

ID	Severity	Log	Description	Cause	Action
0x00010000	major	ram, nvram, buzzer, popup	Battery temperature is above the threshold	Environment is too hot or battery may be malfunctioning	Replace battery or increase air flow
0x00010001	info	ram, nvram, popup	Battery temperature is normal	Battery temperature is normal	No action required
0x00010002	warning	nvram, buzzer, popup	BBU is not able to retain data in cache memory for more than 72 hrs	Three possible causes: 1. The battery is drained. 2. The battery is being reconditioned. 3. The combination of battery and host memory is improper	If the battery is drained or being reconditioned, allow it to recharge normally. If the wrong battery is installed, replace it with the correct one for your system or accept less than 72 hours of retention time
0x00010003	info	ram, popup	Battery capacity is normal	Battery capacity is normal	No action required
0x00010004	info	ram, nvram, popup	Battery is discharging	Battery is re-conditioning	No action is required
0x00010005	info	ram, popup	Battery is charging	Battery is charging	No action is required
0x00010006	info	ram, popup	Battery reconditioning is completed	Battery reconditioning is completed	No action is required.
0x00010007	major	ram, nvram, buzzer, popup	Battery is malfunctioning	Battery is malfunctioning	Try reconditioning again, or replace battery or replace battery charging circuit in fan box
0x00010008	info	ram, nvram, popup	Battery has been reconditioned successfully	Battery has been reconditioned	No action is required
0x00010009	major	ram, nvram, buzzer, popup	Battery reconditioning has failed	Battery is malfunctioning	Replace battery
0x0001000A	warning	ram, nvram, buzzer, popup	Battery is reaching the end of life	Battery drains too many times	Replace battery
0x0001000B	warning	ram, popup	Battery is removed	Battery is removed	Insert battery back
0x0001000C	info	ram, popup	Battery is inserted	Battery is inserted	No action is required
0x0001000D	warning	ram, nvram, buzzer, popup	Battery charging has failed	Battery is malfunctioning	Replace battery
0x0001000E	info	ram, nvram, popup	Battery reconditioning has started	Battery reconditioning started	No action is required
0x0001000F	warning	ram, nvram, popup	Battery recondition has been terminated	Probable Battery removal or Battery malfunction	Replace battery and try again
0x00010011	warning	ram, nvram, popup	The write policy of writeback logical drive switched from writeback to writethru	Battery is re-conditioning or battery is malfunctioning	Check the event log to see whether battery is re-conditioning
0x00010012	info	ram, nvram, popup	The write policy of writeback logical drive switched from writethru to writeback	Battery holds the charge that can sustain the power to the DRAM for 72 hours and more	No action is required
0x00010013	warning	ram, nvram, popup	Battery is charging in high temperature	Input cause string here	Input action string here
0x00010014	major	ram, nvram, popup	Battery cannot function with the enclosure or with the attached battery board	Battery and battery board do not belong to this enclosure or battery cannot work with the battery board	Input action string here
0x00010015	info	ram, nvram, popup	Logical drive writeback cache maybe enabled w/o battery support	Users send the command to force the enclosure/system switched from write through to write back mode	No action is required
0x00010016	info	ram, popup	Battery is fully charged	Battery is fully charged	No action is required
0x00010017	warning	ram, popup	Battery is not present	No battery is detected on the controller or cooling unit during boot time	Install the battery, or check if the battery is properly connected
0x00010018	critical	ram, popup	Battery is not accessible	The battery has failed or it is not connected properly	Connect the battery properly or replace it
0x00020000	info	ram, popup	Not available	Input cause string here	Input action string here
0x00020001	info	ram, popup	BBU flushing has started	The system cache flushing is started	No action is required

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0x00020002	info	ram, popup	BBU flushing has ended	The system cache flushing is complete	No action is required
0x00020003	critical	ram, nvram, popup	BBU flushing has failed	The system cache flushing is stopped because error	No action is required
0x00030000	info	ram, popup	Redundancy check is started	User started dedundancy check or BGA scheduler started it	No action required
0x00030001	info	ram, popup	Redundancy check is completed	Redundancy check is completed	No action required
0x00030002	info	ram, popup	Redundancy check is paused	User paused it, or BGA scheduler paused it, or other higer priority BGA activity paused it	No action required
0x00030003	info	ram, popup	Redundancy check is resumed	User resumed it, or BGA scheduler resumed it, or other higer priority BGA is completed or stopped, or resumed after reboot	No action required
0x00030004	info	ram, popup	Redundancy check is stopped	User stopped it, or BGA scheduler stopped it, or the logical drive is deleted, or critical, or offline	No action required
0x00030006	critical	ram, nvram, buzzer, popup	Redundancy check is aborted due to an internal error	System resource is not available	Reduced system load or reboot
0x00030007	major	ram, nvram, buzzer, popup	Redundancy check encountered inconsistent block(s)	Temporary hardware malfunction	Check the data on the specified block(s) in inconsistent block table of the logical drive
0x00030008	info	ram, popup	Redundancy check task is queued	Input cause string here	Input action string here
0x00030009	info	ram, popup	Redundancy check is in progress	Input cause string here	Input action string here
0x0003000A	info	ram, popup	Redundancy check task is stopped internally	LD is not online	No action required
0x0003000B	info	ram, popup	Redundancy check is started on unsynchronized logical drive	The user issued Redundancy check on an unsynchronized logical drive	No action required
0x00040000	info	ram, popup	Event logging is enabled	Event logging enabled	None
0x00040001	info	ram, popup	Event logging is disabled	Event logging disabled	None
0x00040002	info	ram, nvram, popup	Event log buffer is cleared in RAM	Event log buffer cleared	None
0x00040003	info	ram, nvram, popup	Event log buffer is cleared in NVRAM	Event log buffer cleared in NVRAM	None
0x00040004	info	ram, nvram, popup	Event log buffer is cleared in MDD	Event log buffer cleared in MDD	None
0x00040005	info	ram, nvram, popup	The system is started	System has been started	None
0x00040006	info	ram, nvram, popup	The system is stopped	System has been stopped	None
0x00040007	info	ram, popup	The controller parameter(s) are changed by user	The controller parameter(s) are changed by user	None
0x00040008	major	ram, nvram, popup	The controller is reset by Watch Dog timer	The Watch Dog hardware has reset the controller because of problems	Update to the new firmware. If persisting, replace the controller
0x00040009	info	ram, nvram, popup	The controller has new crash information	New crash information is found because of controller crash in the previous boot	Contact support with the crash information to help analyze the cause of the crash
0x00040010	info	ram, popup	The controller's heart beat has started	Partner controller has joined the clique	None
0x00040011	info	ram, popup	The controller's heart beat has stopped	Partner controller has been removed from the clique	None

ID	Severity	Log	Description	Cause	Action
0x00040012	info	nvrAm, popup	The partner controller's heart beat has started	Partner controller has joined the clique	None
0x00040013	info	ram, nvrAm, popup	The partner controller's heart beat has stopped	Partner controller has been removed from the clique	None
0x00040014	warning	ram, nvrAm, popup	The partner controller's heart beat has skipped	Sequence of heart beat has skipped, heart beat transport may not be reliable	None
0x00040015	warning	ram, nvrAm, popup	The controller's main scheduler has frozen	There may be hardware or firmware fault	None
0x00040016	warning	nvrAm, popup	Controller has entered maintenance mode since configured physical disk seen by partner controller is not seen here	Single ported drives may be present	None
0x00040017	warning	nvrAm, popup	Controller has entered maintenance mode due to mismatch of physical disks types	SAS cabling may not be correct	None
0x00040018	warning	nvrAm, popup	Controller has entered maintenance mode due to mismatch of physical disk WWN	There may be hardware or firmware fault	Update to the new firmware. If persisting, replace the controller
0x00040019	warning	nvrAm, popup	Controller has entered maintenance mode due to mismatch of SATA Disks	There may be cabling or hardware or firmware fault	None
0x00040020	warning	nvrAm, popup	Controller has entered maintenance mode due to mismatch of Disk IDs	There may be SAS cabling or hardware or firmware fault	None
0x00040021	warning	nvrAm, popup	Controller has entered maintenance mode since no physical disks are seen as seen by Partner controller	There may be SAS cabling hardware or firmware fault	Fix the SAS cabling if applicable
0x00040022	info	nvrAm, buzzer, popup	Controller is started	Controller is started	None
0x00040023	info	nvrAm, popup	Controller is set to Active Mode	Controller is set to Active Mode	None
0x00040024	info	nvrAm, popup	Controller is set to Standby Mode	Controller is set to Standby Mode	None
0x00040025	critical	ram, nvrAm, buzzer, popup	Controller Failed Over as partner is removed	Controller removed or shutdown by user or is bad	Check controller if not removed or shutdown by user
0x00040026	critical	ram, nvrAm, buzzer, popup	Controller Failed Over as heart beat stopped	Controller removed or shutdown by user or is bad	Check controller if not removed or shutdown by user
0x00040027	critical	ram, nvrAm, buzzer, popup	Controller set to Maintenance Mode because of hardware mismatch with partner	Controller hardware is different from that of the partner controller	Check if this controller is of same Hardware model/configuration as the partner controller
0x00040028	critical	ram, nvrAm, buzzer, popup	Controller Firmware mismatch with that of the partner controller	The Controller Firmware is of different version than the partner controller	Auto Firmware synchronization will kick in to upgrade or downgrade the firmware
0x00040029	critical	ram, nvrAm, buzzer, popup	Controller set to Maintenance Mode because Firmware is flashing in the partner controller	Controller set to Maintenance Mode because Firmware is flashing in the partner controller	Exit out of Maintenance mode once Firmware flashing is complete on the partner controller
0x0004002A	info	ram, nvrAm, popup	Controller failed over to Partner controller for Firmware flashing this controller	User initiated Non Disruptive Firmware flashing has forced the failover	none
0x0004002B	critical	ram, nvrAm, popup	Partner Controller was placed on reset during Fail Over processing	Partner Controller was reset to avoid split brain scenario	none
0x0004002C	critical	ram, nvrAm, popup	Controller was placed on reset during Fail Over processing	Partner Controller was reset to avoid split brain scenario	none

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0x0004002D	critical	ram, nvram, popup	Controller set to Maintenance Mode because of flash image version mismatch with partner	Controller flash image version is different from that of the partner controller	Update this controller to the same flash image version as the partner controller
0x0004002E	critical	ram, nvram, popup	Controller was reset as it was not able to join the running partner controller	The running partner controller is busy or faulty or the communication to it is faulty	Please check the partner controller and if required replace it
0x00040030	critical	ram, nvram, popup	Controller has been set to Maintenance mode because there is a mismatch in the Controller Model or Hardware version with that of the partner controller	Controller has been set to Maintenance mode because there is a mismatch in the Controller Model or Hardware version with that of the partner controller	Replace this controller with the same Model and Hardware version as that of the other partner controller
0x00040031	critical	ram, nvram, popup	Controller has been set to Maintenance mode because there is a mismatch in the Controller Memory size with that of the partner controller	Controller has been set to Maintenance mode because there is a mismatch in the Controller Memory size with that of the partner controller	Replace this controller's memory with the same memory size as that of the other partner controller
0x00040032	critical	nvram, popup	Partner Controller has entered maintenance mode to protect user data since one of the configured physical drives was disconnected in the partner controller	A configured physical drive was detected as removed from one of the controllers. The physical drive belongs to an array that has at least one non-redundant or critical logical drive	Check and correct cable connections to external JBOD enclosures. Rebuild any critical logical drives. Back up array data. Replace the physical drive. Bring controller out of maintenance mode. See product manual for more information
0x00040033	major	ram, nvram, popup	The controller has reset because it encountered a firmware problem	The controller has reset because it encountered a firmware problem	If resets happen frequently, update to new firmware or replace the controller
0x00050000	info	ram, popup	PSU fan or blower is turned on	fans or blowers start because either high temperature or power on default	No action is required
0x00050001	info	ram, nvram, popup	PSU fan or blower is turned off	fans or blowers stop because temperature dropped or stopped by users	No action is required
0x00050002	info	ram, popup	PSU fan or blower speed is increased	Either controller or enclosure temperature is above warning threshold	No action is required
0x00050003	info	ram, popup	PSU fan or blower speed is decreased	Both controller and enclosure temperature is below warning threshold	No action is required
0x00050004	major	ram, nvram, buzzer, popup	PSU fan or blower is malfunctioning	PSU fan is malfunctioning	Replace PSU
0x00050005	info	ram, nvram, popup	PSU fan or blower is inserted	PSU fan is inserted	No action is required
0x00050006	warning	ram, nvram, popup	PSU fan or blower is removed	PSU fan is removed	No action is required
0x00050007	info	ram, nvram, popup	PSU fan or blower is functioning normally	PSU fan or blower is functioning normally	No action is required
0x00050008	warning	ram, nvram, buzzer, popup	PSU fan or blower is NOT installed	The firmware does not detect the device existence	Check fans or blowers
0x00050009	warning	ram, popup	PSU fan or blower status is unknown	Can not get information from PSU fan or blower	If persistent, replace PSU
0x00060000	warning	ram, nvram, buzzer, popup	SEP is NOT found	SEP is NOT present or malfunctioning	Insert or replace SEP hardware
0x00060002	info	ram, popup	SEP is found	SEP is present or is functional	No action is required
0x0006000c	info	ram, popup	JBOD system connected	JBOD system is detected	None
0x0006000d	critical	ram, nvram, buzzer, popup	JBOD system either is removed or malfunctioned	Bad connection or users remove the connection	Check Expander firmware and connection
0x0006000e	warning	ram, nvram, buzzer	SEP I2C device access failure	Cannot access SEP I2C device	None
0x0006000f	info	ram, nvram	SEP I2C device access recovered from failure	An SEP I2C device access recovered	If the condition persists, replace the controller

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0x00070000	major	ram, nvram, buzzer, popup	Host interface controller has detected parity error	Input cause string here	Input action string here
0x00070001	warning	ram, buzzer, popup	Host interface controller has detected data parity error	Input cause string here	Input action string here
0x00070002	warning	ram, buzzer, popup	Host interface controller has detected command parity error	Input cause string here	Input action string here
0x00070003	info	ram, popup	Host interface controller has detected bus reset	Input cause string here	Input action string here
0x00070004	major	ram, nvram, buzzer, popup	Host interface controller has encountered an unrecoverable error	Input cause string here	Input action string here
0x00070005	warning	ram, buzzer, popup	Host interface controller has received "abort task" command	Input cause string here	Input action string here
0x00070006	warning	ram, buzzer, popup	Host interface controller has received "abort task set" command	Input cause string here	Input action string here
0x00070007	warning	ram, buzzer, popup	Host interface controller has received "clear ACA" command	Input cause string here	Input action string here
0x00070008	warning	ram, buzzer, popup	Host interface controller has received "clear task set" command	Input cause string here	Input action string here
0x00070009	info	ram, popup	Host interface controller has received "LUN reset" command	Input cause string here	Input action string here
0x0007000A	warning	ram, buzzer, popup	Host interface controller is informed that the initiator has detected an error	Input cause string here	Input action string here
0x0007000B	warning	ram, buzzer, popup	Host interface controller has received illegal secondary identification	Input cause string here	Input action string here
0x0007000C	warning	ram, buzzer, popup	Host interface controller has received a message parity error	Input cause string here	Input action string here
0x0007000D	info	ram, popup	Host interface controller has recieved a bus reboot	Input cause string here	Input action string here
0x0007000E	info	ram, popup	Host interface link is up	Input cause string here	Input action string here
0x0007000F	info	ram, popup	Host interface link is down	Input cause string here	Input action string here
0x00070010	warning	ram, popup	Host interface controller has encountered an unknown error	Input cause string here	Input action string here
0x00070011	warning	ram, popup	Host interface controller has encountered a system error	Input cause string here	Input action string here
0x00070012	fatal	ram, nvram, buzzer, popup	Host interface controller has encountered a fatal error	Input cause string here	Input action string here
0x00070013	info	ram, popup	Host interface controller settings have changed	Input cause string here	Input action string here
0x00070014	warning	ram, popup	Host interface controller has received "WARM reset" command	WARM RESET task management function is initiated from initiator, most likely initiator is trying to recover from errors or timeout period expired	Input action string here

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0x00070015	warning	ram, popup	Host interface controller has received "COLD reset" command	COLD RESET task management function is initiated from initiator, most likely initiator is trying to recover from errors or timeout period expired	Input action string here
0x00070060	warning	ram, nvram, buzzer, popup	Host Interface controller MU handshake failed	Input cause string here	Input action string here
0x00070061	critical	ram, nvram, buzzer, popup	Host Interface controller , HMU has stopped	Input cause string here	Input action string here
0x00070062	info	ram, popup	Host Interface controller , FMU has unloaded	Input cause string here	Input action string here
0x00070080	info	ram, popup	Fibre Channel host interface controller has detected bus reset	Input cause string here	Input action string here
0x00070081	info	ram, popup	Fibre Channel host interface controller has received "LUN reset" command	Input cause string here	Input action string here
0x00070082	fatal	ram, nvram, buzzer, popup	Fibre Channel host interface controller has encountered a fatal error	Input cause string here	Input action string here
0x00070083	info	ram, popup	Fibre Channel host interface controller link is up	Input cause string here	Input action string here
0x00070084	info	ram, popup	Fibre Channel controller link is down	Input cause string here	Input action string here
0x00070085	info	ram, popup	Fibre Channel host interface controller settings have changed	Input cause string here	Input action string here
0x000700A0	info	ram, nvram, popup	SCSI host interface controller settings have changed	Input cause string here	no action required
0x000700A6	info	ram, popup	External bus reset has occurred	Input cause string here	Input action string here
0x000700A7	info	ram, popup	IOC bus reset has occurred	Input cause string here	Input action string here
0x000700A8	warning	ram, nvram, popup	Parity error is detected during command phase	Input cause string here	Input action string here
0x000700A9	warning	ram, nvram, popup	Parity error is detected during message out phase	Input cause string here	Input action string here
0x000700AA	warning	ram, nvram, popup	CRC error is detected while receiving CMD information unit	Input cause string here	Input action string here
0x000700AB	warning	ram, nvram, popup	Initiator sent message for detecting an error	Input cause string here	Input action string here
0x000700AC	warning	ram, nvram, popup	Parity error is detected during Data Out phase	Input cause string here	Input action string here
0x000700AD	warning	ram, nvram, popup	CRC error is detected during Data Out phase	Input cause string here	Input action string here
0x000700AE	warning	ram, nvram, popup	Unknown priority reason is detected	Input cause string here	Input action string here
0x000700C0	warning	ram, nvram, popup	Zoning permission settings with the expander has been reset to defaults	NA	No action required
0x000700C1	warning	ram, nvram, popup	Zoning expander has been rebooted.	NA	No action required
0x000700C2	warning	ram, nvram, popup	Zoning permission settings with the expander different than expected	Internal Zoning Permission settings exported by the expander differ from the last known setting with the SCM.	The valid settings have been updated correctly.

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0x00080000	info	ram, nvram, popup	Logical drive Initialization has started	Logical drive Initialization was started by User	None
0x00080001	info	ram, nvram, popup	Logical drive initialization has completed	User requested Logical drive initialization has completed	None
0x00080002	info	ram, nvram, popup	Logical drive initialization has paused	Logical drive initialization has paused either internally or by user	None
0x00080003	info	ram, nvram, popup	Logical drive initialization has resumed	Logical drive initialization has resumed internally or by user	None
0x00080004	info	ram, nvram, popup	Logical drive initialization has stopped	Logical drive initialization has been stopped by user	None
0x00080005	warning	ram, nvram, buzzer, popup	Logical drive initialization marks the logical drive offline	Logical drive initialization marks the logical drive offline due to drive errors	None
0x00080006	warning	ram, nvram, buzzer, popup	Logical Drive Initialization is aborted due to an internal error	Logical Drive Initialization has stopped due to an internal error	None
0x00080007	info	ram, nvram, popup	Quick Logical drive initialization has started	Quick Logical drive initialization was started by user	None
0x00080008	info	ram, nvram, popup	Quick Logical drive initialization has completed	User requested Quick Logical drive initialization has completed	None
0x00080009	info	ram, nvram, popup	Quick Logical drive initialization has paused	Quick Logical drive initialization has paused either internally or by user	None
0x0008000A	info	ram, nvram, popup	Quick Logical drive initialization has resumed	Quick Logical drive initialization has resumed either internally or by User	None
0x0008000B	info	ram, nvram, popup	Quick Logical drive initialization has stopped	Quick Logical drive initialization has been stopped by User	None
0x0008000C	warning	ram, nvram, buzzer, popup	Quick Logical drive initialization marks the logical drive offline	Quick Logical drive initialization marks the logical drive offline due to drive errors	None
0x0008000D	warning	ram, nvram, buzzer, popup	Quick Logical Drive Initialization is aborted due to an internal error	Quick Logical Drive Initialization has stopped due to an internal error	None
0x0008000E	info	ram, nvram, popup	Logical Drive Initialization is queued	Logical Drive Initialization is queued	None
0x0008000F	info	ram, nvram, popup	Quick Logical Drive Initialization is queued	Quick Logical Drive Initialization is queued	None
0x00080010	info	ram, popup	Logical Drive Initialization is in progress	Logical Drive Initialization was started by User	None
0x00090000	info	ram, popup	A new Logical drive has been created	A logical drive has been added by the user to the array	None
0x00090001	info	ram, popup	Logical drive has been deleted	A logical drive has been deleted by the user	None
0x00090002	info	ram, popup	Logical drive has been placed online	All the physical drives of the array are online	None
0x00090003	major	ram, nvram, buzzer, popup	Logical drive has been placed offline. Possible Data Loss	One or more of the Physical Drives of the array are Offline	Check the state of the physical drives, replace any bad drives
0x00090004	major	ram, nvram, buzzer, popup	Logical drive has been set to critical	One or more of the Physical Drives of the array are Offline	Check the state of the physical drives in array and rebuild the failed physical drive
0x00090005	info	ram, popup	Logical drive axle has been placed online	None	None
0x00090006	info	ram, nvram, popup	Rebuild marks the logical drive synchronized upon rebuild completion	Rebuilding process made the logical drive synchronized	None

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0x00090007	info	ram, nvram, popup	Logical Drive Settings has been changed through a user command	The User wished to change some Logical Drive Settings	None
0x0009000C	major	ram, nvram, buzzer, popup	Logical drive has been set to degrade	One of the Physical Drives in RAID6 LD of the array is Offline	Check the state of the physical drives in array and rebuild the failed physical drive
0x0009000D	major	ram, nvram, popup	One of the Error Table (Read Check Table (RCT), Write Check Table (WCT) or Inconsistent Block Table (IBT)) of a logical drive has been cleared by the user	User has cleared the Error Table	None
0x000B0000	info	ram, popup	Media patrol is started	User or BGA scheduler started it	No action required
0x000B0001	info	ram, popup	Media patrol is completed	Media patrol is completed	No action required
0x000B0002	info	ram, popup	Media patrol is paused	User or BGA scheduler or other higher priority BGA activity paused it	No action required
0x000B0003	info	ram, popup	Media patrol is resumed	User or BGA scheduler or other higher priority BGA is completed or stopped	No action required
0x000B0004	info	ram, popup	Media patrol is stopped	User stopped it, or BGA scheduler stopped it, or all array(s) and spare(s) with media patrol enabled are deleted	No action required
0x000B0006	critical	ram, nvram, buzzer, popup	Media Patrol is aborted due to an internal error	System resource is not available	Reduced system load or reboot
0x000B0007	info	ram, popup	Media Patrol is queued	Input cause string here	Input action string here
0x000B0008	info	ram, popup	Media Patrol is stopped internally	All array with MP enabled is deleted / removed	No action required
0x000B0009	info	ram, popup	Media Patrol is in progress	Input cause string here	No action required
0x000C0000	info	ram, nvram, popup	RAID migration has started	Input cause string here	Input action string here
0x000C0001	info	ram, nvram, popup	RAID migration has completed	Input cause string here	Input action string here
0x000C0002	info	ram, nvram, popup	RAID migration has paused	Input cause string here	Input action string here
0x000C0003	info	ram, nvram, popup	RAID migration has resumed	Input cause string here	Input action string here
0x000C0004	info	ram, nvram, popup	RAID migration has stopped	Input cause string here	Input action string here
0x000C0005	warning	ram, nvram, buzzer, popup	RAID migration has encountered a physical disk error	Input cause string here	Input action string here
0x000C0006	warning	ram, nvram, buzzer, popup	RAID migration is aborted due to an internal error	Input cause string here	Input action string here
0x000C0007	info	ram, nvram, popup	RAID migration is queued	Input cause string here	Input action string here
0x000C0008	info	ram, nvram, popup	Migration has detected Stale NV Watermark	Input cause string here	Input action string here
0x000C0009	info	ram, nvram, popup	Migration has cleared Stale NV Watermark	Input cause string here	Input action string here
0x000C000A	info	ram, nvram, popup	Array was made Incomplete due to missing NV Watermark	Input cause string here	Input action string here
0x000C000B	info	ram, nvram, popup	User has accepted Incomplete Array. (caused by missing NV Watermark)	Input cause string here	Input action string here
0x000C000C	info	ram, popup	RAID migration is in progress	Input cause string here	Input action string here
0x000D0000	info	ram, popup	Physical Disk is marked online	Physical Disk was used to create the configuration	No Action required
0x000D0001	info	ram, popup	Physical Disk is marked offline	Physical Disk was marked offline by user or internally due to errors	Replace the physical disk with a new disk

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0x000D0002	major	ram, nvram, buzzer, popup	Physical Disk is marked as DEAD	Physical Disk is marked as DEAD due to drive errors	Replace the physical disk with a new disk
0x000D0003	info	ram, popup	Physical Disk has been reset	Physical Disk has been reset due to command time out	Replace the physical disk with a new disk
0x000D0004	info	ram, popup	Physical Disk is assigned as a global spare	Physical Disk is assigned as a global spare	No action required
0x000D0005	info	ram, popup	Global Spare has been deleted	Global Spare has been deleted	None
0x000D0006	info	ram, popup	Physical Disk is no longer assigned as a global spare	Physical Disk was used as data member to rebuild one of the members of the array	None
0x000D0007	info	ram, popup	Physical Disk is assigned as a dedicated spare	Physical Disk is assigned as a dedicated spare by User	None
0x000D0008	info	ram, popup	Dedicated Spare has been deleted	Dedicated Spare has been deleted by User	None
0x000D0009	info	ram, popup	Physical Disk is no longer assigned as a dedicated spare	Physical Disk was used as data member to rebuild one of the members of the dedicated array	None
0x000D000A	info	ram, popup	Physical Disk has been inserted	Physical Disk has been inserted by User	None
0x000D000B	info	ram, popup	Physical Disk has been removed	Physical Disk has been removed by User	Insert a new physical disk
0x000D000C	info	ram, popup	Command on physical disk has been re-tried	Command on physical disk has been re-tried due to drive not responding to the command	None
0x000D000D	minor	ram, nvram, buzzer, popup	Physical disk ECC error is detected	Physical disk ECC error is detected due to bad medium on the disk	Replace the physical disk with a new disk
0x000D000E	minor	ram, nvram, buzzer, popup	Physical disk CRC error is detected	Physical Disk CRC error is detected due to bad medium on the disk	Replace the physical disk with a new disk
0x000D000F	minor	ram, nvram, buzzer, popup	Bad sector is found on physical disk	Bad sector is found on physical disk due to medium errors on the disk	Replace the physical disk with a new disk
0x000D0010	minor	ram, nvram, buzzer, popup	Error is detected in remap sectors	Error is detected in remap sectors due to medium errors in the disk	None
0x000D0011	minor	ram, nvram, buzzer, popup	Command times out on physical disk	Command times out on physical disk	Replace the physical disk with a new disk
0x000D0012	warning	ram, buzzer, popup	Physical disk negotiation speed is decreased	Physical disk negotiation speed is decreased as the disk does not support higher speed	None
0x000D0013	warning	ram, popup	Previously configured disk is no longer found	Previously configured disk is no longer found as that disk is not present	Insert the previously configured disk in to the system
0x000D0014	warning	ram, nvram, popup	A physical disk has encountered an unknown (non-ECC) media error	A physical disk has encountered an unknown (non-ECC) media error	Replace the physical disk with a new disk
0x000D0015	warning	ram, nvram, popup	A physical disk has encountered PFA condition	A physical disk has encountered PFA condition	Replace the physical disk with a new disk
0x000D0016	info	ram, popup	A configured dead physical disk has been inserted	A configured dead physical disk has been inserted	Replace the physical disk with a new disk
0x000D0017	warning	ram, nvram, popup	A physical disk Page 0 settings has changed	A physical disk Page 0 settings was changed by User	None
0x000D0018	warning	ram, nvram, popup	Physical disk page 1 (SATA related) settings have changed	Physical disk page 1 (SATA related) settings was changed by User	None
0x000D001A	major	ram, nvram, buzzer, popup	Physical Disk is marked as DEAD due to removal	Physical Disk is marked as DEAD due to removal	Insert a new physical disk in to the slot

ID	Severity	Log	Description	Cause	Action
0x000D001b	major	ram, nvram, buzzer, popup	Physical Disk is marked as DEAD due to the failure of Reassign sectors comand to the disk	Physical Disk is marked as DEAD due to the failure of Reassign sectors comand to the disk	Replace the disk with new physical disk
0x000D001c	major	ram, nvram, buzzer, popup	Physical Disk is marked as DEAD due to PFA condition of the disk	>Physical Disk is marked as DEAD due to PFA condition of the disk	Replace the disk with new physical disk
0x000D001d	major	ram, nvram, buzzer, popup	Physical Disk is marked as DEAD due to forced offline state	Physical Disk is marked as DEAD due to forced offline state by User	Replace the disk with new physical disk
0x000D001e	warning	ram, nvram, popup	One of The Physical disk Path has failed	One of The Physical disk Path has failed	None
0x000D001f	warning	ram, nvram, popup	Physical disk page 3 (SAS related settings) have changed	Physical disk page 3 (SAS related settings) was changed by User	None
0x000D0020	warning	ram, nvram, popup	Physical disk seen by partner controller not seen here	Possibly single ported drives present or incorrect SAS Cabling	Fix the SAS cabling if not single ported drives
0x000D0021	warning	ram, nvram, popup	Single Ported Physical disk seen by Partner controller not seen here	Possibly single ported drives present	None
0x000D0022	warning	ram, nvram, popup	Physical Disk reported not ready	Physical Disk reported not ready	Replace the physical disk with a new disk
0x000E0000	warning	ram, buzzer, popup	PSU is NOT inserted	PSU is NOT inserted	Insert PSU
0x000E0001	warning	ram, nvram, buzzer, popup	PSU is off	PSU is turned off or power cable is unplugged	Turn on power or plug in power cable
0x000E0002	info	ram, nvram, buzzer, popup	PSU is on	PSU is on	No action is required
0x000E0003	info	ram, nvram, popup	PSU is installed and turned on	PSU is installed and is switched on	No action is required
0x000E0004	warning	ram, nvram, popup	PSU is installed and turned off	PSU is installed but it is switched off	Check PSU switch
0x000E0005	info	ram, nvram, popup	PSU is functional and turned on	PSU is operational and is switched on	No action is required
0x000E0006	warning	ram, nvram, popup	PSU is functional and turned off	PSU is operational but is switched off	Check PSU switch
0x000E0007	major	ram, nvram, popup	PSU is malfunctioning and turned on	PSU is malfunctional with power switched on	Replace PSU
0x000E0008	major	ram, nvram, popup	PSU is malfunctioning and turned off	PSU is malfunctional with power switched off	Replace PSU
0x000E0009	warning	ram, nvram, popup	PSU has been removed	The firmware does not detect the specific PSU existence	Check PSU
0x000E0010	critical	ram, nvram, buzzer, popup	PSU 12V power is out of the threshold range	The firmware detects 12V power is out of range	Replace PSU
0x000E0011	critical	ram, nvram, buzzer, popup	PSU 5V power is out of the threshold range	The firmware detects 5V power is out of range	Replace PSU
0x000E0012	critical	ram, nvram, buzzer, popup	PSU 3.3V power is out of the threshold range	The firmware detects 3.3V power is out of range	Replace PSU
0x000E0013	info	ram, nvram, popup	PSU 3.3V power is within the normal range	The firmware detects 3.3V power is within the range	No action is required
0x000E0014	info	ram, nvram, popup	PSU 5V power is within the normal range	The firmware detects 5V power is within the range	No action is required
0x000E0015	info	ram, nvram, popup	PSU 12V power is within the normal range	The firmware detects 12V power is within the range	No action is required
0x000E0016	critical	ram, nvram, popup	PSU is critical. This may cause instability of the system	Unsupported PSU or unstable power	Check the power to the PSU, or replace the PSU with the supported model
0x000F0000	info	ram, nvram, popup	Rebuild is started	User started rebuild, or auto-rebuild is started	No action required

ID	Severity	Log	Description	Cause	Action
0x000F0001	info	ram, nvram, popup	Rebuild is completed	Rebuild is completed on the physical drive	No action required
0x000F0002	warning	ram, popup	Rebuild is paused	User paused it	Resume rebuild as soon as possible
0x000F0003	info	ram, popup	Rebuild is resumed	User resumed it or rebuild is resumed after reboot	No action required
0x000F0004	warning	ram, nvram, popup	Rebuild is stopped	User stopped it, or array is deleted	If user stopped it, restart rebuild as soon as possible
0x000F0007	critical	ram, nvram, buzzer, popup	Rebuild is aborted	System resource is not available	Reduce system load or reboot
0x000F0009	info	ram, nvram, popup	Rebuild is queued	Input cause string here	Input action string here
0x000F000A	info	ram, nvram, popup	Transition is started	User started it or auto-transition started	No action required
0x000F000B	info	ram, nvram, popup	Transition is completed	Transition is completed	No action required
0x000F000C	info	ram, popup	Transition is paused	User paused it or other higher priority BGA scheduler is running	User resume as needed
0x000F000D	info	ram, popup	Transition is resumed	User resumed it, or it is resumed after reboot	No action required
0x000F000E	info	ram, nvram, popup	Transition is stopped	User stopped it	No action required
0x000F000F	info	ram, nvram, popup	Transition is switched to rebuild	Source physical drive is removed or dead	No action required
0x000F0010	warning	ram, nvram, popup	Auto rebuild can not start	The capacity of unconfigured physical drive is not capable of rebuild	Replace a drive with proper capacity
0x000F0011	warning	ram, nvram, popup	Rebuild stopped internally	Logical drive is offline	No action required
0x000F0012	info	ram, popup	Rebuild is in progress	Input cause string here	No action required
0x000F0013	info	ram, popup	Transition is in progress	Input cause string here	No action required
0x00100000	minor	ram, nvram, buzzer, popup	SMART error is received	Input cause string here	Input action string here
0x0011000A	info	ram, popup	Subsystem parameter(s) are changed by user	Subsystem parameter(s) are changed by user	None
0x0011000B	info	ram, popup	System is set to Redundant mode	A partner controller has joined to form High Availability	None
0x0011000C	major	ram, nvram, buzzer, popup	System is set to Critical mode	The partner controller is no longer accessible	Check the partner controller
0x0011000D	info	ram, popup	System is set to Non-Redundant mode	Only one controller is present in the system	None
0x0011000E	info	ram, nvram, popup	The Subsystem is started	The Subsystem has started	None
0x0011000F	info	ram, nvram, popup	The Subsystem is stopped	The Subsystem has stopped	None
0x00120000	info	ram, popup	Synchronization is started	The logical drive is created	No action is required
0x00120001	info	ram, popup	Synchronization is completed	Synchronization is completed	No action is required
0x00120002	info	ram, popup	Synchronization is paused	Higher priority BGA activity such as PDM or RC on the logical drive(s) on the same array is running	No action required
0x00120003	info	ram, popup	Synchronization is resumed	Higher priority BGA activity is completed or it is resumed after reboot	No action required
0x00120004	info	ram, popup	Synchronization is stopped	Logical drive is deleted, or critical, or offline. It could be also initialization or migration started	No action required
0x00120005	critical	ram, nvram, buzzer, popup	Synchronization is aborted due to an internal error	System resource is not available	Reduce system load or reboot

ID	Severity	Log	Description	Cause	Action
0x00120006	info	ram, popup	Synchronization is queued	Sync is already running on some other LD in same array	None
0x00120008	info	ram, popup	Synchronization is stopped internally	LD not online or Higher priority task like LDI is started or delete LD/array	None
0x00130000	info	ram, popup	New disk array has been created	A new disk array has been created by the user	None
0x00130001	info	ram, popup	Disk array has been deleted	A disk array has been deleted by the user	None
0x00130002	info	ram, popup	Disk array has been added	A new disk array has been added to the controller by adding new Physical drives to the enclosure	None
0x00130003	warning	ram, buzzer, popup	Disk array has been removed	A disk array has been removed from the controller by removing Physical Drives from the enclosure	If the drives were not intentionally removed, check to see if the drives are properly inserted in the enclosure
0x00130004	info	ram, popup	Disk array settings have been changed	Disk array settings have been changed through user intervention	None
0x00130005	info	ram, nvram, popup	Disk array is transport ready	User requested to make a disk array transport ready	Disk array is ready for transport. Remove Physical drives in disk array and move them to a different subsystem. To cancel Transport Ready Status, remove and reinsert the drives in the disk array.
0x00140000	info	ram, popup	Drive interface controller is found	Input cause string here	Input action string here
0x00140001	info	ram, popup	Drive interface controller is NOT found	Input cause string here	Input action string here
0x00140002	info	ram, popup	Drive interface diagnostics has passed	Input cause string here	Input action string here
0x00140003	info	ram, nvram, popup	Drive interface diagnostics has failed	Input cause string here	Input action string here
0x00140004	info	ram, nvram, popup	Drive interface controller has generated a general parity error	Input cause string here	Input action string here
0x00140005	info	ram, nvram, popup	Drive interface controller has generated a data parity error	Input cause string here	Input action string here
0x00150000	info	ram, nvram, popup	Online Capacity Expansion has started	Input cause string here	Input action string here
0x00150001	info	ram, nvram, popup	Online Capacity Expansion has completed	Input cause string here	Input action string here
0x00150002	info	ram, nvram, popup	Online Capacity Expansion has paused	Input cause string here	Input action string here
0x00150003	info	ram, nvram, popup	Online Capacity Expansion has resumed	Input cause string here	Input action string here
0x00150004	info	ram, nvram, popup	Online Capacity Expansion has stopped	Input cause string here	Input action string here
0x00150005	fatal	ram, nvram, buzzer, popup	Online Capacity Expansion has encountered a physical disk error	Input cause string here	Input action string here
0x00150006	fatal	ram, nvram, buzzer, popup	Online Capacity Expansion is aborted due to an internal error	Input cause string here	Input action string here
0x00150007	info	ram, nvram, popup	Online Capacity Expansion is queued	Input cause string here Online Capacity Expansion task is queued	Input action string here
0x00160000	info	ram, nvram, popup	RAID Level Migration has started	Input cause string here	Input action string here
0x00160001	info	ram, nvram, popup	RAID Level Migration has completed	Input cause string here	Input action string here
0x00160002	info	ram, nvram, popup	RAID Level Migration has paused	Input cause string here	Input action string here
0x00160003	info	ram, nvram, popup	RAID Level Migration has resumed	Input cause string here	Input action string here
0x00160004	info	ram, nvram, popup	RAID Level Migration has stopped	Input cause string here	Input action string here

ID	Severity	Log	Description	Cause	Action
0x00160005	fatal	ram, nvram, buzzer, popup	RAID Level Migration has encountered a physical disk error	Input cause string here	Input action string here
0x00160006	fatal	ram, nvram, buzzer, popup	RAID Level Migration is aborted due to an internal error	Input cause string here	Input action string here
0x00160007	info	ram, nvram, popup	RAID Level Migration is queued	Input cause string here	Input action string here
0x00170000	info	ram, nvram, popup	Stripe Level Migration has started	Input cause string here	Input action string here
0x00170001	info	ram, nvram, popup	Stripe Level Migration has completed	Input cause string here	Input action string here
0x00170002	info	ram, nvram, popup	Stripe Level Migration has paused	Input cause string here	Input action string here
0x00170003	info	ram, nvram, popup	Stripe Level Migration has resumed	Input cause string here	Input action string here
0x00170004	info	ram, nvram, popup	Stripe Level Migration has stopped	Input cause string here	Input action string here
0x00170005	fatal	ram, nvram, buzzer, popup	Stripe Level Migration has encountered a physical disk error	Input cause string here	Input action string here
0x00170006	fatal	ram, nvram, buzzer, popup	Stripe Level Migration is aborted due to an internal error	Input cause string here	Input action string here
0x00170007	info	ram, nvram, popup	Stripe Level Migration is queued	Input cause string here	Input action string here
0x00190000	info	ram, popup	Resource is NOT available	Input cause string here	Input action string here
0x00190001	info	ram, popup	Resource is NOT available	Input cause string here	Input action string here
0x00190002	info	ram, popup	Resource is NOT available	Input cause string here	Input action string here
0x00190003	info	ram, popup	Resource is NOT available	Input cause string here	Input action string here
0x001A0000	info	ram, popup	Blowers or PSU fans have started	The firmware starts blowers or PSU fans	No action is required
0x001A0001	info	ram, popup	Blowers or PSU fans have stopped	The firmware stops blowers or PSU fans	No action is required
0x001A0002	info	ram, popup	Blower or PSU fan speed is increased	Temperatures Increased	No action is required
0x001A0003	info	ram, popup	Blower or PSU fan speed is decreased	Temperatures dropped back to normal	No action is required
0x001A0004	minor	ram, nvram, buzzer, popup	Blowers or PSU fans are NOT functioning	The firmware detects blowers or PSU fans with a speed of 0 or out of control	Replace blower or PSU fans
0x001A0005	info	ram, popup	Blowers or PSU fans have been inserted	The firmware detects the specific blowers or PSU existence	No action is required
0x001A0006	info	ram, popup	Blowers or PSU fans have been removed	The firmware is not able to detect the existence of the blower or the PSU fan, but exist in the previous status	Check blowers or PSU fans
0x001A0007	info	ram, nvram, popup	Blowers or PSU fans are functioning normally	The blower or the PSU fan are detected with good status	No action is required
0x001A0008	warning	ram, nvram, buzzer, popup	Blowers or PSU fans are NOT installed	The firmware does not detect existenc of blowers or PSU fans	Check blowers or PSU fans
0x001A0009	warning	ram, nvram, buzzer, popup	Blower or PSU fan status is unknown	The firmware is not able to read blowers or PSU fans information but detects the existence	Check blowers or PSU fans
0x001B0000	info	ram, nvram, popup	PDM is started	User started it or the drive in the array has PFA condition	No action required
0x001B0001	info	ram, nvram, popup	PDM is completed	PDM is completed	None
0x001B0002	info	ram, popup	PDM is paused	User paused it or higher priority BGA activity started	If user paused, resumed it
0x001B0003	info	ram, popup	PDM is resumed	User resumed it or higher priority BGA activity is completed or it is resumed after rebooted	No action required

ID	Severity	Log	Description	Cause	Action
0x001B0004	info	ram, popup	PDM is stopped	User stopped it or destination physical drive is removed or dead	No action required
0x001B0009	info	ram, nvram, popup	PDM is switched to rebuild	Source drive is removed or dead	No action required
0x001B000a	info	ram, popup	PDM is stopped internally	Destination drive is removed or used for rebuild	No action required
0x001B000B	info	ram, popup	PDM is in progress	Input cause string here	No action required
0x001D0000	info	ram, popup	Spare check started on the given spare drive	Spare check started either manually by the user or started by SW scheduler	No action required
0x001D0001	info	ram, popup	Spare check completed successfully on the given spare drive	Spare check completed successfully on the given spare array	No action required
0x001e0000	critical	ram, nvram, buzzer, popup	Enclosure temperature is above the threshold	The system temperature is above the preset threshold	Check blowers and fans
0x001e0001	critical	ram, nvram, buzzer, popup	Enclosure temperature is above the critical threshold	The system temperature is above enclosure critical threshold	Check blowers and fans
0x001e0002	warning	ram, nvram, buzzer, popup	Enclosure temperature is above the warning threshold	The enclosure temperature is above enclosure warning threshold	Check blowers and fans
0x001e0003	info	ram, nvram, popup	Enclosure temperature is within the normal range	The system temperature drops below the enclosure warning threshold	No Action is required
0x001e0004	critical	ram, nvram, buzzer, popup	Controller temperature is above the critical threshold	The controller temperature is above controller critical threshold	Check blowers and fans
0x001e0005	warning	ram, nvram, buzzer, popup	Controller temperature is above the warning threshold	The controller temperature is above controller warning threshold	Check blowers and fans
0x001e0006	info	ram, nvram, popup	Controller temperature is within the normal range	The controller temperature drops below the controller warning threshold	No action is required
0x001e0007	critical	ram, nvram	Shut down PSUs due to enclosure or controller temperature over threshold	The PSUs shut down because temperatures exceed the protection threshold	Refer to the troubleshooting section of the product manual
0x001F0000	info	ram, popup	Firmware update is started	Firmware update is started	No action required
0x001F0001	info	ram, popup	Firmware update is complete	Firmware update is complete	No action required
0x001F0002	warning	ram, popup	Firmware update is fail	Firmware update is fail	No action required
0x001F0003	info	ram, nvram, popup	Backend expander firmware upgrade is completed	NA	No action required
0x001F0004	info	ram, nvram, popup	Frontend expander firmware upgrade is completed	NA	No action required
0x001F0005	major	ram, nvram, popup	Backend expander firmware upgrade failed	Backend (Interposer) upgrade cannot be completed successfully	Retry the firmware upgrade
0x001F0006	major	ram, nvram, popup	Frontend expander firmware upgrade failed	Frontend expander upgrade cannot be completed successfully	Retry the firmware upgrade
0x001F0007	info	ram, nvram, popup	Backend expander firmware upgrade is started	NA	No action required
0x001F0007	info	ram, nvram, popup	Frontend expander firmware upgrade is started	NA	No action required
0x00220000	info	ram	Blade Server Inserted	Blade Server was plugged in	No action required
0x00220001	info	ram	Blade Server Removed	Blade Server was plugged out	No action required