



**FUJITSU Storage**  
**ETERNUS SF**  
**Express V16.4 /**  
**Storage Cruiser V16.4**

**Event Guide**

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# Preface

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## Purpose

This manual explains the events displayed on FUJITSU Storage ETERNUS SF Storage Cruiser or FUJITSU Storage ETERNUS SF Express of the following products and these event types:

- FUJITSU Storage ETERNUS SF Express (hereafter abbreviated as "Express")
- FUJITSU Storage ETERNUS SF Storage Cruiser (hereafter abbreviated as "Storage Cruiser")
- FUJITSU Storage ETERNUS SF AdvancedCopy Manager (hereafter abbreviated as "AdvancedCopy Manager")

There are two types of events. One is a "set event" of which settings are described when the settings are made from this product to the device. The other is an "asynchronous event" that is displayed by decoding the SNMP Trap from the device. The trap events displayed here are displayed by default, but their display can be customized using the SNMP Trap XML definition file. Refer to "SNMP Trap XML Definition File" in the *ETERNUS SF Storage Cruiser Operation Guide* for more information.

## Intended Readers

Anyone who plans, installs, configures, and maintains Storage Cruiser or Express to increase the availability of a system should read this manual. For system design, it is assumed that a basic knowledge of the configuration methods of servers, storage devices and networks is possessed.

## Organization

This manual is composed as follows:

### [Chapter 1 Notes about Common Traps for Devices](#)

This chapter describes the notes about common traps for devices.

### [Chapter 2 Server Node Events](#)

This chapter describes the server node events to be displayed by this software.

### [Chapter 3 Fibre Channel Switch Events](#)

This chapter describes the Fibre Channel switch events to be displayed by this software.

### [Chapter 4 Storage Device Events](#)

This chapter describes the storage device events to be displayed by this software.

### [Chapter 5 Tape Library Events](#)

This chapter describes the tape library events to be displayed by this software.

### [Chapter 6 Fibre Alliance MIB Support Device Events](#)

This chapter describes the Fibre Alliance MIB support device events to be displayed by this software.

### [Chapter 7 Performance Management Traps](#)

This chapter describes traps of the performance management function of this software.

### [Chapter 8 Device Polling Event](#)

This chapter describes events about the device polling function of this software.

## Notation

The names, abbreviations, and symbols shown below are used in this manual.

### Operating Systems

Formal Name	Abbreviation	
Microsoft(R) Windows Server(R) 2008 Standard (32-bit) (64-bit)	Windows Server 2008	Windows
Microsoft(R) Windows Server(R) 2008 Standard without Hyper-V(TM) (32-bit) (64-bit)		

Formal Name	Abbreviation	
Microsoft(R) Windows Server(R) 2008 Enterprise (32-bit)(64-bit) Microsoft(R) Windows Server(R) 2008 Enterprise without Hyper-V(TM) (32-bit)(64-bit) Microsoft(R) Windows Server(R) 2008 Datacenter (32-bit)(64-bit) Microsoft(R) Windows Server(R) 2008 Datacenter without Hyper-V(TM) (32-bit)(64-bit)		
Microsoft(R) Windows Server(R) 2008 R2 Foundation Microsoft(R) Windows Server(R) 2008 R2 Standard Microsoft(R) Windows Server(R) 2008 R2 Enterprise Microsoft(R) Windows Server(R) 2008 R2 Datacenter	Windows Server 2008 R2	
Microsoft(R) Windows Server(R) 2012 Standard Microsoft(R) Windows Server(R) 2012 Datacenter	Windows Server 2012	
Microsoft(R) Windows Server(R) 2012 R2 Standard Microsoft(R) Windows Server(R) 2012 R2 Datacenter	Windows Server 2012 R2	
Windows Vista(R) Home Basic Windows Vista(R) Home Premium Windows Vista(R) Business Windows Vista(R) Enterprise Windows Vista(R) Ultimate	Windows Vista	
Windows(R) 7 Home Basic Windows(R) 7 Home Premium Windows(R) 7 Professional Windows(R) 7 Enterprise Windows(R) 7 Ultimate	Windows 7	
Windows(R) 8 Windows(R) 8 Pro	Windows 8	
Windows(R) 8.1 Windows(R) 8.1 Pro	Windows 8.1	
Windows(R) 10 Home Windows(R) 10 Pro Windows(R) 10 Mobile	Windows 10	
Solaris(TM) 9 Operating System	Solaris 9	Solaris or Solaris OS
Oracle Solaris 10	Solaris 10	
Oracle Solaris 11	Solaris 11	
Red Hat(R) Enterprise Linux(R) 5 (for x86) Red Hat(R) Enterprise Linux(R) 5 (for Intel64)	RHEL5	Linux
Red Hat(R) Enterprise Linux(R) 6 (for x86) Red Hat(R) Enterprise Linux(R) 6 (for Intel64)	RHEL6	
Red Hat(R) Enterprise Linux(R) 7 (for Intel64)	RHEL7	
SUSE(R) Linux Enterprise Server 11 for x86 SUSE(R) Linux Enterprise Server 11 for EM64T	SUSE Linux Enterprise Server 11	
HP-UX 11i v3	HP-UX	
AIX(R) V6.1 AIX(R) V7.1	AIX	
VMware vSphere(R) 5	VMware vSphere 5	VMware
VMware vSphere(R) 6	VMware vSphere 6	

Oracle Solaris might be described as Solaris, Solaris Operating System, or Solaris OS.

#### FUJITSU Storage ETERNUS

Formal Name	Abbreviation		
FUJITSU Storage ETERNUS DX60	-	-	ETERNUS DX series or ETERNUS Disk storage system
FUJITSU Storage ETERNUS DX410 FUJITSU Storage ETERNUS DX440	ETERNUS DX400 series		
FUJITSU Storage ETERNUS DX8100 FUJITSU Storage ETERNUS DX8400 FUJITSU Storage ETERNUS DX8700	ETERNUS DX8000 series		
FUJITSU Storage ETERNUS DX60 S2 FUJITSU Storage ETERNUS DX80 S2 FUJITSU Storage ETERNUS DX90 S2	-	ETERNUS DX S2 series	
FUJITSU Storage ETERNUS DX410 S2 FUJITSU Storage ETERNUS DX440 S2	ETERNUS DX400 S2 series		
FUJITSU Storage ETERNUS DX8100 S2 FUJITSU Storage ETERNUS DX8700 S2	ETERNUS DX8000 S2 series		
FUJITSU Storage ETERNUS DX60 S3 FUJITSU Storage ETERNUS DX100 S3 FUJITSU Storage ETERNUS DX200 S3	-	ETERNUS DX S3 series	
FUJITSU Storage ETERNUS DX500 S3 FUJITSU Storage ETERNUS DX600 S3	-		
FUJITSU Storage ETERNUS DX8700 S3 FUJITSU Storage ETERNUS DX8900 S3	ETERNUS DX8000 S3 series		
FUJITSU Storage ETERNUS AF250 FUJITSU Storage ETERNUS AF650	ETERNUS AF series		
FUJITSU Storage ETERNUS DX200F	-		
FUJITSU Storage ETERNUS LT20/LT20 S2 FUJITSU Storage ETERNUS LT40/LT40 S2 FUJITSU Storage ETERNUS LT60 S2 FUJITSU Storage ETERNUS LT200 FUJITSU Storage ETERNUS LT210 FUJITSU Storage ETERNUS LT220 FUJITSU Storage ETERNUS LT230 FUJITSU Storage ETERNUS LT250 FUJITSU Storage ETERNUS LT260 FUJITSU Storage ETERNUS LT270/LT270 S2	ETERNUS Tape library		

Each individual device name in this document is listed with "FUJITSU Storage" omitted from it.

NetApp FAS Series and V-Series are abbreviated as follows.

Firmware Version	String Included in Firmware Name	Abbreviation
Data ONTAP 6.x Data ONTAP 7.x	(Any string)	NetApp FAS Series NetApp V-Series
Data ONTAP 8 - 8.2.x	7-Mode	
Data ONTAP 8 - 8.2.x	Cluster-Mode	NetApp FAS Series (with clustered Data ONTAP) NetApp V-Series (with clustered Data ONTAP)
Data ONTAP 8.3 or later	(Any string)	

## Software Products

Formal Name	Abbreviation
Windows(R) Internet Explorer(R)	Internet Explorer
Mozilla(R) Firefox(R)	Firefox
Google Chrome(TM)	Chrome
Microsoft(R) Windows Server(R) Failover Clustering	WSFC
Microsoft(R) Exchange Server	Exchange Server
Microsoft(R) SQL Server(R)	SQL Server
FUJITSU Software PRIMECLUSTER Global Disk Services	GDS
FUJITSU Software PRIMECLUSTER Global File Services	GFS

## Manuals

Formal Name	Abbreviation
FUJITSU Storage ETERNUS SF Express / Storage Cruiser / AdvancedCopy Manager Quick Reference	ETERNUS SF Quick Reference
FUJITSU Storage ETERNUS SF Express / Storage Cruiser / AdvancedCopy Manager Release Notes	ETERNUS SF Release Notes
FUJITSU Storage ETERNUS SF Express / Storage Cruiser / AdvancedCopy Manager Installation and Setup Guide	ETERNUS SF Installation and Setup Guide
FUJITSU Storage ETERNUS SF Express / Storage Cruiser / AdvancedCopy Manager Migration Guide	ETERNUS SF Migration Guide
FUJITSU Storage ETERNUS SF Express / Storage Cruiser / AdvancedCopy Manager Web Console Guide	ETERNUS SF Web Console Guide
FUJITSU Storage ETERNUS SF Storage Cruiser / AdvancedCopy Manager Cluster Environment Setup Guide	ETERNUS SF Cluster Environment Setup Guide
FUJITSU Storage ETERNUS SF Storage Cruiser / AdvancedCopy Manager Operation Guide for VMware vSphere Virtual Volumes	ETERNUS SF Operation Guide for VMware vSphere Virtual Volumes
FUJITSU Storage ETERNUS SF Express / Storage Cruiser / AdvancedCopy Manager Messages	ETERNUS SF Messages
FUJITSU Storage ETERNUS SF Express / Storage Cruiser Event Guide	ETERNUS SF Event Guide
FUJITSU Storage ETERNUS SF Express / Storage Cruiser / AdvancedCopy Manager Glossary	ETERNUS SF Glossary

Besides the above-mentioned, each individual manual name in this document is listed with "FUJITSU Storage" omitted from it.

## Others

- In this manual, unless there is a special explanatory note, ETERNUS Disk storage system includes ETERNUS All-Flash Arrays. However, the following functions are not supported in ETERNUS All-Flash Arrays:

- Energy saving operation for storage device
- NAS operation for storage device

The following function is not supported in ETERNUS DX200F All-Flash Arrays:

- Automated Storage Tiering operation at multiple tiers (two or more)

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## Notes

- No part of this manual may be reproduced without permission.
- This manual is subject to change without advance notice.
- The following model numbers are different in Japan and other countries.  
When the model number of Japan appears in the text, take it as also referring to the model number of the other countries.

Japan	Other Countries
GP7B8FC1	GP7B8FC1U
PG-FC102	SNP:SY-F2244E2-P, SNP:SY-F2244E2-A, SNP:SY-F2244L2-P
PG-FC105	S26361-F2624-E1
PG-FC106	S26361-F2843-E1

Japan	Other Countries
PG-FC107	S26361-F3141-E10, S26361-F3141-E210
PG-FC201	S26361-F3141-E1
PG-FC202/202L	S26361-F3306-E1, S26361-F3306-E201
PG-FC203/203L	S26361-F3961-E1, S26361-F3961-E201
PG-FC204/204L	S26361-F3961-E2
PG-FCD101	S26361-F3023-E1
PG-FCD201	S26361-F3306-E601
PG-FCD202	S26361-D2865-A100
PW008FC2	PW008FC2U
PW008FC3	PW008FC3U
SE0X7F11F	SE0X7F11X
SE0X7F12F	SE0X7F12X
SE0X7F21F	SE0X7F21X
SE0X7F22F	SE0X7F22X
XSEFC401AF	XSEFC401AU, XSEFC401AX
XSEFC402AF	XSEFC402AU, XSEFC402AX

This product model is not the same in all regions. Check with your sales representative to see the model name in your area.

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## Update History

Content of Update	Updated Section	Revision
The information related to ETERNUS DX200F is described.	"Others" in Preface	1.1
The received event traps are added.	4.3	2
Information related to the ETERNUS DX200F is modified or added.	"Others" in Preface, 4.6	3
Information related to the ETERNUS DX60 S3 is added.	"Notation" in Preface	
Information related to the ETERNUS LT260 is added.	"Notation" in Preface, 5.5	
[Information] is added.	Chapter 3	
The composition of the chapter is changed.	Chapter 4	
The received event traps are added.	4.4	
The description for the values that are displayed is added.	Chapter 7	
The term "VMware Virtual Volumes" is changed to "VMware vSphere Virtual Volumes" according to the terms used by VMware, Inc.	Throughout this manual	3.1
Information related to VMware vSphere(R) 6 is added.	"Notation" in Preface	3.2
Information related to the ETERNUS DX8700 S3/DX8900 S3 is added.	"Notation" in Preface	
Information related to NetApp FAS Series and V-Series is added.	"Notation" in Preface, 4.7	
An event is added.	Chapter 8	

Content of Update	Updated Section	Revision
Information related to Windows Server 2003 is deleted.	"Notation" in Preface	4
Information related to Windows 10 is added.	"Notation" in Preface	
The level of the following events in the "Event Notification (M Messages)" is modified: <ul style="list-style-type: none"> <li>- Use capacity of Pool has changed. (NORMAL -&gt; CAUTION)</li> <li>- Use capacity of Pool has changed. (NORMAL or CAUTION -&gt; WARNING)</li> <li>- Use capacity of Pool has changed. (WARNING -&gt; CAUTION)</li> </ul>	4.2	
The level of the following events in the "Event Notification (M Messages)" is modified: <ul style="list-style-type: none"> <li>- Use capacity of Pool has changed. (NORMAL -&gt; CAUTION)</li> <li>- Use capacity of Pool has changed. (NORMAL or CAUTION -&gt; WARNING)</li> <li>- Lack of pool capacity</li> <li>- Use capacity of Ftier Pool has changed. (NORMAL -&gt; CAUTION)</li> <li>- Use capacity of Ftier Pool has changed. (NORMAL or CAUTION -&gt; WARNING)</li> <li>- Lack of Ftier pool capacity</li> </ul>	4.3	
Information related to Tintri VMstore series is added.	4.8	
The troubleshooting when the status has changed to unmonitored is modified.	Chapter 8	
Information related to HP-UX 11i v1/v2 is deleted.	"Notation" in Preface, 2.4	
Information related to VMware vSphere 4 is deleted.	"Notation" in Preface	
Information related to the ETERNUS DX80/DX90 is deleted.	"Notation" in Preface, 4.1	
Information related to the ETERNUS AF250/AF650 is added.	"Notation" and "Others" in Preface, 4.5	
Information related to the ETERNUS LT60 is deleted.	"Notation" in Preface, 5.1	
The trap number 3, 13, 14, and 15 are added in "Specific Trap (Extended Trap)".	4.4, 4.5	
Event traps that are not reported from a device are deleted.	4.4	
An event is added.	Chapter 8	

## Manual Organization and Reading Suggestions

### Manual Organization

The following table describes the Manual organization of Express, Storage Cruiser, and AdvancedCopy Manager.

When to Read	Related Manuals (Abbreviated)	Related Products (*1)			Explanation
		EXP	SC	ACM	
Before installation	Quick Reference	Yes	Yes	Yes	This manual is common for all products.
	Release Notes	Yes	Yes	Yes	This manual is common for all products.
	Overview	-	-	Yes	This manual is unique for the product.
During installation	Installation and Setup Guide	Yes	Yes	Yes	This manual is common for all products.



When to Read	Related Manuals (Abbreviated)	Related Products (*1)			Explanation
		EXP	SC	ACM	
	Cluster Environment Setup Guide	-	Yes	Yes	This manual is common for Storage Cruiser and AdvancedCopy Manager.
	Migration Guide	Yes	Yes	Yes	This manual is common for all products.
During operation	Operation Guide	Yes	Yes	Yes	This manual is unique for each product. The following manuals are available: <ul style="list-style-type: none"> <li>- Express Operation Guide</li> <li>- Storage Cruiser Operation Guide</li> <li>- Storage Cruiser Operation Guide for Optimization Function</li> <li>- AdvancedCopy Manager Operation Guide (for Windows)</li> <li>- AdvancedCopy Manager Operation Guide (for Solaris)</li> <li>- AdvancedCopy Manager Operation Guide (for Linux)</li> <li>- AdvancedCopy Manager Operation Guide (for HP-UX)</li> <li>- AdvancedCopy Manager Operation Guide (for AIX)</li> <li>- AdvancedCopy Manager Operation Guide for Copy Control Module</li> <li>- Storage Cruiser / AdvancedCopy Manager Operation Guide for VMware vSphere Virtual Volumes</li> </ul>
	Web Console Guide	Yes	Yes	Yes	This manual is common for all products.
Anytime	Event Guide	Yes	Yes	-	This manual is common for Express and Storage Cruiser.
	Messages	Yes	Yes	Yes	This manual is common for all products.
	Glossary	Yes	Yes	Yes	This manual is common for all products.

\*1: "EXP" indicates Express, "SC" indicates Storage Cruiser, and "ACM" indicates AdvancedCopy Manager.

## How to Read Manuals

Use the following table to find the most useful information in the Express, Storage Cruiser, and AdvancedCopy Manager manuals to answer your inquiry.

Purpose	Manual	Main Contents	How to Read
Acquiring a product overview and basic operation knowledge	Quick Reference	<ul style="list-style-type: none"> <li>- Product overview</li> <li>- Installation decision</li> <li>- Overview of the necessary tasks from installation to first use</li> </ul>	Read if you want to acquire a fundamental knowledge of the product and its operation in order to decide to install it or not.
	AdvancedCopy Manager Overview	<ul style="list-style-type: none"> <li>- Main functions</li> <li>- Linkable applications</li> <li>- Procedure overview for Advanced Copy of ETERNUS Disk storage system</li> </ul>	

Purpose	Manual	Main Contents	How to Read
Confirming the updated contents	Release Notes	<ul style="list-style-type: none"> <li>- New function overview</li> <li>- Incompatibilities with previous version</li> <li>- Fixed bugs</li> </ul>	Read if you want to know the updated contents from a previous version and if you perform the upgrade.
Deciding if an upgrade is required	Migration Guide	<ul style="list-style-type: none"> <li>- Notes and cautions about the upgrade</li> <li>- Upgrade procedure</li> </ul>	Read if you want to upgrade from a previous version.
Installing and correctly operating the product  Setting up operating environment depending on purpose	Installation and Setup Guide	<ul style="list-style-type: none"> <li>- Operating environment</li> <li>- Installation procedure</li> <li>- Setup procedure</li> <li>- Uninstallation procedure</li> </ul>	Read if you want to install and setup the product.
	Cluster Environment Setup Guide	<ul style="list-style-type: none"> <li>- Supported cluster software</li> <li>- Installation procedure for a clustered system</li> <li>- Setup procedure for a clustered system</li> <li>- Uninstallation procedure for a clustered system</li> </ul>	Read if you want to install and setup the product on a clustered system.
Administration and operation of the installed system	Express Operation Guide	<ul style="list-style-type: none"> <li>- Starting and stopping the software</li> <li>- Device monitoring</li> <li>- Data copy inside the storage system</li> <li>- Necessary tasks after an architectural modification of the system as well as product maintenance</li> </ul>	Read if you want to start or shutdown the system, monitor the operation status, do backup/restore operations, etc.
	Storage Cruiser Operation Guide	<ul style="list-style-type: none"> <li>- Starting and stopping the software</li> <li>- Device monitoring</li> <li>- Necessary tasks after an architectural modification of the system as well as product maintenance</li> <li>- Command reference</li> </ul>	
	Storage Cruiser Operation Guide for Optimization Function	<ul style="list-style-type: none"> <li>- Operating environment construction</li> <li>- Operating status monitoring</li> <li>- Necessary tasks after an architectural modification of the system as well as product maintenance</li> </ul>	

Purpose	Manual	Main Contents	How to Read
		- Command reference	
	AdvancedCopy Manager Operation Guide (for Windows)	- Starting and stopping the software	
	AdvancedCopy Manager Operation Guide (for Solaris)	- Data backup/restore inside the storage system	
	AdvancedCopy Manager Operation Guide (for Linux)	- Necessary tasks after an architectural modification of the system as well as product maintenance	
	AdvancedCopy Manager Operation Guide (for HP-UX)	- Command reference	
	AdvancedCopy Manager Operation Guide (for AIX)		
	AdvancedCopy Manager Operation Guide for Copy Control Module		
	Storage Cruiser / AdvancedCopy Manager Operation Guide for VMware vSphere Virtual Volumes	- Operating environment construction - Virtual machine operation using a virtual volume - Backup/restore of the virtual machine - Necessary tasks after an architectural modification of the system as well as product maintenance	
	Web Console Guide	- Operating environment - Screen layout description	Read if you want to understand the ETERNUS SF Web Console.
Dealing with messages issued by the software	Messages	- Messages and their explanations - Parameter (variable information) description - System action - Countermeasures	Read if you want a practical way of investigating and dealing with messages issued by the software.
Dealing with events issued by the software	Event Guide	- Phenomenon of event - Countermeasures	Read if you need to find a practical way of investigating and dealing with events.
Researching the meaning of specific terms related to the products and other important terms	Glossary	- Product specific terminology explanation - Explanation of important terminology appearing in the manual - Synonyms and related terms - Proper form of abbreviated terms	Read if you want to learn the meaning of important terms, product specific terms or abbreviations used in the manuals.

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## Chapter 1 Notes about Common Traps for Devices

When Express or Storage Cruiser receives an event notification such as a SNMP Trap from the unit, the notification is decoded and displayed.

Storage Cruiser can work in cooperation with Systemwalker Centric Manager, events are linked corresponding to the relevant event levels. As for the trap common to devices except for the following traps specific to vendor, the event linkage is not operated.

Table 1.1 Trap Common to Devices

Event	Level	Event Display
coldStart trap reception	Information	Cold Start Trap
warmStart trap reception	Information	Warm Start Trap
linkDown trap reception	Information	Link Down Trap
linkUp trap reception	Information	Link Up Trap
authenticationFailure trap reception	Information	Authentication Failure Trap
egpNeighborLoss trap reception	Information	EGP Neighbor Loss Trap

# Chapter 2 Server Node Events

## 2.1 Windows Server Node

### Fujitsu Multipath Disk Control Mechanism Asynchronous Events (SNMP Trap)

Failure Event	Level	Event Display (*1)	Troubleshooting
One path inhibition	Warning	[mpType: 403] "Access path (pPbBtT) fault"	Refer to the multipath driver manual and take required actions. Generally, the connection to storage devices and the cable connections must be checked.
		[mpType: 1010] "Access path (pPbBtT) fault"	
Some paths could not be detected at a server node startup. (Multipath operation could not be started.)	Warning	[mpType: 301] "Access path (pPbBtT) could not be detected."	

\*1: The mpType displays "GRMPD" or "MPHD". The P, B, and T are variables that are displayed e.g. in the form "p2b0t0".

### MPIO Asynchronous Events (SNMP Trap)

The events of msdsm (the multi path driver that is built into Windows operating system since Windows Server 2008 by the standard) are reported as MPIO events. When the multi path driver that is compliant to MPIO is used, e.g. Fujitsu ETERNUS multipath driver, these events may be reported.

Failure Event	Level	Event Display	Troubleshooting
Path inhibition	Warning	[MPIO:16] Access path fault.	Path switching has occurred. Check whether the problem is connection (cable disconnected, switch problem, etc) or in the storage device.
Path switching failed	Warning	[MPIO:32] Fail-over failed.	Path switching has occurred, but it has failed. Check whether the problem is connection (cable disconnected, switch problem, etc) or in the storage device.

## 2.2 Solaris Server Node

### Asynchronous Event by Monitoring Keywords

The system message file (/var/adm/messages) is monitored with monitoring keywords. When a message that includes monitoring keywords is output, an asynchronous event is sent to the ETERNUS SF Manager according to the level corresponding to the monitoring keywords. In this case, the detected message containing the monitoring keywords is sent to the ETERNUS SF Manager as is. If asynchronous events corresponding to the same message are detected several times within the message monitoring time (PollingTime parameter in the Correlation.ini file), these events are reported to the ETERNUS SF Manager only once.

- Multipath Asynchronous Events

".\*" in the monitoring keywords is a regular expression (which indicates that any character appears 0 times and more).

Monitoring Keyword	Level	Event Display	Troubleshooting
.*NOTICE: mphd.*I/O path switchover succeed.*	Warning	One-line message including monitoring keywords	Refer to the multipath driver manual and take required actions. Generally, the

Monitoring Keyword	Level	Event Display	Troubleshooting
. *NOTICE: mplb.*I/O path failed, and standby.*			connection to storage devices and the cable connections must be checked.
. *NOTICE: mplb.*I/O path failed, and remaining online.*			
. *NOTICE: mplb.*disk controller connection is wrong.*			
. *NOTICE: mplb.*device connection is wrong.*			
. *WARNING: mphd.*I/O path for switch.*			
. *WARNING: mplb.*I/O path failed, no more.*			
. *WARNING: mplb.*connection of all paths is wrong.*			

- EMC PowerPath Asynchronous Event

".\*" in the monitoring keywords is a regular expression (which indicates that any character appears 0 times and more).

Monitoring Keyword	Level	Event Display	Troubleshooting
. *All paths to.*are dead.*	Warning	One-line message including monitoring keywords	Refer to the manual for the corresponding middleware product. Generally, the connection to storage devices and the cable connections must be checked.
. *Path.*to.*is dead.*			

- HITACHI JP1/HiCommand Dynamic Link Manager Asynchronous Event

".\*" in the monitoring keywords is a regular expression (which indicates that any character appears 0 times and more).

Monitoring Keyword	Level	Event Display	Troubleshooting
. *All paths to.*are dead.*	Warning	One-line message including monitoring keywords	Refer to the manual for the corresponding middleware product. Generally, the connection to storage devices and the cable connections must be checked.
. *KAPL08.*-E.*			

- Safe/PRIMECLUSTER GDS, GFS series Asynchronous Event

".\*" in the monitoring keywords is a regular expression (which indicates that any character appears 0 times and more).

Monitoring Keyword	Level	Event Display	Troubleshooting
NOTICE: sfx NOTICE: sfc NOTICE: sfd . *SDX.*INFO:.*	Information	One-line message including monitoring keywords	Refer to the manual for the corresponding middleware product.
WARNING: sfx WARNING: sfc WARNING: sfd . *SDX.*WARNING:.*	Warning	One-line message including monitoring keywords	Refer to the manual for the corresponding middleware product. Generally, the connection to storage devices and the cable connections must be checked.
PANIC: sfx PANIC: sfc	Error		

Monitoring Keyword	Level	Event Display	Troubleshooting
ERROR: sfc HALT: sfd .*SDX:.*HALT:.* .*SDX:.*ERROR:.*			

- Sun MPxIO Asynchronous Event

".\*" in the monitoring keywords is a regular expression (which indicates that any character appears 0 times and more).

Monitoring Keyword	Level	Event Display	Troubleshooting
.*scsi_vhci/ ssd.*multipath.*status:.*degraded.*	Warning	One-line message including monitoring keywords	Refer to the manual for the corresponding middleware product. Generally, the connection to storage devices and the cable connections must be checked.
.*scsi_vhci/ ssd.*multipath.*status:.*failed.*			

## 2.3 Linux Server Node

### Asynchronous Event by Monitoring Keywords

The system message file (/var/adm/messages) is monitored with monitoring keywords. When a message that includes monitoring keywords is output, an asynchronous event is sent to the ETERNUS SF Manager according to the level corresponding to the monitoring keywords. In this case, the detected message containing the monitoring keywords is sent to the ETERNUS SF Manager as is. If asynchronous events corresponding to the same message are detected several times within the message monitoring time (PollingTime parameter in the Correlation.ini file), these events are reported to the ETERNUS SF Manager only once.

- Multipath Asynchronous Events

".\*" in the monitoring keywords is a regular expression (which indicates that any character appears 0 times and more).

Failure Event	Level	Event Display	Troubleshooting
.*mplb_mod:.*WARNING.*I/O error.* .*PATHDIAG:.*WARNING.*Auto Path.* .*MPD.*WARNING.*	Warning	One-line message including a monitored keyword	Refer to the ETERNUS multipath driver manual and take action.

- Device-Mapper Multipath Asynchronous Events

".\*" in the monitoring keywords is a regular expression (which indicates that any character appears 0 times and more).

Failure Event	Level	Event Display	Troubleshooting
.*multipathd:.*remove.*path.*(uevent). * .*multipathd:.*checker.*failed.*	Warning	One-line message including a monitored keyword	Refer to the manual for the corresponding middleware product.

- PRIMECLUSTER GDS and GFS series Asynchronous Events

".\*" in the monitoring keyword is a regular expression (which indicates that any character appears 0 times and at more).

Failure Event	Level	Event Display	Troubleshooting
NOTICE: sfx NOTICE: sfc NOTICE: sfd .*SDX:.*INFO:.*	Information	One-line message including monitoring keywords	Refer to the manual for the corresponding middleware product.



Failure Event	Level	Event Display	Troubleshooting
WARNING: sfx WARNING: sfc WARNING: sfd .*SDX:.*WARNING:.*	Warning	One-line message including monitoring keywords	Refer to the manual for the corresponding middleware product. Generally, the connection to storage devices and the cable connections must be checked.
PANIC: sfx PANIC: sfc ERROR: sfc HALT: sfd .*SDX:.*HALT:.* .*SDX:.*ERROR:.*	Error		

## 2.4 HP-UX Server Node

### Asynchronous Event by Monitoring Keywords

The system message file (/var/adm/syslog/syslog.log) is monitored with monitoring keywords. When a message that includes monitoring keywords is output, an asynchronous event is sent to the ETERNUS SF Manager according to the level corresponding to the monitoring keywords. In this case, the message containing the detected monitoring keywords is sent to the ETERNUS SF Manager as is. If asynchronous events corresponding to the same message are detected multiple times within the message monitoring period (PollingTime parameter in the Correlation.ini file), these events are reported to the ETERNUS SF Manager only once.

#### - PV-LINK (LVM function) Asynchronous Events

".\*" in the monitoring keywords is a regular expression (which indicates that any character appears 0 times and more).

Monitoring Keyword	Level	Event Display	Troubleshooting
.*LVM: Path.*! .*LVM: .*PVLink.*!.*	Error	One-line message including monitoring keywords	Take appropriate action as described in the message.

#### - HBA Driver Asynchronous Events

".\*" in the monitoring keywords is a regular expression (which indicates that any character appears 0 times and more).

Monitoring Keyword	Level	Event Display	Troubleshooting
.*Target path.*gone offline.*	Error	One-line message including monitoring keywords	Take appropriate action as described in the message.

## 2.5 AIX Server Node

### Asynchronous Event by Monitoring Keywords

The error log is monitored with monitoring keywords. When a message that includes monitoring keywords is output, an asynchronous event is sent to the ETERNUS SF Manager according to the level corresponding to the monitoring keywords. In this case, the message containing the detected monitoring keywords is sent to the ETERNUS SF Manager as is. If asynchronous events corresponding to the same message are detected multiple times within the message monitoring period (PollingTime parameter in the Correlation.ini file), these events are reported to the ETERNUS SF Manager only once.

#### - MPIO Asynchronous Events

"^" in the monitoring keywords is a regular expression (beginning of line). "\s+" is a regular expression (which indicates that a space character appears 1 times and more). ".\*" is a regular expression (which indicates that any character appears 0 times and more).

Monitoring Keyword	Level	Event Display	Troubleshooting
^DE3B8540\s+.*	Warning	One-line message including monitoring keywords	Take appropriate action as described in the message.

# Chapter 3 Fibre Channel Switch Events

## Information

Event traps are messages reported from a device. If you have any questions about the message contents, refer to the relevant hardware manual to take corrective actions.

In traps other than event trap, if the "0x" is added to the beginning of the numeric value, it is a hexadecimal number. If the "0x" is not added, the numeric value is a decimal number.

## 3.1 SN200 (Brocade)

From the Fibre Channel switch whose firmware version is 2.2 or later, the trap with the asterisk ("\*") is not notified but is notified as an event trap.

	Failure Event	Level	Event Display
	System failure	Error	Central Memory FAULT
	System failure	Error	Embedded Port FAULT
	FC port failure	Error	FC Port No. <i>number</i> FAULT
	FC port online	Information	FC Port No. <i>number</i> Online
	FC port offline	Information	FC Port No. <i>number</i> Offline
*	Power supply failure	Error	Power Supply # <i>number</i> FAULT
*	Power-off	Error	Power Supply # <i>number</i> FAULT
*	Power loss	Warning	Power Supply # <i>number</i> Absent
*	Fan failure	Error	Fan # <i>number</i> FAULT
*	Fan rotational speed decrease error	Error	Fan # <i>number</i> Below Minimal Threshold
*	Fan loss	Warning	Fan # <i>number</i> Absent
*	Temperature sensor failure	Error	Temp # <i>number</i> FAULT
*	Temperature decrease error	Error	Temp # <i>number</i> Below Minimal Threshold
*	Temperature rise error	Error	Temp # <i>number</i> Above Maximum Threshold
*	Temperature sensor loss	Warning	Temp # <i>number</i> Absent
	Trap event	Error, Warning, Information	The unit trap message is output without any change.

It may takes a time to display the event when FC Port failure, FC Ports online or FC Port offline.

Following SNMP Traps are displayed in the event log when execute disconnect/connect FC cable in a short time.

- When the cable is disconnected: [Link Down Trap]
- When the cable is connected: [Link Up Trap]

The port where the trouble occurs cannot be specified from the event log, also the event linkage function does not operate. Login to the Fibre Channel switch to specify the Port where the trouble occurs, and confirm the state of the VE port and the GbE port.

Also following event logs are displayed with above event log.

- When the cable is disconnected: [FC Port No.214 Offline]
- When the cable is connected: [FC Port No.214 Online]

## 3.2 Brocade VDX series

Failure Event	Level	Event Display	Remarks
Port failure	Error	FC Port No. <i>number</i> FAULT	*1, *2, *3, and *4
Port Online	Information	FC Port No. <i>number</i> Online	
Port Offline	Information	FC Port No. <i>number</i> Offline	
Event traps	Error, Warning, Information	The message notified from the device is output as is.	

\*1

As for the Ethernet port and FC port number, the Index value output by "show fabric islports" command of Brocade VDX series is displayed.

In the case of the FCoE connection port, a displayed port number is the total value of followings.

- Last index value of the Ethernet port displayed by "show fabric islports" command
- Port number of FCOE IF output by "show fcoe interface brief" command

For example, when last index value of the Ethernet port is 60 and port number of FCOE IF is 5, a displayed port number is 65.

FCOE IF is displayed with the following format:

Displayed Format	Explanation
XXIYYZZ	The explanation of XX, YY, and ZZ is as follows: <ul style="list-style-type: none"> <li>- XX : VCS ID</li> <li>- YY : RBridgeID</li> <li>- ZZ : Port number</li> </ul>

\*2

The Ethernet port is also displayed as "FC Port".

\*3

For the Ge port, the following events of "[Table 1.1 Trap Common to Devices](#)" are displayed.

- In the case of Port Offline: [Link Down Trap]
- In the case of Port Online: [Link Up Trap]

The port number is not displayed. Therefore, log in to the target device and check the status of all Ge ports.

\*4

When the firmware version is Network OS v3.0.1 or later, the following events of "[Table 1.1 Trap Common to Devices](#)" are displayed for all the ports.

- In the case of Port Offline: [Link Down Trap]
- In the case of Port Online: [Link Up Trap]

The port number is not displayed. Therefore, log in to the target device and check the status of all the ports.

## 3.3 PRIMERGY Fibre Channel Switch Blade

Refer to "[3.1 SN200 \(Brocade\)](#)".

## 3.4 PRIMERGY BX Ethernet Fabric Switch

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Refer to "[3.2 Brocade VDX series](#)".

# Chapter 4 Storage Device Events

## Information

The event traps disabled by the event notification setting of the storage device are not notified.

### 4.1 ETERNUS DX60/DX60 S2

Event traps are messages reported from a device. If you have any questions about the message contents, refer to the relevant hardware manual to take corrective actions.

#### Notification of Component Blockage

Target	Level	Event Display	Remarks
CM Unit	Error	P 01SSMM00 Controller Module# <i>m</i> ( <i>zz xxHz</i> ) Fault < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>MM</i> : Module ID (10 - 11) <i>m</i> : CM number <i>zz</i> : Model (FC/SAS/iSCSI) <i>xx</i> : Frequency (800MHz/ 1.2GHz) <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
CM BE Expander	Error	P 06SSMM00 Controller Module# <i>m</i> ( <i>zz xxHz</i> ) BE Expander Fault < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>MM</i> : Module ID (10 - 11) <i>m</i> : CM number <i>zz</i> : Model (FC/SAS/iSCSI) <i>xx</i> : Frequency (800MHz/ 1.2GHz) <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
CM DI PORT	Error	P 08SSMM0 <i>n</i> Controller Module# <i>m</i> ( <i>zz xxHz</i> ) DI Port# <i>n</i> Fault < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>MM</i> : Module ID (10 - 11) <i>n</i> : Port number (0 - 1) <i>m</i> : CM number <i>zz</i> : Model (FC/SAS/iSCSI) <i>xx</i> : Frequency (800MHz/ 1.2GHz) <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
CM SAS Port	Error	P 09SSMM00 Controller Module# <i>m</i> ( <i>zz xxHz</i> ) SAS Port Fault < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>MM</i> : Module ID (10 - 11) <i>m</i> : CM number <i>zz</i> : Model (FC/SAS/iSCSI) <i>xx</i> : Frequency (800MHz/ 1.2GHz) <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision

Target	Level	Event Display	Remarks
CM BE Expander Port	Error	P OASSMM0n Controller Module#m(zz xxHz) BE Expander Port#n Fault <pp ss rr>	SS : Parts subtype MM : Module ID (10 - 11) n : Port number (0 - 2) m : CM number zz : Model (FC/SAS/iSCSI) xx : Frequency (800MHz/ 1.2GHz) pp : Parts number ss : Serial number rr : Revision
CM Memory	Error	P OBSSMM00 Controller Module#m(zz xxHz) Cache(MEM) Fault <pp ss rr>	SS : Parts subtype MM : Module ID (10 - 11) m : CM number zz : Model (FC/SAS/iSCSI) xx : Frequency (800MHz/ 1.2GHz) MEM: Memory capacity pp : Parts number ss : Serial number rr : Revision
CM Flash ROM	Error	P OCSMM00 Controller Module#m(zz xxHz) Flash ROM Fault <pp ss rr>	SS : Parts subtype MM : Module ID (10 - 11) m : CM number zz : Model (FC/SAS/iSCSI) xx : Frequency (800MHz/ 1.2GHz) pp : Parts number ss : Serial number rr : Revision
CM NAND Controller	Error	P OESSMM00 Controller Module#m(zz xxHz) NAND Controller Fault <pp ss rr>	SS : Parts subtype MM : Module ID (10 - 11) m : CM number zz : Model (FC/SAS/iSCSI) xx : Frequency (800MHz/ 1.2GHz) pp : Parts number ss : Serial number rr : Revision
SCU	Error	P OFSSMM00 Controller Module#m(zz xxHz) Super Capacitor Unit Fault <pp ss rr>	SS : Parts subtype MM : Module ID (10 - 11) m : CM number zz : Model (FC/SAS/iSCSI) xx : Frequency (800MHz/ 1.2GHz) pp : Parts number ss : Serial number rr : Revision
CA Port	Error	P 11SSMM0n Controller Module#m(zz xxHz) Port#n Fault <pp ss rr>	SS : Parts subtype MM : Module ID (10 - 11) n : Port number (0 - 1) m : CM number zz : Model (FC/SAS/iSCSI) xx : Frequency (800MHz/ 1.2GHz)

Target	Level	Event Display	Remarks
			<i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
CM FE Expander	Error	P 12SSMM00 Controller Module# <i>m</i> ( <i>zz xxHz</i> ) FE Expander Fault < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>MM</i> : Module ID (10 - 11) <i>m</i> : CM number <i>zz</i> : Model (FC/SAS/iSCSI) <i>xx</i> : Frequency (800MHz/ 1.2GHz) <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
CM FE Expander Port	Error	P 13SSMM0 <i>n</i> Controller Module# <i>m</i> ( <i>zz xxHz</i> ) FE Expander Port# <i>n</i> Fault < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>MM</i> : Module ID (10 - 11) <i>nn</i> : Port number (0 - 1) <i>xx</i> : Frequency (800MHz/ 1.2GHz) <i>zz</i> : Model (FC/SAS/iSCSI) <i>yy</i> : Number of ports (1 - 2) <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
SFP Optical Shortwave	Error	P 1A00MM0 <i>n</i> FC SFP Controller Module# <i>m</i> Port# <i>n</i> Fault < <i>pp ss rr oo</i> >	<i>MM</i> : Module ID (10 - 11) <i>n</i> : Port number (0 - 1) <i>m</i> : CM number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision <i>oo</i> : Other Information
SFP+ Optical Shortwave	Error	P 1C00MM0 <i>n</i> FC SFP+ Controller Module# <i>m</i> Port# <i>n</i> Fault < <i>pp ss rr oo</i> >	<i>MM</i> : Module ID (10 - 11) <i>n</i> : Port number (0 - 1) <i>m</i> : CM number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision <i>oo</i> : Other Information
3.5 Inch DISK	Error	P 80SSDD <i>NN</i> Disk Drive DE# <i>DD</i> -Disk# <i>n</i> (SAS <i>xxxGB yykrpm cc</i> ) Fault < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>DD</i> : DE ID <i>NN</i> : Slot number (00 - 0b) <i>n</i> : Slot number (00 - 11) <i>xxx</i> : Disk capacity <i>yy</i> : Disk rotation <i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
3.5 Inch Disk (Failed Usable)	Error	P 80SSDD <i>NN</i> Disk Drive DE# <i>DD</i> -Disk# <i>n</i> (SAS <i>xxxGB yykrpm cc</i> ) Failed Usable < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>DD</i> : DE ID <i>NN</i> : Slot number (00 - 0b) <i>n</i> : Slot number (00 - 11) <i>xxx</i> : Disk capacity <i>yy</i> : Disk rotation <i>cc</i> : Disk information



Target	Level	Event Display	Remarks
			<i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
3.5 Inch DISK (Compare Error)	Error	P 88SSDDNN Disk Drive DE# DD-Disk#n(SAS xxxGB yykrpm cc) Fault < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>DD</i> : DE ID <i>NN</i> : Slot number (00 - 0b) <i>n</i> : Slot number (00 - 11) <i>xxx</i> : Disk capacity <i>yy</i> : Disk rotation <i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
2.5 Inch DISK	Error	P 81SSDDNN Disk Drive DE#DD-Disk#n(SAS xxxGB yykrpm cc) Fault < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>DD</i> : DE ID <i>NN</i> : Slot number (00 - 17) <i>n</i> : Slot number (00 - 23) <i>xxx</i> : Disk capacity <i>yy</i> : Disk rotation <i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
2.5 Inch Disk (Failed Usable)	Error	P 81SSDDNN Disk Drive DE#DD-Disk#n(SAS xxxGB yykrpm cc) Failed Usable < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>DD</i> : DE ID <i>NN</i> : Slot number (00 - 17) <i>n</i> : Slot number (00 - 23) <i>xxx</i> : Disk capacity <i>yy</i> : Disk rotation <i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
2.5 Inch DISK (Compare Error)	Error	P 88SSDDNN Disk Drive DE# DD-Disk#n(SAS xxxGB yykrpm cc) Fault < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>DD</i> : DE ID <i>NN</i> : Slot number (00 - 17) <i>n</i> : Slot number (00 - 23) <i>xxx</i> : Disk capacity <i>yy</i> : Disk rotation <i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
3.5 Inch DISK	Error	P 82SSDDNN Disk Drive DE#DD-Disk#n(SATA xxxGB cc) Fault < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>DD</i> : DE ID <i>NN</i> : Slot number (00 - 0b) <i>n</i> : Slot number (00 - 11) <i>xxx</i> : Disk capacity <i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision

Target	Level	Event Display	Remarks
3.5 Inch Disk (Failed Usable)	Error	P 82SSDDNN Disk Drive DE#DD-Disk#n(SATA xxxGB cc) Failed Usable <pp ss rr>	SS : Parts subtype DD : DE ID NN : Slot number (00 - 0b) n : Slot number (00 - 11) xxx : Disk capacity cc : Disk information pp : Parts number ss : Serial number rr : Revision
3.5 Inch DISK (Compare Error)	Error	P 88SSDDNN Disk Drive DE# DD-Disk#n(SATA xxxGB cc) Fault <pp ss rr>	SS : Parts subtype DD : DE ID NN : Slot number (00 - 0b) n : Slot number (00 - 11) xxx : Disk capacity cc : Disk information pp : Parts number ss : Serial number rr : Revision
3.5 Inch SSD	Error	P 84SSDDNN SSD 3.5 DE#dd-Slot#n(SAS xxxGB cc) Fault <pp ss rr>	SS : Parts subtype DD : DE ID NN : Slot number (00 - 0b) n : Slot number (00 - 11) xxx : Disk capacity cc : Disk information pp : Parts number ss : Serial number rr : Revision
3.5 Inch SSD (Failed Usable)	Error	P 84SSDDNN SSD 3.5 DE#dd-Slot#n(SAS xxxGB cc) Failed Usable <pp ss rr>	SS : Parts subtype DD : DE ID NN : Slot number (00 - 0b) n : Slot number (00 - 11) xxx : Disk capacity cc : Disk information pp : Parts number ss : Serial number rr : Revision
3.5 Inch SSD (Compare Error)	Error	P 88SSDDNN SSD 3.5 DE#dd-Slot#n(SAS xxxGB cc) Fault <pp ss rr>	SS : Parts subtype DD : DE ID NN : Slot number (00 - 0b) n : Slot number (00 - 11) xxx : Disk capacity cc : Disk information pp : Parts number ss : Serial number rr : Revision
2.5 Inch SSD	Error	P 85SSDDNN SSD 2.5 DE#dd-Slot#n(SAS xxxGB cc) Fault <pp ss rr>	SS : Parts subtype DD : DE ID NN : Slot number (00 - 17) n : Slot number (00 - 23) xxx : Disk capacity cc : Disk information pp : Parts number

Target	Level	Event Display	Remarks
			<i>ss</i> : Serial number <i>rr</i> : Revision
2.5 Inch SSD (Failed Usable)	Error	P 85SSDDNN SSD 2.5 DE#dd-Slot#n(SAS xxxGB cc) Failed Usable < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>DD</i> : DE ID <i>NN</i> : Slot number (00 - 17) <i>n</i> : Slot number (00 - 23) <i>xxx</i> : Disk capacity <i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
2.5 Inch SSD (Compare Error)	Error	P 88SSDDNN SSD 2.5 DE#dd-Slot#n(SAS xxxGB cc) Fault < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>DD</i> : DE ID <i>NN</i> : Slot number (00 - 17) <i>n</i> : Slot number (00 - 23) <i>xxx</i> : Disk capacity <i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
EXP	Error	P 900DDON Expander DE#DD/EXP#N Fault < <i>pp ss rr</i> >	<i>DD</i> : DE ID <i>N</i> : Side 0, side 1 <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
EXP Port	Error	P 910DDNn Expander Port DE#DD/EXP#N/ Port#n Fault < <i>pp ss rr</i> >	<i>DD</i> : DE ID <i>N</i> : Side 0, side 1 <i>n</i> : Port number (0 - 1) <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
PSU	Error	P D200DDOn Power Supply Unit DE#DD/ PSU#n Fault < <i>pp ss rr</i> >	<i>DD</i> : DE ID <i>n</i> : Slot number (0 - 1) <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision

### Warning (Temperature Alarm)

Target	Level	Event Display	Remarks
DE Abnormal exhaust gas temperature (FATAL)	Error	P DA0tDD00 DE Exhaust temperature DE#DD Fatal	<i>t</i> : Type(1=1U, 2=2U) <i>DD</i> : DE ID
DE Abnormal exhaust gas temperature (Sensor failure)	Error	P DA0tDD00 DE Exhaust temperature sensor DE#DD Fault	<i>t</i> : Type(1=1U, 2=2U) <i>DD</i> : DE ID
DE Abnormal exhaust gas temperature (WARNING)	Warning	J DA0tDD00 DE Exhaust temperature DE#DD Warning	<i>t</i> : Type(1=1U, 2=2U) <i>DD</i> : DE ID

Target	Level	Event Display	Remarks
DE Abnormal intake temperature (Sensor failure)	Error	P DB0tDD00 DE Intake temperature sensor DE#DD Fault	t : Type(1=1U, 2=2U) DD : DE ID
DE Abnormal intake temperature (WARNING)	Warning	J DB0tDD00 DE Intake temperature DE#DD Warning	t : Type(1=1U, 2=2U) DD : DE ID

### Warning (Other)

Target	Level	Event Display	Remarks
CM Check1	Warning	J C1MM0000 Controller Module#m(zz xxHz) Reboot <pp ss rr>	MM : Module ID (10 - 11) m : CM number zz : Model (FC/SAS/iSCSI) xx : Frequency (800MHz/1.2GHz) pp : Parts number ss : Serial number rr : Revision
Multiple memory collectable error	Warning	J C301MM00 Controller Module#m(zz xxHz) Cache(MEM) Correctable Error <pp ss rr>	MM : Module ID (10 - 11) m : CM number zz : Model (FC/SAS/iSCSI) xx : Frequency (800MHz/1.2GHz) MEM: Memory capacity pp : Parts number ss : Serial number rr : Revision
CM Warning	Warning	J 01SSMM00 Controller Module#m(zz xxHz) Warning factor(ww) <pp ss rr>	SS : Parts subtype m : CM number zz : Model (FC/SAS/iSCSI) xx : Frequency (800MHz/1.2GHz) ww : Factor Code pp : Parts number ss : Serial number rr : Revision
CM BE Expander Warning	Warning	J 06SSMM00 Controller Module##m(zz xxHz) BE Expander Warning <pp ss rr>	SS : Parts subtype MM : Module ID (10 - 11) m : CM number zz : Model (FC/SAS/iSCSI) xx : Frequency (800MHz/1.2GHz) pp : Parts number ss : Serial number rr : Revision
CM SAS Port Warning	Warning	J 09SSMM0n Controller Module#m(zz xxHz) SAS Port#n Warning <pp ss rr>	SS : Parts subtype MM : Module ID (10 - 11) n : Port number (0 - 1) zz : Model (FC/SAS/iSCSI) xx : Frequency (800MHz/1.2GHz) pp : Parts number

Target	Level	Event Display	Remarks
			<i>ss</i> : Serial number <i>rr</i> : Revision
CM BE Expander Port Warning	Warning	J 0ASSMM0n Controller Module#m(zz xxHz) BE Expander Port#n Warning <pp ss rr>	<i>SS</i> : Parts subtype <i>MM</i> : Module ID (10 - 11) <i>n</i> : Port number (0 - 2) <i>zz</i> : Model (FC/SAS/iSCSI) <i>xx</i> : Frequency (800MHz/ 1.2GHz) <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
CM FLASH ROM	Warning	J 0CSSMM00 Controller Module#m(zz xxHz) Flash ROM Warning <pp ss rr>	<i>SS</i> : Parts subtype <i>MM</i> : Module ID (10 - 11) <i>zz</i> : Model (FC/SAS/iSCSI) <i>xx</i> : Frequency (800MHz/ 1.2GHz) <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
CM NAND Controller	Warning	J 0ESSMM00 Controller Module#m(zz xxHz) NAND Flash Warning <pp ss rr>	<i>SS</i> : Parts subtype <i>MM</i> : Module ID (10 - 11) <i>zz</i> : Model (FC/SAS/iSCSI) <i>xx</i> : Frequency (800MHz/ 1.2GHz) <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
SMART notice from Disk (3.5inch)	Warning	J 80SSDDNN Disk Drive DE#DD-Disk#n(SAS xxxGB yykrpm cc) SMART <pp ss rr>	<i>SS</i> : Parts subtype <i>DD</i> : DE ID <i>NN</i> : Slot number (00 - 0b) <i>n</i> : Slot number (00 - 11) <i>xxx</i> : Disk capacity <i>yy</i> : Disk rotation <i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
Disk preventative separation SMART (3.5inch)	Warning	J 80SSDDNN Disk Drive DE#DD-Disk#n(SAS xxxGB yykrpm cc) Warning <pp ss rr>	<i>SS</i> : Parts subtype <i>DD</i> : DE ID <i>NN</i> : Slot number (00 - 0b) <i>n</i> : Slot number (00 - 11) <i>xxx</i> : Disk capacity <i>yy</i> : Disk rotation <i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
SMART notice from Disk (2.5inch)	Warning	J 81SSDDNN Disk Drive DE#DD-Disk#n(SAS xxxGB yykrpm cc) SMART <pp ss rr>	<i>SS</i> : Parts subtype <i>DD</i> : DE ID <i>NN</i> : Slot number (00 - 17) <i>n</i> : Slot number (00 - 23) <i>xxx</i> : Disk capacity <i>yy</i> : Disk rotation

Target	Level	Event Display	Remarks
			<i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
Disk preventative separation SMART (2.5inch)	Warning	J 81SSDDNN Disk Drive DE#DD-Disk#n(SAS xxxGB yykrpm cc) Warning <pp ss rr>	<i>SS</i> : Parts subtype <i>DD</i> : DE ID <i>NN</i> : Slot number (00 - 17) <i>n</i> : Slot number (00 - 23) <i>xxx</i> : Disk capacity <i>yy</i> : Disk rotation <i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
SATA Disk notice from Disk (3.5inch)	Warning	J 82SSDDNN Disk Drive DE#DD-Disk#n(SATA xxxGB cc) SMART <pp ss rr>	<i>SS</i> : Parts subtype <i>DD</i> : DE ID <i>NN</i> : Slot number (00 - 0b) <i>n</i> : Slot number (00 - 11) <i>xxx</i> : Disk capacity <i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
SATA Disk preventative separation SMART (3.5inch)	Warning	J 82SSDDNN Disk Drive DE#DD-Disk#n(SATA xxxGB cc) Warning <pp ss rr>	<i>SS</i> : Parts subtype <i>DD</i> : DE ID <i>NN</i> : Slot number (00 - 0b) <i>n</i> : Slot number (00 - 11) <i>xxx</i> : Disk capacity <i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
SMART notice from SSD (3.5inch)	Warning	J 84SSDDNN SSD 3.5 DE#dd-Slot#n(SAS xxxGB cc) SMART <pp ss rr>	<i>SS</i> : Parts subtype <i>DD</i> : DE ID <i>NN</i> : Slot number (00 - 0b) <i>n</i> : Slot number (00 - 11) <i>xxx</i> : Disk capacity <i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
SSD preventative separation SMART (3.5inch)	Warning	J 84SSDDNN SSD 3.5 DE#dd-Slot#n(SAS xxxGB cc) Warning <pp ss rr>	<i>SS</i> : Parts subtype <i>DD</i> : DE ID <i>NN</i> : Slot number (00 - 0b) <i>n</i> : Slot number (00 - 11) <i>xxx</i> : Disk capacity <i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
SMART notice from SSD (2.5inch)	Warning	J 85SSDDNN SSD 2.5 DE#dd-Slot#n(SAS xxxGB cc) SMART <pp ss rr>	<i>SS</i> : Parts subtype <i>DD</i> : DE ID <i>NN</i> : Slot number (00 - 17)

Target	Level	Event Display	Remarks
			<i>n</i> : Slot number (00 - 23) <i>xxx</i> : Disk capacity <i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
SSD preventative separation SMART (2.5inch)	Warning	J 85SSDDNN SSD 2.5 DE# <i>dd</i> -Slot# <i>n</i> (SAS <i>xxx</i> GB <i>cc</i> ) Warning < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>DD</i> : DE ID <i>NN</i> : Slot number (00 - 17) <i>n</i> : Slot number (00 - 23) <i>xxx</i> : Disk capacity <i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
EXP Alarm (Warning Level)	Warning	J 900DDON Expander DE# <i>DD</i> /EXP# <i>n</i> Warning < <i>pp ss rr</i> >	<i>DD</i> : DE ID <i>N</i> : Side 0, side 1 <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
EXP Port (Warning Level)	Warning	J 910DDNn Expander Port DE# <i>DD</i> /EXP# <i>N</i> /Port# <i>n</i> Warning < <i>pp ss rr</i> >	<i>DD</i> : DE ID <i>N</i> : Side 0, side 1 <i>n</i> : Port number (0 - 1) <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision

### Event Notification (M Messages)

Target	Level	Event Display	Remarks
Write Bad Data	Error	M E0050 <i>xxx</i> WRITE BAD DATA	<i>xxx</i> : RLU number
PINNED Data	Error	M E10300 <i>MM</i> PINNED DATA	<i>MM</i> : CM Module ID where PINNED occurred
NRDY (Factor 01)	Error	M E2070001 NOT READY(01:Configuration Error)	
NRDY (Factor 02)	Error	M E2070002 NOT READY(02:CM F/W Version Error)	
NRDY (Factor 04)	Error	M E2070004 NOT READY(04:Restore Fail)	
NRDY (Factor 11)	Error	M E207000B NOT READY(11:Power Off/Fail Incomplete)	
NRDY (Factor 12)	Error	M E207000C NOT READY(12:Backup Fail)	
NRDY (Factor 13)	Error	M E207000D NOT READY(13:Multi CM Down)	
NRDY (Factor 14)	Error	M E207000E NOT READY(14:Machine Down Recovery End)	
NRDY (Factor 15)	Error	M E207000F NOT READY(15:Machine Down Recovery Failed)	
NRDY (Factor 16)	Error	M E2070010 NOT READY(16:DE Build Error)	

Target	Level	Event Display	Remarks
NRDY (Factor 17)	Error	M E2070011 NOT READY(17:CM Memory Shortage)	
NRDY (Factor 21)	Error	M E2070015 NOT READY(21:Configuration Data restored from System Disk)	
NRDY (Factor 22)	Error	M E2070016 NOT READY(22:No Version)	
End of rebuild to HS (Bad Data)	Error	M 21810xxx RAID Group#0xxx recovered end of Rebuild processing	xxx : RLU number
End of rebuild to DV (Bad Data)	Error	M 21810xxx RAID Group#0xxx recovered end of Rebuild processing	xxx : RLU number
Disconnected intra-cabinet path	Error	M 0732xyyy Remote Copy Path (MID#xx PORT#yy) Not Available	xx : MID yy : Port
REC automatic HALT occurrence	Error	M 13CF11xx REC Automatic HALT or ERROR occurred.(xx)	xx : 00 is path error, 01 heavy load, 02 ERROR
Copy session [Active -> Error]	Error	M 13CE0001 Error session was detected. (Local:xxxxx Remote:xxxxx)	xxxxx : Number of copy sessions that status is Error
Copy session [Suspend -> Error]	Error	M 13CE0002 Foreseen error session was detected. (Local:xxxxx Remote:xxxxx)	xxxxx : Number of copy sessions that status changed from Suspend to Error
Copy session [Active -> Halt]	Error	M 13CE0003 Halt session was detected. (Remote:xxxxx)	xxxxx : Number of copy sessions that status is Halt
Copy session [Error -> Idle]	Error	M 13CE0004 Error session was cleared.	
Copy session [Suspend -> Error -> Idle]	Error	M 13CE0005 Foreseen error session was cleared.	
Copy session [Halt -> Active]	Error	M 13CE0006 Halt session was cleared.	

## Recovery Notification

Target	Level	Event Display	Remarks
CM BE Expander Warning recovery	Information	R 06SSMM00 Controller Module#n(zz xxHz) BE Expander Normal <pp ss rr>	SS : Parts subtype MM : CM MID (10 - 11) n : Port number (0 - 1) zz : Model (FC/SAS/iSCSI) xx : Frequency (800MHz/1.2GHz) pp : Parts number ss : Serial number rr : Revision
EXP Warning recovery	Information	R 9000DDnn Expander DE#DD/EXP#n Normal <pp ss rr>	DD : DE ID nn : Port number (00 - 01) n : Port number (0 - 1) pp : Parts number ss : Serial number rr : Revision
PSU Alarm recovery (AC-Fail clear)	Information	R D200DD0N Power Supply Unit DE#DD / PSU#N Normal <pp ss rr>	DD : DE ID N : Side 0, side 1 pp : Parts number



Target	Level	Event Display	Remarks
			<i>ss</i> : Serial number <i>rr</i> : Revision
DE exhaust temperature alarm recovery	Information	R DA0tDD00 DE OUT TEMP Normal	<i>DD</i> : DE ID <i>t</i> : Type(1: 3.5"DE / 2: 2.5"DE)
DE intake air temperature alarm recovery	Information	R DB0tDD00 DE IN TEMP Normal	<i>DD</i> : DE ID <i>t</i> : Type(1: 3.5"DE / 2: 2.5"DE)

## 4.2 ETERNUS DX400 series, DX8000 series

Event traps are messages reported from a device. If you have any questions about the message contents, refer to the relevant hardware manual to take corrective actions.

### Notification of Component Blockage

Target	Level	Event Display	Remarks
CM Unit	Error	P 010tMM00 CM#MM Fault	<i>t</i> : Type (1 - 3) <i>MM</i> : Module ID (10 - 11)
CM Mantaray SP	Error	P 030tMMnn CM#MM DMA PORT Alarm	<i>t</i> : Type (1 - 3) <i>MM</i> : Module ID (10 - 17) <i>nn</i> : Chip number (0 - 1)
CM DI NP	Error	P 040tMMnn CM#MM DI Alarm	<i>t</i> : Type (1 - 3) <i>MM</i> : Module ID (10 - 17) <i>nn</i> : Chip number (0 - 1)
CM DI SP	Error	P 0500MMnn CM#MM DI PORT Alarm	<i>MM</i> : Module ID (10 - 17) <i>nn</i> : Port number (0 - 7)
CM SMC	Error	P 0600MM00 CM#MM SMC Alarm	<i>MM</i> : Module ID (10 - 11)
CM MMC	Error	P 0700MM00 CM#MM MMC Alarm	<i>MM</i> : Module ID (10 - 17)
CM DI SP/Path	Error	P 0A00MMnn CM#MM DI PORT/PATH Alarm	<i>MM</i> : Module ID (10 - 11) <i>nn</i> : Port number (0 - 7)
CM Memory:512MB	Error	P 0B1tMMnn CM#MM MEMORY(512MB) Fault	<i>t</i> : Type (1 - 2) <i>MM</i> : Module ID (10 - 17) <i>nn</i> : Slot number (0 - 3)
CM Memory:1GB	Error	P 0B2tMMnn CM#MM MEMORY(1024MB) Fault	<i>t</i> : Type (1 - 2) <i>MM</i> : Module ID (10 - 17) <i>nn</i> : Slot number (0 - 3)
CM Memory:2GB	Error	P 0B4tMMnn CM#MM MEMORY(2048MB) Fault	<i>t</i> : Type (1 - 2) <i>MM</i> : Module ID (10 - 17) <i>nn</i> : Slot number (0 - 3)
CM Memory:4GB	Error	P 0B8tMMnn CM#MM MEMORY(4096MB) Fault	<i>t</i> : Type (1 - 2) <i>MM</i> : Module ID (10 - 17) <i>nn</i> : Slot number (0 - 3)
Compact Flash	Error	P 0C0tMM00 CM#MM COMPACT FLASH Fault	<i>t</i> : Type (1 - 3) <i>MM</i> : Module ID (10 - 17)
CM FAN UNIT	Error	P 0D00MM00 CM#MM FAN UNIT Fault	<i>MM</i> : Module ID (10 - 17)
CA	Error	P 10ttMM00 CA#MM (on CM#XX) CaType Fault	<i>tt</i> : Type (00 - 19) <i>MM</i> : CA Module ID (40 - 4F, , , 70 -

Target	Level	Event Display	Remarks
			7F) XX : CM Module ID (10 - 17)
CA Port	Error	P 11ttMMnn CA#MM (on CM#XX) CaType PORT Alarm	tt : Type (00 - 19) MM : CA Module ID (40 - 4F, , , 70 - 7F) XX : CM Module ID (10 - 17) nn : Port number (00 - 01)
SFP Optical Shortwave	Error	P 1AttMMnn CA#MM (on CM#XX) CaType SFP OPTICAL SHORTWAVE Fault	tt : Type (00 - 1D) MM : CA Module ID (40 - 4F, , , 70 - 7F) XX : CM Module ID (10 - 17) nn : Port number (00 - 01)
SFP Optical Longwave	Error	P 1BttMMnn CA#MM (on CM#XX) CaType SFP OPTICAL LONGWAVE Fault	tt : Type (00, 18) MM : CA Module ID (40 - 4F, , , 70 - 7F) XX : CM Module ID (10 - 17) nn : Port number (00 - 01)
XFP (UndefCA)	Error	P 1CttMMnn CA#MM (on CM#XX) CaType XFP Fault	tt : Type (00 - 0F) MM : CA Module ID (40 - 4F, , , 70 - 7F) XX : CM Module ID (10 - 17) nn : Port number (00 - 01)
SFP+ Optical Shortwave	Error	P 1CttMMnn CA#MM (on CM#XX) CaType SFP + OPTICAL SHORTWAVE Fault	tt : Type (00 - 09) MM : CA Module ID (40 - 4F, , , 70 - 7F) XX : CM Module ID (10 - 17) nn : Port number (00 - 01)
SFP Optical Longwave	Error	P 1DttMMnn CA#MM (on CM#XX) CaType SFP OPTICAL LONGWAVE Fault	tt : Type (00 - 06) MM : CA Module ID (40 - 4F, , , 70 - 7F) XX : CM Module ID (10 - 17) nn : Port number (00 - 01)
SFP Unknown	Error	P 1FttMMnn CA#MM (on CM#XX) SFP Type Unknown Fault	tt : Type (03 - 06) MM : CA Module ID (40 - 4F, , , 70 - 7F) XX : CM Module ID (10 - 17) nn : Port number (00 - 01)
FRT	Error	P 400tMM00 FRT Fault	t : Type (0, 1) MM : Module ID (F0 - F1)
BRT	Error	P 5000MM00 BRT Fault	MM : Module ID (B0 - B7)
BRT Port/Path	Error	P 5100MMnn BRT PORT/PATH Alarm	MM : Module ID (B0 - B7) nn : Port number (00 - 07)
SFP Optical Shortwave (BRT)	Error	P 5A00MMnn BRT SFP OPTICAL SHORTWAVE Fault	MM : Module ID (B0 - B7) nn : Port number (00 - 07)
SVC	Error	P 6000MM00 SVC Fault	MM : Module ID (E0 - E1)
CE FAN UNIT	Error	P 710tnn00 CE FAN UNIT Fault	t : Type (1, 2) nn : Slot number
OPNL UNIT	Error	P 720t0000 PANEL UNIT Fault	t : Type (1, 2)

Target	Level	Event Display	Remarks
CPSU	Error	P 730 $tnn$ 00 CPSU Fault	$t$ : Type (1, 2) $nn$ : Slot number
SCCI	Error	P 740 $tnn$ 00 SCCI CABLE Fault	$t$ : Type (1, 2) $nn$ : Slot number
BCU	Error	P 7500 $nn$ 00 BCU Fault	$nn$ : Slot number
BTU	Error	P 760 $tnn$ 00 BTU Fault	$t$ : Type (1, 2) $nn$ : Slot number
BBU Signal CABLE	Error	P 7700 $MM$ 00 BBU SIG CABLE Fault	$MM$ : Module ID(10-11)
3.5 Inch DISK	Error	P 80 $ttDDnn PP xx$ GB DISK( $cccccc$ ) DE# $DDI$ / Slot# $nn$ Fault	$tt$ : Type $DD$ : DE ID $nn$ : Slot number (00 - 0E) $PP$ : Product ID(Disk) $xx$ : Disk capacity $cccccc$ : Disk information
3.5 Inch Disk (Failed Usable)	Error	P 80 $ttDDnn PP xx$ GB DISK( $cccccc$ ) DE# $DDI$ / Slot# $nn$ FailedUse	$tt$ : Type $DD$ : DE ID $nn$ : Slot number (00 - 0E) $PP$ : Product ID(Disk) $xx$ : Disk capacity $cccccc$ : Disk information
3.5 Inch Disk (DISK performance abnormal)	Error	P 80 $ttDDnn PP xx$ GB DISK( $cccccc$ ) DE# $DDI$ / Slot# $nn$ Slowdown	$tt$ : Type $DD$ : DE ID $nn$ : Slot number (00 - 0E) $PP$ : Product ID(Disk) $xx$ : Disk capacity $cccccc$ : Disk information
3.5 Inch DISK (Compare Error)	Error	P 88 $ttDDnn PP xx$ GB DISK( $cccccc$ ) DE# $DDI$ / Slot# $nn$ Fault	$tt$ : Type $DD$ : DE ID $nn$ : Slot number (00 - 0E) $PP$ : Product ID(Disk) $xx$ : Disk capacity $cccccc$ : Disk information
2.5 Inch DISK	Error	P 81 $ttDDnn PP xx$ GB DISK( $cccccc$ ) DE# $DDI$ / Slot# $nn$ Fault	$tt$ : Type $DD$ : DE ID $nn$ : Slot number (00 - 1D) $PP$ : Product ID(Disk) $xx$ : Disk capacity $cccccc$ : Disk information
2.5 Inch Disk (Failed Usable)	Error	P 81 $ttDDnn PP xx$ GB DISK( $cccccc$ ) DE# $DDI$ / Slot# $nn$ FailedUse	$tt$ : Type $DD$ : DE ID $nn$ : Slot number (00 - 1D) $PP$ : Product ID(Disk) $xx$ : Disk capacity $cccccc$ : Disk information
2.5 Inch DISK (Compare Error)	Error	P 88 $ttDDnn PP xx$ GB DISK( $cccccc$ ) DE# $DDI$ / Slot# $nn$ Fault	$tt$ : Type $DD$ : DE ID $nn$ : Slot number (00 - 1D) $PP$ : Product ID(Disk) $xx$ : Disk capacity $cccccc$ : Disk information

Target	Level	Event Display	Remarks
3.5 Inch SATA DISK	Error	P 82ttDDnn PP xxGB DISK(ccccccc) DE#DDI Slot#nn Fault	tt : Type DD : DE ID nn : Slot number (00 - 0E) PP : Product ID(Disk) xx : Disk capacity ccccccc : Disk information
3.5 Inch SATA Disk (Failed Usable)	Error	P 82ttDDnn PP xxGB DISK(ccccccc) DE#DDI Slot#nn FailedUse	tt : Type DD : DE ID nn : Slot number (00 - 0E) PP : Product ID(Disk) xx : Disk capacity ccccccc : Disk information
3.5 Inch SATA Disk (Compare Error)	Error	P 88ttDDnn PP xxGB DISK(ccccccc) DE#DDI Slot#nn Fault	tt : Type DD : DE ID nn : Slot number (00 - 0E) PP : Product ID(Disk) xx : Disk capacity ccccccc : Disk information
Solid State Drive	Error	P 84ttDDnn PP xxGB DISK(ccccccc) DE#DDI Slot#nn Fault	tt : Type DD : DE ID nn : Slot number (00 - 0E) PP : Product ID(Disk) xx : Disk capacity ccccccc : Disk information
Solid State Drive (Failed Usable)	Error	P 84ttDDnn PP xxGB DISK(ccccccc) DE#DDI Slot#nn FailedUse	tt : Type DD : DE ID nn : Slot number (00 - 0E) PP : Product ID(Disk) xx : Disk capacity ccccccc : Disk information
Solid State Drive (Compare Error)	Error	P 84ttDDnn PP xxGB DISK(ccccccc) DE#DDI Slot#nn Fault	tt : Type DD : DE ID nn : Slot number (00 - 0E) PP : Product ID(Disk) xx : Disk capacity ccccccc : Disk information
PBC (15DE)	Error	P 9001DDON PBC Fault	DD : DE ID N : Side 0, side 1
PBC (30DE)	Error	P 9002DDON PBC Fault	DD : DE ID N : Side 0, side 1
PBC Port	Error	P 9100DDNn PBC PORT Alarm	DD : DE ID N : Side 0, side 1 n : Port number (0 - 3)
SFP Optical Shortwave (PBC)	Error	P 9A00DDNn PBC SFP OPTICAL SHORTWAVE Fault	DD : DE ID N : Side 0, side 1 n : Port number (0 - 3)
SFP Copper (PBC)	Error	P 9B00DDNn PBC SFP COPPER Fault	DD : DE ID N : Side 0, side 1 n : Port number (0 - 3)

Target	Level	Event Display	Remarks
DEI CABLE	Error	P 9C00DD0N DEI CABLE Fault	DD : DE ID N : Side 0, side 1
30 DE FAN UNIT	Error	P D100DD00 DE FAN UNIT Fault	DD : DE ID
DPSU (15DE)	Error	P D20tDD0N DPSU Fault	t : Type (1 - 3) DD : DE ID N : Side 0, side 1
BBU CABLE	Error	P D300DD0N BBU CABLE Fault	DD : DE ID N : Side 0, side 1

### Warning (Temperature Alarm)

Target	Level	Event Display	Remarks
CE exhaust temperature alarm (FATAL)	Error	P 7A00EEEE CE OUT TEMP	EEEE : Position information
CE exhaust temperature alarm (WARNING)	Warning	J 7A00EEEE CE OUT TEMP	EEEE : Position information
CE intake air temperature alarm (WARNING)	Warning	J 7B00EEEE CE IN TEMP	EEEE : Position information
DE exhaust temperature alarm (FATAL)	Error	P DA00EEEE DE OUT TEMP	EEEE : Position information
DE exhaust temperature alarm (Sensor trouble)	Error	P DA00EEEE DE OUT TEMP	EEEE : Position information
DE exhaust temperature alarm (WARNING)	Warning	J DA00EEEE DE OUT TEMP	EEEE : Position information
DE intake air temperature alarm (Sensor trouble)	Error	P DB00EEEE DE IN TEMP	EEEE : Position information
DE intake air temperature alarm (WARNING)	Warning	J DB00EEEE DE IN TEMP	EEEE : Position information

### Warning (Expiration)

Target	Level	Event Display	Remarks
Six months before battery life expiration	Warning	J 7006nn00 BATTERY N 6MONTH WARNING YYYY/MM	nn : Slot number N : Battery number (0 - 7) YYYY/MM : Term of validity (year/ month)
One week before battery life expiration	Warning	J 7007nn00 BATTERY N 1WEEK WARNING YYYY/MM	nn : Slot number N : Battery number (0 - 7) YYYY/MM : Term of validity (year/ month)
N day before battery life expiration	Warning	J 7007nn00 BATTERY N zDAY WARNING YYYY/ MM	nn : Slot number N : Battery number (0 - 7) z : Days (1 - 6) YYYY/MM : Term of validity (year/ month)
Battery life expiration	Error	J 70Fenn00 BATTERY N EXPIRATION ALARM YYYY/MM	nn : Slot number N : Battery number (0 - 2)

Target	Level	Event Display	Remarks
			YYYY/MM : Term of validity (year/month)

### Warning (Other)

Target	Level	Event Display	Remarks
CM Check1	Warning	J C1MM0000 CM#MM Check-1	MM : Module ID (10 - 17)
CA Check1	Warning	J C1MM0000 CA#MM Check-1	MM : Module ID (40 - 4F, , , 70 - 7F)
Frequent occurrence of a correctable memory error: 512MB	Warning	J C31tMMnn CM#MM MEMORY(512MB) Correctable Error	t : Type (1, 2) MM : CM Module ID (10 - 17) nn : Slot number (0 - 7)
Frequent occurrence of a correctable memory error: 1GB	Warning	J C32tMMnn CM#MM MEMORY(1024MB) Correctable Error	t : Type (1, 2) MM : CM Module ID (10 - 17) nn : Slot number (0 - 7)
Frequent occurrence of a correctable memory error: 2GB	Warning	J C34tMMnn CM#MM MEMORY(2048MB) Correctable Error	t : Type (1, 2) MM : CM Module ID (10 - 17) nn : Slot number (0 - 7)
Frequent occurrence of a correctable memory error: 4GB	Warning	J C38tMMnn CM#MM MEMORY(4096MB) Correctable Error	t : Type (1, 2) MM : CM Module ID (10 - 17) nn : Slot number (0 - 7)
CM warning (statistics/other)	Warning	J 01ttEEEE CM#MM Warning	tt : Type EEEE : Position information MM : CM Module ID (10 - 17)
CM Warning (MCE Correctable)	Warning	J 01ttEEEE CM#MM MCE Correctable Error	tt : Type EEEE : Position information MM : CM Module ID (10 - 17)
CM Warning (FAN)	Warning	J 01ttEEEE CM#MM FAN Alarm	tt : Type EEEE : Position information MM : CM Module ID (10 - 17)
CM Warning (IN TEMP ALARM)	Warning	J 01ttEEEE CM#MM IN TEMP Alarm	tt : Type EEEE : Position information MM : CM Module ID (10 - 17)
CM Warning (IN TEMP SENSOR)	Warning	J 01ttEEEE CM#MM IN TEMP SENSOR Alarm	tt : Type EEEE : Position information MM : CM Module ID (10 - 17)
CM Warning (RTC ALARM)	Warning	J 01ttEEEE CM#MM RTC Alarm	tt : Type EEEE : Position information MM : CM Module ID (10 - 17)
CF Warning	Warning	J 0C0tMM00 CM#MM COMPACT FLASH Warning	t : Type (1 - 3) MM : CM Module ID (10 - 17)
CA Warning (Undefined)	Warning	J 10ttMM00 CA#MM (on CM#XX) CaType Warning	tt : Type (00 - 19) MM : CA Module ID (40 - 4F, , , 70 - 7F) XX : CM Module ID (10 - 17)
FRT Warning	Warning	J 400tMM00 FRT Warning	t : Type (1, 2) MM : FRT Module ID (F0, F1)
BRT Warning	Warning	J 5000MM00 BRT Warning	MM : BRT Module ID (B0 - B7)

Target	Level	Event Display	Remarks
SMART notification from a disk (3.5-inch)	Warning	J 80ttEEEE PP xxxGB DISK(ccccccc) DE#DDI/Slot#nn SMART	tt : Type EEEE : Position information PP : Product ID(Disk) ccccccc : Disk information DD : DE ID nn : Slot number (00 - 0E)
SMART: Preventive disk disconnection (3.5-inch)	Warning	J 80ttEEEE PP xxxGB DISK(ccccccc) DE#DDI/Slot#nn Warning	tt : Type EEEE : Position information PP : Product ID(Disk) ccccccc : Disk information DD : DE ID nn : Slot number (00 - 0E)
SMART: Disk performance abnormal (3.5-inch)	Warning	J 80ttEEEE PP xxxGB DISK(ccccccc) DE#DDI/Slot#nn WarnSlow	tt : Type EEEE : Position information PP : Product ID(Disk) ccccccc : Disk information DD : DE ID nn : Slot number (00 - 0E)
Detection notification of disk performance abnormal (3.5-inch)	Warning	J 80ttEEEE PP xxxGB DISK(ccccccc) DE#DDI/Slot#nn Slowdown	tt : Type EEEE : Position information PP : Product ID(Disk) ccccccc : Disk information DD : DE ID nn : Slot number (00 - 0E)
SMART notification from a disk (2.5-inch)	Warning	J 81ttEEEE PP xxxGB DISK(ccccccc) DE#DDI/Slot#nn SMART	tt : Type EEEE : Position information PP : Product ID(Disk) ccccccc : Disk information DD : DE ID nn : Slot number (00 - 1D)
SMART: Preventive disk disconnection (2.5-inch)	Warning	J 81ttEEEE PP xxxGB DISK(ccccccc) DE#DDI/Slot#nn Warning	tt : Type EEEE : Position information PP : Product ID(Disk) ccccccc : Disk information DD : DE ID nn : Slot number (00 - 1D)
SMART notification from a SATA disk (3.5-inch)	Warning	J 82ttEEEE PP xxxGB DISK(ccccccc) DE#DDI/Slot#nn SMART	tt : Type EEEE : Position information PP : Product ID(Disk) ccccccc : Disk information DD : DE ID nn : Slot number (00 - 1D)
SMART: Preventive SATA disk disconnection (3.5-inch)	Warning	J 82ttEEEE PP xxxGB DISK(ccccccc) DE#DDI/Slot#nn Warning	tt : Type EEEE : Position information PP : Product ID(Disk) ccccccc : Disk information DD : DE ID nn : Slot number (00 - 1D)
SVC Alarm (Warning Level)	Warning	J 6000MM00 SVC	MM : Module ID
SMC Alarm (Warning Level)	Warning	J 0600MM00 CM SMC	MM : Module ID
PBC Alarm (Warning Level)	Warning	J 9001EEEE PBC 15DE	EEEE : Position information

Target	Level	Event Display	Remarks
PBC Alarm (Warning Level)	Warning	J 9002EEEE PBC 30DE	EEEE : Position information

### Event Notification (M Messages)

Target	Level	Event Display	Remarks
Write Bad Data	Error	M E0050xxx WRITE BAD DATA	xxx : RLU number
PINNED Data	Error	M E10300MM PINNED DATA	MM : CM Module ID where PINNED occurred
NRDY (cause 01)	Error	M E2070001 NOT READY(01:Configuration Error)	
NRDY (cause 02)	Error	M E2070002 NOT READY(02:CM F/W Version Error)	
NRDY (cause 04)	Error	M E2070004 NOT READY(04:Restore Fail)	
NRDY (cause 08)	Error	M E2070008 NOT READY(08:Basic Set Online(Normal) Error)	
NRDY (cause 09)	Error	M E2070009 NOT READY(09:Maintenance Set Online Error)	
NRDY (cause 11)	Error	M E207000B NOT READY(11:Power Off/Fail Incomplete)	
NRDY (cause 12)	Error	M E207000C NOT READY(12:Backup Fail)	
NRDY (cause 13)	Error	M E207000D NOT READY(13:Multi CM Down)	
NRDY (cause 14)	Error	M E207000E NOT READY(14:Machine Down Recovery End)	
NRDY (cause 15)	Error	M E207000F NOT READY(15:Machine Down Recovery Failed)	
NRDY (cause 16)	Error	M E2070010 NOT READY(16:DE Build Error)	
NRDY (cause 17)	Error	M E2070011 NOT READY(17:CM Memory Shortage)	
NRDY (cause 18)	Error	M E2070012 NOT READY(18:PBC Combination Error)	
NRDY (cause 19)	Error	M E2070013 NOT READY(19:FRT Fault)	
NRDY (cause 20)	Error	M E2070014 NOT READY(20:BRT Fault)	
Successful FC recovery	Error	M E406C0DD FC Loop Recovery Completed	DD : Lower DE number
Unsuccessful FC loop recovery	Error	M E406F0DD FC Loop Recovery Failed	DD : Lower DE number
Rebuilding to HS completed (bad data included)	Error	M 21810xxx RAID Group#0xxx REBUILD to HS (Recovered end)	xxx : RLU number
Rebuilding to DV completed (bad data included)	Error	M 21810xxx RAID Group#0xxx REBUILD to DV (Recovered end)	xxx : RLU number
Disconnected intra-cabinet path	Error	M 0732MMnn Remote Copy Path (MID#MM PORT#nn) Not Available	MM : Module ID nn : Port
REC automatic HALT occurrence	Error	M 13CF11xx REC Automatic HALT or ERROR occurred.(xx)	xx : 00 is path error, 01 heavy load, 02 ERROR



Target	Level	Event Display	Remarks
Use capacity of Pool has changed. NORMAL -> CAUTION	Warning	M E8010xxx Pool#xxx turned to CAUTION (decrease of available capacity)	xxx : Thin Provisioning Pool number (hexadecimal notation)
Use capacity of Pool has changed. NORMAL or CAUTION -> WARNING	Warning	M E8020xxx Pool#xxx turned to WARNING (decrease of available capacity)	xxx : Thin Provisioning Pool number (hexadecimal notation)
Use capacity of Pool has changed. WARNING -> CAUTION	Warning	M E8010xxx Pool#xxx returned to CAUTION(decrease of available capacity)	xxx : Thin Provisioning Pool number (hexadecimal notation)
Use capacity of Pool has changed. CAUTION or WARNING -> NORMAL	Information	M E8040xxx Pool#xxx returned to NORMAL(increase of available capacity)	xxx : Thin Provisioning Pool number (hexadecimal notation)

### 4.3 ETERNUS DX S2 series (DX60 S2 excluded)

Event traps are messages reported from a device. If you have any questions about the message contents, refer to the relevant hardware manual to take corrective actions.

#### Notification of Component Blockage

Target	Level	Event Display	Remarks
CM Unit	Error	P 01SSMM00 Controller Module#m(zz) Fault <pp ss rr>	SS : Parts subtype MM : Module ID m : CM number zz : Model pp : Parts number ss : Serial number rr : Revision
CM DMA Port	Error	P 02SSMM0p Controller Module#m(zz) DMA PORT#p Fault <pp ss rr>	SS : Parts subtype MM : Module ID p : Port number zz : Model pp : Parts number ss : Serial number rr : Revision
CM BIOS	Error	P 03SSMM0v Controller Module#m(zz) BIOS#v Fault <pp ss rr>	SS : Parts subtype MM : Module ID v : Device number zz : Model pp : Parts number ss : Serial number rr : Revision
CM RTC	Error	P 04SSMM00 Controller Module#m(zz) RTC Fault <pp ss rr>	SS : Parts subtype MM : Module ID zz : Model pp : Parts number ss : Serial number rr : Revision

Target	Level	Event Display	Remarks
CM NVRAM	Error	P 05SSMM00 Controller Module#m(zz) NVRAM Fault <pp ss rr>	SS : Parts subtype MM : Module ID zz : Model pp : Parts number ss : Serial number rr : Revision
CM MMC	Error	P 0600MM00 Controller Module#m(zz) MMC Fault <pp ss rr>	MM : Module ID m : CM number zz : Model pp : Parts number ss : Serial number rr : Revision
CM Expander	Error	P 06SSMM0v Controller Module#m(zz) EXP#v Fault <pp ss rr>	SS : Parts subtype MM : Module ID v : Device number m : CM number zz : Model pp : Parts number ss : Serial number rr : Revision
CM DI PORT	Error	P 08SSMMvp Controller Module#m(zz) DI Port#p Fault <pp ss rr>	SS : Parts subtype MM : Module ID v : Device number p : Port number m : CM number zz : Model pp : Parts number ss : Serial number rr : Revision
CM Expander In Port	Error	P 09SSMMvp Controller Module#m(zz) EXP#v In Port#p Fault <pp ss rr>	SS : Parts subtype MM : Module ID v : Device number p : Port number m : CM number zz : Model pp : Parts number ss : Serial number rr : Revision
CM Expander Out Port	Error	P 0A8SSMMvp Controller Module#m(zz) EXP#v Out Port#p Fault <pp ss rr>	SS : Parts subtype MM : Module ID v : Device number p : Port number m : CM number zz : Model pp : Parts number ss : Serial number rr : Revision
CM Memory	Error	P 0B8SSMMnn Controller Module#m(zz) Cache(MEM #xGB) Slot#nn Fault <pp ss rr>	SS : Parts subtype MM : Module ID nn : Slot number m : CM number zz : Model x : Capacity

Target	Level	Event Display	Remarks
			<i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
CM BUD	Error	P 0C5SMM00 Controller Module# <i>m</i> ( <i>zz</i> ) BUD(# <i>xx</i> GB) Fault < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>MM</i> : Module ID <i>m</i> : CM number <i>zz</i> : Model <i>xx</i> : Capacity <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
CM FAN	Error	P 0D5SMM00 Controller Module# <i>m</i> ( <i>zz</i> ) FAN Fault < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>MM</i> : Module ID <i>m</i> : CM number <i>zz</i> : Model <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
CM NAND Controller	Error	P 0E5SMM00 Controller Module# <i>m</i> ( <i>zz</i> ) NAND Controller Fault < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>MM</i> : Module ID <i>m</i> : CM number <i>zz</i> : Model <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
CM SCU	Error	P 0F5SMM00 Controller Module# <i>m</i> ( <i>zz</i> ) SCU Fault < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>MM</i> : Module ID <i>m</i> : CM number <i>zz</i> : Model <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
CA	Error	P 105SMM00 CA Slot# <i>n-v</i> ( <i>zz</i> ) (on CM# <i>m</i> ) Fault < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>MM</i> : Module ID <i>n</i> : Slot number <i>v</i> : Device number <i>zz</i> : Model <i>m</i> : CM number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
CA Port	Error	P 115SMM0p CA Slot# <i>n-v</i> ( <i>zz</i> ) (on CM# <i>m</i> ) Port# <i>p</i> Fault < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>MM</i> : Module ID <i>p</i> : Port number <i>n</i> : Slot number <i>v</i> : Device number <i>zz</i> : Model <i>m</i> : CM number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
SFP for FC-CA	Error	P 1A5SMM0p FC SFP CA Slot# <i>n-v</i> ( <i>zz</i> ) (on CM# <i>m</i> ) Port# <i>p</i> Fault < <i>pp ss rr oo</i> >	<i>SS</i> : Parts subtype <i>MM</i> : Module ID

Target	Level	Event Display	Remarks
			<p><i>p</i> : Port number  <i>n</i> : Slot number  <i>v</i> : Device number  <i>zz</i> : Model  <i>m</i> : CM number  <i>pp</i> : Parts number  <i>ss</i> : Serial number  <i>rr</i> : Revision  <i>oo</i> : Other Information</p>
SFP for FLink-CA	Error	P 1BSSMM0 <i>p</i> FLink SFP CA Slot# <i>n-v</i> ( <i>zz</i> ) (on CM# <i>m</i> ) Port# <i>p</i> Fault < <i>pp ss rr oo</i> >	<p><i>SS</i> : Parts subtype  <i>MM</i> : Module ID  <i>p</i> : Port number  <i>n</i> : Slot number  <i>v</i> : Device number  <i>zz</i> : Model  <i>m</i> : CM number  <i>pp</i> : Parts number  <i>ss</i> : Serial number  <i>rr</i> : Revision  <i>oo</i> : Other Information</p>
SFP+ for FC-CA	Error	P 1CSSMM0 <i>p</i> FC SFP+ CA Slot# <i>n-v</i> ( <i>zz</i> ) (on CM# <i>m</i> ) Port# <i>p</i> Fault < <i>pp ss rr oo</i> >	<p><i>SS</i> : Parts subtype  <i>MM</i> : Module ID  <i>p</i> : Port number  <i>n</i> : Slot number  <i>v</i> : Device number  <i>zz</i> : Model  <i>m</i> : CM number  <i>pp</i> : Parts number  <i>ss</i> : Serial number  <i>rr</i> : Revision  <i>oo</i> : Other Information</p>
SFP+ for 10G-iSCSI-CA SFP+ for FCoE-CA	Error	P 1DSSMM0 <i>p</i> iSCSI FCoE SFP+ CA Slot# <i>n-v</i> ( <i>zz</i> ) (on CM# <i>m</i> ) Port# <i>p</i> Fault < <i>pp ss rr oo</i> >	<p><i>SS</i> : Parts subtype  <i>MM</i> : Module ID  <i>p</i> : Port number  <i>n</i> : Slot number  <i>v</i> : Device number  <i>zz</i> : Model  <i>m</i> : CM number  <i>pp</i> : Parts number  <i>ss</i> : Serial number  <i>rr</i> : Revision  <i>oo</i> : Other Information</p>
SFP+ Copper for 10G-iSCSI-CA SFP+ for FCoE-CA	Error	P 1E00MM0 <i>p</i> iSCSI FCoE SFP+Cp CA Slot# <i>S</i> ( <i>zz</i> ) (on CM# <i>m</i> ) Port# <i>p</i> Fault < <i>pp ss rr oo</i> >	<p><i>MM</i> : Module ID  <i>p</i> : Port number  <i>m</i> : CM number  <i>zz</i> : Model  <i>pp</i> : Parts number  <i>ss</i> : Serial number  <i>rr</i> : Revision  <i>oo</i> : Other Information</p>
SFP+ Longwave for FC-CA	Error	P 1900MM0 <i>p</i> FC SFP+ Longwave CA Slot# <i>S</i> ( <i>zz</i> ) (on CM# <i>m</i> ) Port# <i>p</i> Fault < <i>pp ss rr oo</i> >	<p><i>MM</i> : Module ID  <i>p</i> : Port number  <i>m</i> : CM number  <i>zz</i> : Model</p>

Target	Level	Event Display	Remarks
			<i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision <i>oo</i> : Other Information
SFP Type Unknown	Error	P 1 <i>FSSMM</i> 0 <i>p</i> SFP(Type Unknown) CA Slot# <i>n-v</i> ( <i>zz</i> ) (on CM# <i>m</i> ) Port# <i>p</i> Fault < <i>pp ss rr oo</i> >	<i>SS</i> : Parts subtype <i>MM</i> : Module ID <i>p</i> : Port number <i>n</i> : Slot number <i>v</i> : Device number <i>zz</i> : Model <i>m</i> : CM number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision <i>oo</i> : Other Information
CM FPGA	Error	P 21 <i>SSMM</i> 00 Controller Module# <i>m</i> ( <i>zz</i> ) FPGA Fault < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>MM</i> : Module ID <i>m</i> : CM number <i>zz</i> : Model <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
CM LAN Port	Error	P 22 <i>SSMM</i> 0 <i>p</i> Controller Module# <i>m</i> ( <i>zz</i> ) LAN PORT# <i>p</i> Fault < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>MM</i> : Module ID <i>p</i> : Port number <i>m</i> : CM number <i>zz</i> : Model <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
CM PCH	Error	P 2300 <i>MM</i> 00 Controller Module# <i>m</i> ( <i>zz</i> ) PCH Fault < <i>pp ss rr</i> >	<i>MM</i> : Module ID <i>m</i> : CM number <i>zz</i> : Model <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
CM QSFP	Error	P 2 <i>ASSM</i> <i>v</i> <i>p</i> Controller Module# <i>m</i> ( <i>zz</i> ) QSFP# <i>v</i> # <i>p</i> Fault < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>MM</i> : Module ID <i>v</i> : Device number <i>p</i> : Port number <i>m</i> : CM number <i>zz</i> : Model <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
FRT	Error	P 4000 <i>MM</i> 00 FRT# <i>n</i> Fault < <i>pp ss rr</i> >	<i>MM</i> : Module ID <i>n</i> : FRT number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
BRT	Error	P 5000 <i>MM</i> 00 BRT# <i>n</i> Fault < <i>pp ss rr</i> >	<i>MM</i> : Module ID <i>n</i> : BRT number <i>pp</i> : Parts number

Target	Level	Event Display	Remarks
			<i>ss</i> : Serial number <i>rr</i> : Revision
BRT Out Port	Error	P 5100MM0P BRT# <i>n</i> Out Port# <i>P</i> Fault < <i>pp ss rr</i> >	<i>MM</i> : Module ID <i>n</i> : BRT number <i>p</i> : Port number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
BRT In Port	Error	P 5200MMvP BRT# <i>n</i> InPort# <i>P</i> Fault < <i>pp ss rr</i> >	<i>MM</i> : Module ID <i>v</i> : EXP number <i>p</i> : Port number <i>n</i> : BRT number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
BRT EXP	Error	P 5300MM0v BRT# <i>n</i> EXP# <i>v</i> Fault < <i>pp ss rr</i> >	<i>MM</i> : Module ID <i>v</i> : EXP number <i>n</i> : BRT number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
BRT QSFP	Error	P 5A00MM0P BRT# <i>n</i> QSFP# <i>P</i> Fault < <i>pp ss rr</i> >	<i>MM</i> : Module ID <i>n</i> : BRT number <i>P</i> : Port number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
SVC	Error	P 6000MM00 SVC# <i>n</i> Fault < <i>pp ss rr</i> >	<i>MM</i> : Module ID <i>n</i> : SVC number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
SVC LAN Port	Error	P 6100MM0P SVC# <i>n</i> LAN PORT# <i>P</i> Fault < <i>pp ss rr</i> >	<i>MM</i> : Module ID <i>P</i> : Port number <i>n</i> : SVC number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
SVC PCIe SW	Error	P 6200MM00 SVC# <i>n</i> PCIe SW Fault < <i>pp ss rr</i> >	<i>MM</i> : Module ID <i>n</i> : SVC number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
SVC RCI board	Error	P 6300MM00 SVC# <i>n</i> RCI board Fault < <i>pp ss rr</i> >	<i>MM</i> : Module ID <i>n</i> : SVC number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
CE FAN UNIT	Error	P 7100n00 CE FAN UNIT# <i>n</i> Fault < <i>pp ss rr</i> >	<i>n</i> : Slot number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision

Target	Level	Event Display	Remarks
PANEL UNIT	Error	P 72000000 PANEL UNIT Fault <pp ss rr>	pp : Parts number ss : Serial number rr : Revision
CPSU	Error	P 73000n00 Power Supply Unit/CPSU#n Fault <pp ss rr>	n : Slot number pp : Parts number ss : Serial number rr : Revision
SCCB	Error	P 74000n00 SCCB#n Fault <pp ss rr>	n : Slot number pp : Parts number ss : Serial number rr : Revision
BBU	Error	P 75000n00 BBU#n Fault <pp ss rr>	n : Slot number pp : Parts number ss : Serial number rr : Revision
BCU	Error	P 75000n00 BCU#n Fault <pp ss rr>	n : Slot number pp : Parts number ss : Serial number rr : Revision
BTU	Error	P 76000n00 BTU#n Fault <pp ss rr>	n : Slot number pp : Parts number ss : Serial number rr : Revision
3.5 Inch DISK	Error	P 80SSUU0N HDD 3.5 DE#UU-Disk#n(SAS xxxGB yykrpm cc) Fault <pp ss rr tt uu>	SS : Parts subtype UU : DE ID N : Slot number (hexadecimal notation) n : Slot number (decimal notation) xxx : Disk capacity yy : Disk rotation cc : Disk information pp : Parts number ss : Serial number rr : Revision tt : Date Code uu : Config Code
3.5 Inch Disk (Failed Usable)	Error	P 80SSUU0N HDD 3.5 DE#UU-Disk#n(SAS xxxGB yykrpm cc) Failed Usable <pp ss rr tt uu>	SS : Parts subtype UU : DE ID N : Slot number (hexadecimal notation) n : Slot number (decimal notation) xxx : Disk capacity yy : Disk rotation cc : Disk information pp : Parts number ss : Serial number rr : Revision tt : Date Code uu : Config Code

Target	Level	Event Display	Remarks
3.5 Inch Disk (Disk abnormal performance)	Error	P 80SSUU0N HDD 3.5 DE#UU-Disk#n(SAS xxxGB yykrpm cc) Slow Down <pp ss rr tt uu>	SS : Parts subtype UU : DE ID N : Slot number (hexadecimal notation) n : Slot number (decimal notation) xxx : Disk capacity yy : Disk rotation cc : Disk information pp : Parts number ss : Serial number rr : Revision tt : Date Code uu : Config Code
2.5 Inch DISK	Error	P 81SSUUNN HDD 2.5 DE#UU-Disk#n(SAS xxxGB yykrpm cc) Fault <pp ss rr tt uu>	SS : Parts subtype UU : DE ID N : Slot number (hexadecimal notation) n : Slot number (decimal notation) xxx : Disk capacity yy : Disk rotation cc : Disk information pp : Parts number ss : Serial number rr : Revision tt : Date Code uu : Config Code
2.5 Inch Disk (Failed Usable)	Error	P 81SSUUNN HDD 2.5 DE#UU-Disk#n(SAS xxxGB yykrpm cc) Failed Usable <pp ss rr tt uu>	SS : Parts subtype UU : DE ID N : Slot number (hexadecimal notation) n : Slot number (decimal notation) xxx : Disk capacity yy : Disk rotation cc : Disk information pp : Parts number ss : Serial number rr : Revision tt : Date Code uu : Config Code
2.5 Inch Disk (Disk abnormal performance)	Error	P 81SSUUNN HDD 2.5 DE#UU-Disk#n(SAS xxxGB yykrpm cc) Slow Down <pp ss rr tt uu>	SS : Parts subtype UU : DE ID N : Slot number (hexadecimal notation) n : Slot number (decimal notation) xxx : Disk capacity yy : Disk rotation cc : Disk information pp : Parts number ss : Serial number rr : Revision



Target	Level	Event Display	Remarks
			<i>tt</i> : Date Code <i>uu</i> : Config Code
3.5 Inch SSD	Error	P 84SSUU0N SSD 3.5 DE#UU-Slot# <i>n</i> (SAS xxxGB yykrpm cc) Fault < <i>pp ss rr tt uu</i> >	<i>SS</i> : Parts subtype <i>UU</i> : DE ID <i>N</i> : Slot number (hexadecimal notation) <i>n</i> : Slot number (decimal notation) <i>xxx</i> : Disk capacity <i>yy</i> : Disk rotation <i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision <i>tt</i> : Date Code <i>uu</i> : Config Code
3.5 Inch SSD (Failed Usable)	Error	P 84SSUU0N SSD 3.5 DE#UU-Slot# <i>n</i> (SAS xxxGB yykrpm cc) Failed Usable < <i>pp ss rr tt uu</i> >	<i>SS</i> : Parts subtype <i>UU</i> : DE ID <i>N</i> : Slot number (hexadecimal notation) <i>n</i> : Slot number (decimal notation) <i>xxx</i> : Disk capacity <i>yy</i> : Disk rotation <i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision <i>tt</i> : Date Code <i>uu</i> : Config Code
2.5 Inch SSD	Error	P 85SSUUNN SSD 2.5 DE#UU-Slot# <i>n</i> (SAS xxxGB yykrpm cc) Fault < <i>pp ss rr tt uu</i> >	<i>SS</i> : Parts subtype <i>UU</i> : DE ID <i>N</i> : Slot number (hexadecimal notation) <i>n</i> : Slot number (decimal notation) <i>xxx</i> : Disk capacity <i>yy</i> : Disk rotation <i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision <i>tt</i> : Date Code <i>uu</i> : Config Code
2.5 Inch SSD (Failed Usable)	Error	P 85SSUUNN SSD 2.5 DE#UU-Slot# <i>n</i> (SAS xxxGB yykrpm cc) Failed Usable < <i>pp ss rr tt uu</i> >	<i>SS</i> : Parts subtype <i>UU</i> : DE ID <i>N</i> : Slot number (hexadecimal notation) <i>n</i> : Slot number (decimal notation) <i>xxx</i> : Disk capacity <i>yy</i> : Disk rotation <i>cc</i> : Disk information <i>pp</i> : Parts number

Target	Level	Event Display	Remarks
			<i>ss</i> : Serial number <i>rr</i> : Revision <i>tt</i> : Date Code <i>uu</i> : Config Code
3.5 Inch DISK (Compare Error)	Error	P 88SSUU0N HDD 3.5 DE#UU-Disk#n(SAS xxxGB yykrpm cc) Fault <pp ss rr tt uu>	<i>SS</i> : Parts subtype <i>UU</i> : DE ID <i>N</i> : Slot number (hexadecimal notation) <i>n</i> : Slot number (decimal notation) <i>xxx</i> : Disk capacity <i>yy</i> : Disk rotation <i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision <i>tt</i> : Date Code <i>uu</i> : Config Code
2.5 Inch DISK (Compare Error)	Error	P 88SSUUNN HDD 2.5 DE#UU-Disk#n(SAS xxxGB yykrpm cc) Fault <pp ss rr tt uu>	<i>SS</i> : Parts subtype <i>UU</i> : DE ID <i>N</i> : Slot number (hexadecimal notation) <i>n</i> : Slot number (decimal notation) <i>xxx</i> : Disk capacity <i>yy</i> : Disk rotation <i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision <i>tt</i> : Date Code <i>uu</i> : Config Code
3.5 Inch SSD (Compare Error)	Error	P 88SSUU0N SSD 3.5 DE#UU-Slot#n(SAS xxxGB yykrpm cc) Fault <pp ss rr tt uu>	<i>SS</i> : Parts subtype <i>UU</i> : DE ID <i>N</i> : Slot number (hexadecimal notation) <i>n</i> : Slot number (decimal notation) <i>xxx</i> : Disk capacity <i>yy</i> : Disk rotation <i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision <i>tt</i> : Date Code <i>uu</i> : Config Code
2.5 Inch SSD (Compare Error)	Error	P 88SSUUNN SSD 2.5 DE#UU-Slot#n(SAS xxxGB yykrpm cc) Fault <pp ss rr tt uu>	<i>SS</i> : Parts subtype <i>UU</i> : DE ID <i>N</i> : Slot number (hexadecimal notation) <i>n</i> : Slot number (decimal notation) <i>xxx</i> : Disk capacity <i>yy</i> : Disk rotation

Target	Level	Event Display	Remarks
			<i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision <i>tt</i> : Date Code <i>uu</i> : Config Code
IOM6	Error	P 90SSUU0n IOM6 DE#UU/IOM#n Fault <pp ss rr>	<i>SS</i> : Parts subtype <i>UU</i> : DE ID <i>n</i> : EXP number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
IOM6 Port	Error	P 91SSUU0n IOM6 Port DE#UU/IOM#n/Port#p Fault <pp ss rr>	<i>SS</i> : Parts subtype <i>UU</i> : DE ID <i>n</i> : EXP number <i>p</i> : Port number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
IOM6 QSFP	Error	P 9ASSUU0n IOM6 QSFP DE#UU/IOM#n/Port#p Fault <pp ss rr>	<i>SS</i> : Parts subtype <i>UU</i> : DE ID <i>n</i> : EXP number <i>p</i> : Port number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
PSU	Error	P D2SSUU0n Power Supply Unit DE#UU/PSU#n Fault <pp ss rr>	<i>SS</i> : Parts subtype <i>UU</i> : DE ID <i>n</i> : Slot number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision

### Warning (Temperature Alarm)

Target	Level	Event Display	Remarks
CE Abnormal exhaust gas temperature (FATAL)	Error	P 7A000000 CE Exhaust temperature Fatal	
CE Abnormal exhaust gas temperature (Sensor failure)	Error	P 7A000000 CE Exhaust temperature sensor Fault	
CE Abnormal exhaust gas temperature (WARNING)	Warning	J 7A000000 CE Exhaust temperature Warning	
CE Abnormal intake temperature (Sensor failure)	Error	P 7B000000 CE Intake temperature sensor Fault	
CE Abnormal intake temperature (WARNING)	Warning	J 7B000000 CE Intake temperature Warning	

Target	Level	Event Display	Remarks
DE Abnormal exhaust gas temperature (FATAL)	Error	P DASSUU00 DE Exhaust temperature DE#UU Fatal	SS : Parts subtype UU : DE ID
DE Abnormal exhaust gas temperature (Sensor failure)	Error	P DASSUU00 DE Exhaust temperature sensor DE#UU Fault	SS : Parts subtype UU : DE ID
DE Abnormal exhaust gas temperature (WARNING)	Warning	J DASSUU00 DE Exhaust temperature DE#UU Warning	SS : Parts subtype UU : DE ID
DE Abnormal intake temperature (Sensor failure)	Error	P DBSSUU00 DE Intake temperature sensor DE#UU Fault	SS : Parts subtype UU : DE ID
DE Abnormal intake temperature (WARNING)	Warning	J DBSSUU00 DE Intake temperature DE#UU Warning	SS : Parts subtype UU : DE ID

### Warning (Expiration)

Target	Level	Event Display	Remarks
Six months before battery life expiration	Warning	J 70060n00 BATTERY#b 6MONTH WARNING YYYY/MM	n : Slot number b : BTU number YYYY/MM : Term of validity (year/month)
One week before battery life expiration	Warning	J 70070n00 BATTERY#b 1WEEK WARNING WARNING YYYY/MM	n : Slot number b : BTU number YYYY/MM : Term of validity (year/month)
N days before battery life expiration	Warning	J 70070n00 BATTERY#b NDAY WARNING WARNING YYYY/MM	n : Slot number b : BTU number N : Days YYYY/MM : Term of validity (year/month)
Battery life expiration	Error	J 70FE0n00 BATTERY#b EXPIRATION ALARM YYYY/MM	n : Slot number b : BTU number YYYY/MM : Term of validity (year/month)

### Warning (Other)

Target	Level	Event Display	Remarks
CM Warning	Warning	J 01SSMM00 Controller Module#m(zz) Warning factor(ww) <pp ss rr>	SS : Parts subtype MM : Module ID m : CM number zz : Model ww : Factor Code pp : Parts number ss : Serial number rr : Revision
CM DMA Port Warning	Warning	J 02SSMM0p Controller Module#m(zz) DMA PORT#p Warning <pp ss rr>	SS : Parts subtype MM : Module ID

Target	Level	Event Display	Remarks
			<p><i>p</i> : Port number  <i>m</i> : CM number  <i>zz</i> : Model  <i>pp</i> : Parts number  <i>ss</i> : Serial number  <i>rr</i> : Revision</p>
CM BIOS Warning	Warning	J 03SSMM0v Controller Module# <i>m</i> ( <i>zz</i> ) BIOS# <i>v</i> Warning < <i>pp ss rr</i> >	<p><i>SS</i> : Parts subtype  <i>MM</i> : Module ID  <i>v</i> : Device number  <i>m</i> : CM number  <i>zz</i> : Model  <i>pp</i> : Parts number  <i>ss</i> : Serial number  <i>rr</i> : Revision</p>
CM RTC Warning	Warning	J 04SSMM00 Controller Module# <i>m</i> ( <i>zz</i> ) RTC Warning < <i>pp ss rr</i> >	<p><i>SS</i> : Parts subtype  <i>MM</i> : Module ID  <i>m</i> : CM number  <i>zz</i> : Model  <i>pp</i> : Parts number  <i>ss</i> : Serial number  <i>rr</i> : Revision</p>
CM NVRAM Warning	Warning	J 05SSMM00 Controller Module# <i>m</i> ( <i>zz</i> ) NVRAM Warning < <i>pp ss rr</i> >	<p><i>SS</i> : Parts subtype  <i>MM</i> : Module ID  <i>m</i> : CM number  <i>zz</i> : Model  <i>pp</i> : Parts number  <i>ss</i> : Serial number  <i>rr</i> : Revision</p>
CM MMC Warning	Warning	J 0600MM00 Controller Module# <i>m</i> ( <i>zz</i> ) MMC Warning < <i>pp ss rr</i> >	<p><i>MM</i> : Module ID  <i>m</i> : CM number  <i>zz</i> : Model  <i>pp</i> : Parts number  <i>ss</i> : Serial number  <i>rr</i> : Revision</p>
CM Expander Warning	Warning	J 06SSMM0v Controller Module# <i>m</i> ( <i>zz</i> ) EXP# <i>v</i> Warning < <i>pp ss rr</i> >	<p><i>SS</i> : Parts subtype  <i>MM</i> : Module ID  <i>v</i> : Device number  <i>m</i> : CM number  <i>zz</i> : Model  <i>pp</i> : Parts number  <i>ss</i> : Serial number  <i>rr</i> : Revision</p>
CM DI PORT Warning	Warning	J 08SSMMvp Controller Module# <i>m</i> ( <i>zz</i> ) DI Port# <i>p</i> Warning < <i>pp ss rr</i> >	<p><i>SS</i> : Parts subtype  <i>MM</i> : Module ID  <i>v</i> : Device number  <i>p</i> : Port number  <i>m</i> : CM number  <i>zz</i> : Model  <i>pp</i> : Parts number  <i>ss</i> : Serial number  <i>rr</i> : Revision</p>
CM Expander In Port Warning	Warning	J 09SSMMvp Controller Module# <i>m</i> ( <i>zz</i> ) EXP# <i>v</i> In Port# <i>p</i> Warning < <i>pp ss rr</i> >	<p><i>SS</i> : Parts subtype  <i>MM</i> : Module ID</p>

Target	Level	Event Display	Remarks
			<i>v</i> : Device number <i>p</i> : Port number <i>m</i> : CM number <i>zz</i> : Model <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
CM Expander Out Port Warning	Warning	J 0ASSMM <i>vp</i> Controller Module# <i>m</i> ( <i>zz</i> ) EXP# <i>v</i> Out Port# <i>p</i> Warning < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>MM</i> : Module ID <i>v</i> : Device number <i>p</i> : Port number <i>m</i> : CM number <i>zz</i> : Model <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
CM BUD Warning	Warning	J 0CSSMM00 Controller Module# <i>m</i> ( <i>zz</i> ) BUD(# <i>xx</i> GB) Warning < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>MM</i> : Module ID <i>m</i> : CM number <i>zz</i> : Model <i>xx</i> : Capacity <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
CM FAN Warning	Warning	J 0DSSMM00 Controller Module# <i>m</i> ( <i>zz</i> ) FAN Warning < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>MM</i> : Module ID <i>m</i> : CM number <i>zz</i> : Model <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
CM NAND Controller Warning	Warning	J 0E5SMM00 Controller Module# <i>m</i> ( <i>zz</i> ) NAND Controller Warning < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>MM</i> : Module ID <i>m</i> : CM number <i>zz</i> : Model <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
CM SCU Warning	Warning	J 0F5SMM00 Controller Module# <i>m</i> ( <i>zz</i> ) SCU Warning < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>MM</i> : Module ID <i>m</i> : CM number <i>zz</i> : Model <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
CA Warning	Warning	J 10SSMM00 CA Slot# <i>n-v</i> ( <i>zz</i> ) (on CM# <i>m</i> ) Warning < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>MM</i> : Module ID <i>n</i> : Slot number <i>v</i> : Device number <i>zz</i> : Model <i>m</i> : CM number <i>pp</i> : Parts number

Target	Level	Event Display	Remarks
			<i>ss</i> : Serial number <i>rr</i> : Revision
CA Port Warning	Warning	J 11SSMM0p CA Slot# <i>n-v</i> ( <i>zz</i> ) (on CM# <i>m</i> ) Port# <i>p</i> Warning < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>MM</i> : Module ID <i>p</i> : Port number <i>n</i> : Slot number <i>v</i> : Device number <i>zz</i> : Model <i>m</i> : CM number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
CM FPGA Warning	Warning	J 21SSMM00 Controller Module# <i>m</i> ( <i>zz</i> ) FPGA Warning < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>MM</i> : Module ID <i>m</i> : CM number <i>zz</i> : Model <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
CM LAN Port Warning	Warning	J 22SSMM0p Controller Module# <i>m</i> ( <i>zz</i> ) LAN PORT# <i>p</i> Warning < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>MM</i> : Module ID <i>p</i> : Port number <i>m</i> : CM number <i>zz</i> : Model <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
CM PCH Warning	Warning	J 2300MM00 Controller Module# <i>m</i> ( <i>zz</i> ) PCH Warning < <i>pp ss rr</i> >	<i>MM</i> : Module ID <i>m</i> : CM number <i>zz</i> : Model <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
FRT Warning	Warning	J 4000MM00 FRT# <i>n</i> Warning < <i>pp ss rr</i> >	<i>MM</i> : Module ID <i>n</i> : FRT number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
BRT Warning	Warning	J 5000MM00 BRT# <i>n</i> Warning < <i>pp ss rr</i> >	<i>MM</i> : Module ID <i>n</i> : BRT number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
BRT Out Port Warning	Warning	J 5100MM0P BRT# <i>n</i> Out Port# <i>P</i> Warning < <i>pp ss rr</i> >	<i>MM</i> : Module ID <i>n</i> : BRT number <i>P</i> : Port number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
BRT In Port Warning	Warning	J 5200MMvP BRT# <i>n</i> In Port# <i>P</i> Warning < <i>pp ss rr</i> >	<i>MM</i> : Module ID <i>v</i> : EXP number <i>n</i> : BRT number

Target	Level	Event Display	Remarks
			<i>P</i> : Port number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
BRT EXP Warning	Warning	J 5300MM0v BRT# <i>n</i> EXP# <i>v</i> Warning < <i>pp ss rr</i> >	<i>MM</i> : Module ID <i>v</i> : EXP number <i>n</i> : BRT number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
BRT QSFP Warning	Warning	J 5A00MM0P BRT# <i>n</i> QSFP# <i>P</i> Warning < <i>pp ss rr</i> >	<i>MM</i> : Module ID <i>n</i> : BRT number <i>P</i> : Port number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
SVC Warning	Warning	J 6000MM00 SVC# <i>n</i> Warning < <i>pp ss rr</i> >	<i>MM</i> : Module ID <i>n</i> : SVC number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
CE FAN UNIT	Warning	J 71000n00 CE FAN UNIT# <i>n</i> Warning < <i>pp ss rr</i> >	<i>n</i> : Slot number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
PANEL UNIT	Warning	J 72000000 PANEL UNIT Warning < <i>pp ss rr</i> >	<i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
CPSU Warning	Warning	J 73000n00 Power Supply Unit/CPSU# <i>n</i> Warning < <i>pp ss rr</i> >	<i>n</i> : Slot number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
BBU Warning	Warning	J 75000n00 BBU# <i>n</i> Warning < <i>pp ss rr</i> >	<i>n</i> : Slot number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
BCU Warning	Warning	J 75000n00 BCU# <i>n</i> Warning < <i>pp ss rr</i> >	<i>n</i> : Slot number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
BTU Warning	Warning	J 76000n00 BTU# <i>n</i> Warning < <i>pp ss rr</i> >	<i>n</i> : Slot number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
SMART notice from Disk (3.5inch)	Warning	J 80SSUU0N HDD 3.5 DE# <i>UU</i> -Disk# <i>n</i> (SAS xxxGB yykrpm cc) SMART < <i>pp ss rr tt uu</i> >	<i>SS</i> : Parts subtype <i>UU</i> : DE ID <i>N</i> : Slot number (hexadecimal notation) <i>n</i> : Slot number (decimal notation) <i>xxx</i> : Disk capacity



Target	Level	Event Display	Remarks
			<i>yy</i> : Disk rotation <i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision <i>tt</i> : Date Code <i>uu</i> : Config Code
Disk preventative separation SMART (3.5inch)	Warning	J 80SSUU0N HDD 3.5 DE#UU-Disk#n(SAS xxxGB yykrpm cc) Warning <pp ss rr tt uu>	<i>SS</i> : Parts subtype <i>UU</i> : DE ID <i>N</i> : Slot number (hexadecimal notation) <i>n</i> : Slot number (decimal notation) <i>xxx</i> : Disk capacity <i>yy</i> : Disk rotation <i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision <i>tt</i> : Date Code <i>uu</i> : Config Code
Disk abnormal performance SMART (3.5inch)	Warning	J 80SSUU0N HDD 3.5 DE#UU-Disk#n(SAS xxxGB yykrpm cc) WarnSlow <pp ss rr tt uu>	<i>SS</i> : Parts subtype <i>UU</i> : DE ID <i>N</i> : Slot number (hexadecimal notation) <i>n</i> : Slot number (decimal notation) <i>xxx</i> : Disk capacity <i>yy</i> : Disk rotation <i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision <i>tt</i> : Date Code <i>uu</i> : Config Code
Disk abnormal performance notice (3.5inch)	Warning	J 80SSUU0N HDD 3.5 DE#UU-Disk#n(SAS xxxGB yykrpm cc) SlowDown <pp ss rr tt uu>	<i>SS</i> : Parts subtype <i>UU</i> : DE ID <i>N</i> : Slot number (hexadecimal notation) <i>n</i> : Slot number (decimal notation) <i>xxx</i> : Disk capacity <i>yy</i> : Disk rotation <i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision <i>tt</i> : Date Code <i>uu</i> : Config Code
SMART notice from Disk (2.5inch)	Warning	J 81SSUUNN HDD 2.5 DE#UU-Disk#n(SAS xxxGB yykrpm cc) SMART <pp ss rr tt uu>	<i>SS</i> : Parts subtype <i>UU</i> : DE ID <i>N</i> : Slot number (hexadecimal notation) <i>n</i> : Slot number (decimal

Target	Level	Event Display	Remarks
			notation) xxx : Disk capacity yy : Disk rotation cc : Disk information pp : Parts number ss : Serial number rr : Revision tt : Date Code uu : Config Code
Disk preventative separation SMART (2.5inch)	Warning	J 81SSUUNN HDD 2.5 DE#UU-Disk#n(SAS xxxGB yykrpm cc) Warning <pp ss rr tt uu>	SS : Parts subtype UU : DE ID N : Slot number (hexadecimal notation) n : Slot number (decimal notation) xxx : Disk capacity yy : Disk rotation cc : Disk information pp : Parts number ss : Serial number rr : Revision tt : Date Code uu : Config Code
Disk abnormal performance SMART (2.5inch)	Warning	J 81SSUUNN HDD 2.5 DE#UU-Disk#n(SAS xxxGB yykrpm cc) WarnSlow <pp ss rr tt uu>	SS : Parts subtype UU : DE ID N : Slot number (hexadecimal notation) n : Slot number (decimal notation) xxx : Disk capacity yy : Disk rotation cc : Disk information pp : Parts number ss : Serial number rr : Revision tt : Date Code uu : Config Code
Disk abnormal performance notice (2.5inch)	Warning	J 81SSUUNN HDD 2.5 DE#UU-Disk#n(SAS xxxGB yykrpm cc) SlowDown <pp ss rr tt uu>	SS : Parts subtype UU : DE ID N : Slot number (hexadecimal notation) n : Slot number (decimal notation) xxx : Disk capacity yy : Disk rotation cc : Disk information pp : Parts number ss : Serial number rr : Revision tt : Date Code uu : Config Code
SMART notice from SSD (3.5inch)	Warning	J 84SSUU0NSSD 3.5 DE#UU-Slot#n(SAS xxxGB yykrpm cc) SMART <pp ss rr tt uu>	SS : Parts subtype UU : DE ID N : Slot number (hexadecimal

Target	Level	Event Display	Remarks
			notation) <i>n</i> : Slot number (decimal notation) <i>xxx</i> : Disk capacity <i>yy</i> : Disk rotation <i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision <i>tt</i> : Date Code <i>uu</i> : Config Code
SSD preventative separation SMART (3.5inch)	Warning	J 84SSUUON SSD 3.5 DE#UU-Slot# <i>n</i> (SAS <i>xxx</i> GB <i>yy</i> krpm <i>cc</i> ) Warning < <i>pp ss rr tt uu</i> >	<i>SS</i> : Parts subtype <i>UU</i> : DE ID <i>N</i> : Slot number (hexadecimal notation) <i>n</i> : Slot number (decimal notation) <i>xxx</i> : Disk capacity <i>yy</i> : Disk rotation <i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision <i>tt</i> : Date Code <i>uu</i> : Config Code
SMART notice from SSD (2.5inch)	Warning	J 85SSUUNN SSD 2.5 DE#UU-Slot# <i>n</i> (SAS <i>xxx</i> GB <i>yy</i> krpm <i>cc</i> ) SMART < <i>pp ss rr tt uu</i> >	<i>SS</i> : Parts subtype <i>UU</i> : DE ID <i>N</i> : Slot number (hexadecimal notation) <i>n</i> : Slot number (decimal notation) <i>xxx</i> : Disk capacity <i>yy</i> : Disk rotation <i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision <i>tt</i> : Date Code <i>uu</i> : Config Code
SSD preventative separation SMART (2.5inch)	Warning	J 85SSUUNN SSD 2.5 DE#UU-Slot# <i>n</i> (SAS <i>xxx</i> GB <i>yy</i> krpm <i>cc</i> ) Warning < <i>pp ss rr tt uu</i> >	<i>SS</i> : Parts subtype <i>UU</i> : DE ID <i>N</i> : Slot number (hexadecimal notation) <i>n</i> : Slot number (decimal notation) <i>xxx</i> : Disk capacity <i>yy</i> : Disk rotation <i>cc</i> : Disk information <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision <i>tt</i> : Date Code <i>uu</i> : Config Code

Target	Level	Event Display	Remarks
IOM6 Warning	Warning	J 90SSUU0n IOM6 DE#UU/IOM#n Warning <pp ss rr>	SS : Parts subtype UU : DE ID n : EXP number pp : Parts number ss : Serial number rr : Revision
IOM6 Port Warning	Warning	J 91SSUU0p IOM6 Port DE#UU/IOM#n/Port#p Warning <pp ss rr>	SS : Parts subtype UU : DE ID n : EXP number p : Port number pp : Parts number ss : Serial number rr : Revision
IOM6 QSFP Warning	Warning	J 9ASSUU0p IOM6 QSFP DE#UU/IOM#n/Port#p Warning <pp ss rr>	SS : Parts subtype UU : DE ID n : EXP number p : Port number pp : Parts number ss : Serial number rr : Revision
IOM6 Check1	Warning	J C190UU0p IOM6 DE#UU/IOM#n Reboot <pp ss rr>	UU : DE ID n : EXP number p : Port number pp : Parts number ss : Serial number rr : Revision
CM Check1	Warning	J C1MM0000 Controller Module#m(zz) Reboot <pp ss rr>	MM : Module ID m : CM number zz : Model pp : Parts number ss : Serial number rr : Revision
CA Check1	Warning	J C1MM0000 CA Slot#n-v(zz) (on CM#m) Reboot <pp ss rr>	MM : Module ID n : Slot number v : Device number zz : Model m : CM number pp : Parts number ss : Serial number rr : Revision
BRT Check1	Warning	J C1MM0000 BRT#n Reboot <pp ss rr>	MM : Module ID n : BRT number pp : Parts number ss : Serial number rr : Revision
Multiple memory collectable error	Warning	J C3SSMM00 Controller Module#m(zz) Cache(MEM #xGB) Slot#nn Correctable Error <pp ss rr>	SS : Parts subtype MM : Module ID m : CM number zz : Model x : Capacity pp : Parts number

Target	Level	Event Display	Remarks
			<i>ss</i> : Serial number <i>rr</i> : Revision
PSU Warning	Warning	J D2SSUU0n Power Supply Unit DE#UU/PSU#n Warning < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>UU</i> : DE ID <i>n</i> : Slot number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision

## RAID Recovery Notification

Target	Level	Event Display	Remarks
Start failure of rebuild to HS (non HS)	Error	M A0110xxx RAID Group#0xxx start failure of Rebuild processing	xxx : RAID group number
Start of rebuild to HS	Error	MA0410xxx RAID Group#0xxx start procedure of Rebuild processing	xxx : RAID group number
End of rebuild to HS	Error	M A0810xxx RAID Group#0xxx normal end of Rebuild processing	xxx : RAID group number
Abnormal end of rebuild to HS (source disk problem)	Error	M A0A10xxx RAID Group#0xxx abnormal end of Rebuild processing because of source disk problem	xxx : RAID group number
Abnormal end of rebuild to HS	Error	M A0B10xxx RAID Group#0xxx abnormal end of Rebuild processing	xxx : RAID group number
Retry of rebuild to HS	Error	MA0C10xxx RAID Group#0xxx retry procedure of Rebuild processing	xxx : RAID group number
Start of rebuild to DV	Error	MA1410xxx RAID Group#0xxx start procedure of Rebuild processing	xxx : RAID group number
End of rebuild to DV	Error	M A1810xxx RAID Group#0xxx normal end of Rebuild processing	xxx : RAID group number
Abnormal end of rebuild to DV (source disk problem)	Error	M A1A10xxx RAID Group#0xxx abnormal end of Rebuild processing because of source disk problem	xxx : RAID group number
Abnormal end of rebuild to DV	Error	M A1B10xxx RAID Group#0xxx abnormal end of Rebuild processing	xxx : RAID group number
Retry of rebuild to DV	Error	MA1C10xxx RAID Group#0xxx retry procedure of Rebuild processing	xxx : RAID group number
Start of Copyback	Error	MA3420xxx RAID Group#0xxx start procedure of Copyback processing	xxx : RAID group number
End of Copyback	Error	M A3820xxx RAID Group#0xxx normal end of Copyback processing	xxx : RAID group number
Abnormal end of Copyback (source disk problem)	Error	M A3A20xxx RAID Group#0xxx abnormal end of Copyback processing because of source disk problem	xxx : RAID group number
Abnormal end of Copyback	Error	M A3B20xxx RAID Group#0xxx abnormal end of Copyback processing	xxx : RAID group number
Retry of Copyback	Error	MA3C20xxx RAID Group#0xxx retry procedure of Copyback processing	xxx : RAID group number

Target	Level	Event Display	Remarks
Start failure of Redundant Copy (non HS)	Error	M A4130xxx RAID Group#0xxx start failure of Redundant Copy processing	xxx : RAID group number
Start of Redundant Copy	Error	MA4430xxx RAID Group#0xxx start procedure of Redundant Copy processing	xxx : RAID group number
End of Redundant Copy (Disk)	Error	P 21830xxx Disk Drive DE#uu-Disk#nn(SAS xxGB yykrpm cc) Redundant Copy end <pp ss rr>	xxx : RAID group number UU : DE ID nn : Slot number xx : Disk capacity yy : Disk rotation cc : Disk information pp : Parts number ss : Serial number rr : Revision
End of Redundant Copy (SSD 3.5inch)	Error	P 21830xxx SSD 3.5 DE#uu-Slot#nn(SAS xxGB cc) Redundant Copy end <pp ss rr>	xxx : RAID group number UU : DE ID nn : Slot number xx : Disk capacity cc : Disk information pp : Parts number ss : Serial number rr : Revision
End of Redundant Copy (SSD 2.5inch)	Error	P 21830xxx SSD 2.5 DE#uu-Slot#nn(SAS xxGB cc) Redundant Copy end <pp ss rr>	xxx : RAID group number UU : DE ID nn : Slot number xx : Disk capacity cc : Disk information pp : Parts number ss : Serial number rr : Revision
Abnormal end of Redundant Copy (source disk problem)	Error	M A4A30xxx RAID Group#0xxx abnormal end of Redundant Copy processing because of source disk problem	xxx : RAID group number
Abnormal end of Redundant Copy	Error	M A4B30xxx RAID Group#0xxx abnormal end of Redundant Copy processing	xxx : RAID group number
Retry of Redundant Copy	Error	MA4C30xxx RAID Group#0xxx retry procedure of Redundant Copy processing	xxx : RAID group number

### Event Notification (M Messages)

Target	Level	Event Display	Remarks
Write Bad Data	Error	M E0050xxx WRITE BAD DATA	xxx : RLU number
PINNED Data (Occurred)	Error	M E10300MM PINNED DATA was created CM#m-CPU#v	MM : CM Module ID where PINNED occurred m : CM number v : CM CPU number
PINNED Data (Cleared)	Error	M E1FF00MM PINNED DATA was cleared CM#m-CPU#v	MM : CM Module ID where PINNED cleared m : CM number v : CM CPU number

Target	Level	Event Display	Remarks
NRDY (Factor 01)	Error	M E2070001 NOT READY(01:Configuration Error)	
NRDY (Factor 02)	Error	M E2070002 NOT READY(02:CM F/W Version Error)	
NRDY (Factor 04)	Error	M E2070004 NOT READY(04:Restore Fail)	
NRDY (Factor 11)	Error	M E207000B NOT READY(11:Power Off/Fail Incomplete)	
NRDY (Factor 12)	Error	M E207000C NOT READY(12:Backup Fail)	
NRDY (Factor 13)	Error	M E207000D NOT READY(13:Multi CM Down)	
NRDY (Factor 14)	Error	M E207000E NOT READY(14:Machine Down Recovery End)	
NRDY (Factor 15)	Error	M E207000F NOT READY(15:Machine Down Recovery Failed)	
NRDY (Factor 16)	Error	M E2070010 NOT READY(16:DE Build Error)	
NRDY (Factor 17)	Error	M E2070011 NOT READY(17:CM Memory Shortage)	
NRDY (Factor 19)	Error	M E2070013 NOT READY(19:FRT Fault)	
NRDY (Factor 20)	Error	M E2070014 NOT READY(20:BRT Fault)	
NRDY (Factor 21)	Error	M E2070015 NOT READY(21:Auto CFD)	
NRDY (Factor 22)	Error	M E2070016 NOT READY(22:No Version)	
NRDY (Factor 23)	Error	M E2070017 NOT READY(23:AC Input Shortage)	
NRDY (Factor 24)	Error	M E2070018 NOT READY(24:Configuration Data restored from System Disk)	
NRDY (Factor 25)	Error	M E2070019 NOT READY(25:BUD Capacity Shortage)	
NRDY (Factor 26)	Error	M E207001A NOT READY(26:TPV Table Restore Fail from System Area)	
NRDY (Factor 27)	Error	M E207001B NOT READY(27:TPV Table Restore Fail to BUD)	
End of rebuild to HS (Bad Data)	Error	M 21810xxx RAID Group#0xxx recovered end of Rebuild processing	xxx : RLU number
End of rebuild to DV (Bad Data)	Error	M 21810xxx RAID Group#0xxx recovered end of Rebuild processing	xxx : RLU number
Disconnected intra-cabinet path	Error	M 0732MMpp Remote Copy Path (CM#xx CA#yy PORT#pp) Not Available	MM : Module ID pp : Port number xx : CM number yy : CA Slot number
REC automatic HALT occurrence	Error	M 13CF11xx REC Buffer HALT occurred.(xx)	xx : 00 is path error, 01 heavy load, 02 ERROR
Use capacity of Pool has changed. NORMAL -> CAUTION	Warning	M E8010xxx TPP#xxx turned to CAUTION(decrease of available capacity)	xxx : Thin Provisioning Pool number (hexadecimal notation)

Target	Level	Event Display	Remarks
Use capacity of Pool has changed. NORMAL or CAUTION -> WARNING	Warning	M E8020xxx TPP#xxx turned to WARNING(decrease of available capacity)	xxx : Thin Provisioning Pool number (hexadecimal notation)
Lack of pool capacity	Error	M E8050xxx TPP#xxx was all allocated	xxx : Thin Provisioning Pool number (hexadecimal notation)
Use capacity of Ftier Pool has changed. NORMAL -> CAUTION	Warning	M E8070xxx FTRP#xxx turned to CAUTION(decrease of available capacity)	xxx : FTRP number (hexadecimal notation)
Use capacity of Ftier Pool has changed. NORMAL or CAUTION -> WARNING	Warning	M E8080xxx FTRP#xxx turned to WARNING(decrease of available capacity)	xxx : FTRP number (hexadecimal notation)
Lack of Ftier pool capacity	Error	M E8090xxx FTRP#xxx was all allocated	xxx : FTRP number (hexadecimal notation)
Copy session [Active -> Error]	Error	M 13CE0001 Error session was detected. (Local:xxxxx Remote:xxxxx)	xxxxx : Number of copy sessions that status is Error
Copy session [Suspend -> Error]	Error	M 13CE0002 Foreseen error session was detected. (Local:xxxxx Remote:xxxxx)	xxxxx : Number of copy sessions that status changed from Suspend to Error
Copy session [Active -> Halt]	Error	M 13CE0003 Halt session was detected. (Remote:xxxxx)	xxxxx : Number of copy sessions that status is Halt
Copy session [Error -> Idle]	Error	M 13CE0004 Error session was cleared.	
Copy session [Suspend -> Error -> Idle]	Error	M 13CE0005 Foreseen error session was cleared.	
Copy session [Halt -> Active]	Error	M 13CE0006 Halt session was cleared.	
Key Management Server communication Error	Error	M E928xyyy Key Management Server communication Error (Key Server ID #xx)(Key Group ID#yy)	xx : Key server ID yy : Key group ID

## Recovery Notification

Target	Level	Event Display	Remarks
CM Warning recovery	Information	R 01SSMM00 Controller Module#m(zz) Normal <pp ss rr>	SS : Parts subtype UU : Module ID m : CM number zz : Model pp : Parts number ss : Serial number rr : Revision
CM Expander Warning recovery	Information	R 01SSMM0v Controller Module#m(zz) EXP#v Normal <pp ss rr>	SS : Parts subtype UU : Module ID v : Device number m : CM number zz : Model pp : Parts number



Target	Level	Event Display	Remarks
			<i>ss</i> : Serial number <i>rr</i> : Revision
IOM6 Warning recovery	Information	R 90SSUU0n IOM6 DE#UU/IOM#n Normal < <i>pp</i> <i>ss rr</i> >	<i>SS</i> : Parts subtype <i>UU</i> : DE ID <i>n</i> : EXP number <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
CPSU Alarm recovery (AC-Fail clear)	Information	R 73000n00 Power Supply Unit/CPSU#n Normal < <i>pp ss rr</i> >	<i>N</i> : Side 0, side 1 <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
PSU Alarm recovery (AC-Fail clear)	Information	R D2SSUU0n Power Supply Unit DE#UU/PSU#n Normal < <i>pp ss rr</i> >	<i>SS</i> : Parts subtype <i>UU</i> : DE ID <i>N</i> : Side 0, side 1 <i>pp</i> : Parts number <i>ss</i> : Serial number <i>rr</i> : Revision
CE exhaust temperature alarm recovery	Information	R 7A000000 CE Exhaust temperature Normal	
CE intake air temperature alarm recovery	Information	R 7B000000 CE Intake temperature Normal	
DE exhaust temperature alarm recovery	Information	R DASSUU00 DE Exhaust temperature DE#UU Normal	<i>SS</i> : Parts subtype <i>UU</i> : DE ID
DE intake air temperature alarm recovery	Information	R DBSSUU00 DE Intake temperature DE#UU Normal	<i>SS</i> : Parts subtype <i>UU</i> : DE ID

#### CA Port Link Status Notification

Target	Level	Event Display	Remarks
CA port link status	Information	I 03000001 The status of Link became \$a in CM#\$b CA#\$c Port#\$d.	<i>\$a</i> : Link Status (LinkUp, LinkDown) <i>\$b</i> : CM number (0 - 7) <i>\$c</i> : CA number (0 - 3) <i>\$d</i> : Port number (0 - 3)

## 4.4 ETERNUS DX S3 series

Event traps are messages reported from a device. If you have any questions about the message contents, refer to the relevant hardware manual to take corrective actions.

Express and Storage Cruiser receive event traps that are described in the hardware manual.

#### Specific Trap (Extended Trap)

Trap Number	Explanation	Remarks
2	This Trap is sent to notify that a component has failed or has been degraded.	
3	This Trap is sent to notify that a battery life has expired.	
5	This Trap is sent to notify that a component requires preventive maintenance.	

Trap Number	Explanation	Remarks
6	This Trap is sent to notify that a temperature error has been detected.	
7	This Trap is sent to notify that an event requires maintenance or preventive maintenance.	
10	This trap is sent to notify that the link status of a CA port has been changed.	
11	This Trap is sent to notify the Error level events related to Storage Cluster.	
12	This Trap is sent to notify the Information level events related to Storage Cluster.	
13	This Trap is sent to notify the Information level events related to Deduplication/Compression.	The same message may be notified several times from one device.
14	This Trap is sent to notify the Error level events related to Automated Storage Tiering.	
15	This Trap is sent to notify the Information level events related to Automated Storage Tiering.	
22	This Trap is sent to notify that an event notified by Trap number 2 has returned to normal state.	
25	This Trap is sent to notify that an event notified by Trap number 5 has returned to normal state.	
26	This Trap is sent to notify that an event notified by Trap number 6 has returned to normal state.	
50	This Trap is sent to notify the Error level events.	
51	This Trap is sent to notify the Warning level events.	
60	This Trap is sent to notify that a resource exceeds its quota warning value.	
61	This Trap is sent to notify that a resource has reached its quota limit value.	
62	This Trap is sent to notify that a resource no longer exceeds its quota warning value.	
63	This Trap is sent to notify that a NAS volume snapshot has been successfully acquired.	

To change the event traps to be received, refer to "SNMP Trap XML Definition File" in the *ETERNUS SF Storage Cruiser Operation Guide* to modify the SNMP Trap XML definition file.

## 4.5 ETERNUS AF series, ETERNUS DX200F

Event traps are messages reported from a device. If you have any questions about the message contents, refer to the relevant hardware manual to take corrective actions.

Express and Storage Cruiser receive event traps that are described in the hardware manual.

### Specific Trap (Extended Trap)

Trap Number	Explanation	Remarks
2	This Trap is sent to notify that a component has failed or has been degraded.	
3	This Trap is sent to notify that a battery life has expired.	
5	This Trap is sent to notify that a component requires preventive maintenance.	

Trap Number	Explanation	Remarks
6	This Trap is sent to notify that a temperature error has been detected.	
7	This Trap is sent to notify that an event requires maintenance or preventive maintenance.	
10	This trap is sent to notify that the link status of a CA port has been changed.	
11	This Trap is sent to notify the Error level events related to Storage Cluster.	
12	This Trap is sent to notify the Information level events related to Storage Cluster.	
13	This Trap is sent to notify the Information level events related to Deduplication/Compression.	The same message may be notified several times from one device.
14	This Trap is sent to notify the Error level events related to Automated Storage Tiering.	ETERNUS AF series only.
15	This Trap is sent to notify the Information level events related to Automated Storage Tiering.	ETERNUS AF series only.
22	This Trap is sent to notify that an event notified by Trap number 2 has returned to normal state.	
25	This Trap is sent to notify that an event notified by Trap number 5 has returned to normal state.	
26	This Trap is sent to notify that an event notified by Trap number 6 has returned to normal state.	
50	This Trap is sent to notify the Error level events.	
51	This Trap is sent to notify the Warning level events.	

To change the event traps to be received, refer to "SNMP Trap XML Definition File" in the *ETERNUS SF Storage Cruiser Operation Guide* to modify the SNMP Trap XML definition file.

## 4.6 ETERNUS VS850

Event traps are messages reported from a device. Refer to the relevant hardware manual for information on events to take appropriate action.

Level	Event Display	Failure Event
Information	ErrorCode=\$1, ErrorID=\$2, Node=\$3, FRU=\$4, Msg=\$5	A warning event has occurred.
Warning	ErrorCode=\$1, ErrorID=\$2, Node=\$3, FRU=\$4, Msg=\$5	A warning event has occurred.
Error	ErrorCode=\$1, ErrorID=\$2, Node=\$3, FRU=\$4, Msg=\$5	An error event has occurred.

The information shown in the table below is displayed in the event message for \$n.

\$n	Information
\$1	Error code
\$2	Error ID
\$3	Node number identified by the event notification
\$4	FRU information identified by the event notification
\$5	Message

When the event trap does not contain any corresponding information, "None" is displayed for \$n.  
 If there is no need for device maintenance and the notification does not indicate a device error, "None" is displayed for \$1.  
 When the notification is for the clustered system overall and does not depend on a specific node, "None" is displayed for \$3.

 **Note**

In the default setting, Information level messages are not displayed. To display Information level messages, refer to "SNMP Trap XML Definition File" in the *ETERNUS SF Storage Cruiser Operation Guide* to change the Information level setting.

## 4.7 NetApp FAS Series, FAS Series (with clustered Data ONTAP), V-Series, and V-Series (with clustered Data ONTAP)

Event traps are messages reported from a device. If you have any questions about the message contents, refer to the relevant hardware manual to take corrective actions.

Depending on the event level, the corresponding icon may turn red (**Error**) or yellow (**Warning**).  
 (In case of the level "Information", the icon color is not changed.)

 **Information**

The message contents may differ depending on the Data ONTAP(R) version and the event.

Failure Event	Level	Event Display
User definition error	Information	The device trap message is output as is.
DHM Disk Degrade-I/O	Warning	The device trap message is output as is.
DHM Disk Predictive Failure	Warning	The device trap message is output as is.
User definition (urgent)	Error	The device trap message is output as is. Display example is as follows: userDefined == 20670538 priority == informational
User definition (caution)	Error	The device trap message is output as is. Display example is as follows: userDefined == 20670538 priority == informational
User definition (important)	Error	The device trap message is output as is. Display example is as follows: userDefined == 20670538 priority == informational
User definition (error)	Error	The device trap message is output as is. Display example is as follows: userDefined == 20670538 priority == informational
User definition (warning)	Warning	The device trap message is output as is. Display example is as follows: userDefined == 20670538 priority == informational
User definition (notice)	Information	The device trap message is output as is. Display example is as follows: userDefined == 20670538 priority == informational
User definition (information)	Information	The device trap message is output as is. Display example is as follows: userDefined == 20670538 priority == informational
User definition (debug)	Information	The device trap message is output as is. Display example is as follows: userDefined == 20670538 priority == informational

Failure Event	Level	Event Display
Shutdown because of an exceeded time limit in degrade mode	Error	The device trap message is output as is. Display example is as follows: data disk in RAID group /voll/plex0/rg0 is broken. Halting system now.
Disk failure	Error	The device trap message is output as is. Display example is as follows: data disk in RAID group /voll/plex0/rg0 is broken.
Disk recovery	Information	The device trap message is output as is.
Shutdown because of a fan failure	Error	The device trap message is output as is. Display example is as follows: Multiple chassis fan enclosures have failed: Fans 1/2 Fans 3/4
Fan failure	Error	The device trap message is output as is.
Fan failure (warning)	Warning	The device trap message is output as is. Display example is as follows: Fans 1/2 are bad or missing; Replace quickly
Fan recovery	Information	The device trap message is output as is. Display example is as follows: Backplane_Fan_5 spinning at or above normal speed
Shutdown because of a power supply failure	Error	The device trap message is output as is.
Power supply failure	Error	The device trap message is output as is. Display example is as follows: Power supply is in degraded mode: Power Supply #1 is off
Power supply failure (warning)	Warning	The device trap message is output as is. Display example is as follows: Power supply 2 is powered off
Power supply recovery	Information	The device trap message is output as is. Display example is as follows: Power supply 1 is powered on
CPU usage rate warning	Warning	The device trap message is output as is.
CPU usage rate recovery	Information	The device trap message is output as is.
NVRAM battery completely discharged	Error	The device trap message is output as is.
NVRAM battery power low	Warning	The device trap message is output as is.
Cluster node error	Error	The device trap message is output as is. Display example is as follows: Cluster monitor: takeover started
Cluster node takeover	Information	The device trap message is output as is. Display example is as follows: Cluster monitor: takeover completed
Cluster recovery notification	Information	The device trap message is output as is. Display example is as follows: Cluster monitor: giveback completed
Volume usage rate warning (98%)	Warning	The device trap message is output as is. Display example is as follows: /vol/voll is full (using or reserving 98% of space and 0% of inodes).

Failure Event	Level	Event Display
Volume usage rate warning (95%)	Warning	The device trap message is output as is. Display example is as follows:  /vol/voll is nearly full (using or reserving 95% of space and 0% of inodes).
Volume usage rate recovery	Information	The device trap message is output as is. Display example is as follows:  No volumes are full or nearly full.
Shutdown because of a system temperature error	Error	The device trap message is output as is.
System temperature warning	Warning	The device trap message is output as is.
System temperature recovery	Information	The device trap message is output as is.
Shelf failure	Error	The device trap message is output as is. Display example is as follows:  Fault reported on disk storage shelf attached to slot 8. Please check fans, power and temperature.
Shelf recovery	Information	The device trap message is output as is. Display example is as follows:  Fault previously reported on disk storage shelf attached to channel 7 has been corrected.
Shutdown because the global status is NonRecoverable	Error	The device trap message is output as is.
global Status Critical	Error	The device trap message is output as is. Display example is as follows:  Disk shelf fault.
global Status NonCritical	Warning	The device trap message is output as is. Display example is as follows:  Disk on adapter 8, shelf 1, bay 1, failed.
Global status normal	Information	The device trap message is output as is. Display example is as follows:  The system's global status is normal.
"soft Quota" threshold exceeded	Warning	The device trap message is output as is. Display example is as follows:  Threshold exceeded for user 1008, tree 0 on volume voll
"soft Quota" normal	Information	The device trap message is output as is. Display example is as follows:  Soft block limit returned to normal for user 1008, tree 0 on volume voll
autosupport transfer error	Warning	The device trap message is output as is. Display example is as follows:  Autosupport mail was not sent because the system cannot reach any of the mail hosts from the autosupport.mailhost option
autosupport configuration definition error	Warning	The device trap message is output as is. Display example is as follows:  Autosupport cannot connect to host lavender (Unknown mhost)
autosupport transmission	Information	The device trap message is output as is. Display example is as follows:  System Notification mail sent
UPS power being supplied	Warning	The device trap message is output as is. Display example is as follows:

Failure Event	Level	Event Display
		Input power to UPS at 192.168.1.10 has failed.
There is a state of emergency because the UPS power has almost reached a state of discharge	Warning	The device trap message is output as is.
Shutdown due to a fully discharged UPS	Error	The device trap message is output as is. Display example is as follows: The time left on battery is marginal for UPS at 192.168.1.10.
Low UPS power warning	Warning	The device trap message is output as is.
UPS power recovery	Information	The device trap message is output as is. Display example is as follows: Input power to UPS at 192.168.1.10 has been restored.
AppEmergency trap	Error	The device trap message is output as is.
AppAlert trap	Error	The device trap message is output as is.
AppCritical trap	Error	The device trap message is output as is.
AppError trap	Error	The device trap message is output as is.
AppWarning trap	Warning	The device trap message is output as is.
AppNotice trap	Information	The device trap message is output as is.
AppInfo trap	Information	The device trap message is output as is.
AppTrap trap	Information	The device trap message is output as is.
Audit log wrap enabled	Information	The device trap message is output as is.
Saving to audit log	Information	The device trap message is output as is.
Audit log nearly full	Information	The device trap message is output as is.
Quota limit exceeded	Warning	The device trap message is output as is. Display example is as follows: Quota Event: status=exceeded, type=threshold, volume=vol1, limit_item=disk, limit_value=1024, user=65534, treeid=0
Recovery from the "quota limit exceeded" status	Information	The device trap message is output as is. Display example is as follows: Quota Event: status=normal, type=soft, volume=vol1, limit_item=disk limit_value=2048, user=65534, treeid=0
Directory size limit reached	Error	The device trap message is output as is.
ECC correctable error	Error	The device trap message is output as is.
Multiple ECC correctable errors	Warning	The device trap message is output as is.
FTP daemon error	Warning	The device trap message is output as is.
Maximum number of connections reached	Information	The device trap message is output as is.
Maximum number of connections nearly reached	Information	The device trap message is output as is.
FCP linkDown	Error	The device trap message is output as is.
FCP partner path definition error	Error	The device trap message is output as is.
Slot-limit-related event	Information	The device trap message is output as is.

Failure Event	Level	Event Display
Primary interface failure	Warning	The device trap message is output as is. Display example is as follows: vif1 has failed over to the Backup interface e7a received trap from [192.168.1.10].
Failure of all interfaces	Error	The device trap message is output as is. Display example is as follows: All links for vif1 have failed
vfiler stop	Information	The device trap message is output as is.
vfiler start	Information	The device trap message is output as is.
Virus detected	Error	The device trap message is output as is.
vscan server disconnected	Warning	The device trap message is output as is.
vscan setting changed	Information	The device trap message is output as is.
vscan server connection	Information	The device trap message is output as is.
vscan server upgraded	Information	The device trap message is output as is.
Media error occurrence during reconstruction (wafiron failure)	Error	The device trap message is output as is.
No matching volume	Error	The device trap message is output as is.
Volume status changed (offline or restricted)	Information	The device trap message is output as is.
Volume online	Information	The device trap message is output as is.
RMC card replacement required	Error	The device trap message is output as is.
RMC card cable connection error	Error	The device trap message is output as is.
Remote volume connection failed	Warning	The device trap message is output as is.
Remote volume connection restored	Information	The device trap message is output as is.
Remote volume recovery complete	Information	The device trap message is output as is.
Remote volume recovery started	Information	The device trap message is output as is.
Root volume conflict	Error	The device trap message is output as is.
Physical volume size limit exceeded	Error	The device trap message is output as is.
Volume offline	Information	The device trap message is output as is.
Volume made restricted	Information	The device trap message is output as is.
waf_l_check execution required because of degraded volume and dirty parity	Error	The device trap message is output as is.
Volume error resulting in inability to place the volume online	Warning	The device trap message is output as is.
Synchronous SnapMirror error (transition to asynchronous mode)	Warning	The device trap message is output as is.
Return to synchronous SnapMirror mode	Information	The device trap message is output as is.
Shutdown due to abnormal controller temperature	Error	The device trap message is output as is.
Abnormal controller temperature	Error	The device trap message is output as is.



Failure Event	Level	Event Display
Unknown controller temperature	Warning	The device trap message is output as is.
Normal controller temperature	Information	The device trap message is output as is.
Controller CPU fan stopped	Error	The device trap message is output as is.
Controller CPU fan operating at a low speed	Warning	The device trap message is output as is.
Controller CPU fan normal	Information	The device trap message is output as is.
Multiple redundant controller power supplies failed	Error	The device trap message is output as is.
Redundant controller power supply degraded	Error	The device trap message is output as is.
Redundant controller power supply failed	Error	The device trap message is output as is.
Redundant controller power supply removed	Warning	The device trap message is output as is.
Redundant controller power supply turned off	Warning	The device trap message is output as is.
All redundant controller power supply functions normal	Information	The device trap message is output as is.
Redundant controller power supplies normal	Information	The device trap message is output as is.
Redundant controller fan degraded	Error	The device trap message is output as is.
Redundant controller fan removed	Warning	The device trap message is output as is.
Redundant controller fan stopped	Warning	The device trap message is output as is.
Redundant controller fan warning	Warning	The device trap message is output as is.
Redundant controller fan normal	Information	The device trap message is output as is.
Failure in write-verification of a snapvalidator-enabled volume	Error	The device trap message is output as is.
Domain controller disconnected	Warning	The device trap message is output as is.
Password replacement with the domain controller failed	Warning	The device trap message is output as is.
One plex failed	Warning	The device trap message is output as is.
One plex placed offline	Warning	The device trap message is output as is.
Device fault in the shelf	Error	The device trap message is output as is.
Device in the shelf repaired	Information	The device trap message is output as is.
Module fault in the shelf	Error	The device trap message is output as is.
Module fault in the shelf repaired	Information	The device trap message is output as is.
The directory size has reached the maximum value	Error	The device trap message is output as is.
The directory size is approaching the maximum value	Warning	The device trap message is output as is.
All control blocks for CIFS statistics are being used	Warning	The device trap message is output as is.

Failure Event	Level	Event Display
The power unit has been disengaged, therefore shutdown will occur if this is left as it is	Warning	The device trap message is output as is.
There is a discrepancy between power unit types	Error	The device trap message is output as is.
More than one package FAN is faulty, therefore shutdown will occur if this is left as it is	Error	The device trap message is output as is.
A power unit in the system has connected to an incompatible external power source	Error	The device trap message is output as is.
At least one volume usage rate recovery	Information	The device trap message is output as is.
Directory size limit nearly reached	Warning	The device trap message is output as is.
Domain controller connected	Information	The device trap message is output as is.
Module warning in the shelf	Warning	The device trap message is output as is.
Multiple power supply fan failure	Error	The device trap message is output as is.
System down detection by system remote management	Error	The device trap message is output as is.
System down detection by system remote management	Warning	The device trap message is output as is.
System down instruction by system remote management	Warning	The device trap message is output as is.
Periodic trap from system remote management	Information	The device trap message is output as is.
Test trap from system remote management	Information	The device trap message is output as is.
Multipath disk connected to one switch	Warning	The device trap message is output as is.
Multipath disk not detected for the partner	Warning	The device trap message is output as is.
Multipath disk not multipathed	Warning	The device trap message is output as is.
Disk disable	Error	The device trap message is output as is.
HBA offline	Warning	The device trap message is output as is.
LUN Snap restore notice	Information	The device trap message is output as is.
LUN clone created	Information	The device trap message is output as is.
LUN Clone Split started	Information	The device trap message is output as is.
LUN Clone Split completed	Information	The device trap message is output as is.
Flex Clone Split started	Information	The device trap message is output as is.
Flex Clone Split completed	Information	The device trap message is output as is.
Created a Volume Clone	Information	The device trap message is output as is.
Snapshot Autodeleted	Information	The device trap message is output as is.

Failure Event	Level	Event Display
Volume is Autogrown	Information	The device trap message is output as is.
All connections to domain controllers in the preferred domain controllers list have been lost	Error	The device trap message is output as is.
External cache card failure	Information	The device trap message is output as is.
External cache is taken offline	Information	The device trap message is output as is.
The remaining number of Snapshot copies for a backup schedule is below warning limit specified	Warning	The device trap message is output as is.
NTP Time Daemon lost contact with the configured target	Error	The device trap message is output as is.
Trend Micro antivirus license has expired	Warning	The device trap message is output as is.
Trend Micro antivirus license is about to expire	Information	The device trap message is output as is.
Cutover phase of volume move job has been deferred	Warning	The device trap message is output as is.
Cutover phase of volume move job attempt resulted in failure	Error	The device trap message is output as is.
A volume move job completed successfully	Information	The device trap message is output as is.
A volume move is waiting for the user to trigger cutover	Information	The device trap message is output as is.
The anti-virus software update failed.	Error	The device trap message is output as is.
The anti-virus software license validation failed.	Error	The device trap message is output as is.
McAfee product has expired.	Error	The device trap message is output as is.
Remedy action taken. The file has been repaired, deleted or quarantined.	Information	The device trap message is output as is.
License validation was successful.	Information	The device trap message is output as is.
Remedy action failed. The file was not repaired, deleted or quarantined.	Error	The device trap message is output as is.
McAfee engine has expired.	Error	The device trap message is output as is.
McAfee product is expiring.	Warning	The device trap message is output as is.
A file larger than 2GB is not scanned and marked as clean.	Warning	The device trap message is output as is.
McAfee engine is expiring.	Warning	The device trap message is output as is.
Virus found while scanning.	Warning	The device trap message is output as is.
McAfee anti-virus license activation failed.	Error	The device trap message is output as is.
The anti-virus service disabling failed in the clustered system.	Error	The device trap message is output as is.

Failure Event	Level	Event Display
The anti-virus service is disabled in the clustered system.	Information	The device trap message is output as is.
McAfee anti-virus license is about to expire.	Warning	The device trap message is output as is.
The anti-virus service is enabled in the clustered system.	Information	The device trap message is output as is.
Spyware found while scanning.	Warning	The device trap message is output as is.
The anti-virus service enabling failed in the clustered system.	Error	The device trap message is output as is.
The anti-virus software cannot be rolled back.	Error	The device trap message is output as is.
The anti-virus software is rolled back.	Information	The device trap message is output as is.
The anti-virus software is updated.	Information	The device trap message is output as is.

## 4.8 Tintri VMstore series

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Event traps are messages reported from a device. Refer to the relevant hardware manual for information on events to take appropriate action.

## Chapter 5 Tape Library Events

### 5.1 ETERNUS LT20/LT20 S2/LT40/LT40 S2/LT60 S2

Event traps are messages reported from a device. If you have any questions about the message contents, refer to the relevant hardware manual to take corrective actions.

### 5.2 ETERNUS LT200

Event traps are messages reported from a device. If you have any questions about the message contents, refer to the relevant hardware manual to take corrective actions.

Failure Event	Level	Event Display
Autoloader error (Fatal error)	Error	emergency: controller: ACCESSOR Broken CHK=XXXX
Autoloader error (Others)	Warning	warning: controller: ACCESSOR Warning CHK=XXXX
Drive error (Fatal error)	Error	emergency: drive1: DRIVE01 Broken CHK=XXXX
Drive error (Others)	Warning	warning: drive1: DRIVE01 Warning CHK=XXXX
Request for replacement of Cleaning Cartridge	Warning	warning: controller: ACCESSOR Exchange Cleaning Cartridge
Request for maintenance of autoloader	Warning	warning: controller: ACCESSOR Library Maintenance
Reception of a Cleaning request from drive	Warning	warning: drive1: DRIVE01 CleaningRequest
Start of Inventory	Information	info: controller: ACCESSOR Inventory
Change of autoloader operation mode	Information	info: controller: ACCESSOR ModeChange to RANDOM in logical library 1 or info: controller: ACCESSOR ModeChange to SEQUENTIAL in logical library 1
Start of tape transfer	Information	info: controller: ACCESSOR MoveStart XXXX to YYYY
Completion of tape transfer	Information	info: controller: ACCESSOR MoveComplete XXXX to YYYY
The autoloader enters Not Ready state	Information	info: controller: ACCESSOR NotReady
The drive enters Not Ready state	Information	info: drive1: DRIVE01 NotReady
The autoloader enters online state	Information	info: controller: ACCESSOR Online
The drive enters online state	Information	info: drive1: DRIVE01 Online
Unlock magazine	Information	info: controller: ACCESSOR MagazineUnlock
Unlock I/O Station	Information	info: controller: ACCESSOR I/O StationUnlock
Start of auto cleaning	Information	info: controller: Auto Cleaning Start
Completion of auto cleaning	Information	info: controller: Auto Cleaning Complete

### 5.3 ETERNUS LT210/LT220/LT230

Event traps are messages reported from a device. If you have any questions about the message contents, refer to the relevant hardware manual to take corrective actions.

Failure Event	Level	Event Display
Library error (Fatal error)	Error	emergency: controller: ROBOT01 Broken CHK=XXXX
Library error (Others)	Warning	warning: controller: ROBOT01 Warning CHK=XXXX
Drive#1 error (Fatal error)	Error	emergency: drive1: DRIVE01 Broken CHK=XXXX
Drive#1 error (Others)	Warning	warning: drive1: DRIVE01 Warning CHK=XXXX
Drive#2 error (Fatal error)	Error	emergency: drive2: DRIVE02 Broken CHK=XXXX
Drive#2 error (Others)	Warning	warning: drive2: DRIVE02 Warning CHK=XXXX
Request for replacement of Cleaning Cartridge	Warning	warning: controller: ROBOT01 Exchange Cleaning Cartridge
Library Maintenance	Warning	warning: controller: ROBOT01 Library Maintenance
Reception of a Cleaning request from drive#1	Warning	warning: drive1: DRIVE01 CleaningRequest
Reception of a Cleaning request from drive#2	Warning	warning: drive2: DRIVE02 CleaningRequest
Start of Inventory	Information	info: controller: ROBOT01 Inventory
Change of library operation mode	Information	info: controller: ROBOT01 ModeChange to RANDOM or info: controller: ROBOT01 ModeChange to SEQUENTIAL
Start of medium transfer	Information	info: controller: ROBOT01 MoveStart XXXX to YYYY
Completion of medium transfer	Information	info: controller: ROBOT01 MoveComplete XXXX to YYYY
The library enters Not Ready state	Information	info: controller: ROBOT01 NotReady
The drive#1 enters Not Ready state	Information	info: drive1: DRIVE01 NotReady
The drive#2 enters Not Ready state	Information	info: drive2: DRIVE01 NotReady
The library enters online state	Information	info: controller: ROBOT01 Online
The drive#1 enters online state	Information	info: drive1: DRIVE01 Online
The drive#2 enters online state	Information	info: drive2: DRIVE02 Online
Unlock magazine	Information	info: controller: ROBOT01 MagazineUnlock
Unlock mailbox	Information	info: controller: ROBOT01 MailboxUnlock
Request of Bus Device Reset	Information	info: controller: ROBOT01 BusDeviceReset

## 5.4 ETERNUS LT250

Event traps are messages reported from a device. If you have any questions about the message contents, refer to the relevant hardware manual to take corrective actions.

Failure Event	Level	Event Display
Library hardware error	Error	Library system failed. Use the Remote Panel to check the error contents(FSC=xx, Sensekey=xx).
Barcode reader error	Warning	Barcode reader failed.
CM reader error	Warning	CM reader failed.
CAS error	Warning	CAS unit#number failed.
Cell error	Warning	Cell unit failed (Barcode Label:xxxxx).

Failure Event	Level	Event Display
CIC sensor error	Warning	CIC sensor failed.
Battery alarm	Warning	Battery unit failed.
Shelf FAN0 alarm	Warning	Shelf FAN#0 failed.
Shelf FAN1 alarm	Warning	Shelf FAN#1 failed.
Library FAN0 alarm	Warning	Library FAN#0 failed.
Library FAN1 alarm	Warning	Library FAN#1 failed.
Library FAN2 alarm	Warning	Library FAN#2 failed.
CAS unlock error	Warning	An Unlock error occurred in CAS unit#number.
FC/SCSI error	Warning	Adapter#number failed.
Boot up alarm	Warning	Bootup alarm occurred.
MAC address alarm	Warning	EEPROM failed.
Shelf PSU alarm	Warning	Shelf PSU#number unit failed.
Shelf PSU not installed	Warning	Shelf PSU#number is not installed.
Thermal alarm	Warning	Tape library temperature increased (temperature degree C), leading to an alarm.
Thermal error	Error	Tape library temperature increased abnormally (temperature degree C), leading to a library system fail.
Humidity alarm	Warning	Tape library humidity (humidity %) is abnormal.
Front door open (during operation)	Warning	Front door of the library system was opened.
Nearing no cleaning tape	Warning	The installed cleaning cartridges will reach a limit soon.
Cleaning tape limit	Warning	Maximum number of uses of cleaning cell#number (Barcode Label: xxxxx) was reached.
No cleaning tape	Warning	Cleaning cartridge is not available.
ROBOT Serdes alarm	Warning	Robot serdes failed.
Power control card alarm	Warning	Power control card failed.
Operator Panel P-Off alarm	Warning	Power-off occurred in operation panel.
Nearing Media Life	Warning	Media soon will be end of life. (Barcode Label:xxxxx)
Reach Media Life	Warning	Media reached at the end of life. (Barcode Label:xxxxx)
Reach ROBOT life	Warning	Robot reached at the end of life.
Magazine set sensor error	Warning	Magazine set sensor in CAS#number failed.
No magazine	Warning	Magazine in CAS#number is not installed.
Trash cell full	Warning	There is a media in the Trash cell. (Barcode label:xxxxx)
Media error (CM)	Warning	An error occurred in media error(CM fail).(Barcode Label:xxxxx)
Drive hardware error	Error	An error occurred in drive#number. Use the Remote Panel to check the error contents (FSC=xx, Sensekey=xx).
Media error	Warning	An Error occurred in media error (Barcode Label:xxxxx).
Drive FAN alarm	Warning	A FAN alarm occurred in drive#number.
Drive cleaning request	Warning	Drive#number needs cleaning. Perform cleaning.
Reach Drive Life	Warning	Drive#number reached at the end of life.

Failure Event	Level	Event Display
Drive PSU power off alarm	Warning	Power-off occurred in drive PSU#number unit.
Drive PSU alarm	Warning	Drive PSU#number unit failed.
Drive LCT/DC IF alarm	Warning	Interface between LCT and DC failed.
Grease is necessary	Warning	Need Greasing.

## 5.5 ETERNUS LT260

Event traps are messages reported from a device. Refer to the relevant hardware manual to take corrective actions.

## 5.6 ETERNUS LT270

Event traps are messages reported from a device. If you have any questions about the message contents, refer to the relevant hardware manual to take corrective actions.

Failure Event	Level	Event Display
Library hardware error	Error	Library system failed. Use the Remote Panel to check the error contents (FSC=xxxx, Sensekey=xxxx).
Barcode reader error	Warning	Barcode reader in robot#number failed.
CM error	Warning	An error occurred in media error(CM fail).(Barcode Label=xxxx)
CAS cell error	Warning	CAS unit number error occurred.
Cell error	Warning	Cell unit failed.(Barcode Label=xxxxx)
CIC sensor error	Warning	CIC sensor in robot #number failed.
Battery alarm	Warning	Battery unit in LCT#number failed.
Shelf 0 fan alarm	Warning	Shelf FAN in LCT#0 failed.
Shelf 1 fan alarm	Warning	Shelf FAN in LCT#1 failed.
CAS open error	Warning	An open error occurred in CAS unit number
FC/SCSI adapter card error	Warning	Adapter#number failed.
Firmware BOOTUP alarm	Warning	The LCT#number bootup alarm occurred.
EEPROM error	Warning	EEPROM failed.
ROBOT PSU alarm	Warning	PSU unit in robot robot#number failed.
ROBOT PSU power off alarm	Warning	Power-off occurred in PSU unit in robot#number.
ROBOT PSU FAN alarm	Warning	PSU unit FAN in robot#number failed.
Temperature alarm	Warning	The temperature in the library is abnormal.(temperature degree C).
Temperature abnormality error	Error	Tape library temperature increased abnormally (temperature degrees C), leading to a library system fail.
Vibration alarm	Warning	Library system detected an abnormal vibration.
Humidity alarm	Warning	Tape library humidity (humidity %) is abnormal.
LCT failover alarm	Warning	Failover occurred in LCT#number.
LCT cutoff alarm	Warning	Cutoff occurred in LCT#number.
ROBOT Down alarm	Warning	Robot#number failed.
Front door open (during operation)	Warning	Front door of the library system was opened.



Failure Event	Level	Event Display
Nearing no cleaning tape	Warning	The installed cleaning cartridges will reach a limit soon.
Expired deadline for cleaning	Warning	Maximum number of uses of cleaning cell#number (barcode label: xxxx) was reached.
Cleaning cartridge none	Warning	Cleaning cartridge is not available.
ROBOT Serdes alarm	Warning	Serdes in robot#number failed.
Power control card alarm	Warning	Power control card in LCT#number failed.
LCD power off alarm	Warning	Power-off occurred in operation panel.
Drive hardware error	Error	An error occurred in drive#number. Use the remote panel to check the error contents (FSC=xxxx, Sensekey=xxxxxx).
Media error	Warning	An Error occurred in media error (barcode label:xxxxxx).
Fan alarm	Warning	A FAN alarm occurred in drive #number.
Cleaning request	Warning	Drive#number needs cleaning. Perform cleaning.
Cluster PSU0 power off alarm	Warning	Power-off occurred in PSU0 in drive cluster#number.
Cluster PSU1 power off alarm	Warning	Power-off occurred in PSU1 in drive cluster#number.
Cluster PSU0 alarm	Warning	PSU0 in drive cluster#number failed.
Cluster PSU1 alarm	Warning	PSU1 in drive cluster#number failed.
LCT/DCT0 IF failure	Warning	Interface between LCT#number and DCI#0 (drive cluster#number) failed.
LCT/DCT1 IF failure	Warning	Interface between LCT#number and DCI#1 (drive cluster#number) failed.
DCT0 failure	Warning	DCI#number in drive cluster#number failed.
DCT1 failure	Warning	DCI#number in drive cluster#number failed.
Nearing Media Life	Warning	Media soon will be end of life (Barcode Label:xxxxx).
Reach Media Life	Warning	Media reached at the end of life (Barcode Label:xxxxx).
Reach ROBOT life	Warning	Robot#number reached at the end of life.
Reach Drive Life	Warning	Drive#number reached at the end of life.

## 5.7 ETERNUS LT270 S2

Event traps are messages reported from a device. If you have any questions about the message contents, refer to the relevant hardware manual to take corrective actions.

Failure Event	Level	Event Display
Library hardware error	Error	Library system failed. Use the remote panel to check the error contents(FSC=xxxx, Sensekey=xxx,Cabinet Number=number).
Barcode reader error	Warning	Barcode reader in robot #number of cabinet #number failed.
CM error	Warning	An error occurred in media error (CM fail) (Barcode Label=xxxxx, cabinet #number).
CAS cell error	Warning	CAS unit #number of cabinet #number failed.
Cell error	Warning	Cell unit of cabinet #number failed (Barcode Label: xxxxx).
CIC sensor error	Warning	CIC sensor in robot #number of cabinet #number failed.
Battery alarm	Warning	Battery unit in LCT of cabinet #number failed.
Shelf 0 fan alarm	Warning	Shelf FAN 0 of cabinet #number failed.

Failure Event	Level	Event Display
Shelf 1 fan alarm	Warning	Shelf FAN 1 of cabinet #number failed.
Shelf 2 fan alarm	Warning	Shelf FAN 2 of cabinet #number failed.
CAS open error	Warning	An open error occurred in CAS unit #number of cabinet #number.
FC/SCSI adapter card error	Warning	Adapter #number failed.
Firmware BOOTUP alarm	Warning	The LCT of cabinet #number bootup alarm occurred.
EEPROM error	Warning	EEPROM failed.
PSU alarm	Warning	PSU unit #number of cabinet #number failed.
PSU power off alarm	Warning	Power-off occurred in PSU unit #number of cabinet #number.
PSU FAN alarm	Warning	PSU unit #number of cabinet #number FAN failed.
Temperature alarm	Warning	Cabinet #number temperature increased (temperature degree C), leading to an alarm.
Temperature abnormality error	Error	Cabinet #number temperature increased abnormally (temperature degree C), leading to a library system fail.
Humidity alarm	Warning	Cabinet #number humidity (humidity %) is abnormal.
ROBOT Down alarm	Warning	Robot #number of cabinet #number failed.
Front door open (during operation)	Warning	Front door of cabinet #number was opened.
Nearing no cleaning tape	Warning	The installed cleaning cartridges of cabinet #number will reach a limit soon.
Expired deadline for cleaning	Warning	Maximum number of uses of cleaning cell #number of cabinet #number (Barcode Label: xxxxx) was reached.
Cleaning cartridge none	Warning	Cleaning cartridge of cabinet #number is not available.
ROBOT Serdes alarm	Warning	Serdes in robot #number of cabinet #number failed.
Power control card alarm	Warning	Power control card failed.
LCD power off alarm	Warning	Power-off occurred in operation panel of cabinet #number.
Drive hardware error	Error	An error occurred in drive #number of cabinet #number. Use the remote panel to check the error contents (FSC=xxxx, Sensekey=xxxxxx).
Media error	Warning	An error occurred in media error (Barcode Label: xxxxx).
Fan alarm	Warning	A FAN alarm occurred in drive #number of cabinet #number.
Cleaning request	Warning	Drive #number of cabinet #number needs cleaning. Perform cleaning.
LCT/DCT IF failure	Warning	Interface between LCT and DCI (drive cluster #number of cabinet #number) failed.
DCI failure	Warning	DCI in drive cluster #number of cabinet #number failed.
Nearing Media Life	Warning	Media soon will be end of life (Barcode Label: xxxxx).
Reach Media Life	Warning	Media reached at the end of life (Barcode Label: xxxxx).
Nearing ROBOT Life	Warning	Robot #number of cabinet #number soon will be end of life.
Reach ROBOT life	Warning	Robot #number of cabinet #number reached at the end of life.
Nearing Drive Life	Warning	Drive #number of cabinet #number soon will be end of life.
Reach Drive Life	Warning	Drive #number of cabinet #number reached at the end of life.
Encryption key delivery abnormality over threshold	Warning	Key send retry threshold over.

Failure Event	Level	Event Display
Standby ROBOT patrol failure	Warning	Standby robot of cabinet #number patrol warning occurred.
Robot RPS over threshold	Warning	Robot of cabinet #number hang down warning occurred.
Cabinet through has reached end of life	Warning	Cabinet through #number reached at the end of life.
Cabinet through stopped because the front door is open	Warning	Cabinet through stopped because of front door opened.
Cabinet through down alarm	Warning	Cabinet through #number failed.
Standby cabinet through down alarm	Warning	Standby cabinet through #number failed.
LAN HUB0 error	Warning	LAN HUB0 of cabinet #number failed.
LAN HUB1 error	Warning	LAN HUB1 of cabinet #number failed.
Library firmware mismatch	Warning	Library firmware unmatch occurred in cabinet #number.
Library cabinet down	Warning	Cabinet fail occurred in cabinet #number.
I2C connection error	Warning	I2C connection error has occurred.
Cabinet connection error	Warning	Cabinet connection error has occurred.

## 5.8 ETERNUS CS800/CS800 S2/CS800 S3

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Event traps are messages reported from a device. When a warning event or an error event occurs, check the device status and contact your Fujitsu engineer.

## Chapter 6 Fibre Alliance MIB Support Device Events

The events are reported from the following SNMP Traps to a device that supports Fibre Alliance MIB (Fibre Alliance Fibre Channel Management Framework Integration MIB, FA-MIB).

### Information

#### About words of Event display in the table:

- The *status* is replaced with any of "Unknown", "Online", "Offline", "Bypassed", or "Diagnostics".
- When the level of an event except event trap is Information, an event display other than "OK" and "Ready" may appear.

Failure Event	Level	Event Display
The status of the unit has changed to normal.	Information	The status of the unit has changed to OK/ <i>status</i>
The status of the unit has changed to warning.	Warning	The status of the unit has changed to Warning/ <i>status</i>
The status of the unit has changed to unknown.	Warning	The status of the unit has changed to Unknown/ <i>status</i>
The status of the unit has changed to error.	Error	The status of the unit has changed to FAILED/ <i>status</i>
The status of the power supply, fan, or temperature sensor has changed to normal.	Information	The status of the sensor has changed to OK/ <i>status</i>
The status of the power supply, fan, or temperature sensor has changed to warning.	Warning	The status of the sensor has changed to Warning/ <i>status</i>
The status of the power supply, fan, or temperature sensor has changed to unknown.	Warning	The status of the sensor has changed to Unknown/ <i>status</i>
The status of the power supply, fan, or temperature sensor has changed to error.	Error	The status of the sensor has changed to FAILED/ <i>status</i>
The status of the Fibre Channel port has changed to normal.	Information	The status of the port has changed to Ready/ <i>status</i>
The status of the Fibre Channel port has changed to warning.	Warning	The status of the port has changed to Warning/ <i>status</i>
The status of the Fibre Channel port has changed to unknown.	Warning	The status of the port has changed to Unknown/ <i>status</i>
The status of the Fibre Channel port has changed to error.	Error	The status of the port has changed to FAILURE/ <i>status</i>
Event trap	Error, Warning, Information	The message of the device trap is output as it is.

#### Troubleshooting

When the level is **Error** or **Warning**, hardware maintenance is required.

For the event trap, hardware maintenance may also be required when the level is Information. If the contents of the message are unknown, contact your hardware maintenance engineer (CE).

For other events, no action is required when the level is Information.

## Chapter 7 Performance Management Traps

### Failure Event of Performance Monitoring

Failure Event	Level	Event Display	Troubleshooting
Performance data collection failure	Error	Performance data collecting failure	Confirm the device and the status of the LAN with IP address shown in the event message.
Start of performance data re-collection	Information	Performance data re-collecting start	None.
Success of performance data re-collection	Information	Performance data re-collecting success	

### Failure Event of Performance Threshold Monitoring

Failure Event	Level	Event Display	Explanation	Troubleshooting
Logical volume response time failure	Warning	Report-ID= <i>reportNumber</i> / Threshold value exceed : LogicalVolumeXXXX Response Time over YYms	XXXX : "0x" added hexadecimal notation YY : Decimal notation	Check the configuration according to the contents of the event message.
Abnormal CM load	Warning	Report-ID= <i>reportNumber</i> / Threshold value exceed : CMXX Busy Rate over YY%	XX : "0x" added hexadecimal notation YY : Decimal notation	
Abnormal RAID group load	Warning	Report-ID= <i>reportNumber</i> / Threshold value exceed : RAIDGroupXXXX Busy Rate over YY%	XXXX : "0x" added hexadecimal notation YY : Decimal notation	
Abnormal Port Throughput load	Warning	Report-ID= <i>reportNumber</i> / Threshold value exceed : PortX Throughout over YY%	X : Decimal notation YY : Decimal notation	

## Chapter 8 Device Polling Event

When the device polling function of this software detects the status change of the device, display it in the event as follows.



Note

When the status change of device is detected by performing the **Reload Conf.** operation, the following events are not displayed.

Event	Level	Event Display	Troubleshooting
When the status changes into error	Error	Unit status changed: Error	Check the device status.
When the status has changed warning	Warning	Unit status changed: Warning	Check the device status.
When the status has changed normal	Information	Unit status changed: OK	No action is required.
When the status has changed unmonitored	Warning	Connection Timeout	<p>Check whether the LAN between the Management Server and the device is operating normally. Check whether the status of each device is proper, processes for network communication such as SNMP are operating, and when the device contains the server node then the Storage Cruiser's agent is operating normally on the device.</p> <p>If the SNMP settings of a device that uses SNMP for communication is changed, perform the following method to reconfigure the system:</p> <ul style="list-style-type: none"> <li>- Refer to "Change ETERNUS Disk Storage System Information" in the <i>ETERNUS SF Web Console Guide</i> to change the SNMP settings.</li> </ul>
When communication has been recovered	Information	Connection OK	No action is required.
When error occurs in the polling function	Error	[Polling] (Error event)	<p>Take appropriate action for each event message as follows:</p> <ul style="list-style-type: none"> <li>- Command could not be executed: <i>commandName</i></li> </ul> <p>This event occurs when command processing fails to start because of a resource shortage on the Management Server. If it is a temporary event, no special action need be taken. If it occurs regularly, however, check whether system resources (memory and file descriptors) on the Management Server have been depleted.</p> <ul style="list-style-type: none"> <li>- XML File can not read: <i>fileName</i></li> </ul> <p>This event occurs when reading of the XML definition file fails. Check for an error in the definition contents.</p> <ul style="list-style-type: none"> <li>- XML File not found: <i>fileName</i></li> </ul>

Event	Level	Event Display	Troubleshooting
			<p>This event occurs when there is no XML definition file. Check for the file in the correct directory, which is specified by the directory path.</p> <p>- Other</p> <p>Collect the message and other information for an investigation, and contact your Fujitsu certified service engineer.</p>
When the access status data failed to evaluate	Error	esast5050:Failed to evaluate performance data of Tier pool ( <i>tierPoolName</i> ).	The total number of used capacity of Tier pools that can be simultaneously evaluated by ETERNUS SF Manager may possibly be exceeded. Refer to the <i>ETERNUS SF Messages</i> and take appropriate action according to the esast5050 message.
When the number of layers of Tier pool has changed by deleting a RAID group that configures the Tier pool	Warning	esast5055:Manager did not restart Automated Storage Tiering. Tier Pool Name= <i>tierPoolName</i>	Deleting a RAID group may cause Tiering policy to become unset. Refer to the <i>ETERNUS SF Messages</i> and take appropriate action according to the esast5055 message.

When communication is re-established, the event displayed differs, depending on the polling function communication method.

- Device status polling method

In accordance with the most recent status, the event displayed is any of "Unit status changed: OK", "Unit status changed: Warning", or "Unit status changed: Error".

- Communication status polling method

The event displayed is "Connection OK". Changes in device status are not detected.



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Refer to "Device Polling" in "Function Outline" in the *ETERNUS SF Storage Cruiser Operation Guide* for information on polling methods.  
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