

Part 2: Event List

Areca RAID Controller Event List

A. Device Event			
Event	Type	Meaning	Action
Device Inserted	Warning	HDD inserted	
Device Removed	Warning	HDD removed	
Reading Error	Warning	HDD reading error	Keep watching HDD status, maybe it is caused by noise or HDD unstable.
Writing Error	Warning	HDD writing error	Keep watching HDD status, maybe it is caused by noise or HDD unstable.
ATA Ecc Error	Warning	HDD ECC error	Keep watching HDD status, maybe it is caused by noise or HDD unstable.
Change ATA Mode	Warning	HDD change ATA mode	Check HDD connection on tray
Time Out Error	Warning	HDD time out	Keep watching HDD status, maybe it is caused by noise or HDD unstable.
Device Failed	Urgent	HDD failure	Replace HDD
PCI Parity Error	Serious	PCI Parity error	If only happens once, maybe it is caused by noise. If happens often, it might be controller unstable or power supply issue
Device Failed(SMART)	Urgent	HDD SMART failure	Replace HDD
PassThrough Disk	Message	Pass Through Disk Created	
PassThrough Disk	Message	Pass Through Disk Modified	
PassThrough Disk	Message	Pass Through Disk Deleted	

B. Volume Event

Event	Type	Meaning	Action
Start Initialize	Warning	Volume initialization has started	
Start Rebuilding	Warning	Volume rebuilding has started	
Start Migrating	Warning	Volume migration has started	
Start Checking	Warning	Volume parity checking has started	
Complete Init	Warning	Volume initialization completed	
Complete Rebuild	Warning	Volume rebuilding completed	

Complete Migrate	Warning	Volume migration completed	
Complete Check	Warning	Volume parity completed	
Create Volume	Warning	New Volume created	
Delete Volume	Warning	Volume deleted	
Modify Volume	Warning	Volume modified	
Volume Degraded	Urgent	Volume degraded	Replace HDD
Volume Failed	Urgent	Volume failure	
Failed Volume Revived	Urgent	Failed Volume revived	

C. RaidSet Event

Event	Type	Meaning	Action
Create RaidSet	Warning	New RaidSet created	
Delete RaidSet	Warning	RaidSet deleted	
Expand RaidSet	Warning	RaidSet expanded	
Rebuild RaidSet	Warning	RaidSet rebuilding	
RaidSet Degraded	Urgent	RaidSet degraded	Replace HDD

D. Host Event

Event	Type	Meaning	Action
SCSI Bus Reset	Message	SCSI Bus got a Reset command	Depend on system status, it could be normal status(such as host boot up) or by bus noise or abnormal signal communication on SCSI bus. Please check SCSI cabling and termination.
SCSI Bus Parity	Message	SCSI Bus encounter Parity Error	It could be by bus noise or abnormal signal communication SCSI bus. Please check SCSI cabling and termination.
SCSI Bus SE<>LVD	Message	SCSI Bus transfer speed changed	Depend on system status, it could be normal status(such as SE device inserted) or abnormal status caused by noise or abnormal signal communication on SCSI bus. Please check SCSI cabling and termination

D. Hardware Monitor Event

Event	Type	Meaning	Action
DRAM 1-Bit ECC	Urgent	DRAM 1-Bit ECC error	Check DRAM
DRAM Fatal Error	Urgent	DRAM fatal error encountered	Check the DRAM module and replace with new one if required.
Controller Over Temperature	Urgent	Abnormally high temperature detected on controller (over 60 degree)	Check air flow and cooling fan of the enclosure
Backplane Over Temperature	Urgent	Abnormally high temperature detected on backplane (over 55 degree)	Check air flow and cooling fan of the enclosure
##V Abnormal	Urgent	Abnormally voltage detected. (exceed 5V, \pm 5% or 12V, \pm 10% tolerance)	If only happen once, it might be caused by noise. If always happen, please check the output of the power supply
Power # Failed	Urgent	Power # failure	Check the power supply, replace a new one module if required.
Fan # Failed	Urgent	Cooling Fan # failure or fan speed is below 1700rpm	Check cooling fan of the enclosure and replace new fan module if required
UPS AC Power Loss	Urgent	UPS AC Power failure detected	Check AC power status or cabling between UPS and RAID system
Controller Temp Recovered	Serious	Controller temperature back to normal level	
Backplane Temp Recovered	Serious	Backplane temperature back to normal level	
##V Recovered	Serious	Voltage output back to normal	
Power # Recovered	Serious	Power # back to on-line state	
Fan # Recovered	Serious	Fan # back to on-line state	
UPS AC Power Recovered	Serious	UPS AC power back to on-line state	
Raid Powered On	Warning	Raid power on	
Test Event	Urgent	Test Event	

** NOTICE: Depend on models, not every model will encounter all events.