0651	I	S	VTS/TS7700	The IBM media changer 'xxxx' is in an unknown state.
OP0652	W	S	VTS/TS7700	The fibre channel adapter for tape interface 'xx' cannot be identified.
OP0653	W	S	VTS/TS7700	The drive name 'xx' does not match port 'yy' .
OP0654	C	S	VTS/TS7700	Drives could not be configured on a 3590 or 3592 tape drive.
OP0655	W	S	VTS/TS7700	The physical tape SCSI device 'xxxx' is in the state: 'yyyy' .
OP0656	C	S	VTS/TS7700	Primary and alternate paths for tape SCSI device 'xxxx' are unavailable.
OP0657	W	S	VTS/TS7700	The tape drive device 'xxxx' is shown as 'yyyy' in the cluster.
OP0658	W	S	VTS/TS7700	The tape drive device 'xxxx' is in the state 'yyyy' .
OP0659	W	S	VTS/TS7700	The path 'xx' for tape drive 'yyyy' is unavailable.
OP0660	C	S	VTS/TS7700	Both primary and alternate paths for tape drive device 'xxxx' are unavailable.
OP0661	W	S	VTS/TS7700	Tape device 'xxxx' is in an unknown state.
OP0662	W	S	VTS/TS7700	The path 'xx' to tape device 'yyyy' is disabled.
OP0663	C	S	VTS/TS7700	No tape drives were found in the system.
OP0664	W	S	VTS/TS7700	All paths on the 'xx' lower channel protocol interface failed.
OP0665	C	S	VTS/TS7700	All paths on the primary and alternate lower fibre channel protocol interface failed.
OP0666	C	S	VTS/TS7700	The primary and alternate paths for 'xxxx' on the lower fibre channel protocol interface failed.
OP0667	W	S	VTS/TS7700	The tape SCSI device path 'xxxx' on lower fibre channel protocol interface failed.
OP0668	W	S	VTS/TS7700	The state of the drive 'xxxx' on the 'yy' could not be obtained.
OP0669	W	C,S	VTS/TS7700	The tape drive 'xxxx' is not available to the physical library 'yy' .

Message ID	Impact Code	TT	Product Area	Intervention Message Text
OP0670	W	S	VTS/TS7700	This system contains both E05 drives in native mode and J1A drives.
OP0671	S	S	VTS/TS7700	All drives are reported as in the busy state.
OP0672	M	S	VTS/TS7700	The world wide node name (WWNN) could not be obtained for drive 'xxxx' .
OP0673	I	C,S	VTS/TS7700	The physical volume status could not be obtained.
OP0674	S	C,S	VTS/TS7700	No physical volumes are found on the system.
OP0675	I	C,S	VTS/TS7700	The physical volume pool status could not be obtained.
OP0676	W	C	VTS/TS7700	Physical volume pool 'xx' is out of scratch volumes.
OP0677	I	C,S	VTS/TS7700	Volume 'xxxxxx' reports a state 'yyyyyy' with access in 'zz' status.
OP0678	W	C,S	VTS/TS7700	One or more IP addresses ('xxxx') of the 'yy' LDAP server are losing packets or one or more ports are unavailable.
OP0679	C	C,S	VTS/TS7700	One or more IP addresses ('xxxx') of the 'yy' LDAP server are unreachable or one or more ports or adapters might have failed.
OP0680	C	C	VTS/TS7700	LDAP server service is down. IP: 'xxxx' Port: 'yy'
OP0681	W	C,S	VTS/TS7700	LDAP server connection is not correctly configured. IP: 'xxxx' Port: 'yy'
OP0682	W	C,S	VTS/TS7700	Authentication server 'xxxx' connection ('yyyy') experienced a loss of connectivity.
OP0683	C	C,S	VTS/TS7700	Authentication server 'xxxx' service is down. IP: 'yyyy' Port: 'zz'
OP0684	W	C,S	VTS/TS7700	The connection to authentication server 'xxxx' is not correctly configured. IP: 'yyyy' Port: 'zz'
OP0687	C	S	VTS/TS7700	An unknown cache problem was encountered. Disk model: 'xxxx' .
OP0688	C	S	VTS/TS7700	The cache has an unreadable sector error. Disk model: 'xxxx' .
OP0689	C	S	VTS/TS7700	A cache power supply has failed. Disk model: 'xxxx' .
OP0690	C	S	VTS/TS7700	A loss of redundancy has occurred in cache. Disk model: 'xxxx'
OP0691	C	S	VTS/TS7700	A problem exists with the cabling or drive path inside the cache enclosure. Disk model: 'xxxx' .
OP0692	C	S	VTS/TS7700	A DDM is missing. Disk model: 'xxxx'
OP0693	C	S	VTS/TS7700	A cache controller has failed or been removed. Disk model: 'xxxx'
OP0694	C	S	VTS/TS7700	An environmental service module (ESM) canister in the cache has failed or been removed. Disk model: 'xxxx'
OP0695	C	S	VTS/TS7700	A cache component has failed or been removed. Disk model: 'xxxx'
OP0696	C	S	VTS/TS7700	Failed drives exist in a cache RAID array. Disk model: 'xxxx'
OP0697	C	S	VTS/TS7700	Mismatched drives exist in a cache array. Disk model: 'xxxx'
OP0698	C	S	VTS/TS7700	Disk operation in the cache is degraded. Disk model: 'xxxx'
OP0699	W	S	VTS/TS7700	Network errors were detected while connecting to the cache. Disk model: 'xxxx'
OP0700	C	S	VTS/TS7700	An unsupported number of drive enclosures exists on a cache loop. Disk model: 'xxxx'
OP0701	C	S	VTS/TS7700	The reported data rate of a cache drive channel is outside the expected range. Disk model: 'xxxx'
OP0702	C	S	VTS/TS7700	The data rate could not be obtained on a drive channel for the cache. Disk model: 'xxxx'
OP0703	C	S	VTS/TS7700	An incorrect number of enclosures exists on a cache loop. Disk model: 'xxxx'
OP0704	C	S	VTS/TS7700	The number of enclosures on a cache loop cannot be determined. Disk model: 'xxxx'
OP0705	C	S	VTS/TS7700	An unreadable sector exists in the cache. Disk model: 'xxxx'
OP0706	C	S	VTS/TS7700	A disk cache parity mismatch error occurred in the cache. Disk model: 'xxxx'
OP0707	C	S	VTS/TS7700	A cache media error occurred. Disk model: 'xxxx'
OP0708	C	S	VTS/TS7700	A cache power or fan assembly has failed. Disk model: 'xxxx'

Message ID	Impact Code	TT	Product Area	Intervention Message Text
OP0709	C	S	VT/TS7700	A cache drive is in a degraded state. Disk model: 'xxxx'
OP0710	C	S	VT/TS7700	A cache disk has reported errors. Disk model: 'xxxx'
OP0711	C	S	VT/TS7700	The cache battery is in a degraded state. Disk model: 'xxxx'
OP0712	C	S	VT/TS7700	The cache controller is in a degraded state. Disk model: 'xxxx'
OP0713	C	S	VT/TS7700	Information for this event cannot be displayed on this cluster.
OP0714	W	S	VT/TS7700	A cache DDM has failed. String: 'xx' , enclosure: 'yy' , slot: 'zz' . The disk model is: 'nnnn'.
OP0715	W		TSSC	Connection to TSSC is broken.
OP0716	W		TSSC	High packet loss occurred on the connection from TS7700 to TSSC.
OP0717	W		TSSC	TSSC call home is in locked state.
OP0718	W		TSSC	TSSC not communicating with external network.
OP0719	W		TSSC	TSSC 'xx' port is Down or in unknown state.
OP0720	C		TSSC	Both TSSC ports are down or in unknown state.
OP0721	W		TSSC	TSSC virtual interface 'xx' is not configured properly.
OP0722	W		TSSC	TSSC IP address: 'xxxx' is responding intermittently.
OP0723	C		TSSC	TSSC IP address: 'xxxx' is not responding.
OP0724	C	C,S	VT/TS7700	The connection to 'xx' adapter link is not UP. Has not been UP for up to 'yy' minutes.
OP0725	W	C,S	VT/TS7700	Adapter 'xx' link is experiencing a high level of CRC errors.
OP0726	W	C,S	VT/TS7700	Adapter 'xx' link is experiencing a high level of collisions.
OP0727	W	C,S	VT/TS7700	Ping test to address 'xx' failed. The system has been in this condition for up to 'yy' minutes.
OP0728	W	C,S	VT/TS7700	Ping test to address 'xx' has an excessive packet loss. Has been in this condition for up to 'yy' minutes.
OP0729	W	C,S	VT/TS7700	The connection to 'xx' adapter link is not UP. Has not been UP for up to 'yy' minutes.
OP0730	W	S	VT/TS7700	Call Home is currently disabled,
OP0731	W	S	VT/TS7700	The number of CRC errors is close to the threshold.
OP0732	C	S	VT/TS7700	The number of CRC errors has exceeded the threshold.
OP0733	W	S	VT/TS7700	Encryption Key Server 'xx' : 'yy' is not connected.
OP0734	W	S	VT/TS7700	Stand-alone system has GRID IP address configured.
OP0735	W	S	VT/TS7700	Virtual interface for MI is not correctly configured.
OP0736	W	S	VT/TS7700	Traffic on the external virtual interface is being redirected through an alternate path.
OP0737	C	S	VT/TS7700	Internal configuration for ordering name resolution has the incorrect look-up order for hosts.
OP0738	W	C,S	VT/TS7700	NTP Server has been unavailable for more than 30 minutes.
OP0739	C	C,S	VT/TS7700	NTP Server has been unavailable for more than 'xx' minutes.
OP0740	C	S	VT/TS7700	Invalid configuration found in Domain Name Protocol file.
OP0741	C	S	VT/TS7700	Invalid configuration found in routing table.
OP0742	W	S	VT/TS7700	'xx' path in the customer network is down.
OP0743	C	S	VT/TS7700	Both ethernet paths to the external network are down.
OP0744	W	S	VT/TS7700	Performance settings for storage related devices are not set correctly.
OP0745	C	S	VT/TS7700	Problems found with mirrored disks ('xx' and 'yy').
OP0746	C	S	VT/TS7700	Disk: 'xx' was found on state: 'yy' .
OP0747	W	S	VT/TS7700	Configured memory size is: 'xx' MB, and the expected memory size is: 'yy' MB.
OP0748	W	S	VT/TS7700	A problem was detected with the DVD-RAM in the system.
OP0749	C	S	VT/TS7700	Both switches must be configured with the same type (internal or external).
OP0750	C	C,S	VT/TS7700	Fibre Channel communication error.
OP0751	C	C,S	VT/TS7700	Fibre Channel hardware error.

Message ID	Impact Code	TT	Product Area	Intervention Message Text
OP0752	W	S	VTS/TS7700	Fan or Power Supply failure detected in the server.
OP0753	W	S	VTS/TS7700	PCI slot failure detected in the server.
OP0754	W	S	VTS/TS7700	SPCN failure detected in the system.
OP0755	W	S	VTS/TS7700	A sysplanar failure was detected. The reported system reference code (SRC) is: 'xx' .
OP0756	C	S	VTS/TS7700	Adapter: 'xx' is in status: 'yy' .
OP0757	C	S	VTS/TS7700	Unable to communicate with the 'xx' I/O adapter card.
OP0758	C	S	VTS/TS7700	Unable to communicate with the 'xx' I/O drawer.
OP0759	W	S	VTS/TS7700	A problem was found on the volume group or file system: 'xx' , problem reported is: 'yy' .
OP0760	W	S	VTS/TS7700	File system: 'xx' , is using 'yy' % of its available space.
OP0761	C	S	VTS/TS7700	File system: 'xx' , is using 'yy' % of its available space.
OP0762	W	S	VTS/TS7700	DVD is having problems; the reported operation is: 'xx' .
OP0763	M	S	VTS/TS7700	System health checks were placed in skip mode. Call Home has been temporally disabled.
OP0764	W	S	VTS/TS7700	The tape drive device 'xxxx' with serial number: 'yyyy' is shown as 'zzzz' in the cluster.
OP0765	C	S	VTS/TS7700	The power supply/fan assembly 'xx' in enclosure 'yy' has failed or has been removed. Disk model: 'zzzz'
OP0766	C	S	VTS/TS7700	Environmental service module (ESM) canister 'xx' in the expansion 'yy' has failed or been removed, FRU: 'zz' . Disk model: 'nnnn'
OP0767	W	C,S	VTS/TS7700	The link 'xx' to host adapter 'yy' is unavailable.
OP0768	S	C	Media	Physical volume 'xxxxxx' already exists. Duplicate physical volumes cannot be inserted.
OP0769	W	S	VTS/TS7700	Unable to retrieve primary and secondary cache IP values from VPD for cache string: 'xx' .
OP0770	W	S	VTS/TS7700	Cache controller for string: 'xx' , in slot: 'yy' is in the 'zz' state.
OP0771	W	S	VTS/TS7700	The status of the cache controller: 'xx' for string: 'yy' is unknown.
OP0772	W	S	VTS/TS7700	The status of the battery for controller: 'xx' , in string: 'yy' , is degraded.
OP0773	W	S	VTS/TS7700	Adapter 'xx' path to cache, for string: 'yy' is inactive.
OP0774	W	S	VTS/TS7700	Unable to detect a controller connected to adapter 'xx' , for string: 'yy' .
OP0775	W	S	VTS/TS7700	Unable to find the link to the cache controller for string: 'xx' .
OP0776	W	S	VTS/TS7700	Only one link to cache controller found for string: 'xx' .
OP0777	W	S	VTS/TS7700	All of the spare disks in the string are missing.
OP0778	W	S	VTS/TS7700	Unable to retrieve information about spare disks.
OP0779	W	S	VTS/TS7700	Number of spare disks found is 'xx' when the expected number is 'yy' .
OP0780	C	S	VTS/TS7700	One or more processes for the Hnode are not running.
OP0781	W	S	VTS/TS7700	An error occurred when retrieving Grid information from VPD.
OP0782	W	C,S	Library	Physical Library reported: 'xx' status.
OP0783	C	C,S	Library	Unable to retrieve physical library state.
OP0784	W	S	Media	A tape drive mismatch has been detected. The tape drives on the Virtual Library are not the same as in Physical Library.
OP0785	W	S	VTS/TS7700	Expected 'xx' grid links for this configuration, but found only 'yy' links.
OP0786	C	S	Tape Drive	The TS7700 does not have enough sunset physical drives to read active data from sunset media.
OP0787	W	C	VTS/TS7700	AOTM is unable to communicate with the local TSSC.
OP0788	W	C	VTS/TS7700	AOTM is unable to communicate with the remote TSSC of node 'xx' .
OP0789	W	C	VTS/TS7700	AOTM is unable to communicate with the remote node 'xx' .
OP0790	C	S	VTS/TS7700	A memory leak has been detected.
OP0791	W	S	VTS/TS7700	Disk array 'xx' for string: 'yy' does not support encryption.

Message ID	Impact Code	TT	Product Area	Intervention Message Text
OP0792	W	S	VTS/TS7700	Disk array 'xx' for string: 'yy' is not encrypted.
OP0793	W	S	VTS/TS7700	Disk at enclosure 'xx' , slot 'yy' does not support encryption.
OP0794	W	S	VTS/TS7700	Imbalance in SMFS detected.
OP0795	W	C,S	VTS/TS7700	The grid link adapter is running at 'xx' Mbps, but the expected speed is 'yy' Mbps.
OP0796	W	S	VTS/TS7700	Unable to query the Grid network adapters.
OP0797	W	C,S	VTS/TS7700	HDM inter-cluster heartbeats are taking longer than expected.
OP0798	W	S	VTS/TS7700	The system is running on 'xx' CPUs, when the expected number of CPUs are 'yy' .
OP0799	W	S	VTS/TS7700	The system is running on 'xx' CPU cores, when the expected number of CPU cores are 'yy' .
OP0800	W	S	VTS/TS7700	The router firmware level is 'xx' , but the expected level is 'yy' .
OP0801	W	S	VTS/TS7700	The router ROM level is 'xx' , but the expected level is 'yy' .
OP0802	W	C,S	VTS/TS7700	Both the Active and Standby Library Managers are offline.
OP0803	W	C,S	VTS/TS7700	The Active Library Manager is offline.
OP0804	W	S	VTS/TS7700	Invalid configuration found in ordering name resolution file.
OP0805	W	S	VTS/TS7700	Could not find 'xx' in the list of 'yy' Disks on this system.
OP0806	C	S	VTS/TS7700	At least one vital process for Vnode is not running.
OP0807	W	S	VTS/TS7700	Unable to retrieve the information about Logical Devices.
OP0808	W	S	VTS/TS7700	The number of logical devices is 'xx' , number of tape daemons is 'yy' .
OP0809	W	C	VTS/TS7700	AOTM is enabled, but the cluster detected errors.
OP0810	M	C	Media	A scratch sunset physical volume 'xxxxxx' was inserted into the library that the TS7700 cannot use.
OP0811	W	S	VTS/TS7700	The communication to the External Key Server for Cache is down.
OP0812	C	S	VTS/TS7700	At least one vital process for Vnode is not running.
OP0813	W	S	VTS/TS7700	The state for proxy ip 'xx' is in state ('yy') The state: 0 is Offline 1 is Unknown
OP0814	W	S	VTS/TS7700	Fibre Channel switch 'xx' FW level is downlevel: 'yy' .
OP0815	W	S	VTS/TS7700	All paths in the PRI switch are down.
OP0816	W	S	VTS/TS7700	All paths in the ALT switch are down.
OP0817	C	S	VTS/TS7700	Problems found with mirrored disk 'xx' .
OP0818	C	S	VTS/TS7700	Problems found with disks in rootvg volume group.
OP0819	W	S	VTS/TS7700	Disk pool 'xx' for string: 'yy' does not support encryption.
OP0820	W	S	VTS/TS7700	Disk pool 'xx' for string: 'yy' is not encrypted.
OP0821	W	S	VTS/TS7700	Mismatched drives exist in a cache disk pool. Disk model: 'xxxx'
OP0822	C	S	VTS/TS7700	Failed Disk pool 'xx' in string: 'yy'
OP0823	W	S	VTS/TS7700	String: 'xx' , Disk pool 'yy' with preservation capacity of 'zz' drives, is now using 'nn' . Another drive failure will cause a Check1 process.
OP0824	C	S	VTS/TS7700	String: 'xx' , Failed drives exist in a cache disk pool. Disk model: 'yyyy'
OP0825	C	S	Library	Fibre Channel communication error to both switches.
OP0826	C	S	VTS/TS7700	I/O Drawer 'xx' is reporting error(s): 'yy'
OP0827	C	C,S	VTS/TS7700	Fiber switch hardware issues found in 'xx' path(S).
OP0828	C	C,S	VTS/TS7700	Communication error in the 'xx' path in between the TS7700 and the fiber switch.
OP0829	C	S	VTS/TS7700	Failed Disk array 'xx' in string: 'yy'
PP0010	M		VTS/TS7700	Due to an imbalance of defined SMS constructs across the Domain, the constructs were automatically created with the default actions on the following distributed Cluster(s): xx.
PP0011	M		VTS/TS7700	Due to an imbalance of defined SMS constructs across the Domain, the default constructs were assigned on the following distributed

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Message ID	Impact Code	TT	Product Area	Intervention Message Text
				Cluster(s): xx.
VT0103	M		VTS/TS7700	Warning: Primary Cluster volume xxxxxx copied from Secondary Cluster despite Stg Mgmt Class specification to inhibit volume copy.

Notes:

1. Two impact codes are listed. The first has to do with the physical library the condition occurred in, the second the impact if there is a VTS or TS7700 that the host is connected to.
2. Two impact codes are listed. The first one is if communication is lost to just one of the two enterprise key managers. The second is if communications is lost to both EKMs.

Other host messages

In addition to CBR3750I there are other host messages that can be of interest when monitoring the TS7700 storage system.

S	CBR3002E	library not operational
	CBR3730E	synchronous mode copies deferred state (CBR3731I when state is left)
	CBR3750I	general message documenting errors reported from library to host (refer to TS7700 whitepaper)
S	CBR3751I	device unavailable
r	CBR3752I	device now available (can be varied online)
S	CBR3758E	degraded message
S	CBR3760E	vision system not operational (TS7740)
S	CBR3761E	library manager offline
S	CBR3762E	intervention required
S	CBR3763E	library check 1
C	CBR3764E	all storage cells full (TS7740)
C	CBR3765E	no cleaner volumes (TS7740)
S	CBR3766E	dual write disabled (TS7740)
C	CBR3770I	volume misplaced
C	CBR3776I	volume inaccessible
C	CBR3781I	no MEDIAx scratch volumes available
*	CBR3783E	library manager switchover in progress
r	CBR3784I	library manager switchover is complete (jobs may need to be restarted or CBR4196D retries)
	CBR3785E	copy operations disabled
	CBR3786E	VTS operations degraded (CBR3768I when state is left)
	CBR3787E	immediate mode copies deferred (CBR3791I when state is left)
	CBR3788E	service preparation occurring
C	CBR3789E	out of VTS stacked volumes (TS7740)

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C	CBR3790E	VTS library has insufficient resources to continue mount processing (TS7740)
C	CBR3792E	limited cache free space warning state (TS7720) - CBR3793I when state is left
S	CBR3794A	out of cache resource critical state (TS7720) - CBR3795I when state is left
C	CBR3796E	grid links degraded (CBR3797I when state is left)
S	CBR3798E	forced pause has occurred in library
	CBR3799E	copy operations disabled by LIBRARY REQUEST command
C	CBR3660A	scratch threshold message - below threshold notification
	CBR3615E	problem with the cartridge entry exit CBRUXENT (entry processing disabled)
	CBR3655E	problem with the cartridge eject exit CBRUXEJC (eject processing disabled)
	CBR4225E	problem with change use attribute exit CBRUXCUA (private -> scratch processing disabled)
	CBR4196D	mount retry message (many different error codes associated with this message)
	CBR3006I	library unknown in I/O configuration (message can also be valid depending on state of the library)
	CBR3710I	failure communicating with the library (LIBSERV failure)
	CBR3715I	no paths available for I/O
	IOS000I	messages are always good to look at as well as any other IOSxxxx messages
	IEA439I	four minute timeout message issued by device services when library doesn't respond

(*) S if initiated based on error, no action when initiated manually

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References

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