AX2500S Software Manual

Message and Log Reference

For Version 3.5

AX25S-S005X-70



Relevant products

This manual applies to the models in the AX2500S series of switches. It also describes the functionality of version 3.5 of the software for the AX2500S series of switches. The described functionality is that supported by the OS-L2B-A/OS-L2B and the advanced software upgrade license (the "License").

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Reading and storing this manual

Before you use the equipment, carefully read the manual and make sure that you understand all safety precautions. After reading the manual, keep it in a convenient place for easy reference.

Notes

Information in this document is subject to change without notice.

Editions history

January 2013 (Edition 8) AX25S-S005X-70

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History of Amendments

Ver. 3.5 (Edition 8)

Summary of amendments

Location and title	Changes
2.3.2 Event location = GSRP	• Descriptions related to peer links were added.
2.3.3 Event location = VLAN	• Logs related to peer links were added.
2.4.11 Event location = SML	• Logs related to peer links were added.
2.5.1 Event location = PORT	• The AX2530S-24TD, AX2530S-48TD, and AX2530S-24S4XD models were added.

In addition to the above changes, minor editorial corrections were made.

Ver. 3.4 (Edition 7)

Summary of amendments

Location and title	Changes
Event location = SESSION	• Logs related to login authentication were deleted.

In addition to the above changes, minor editorial corrections were made.

Ver. 3.3 (Edition 6)

Summary of amendments

Location and title	Changes
Event location = CONSOLE	• Descriptions related to IPv6 information were added.
Event location = TELNETC	• Descriptions related to IPv6 information were added.
Event location = STP	• Logs related to virtual link were added.
Event location = VLAN	Logs related to virtual link were added.
Event location = VLAN (Ring Protocol)	• Logs related to master node, shared node, and multi fault detection functionalities were added.
Event location = IP	 Logs related to excessive entries in ARP table and NDP table, and duplication of IPv6 address were added.

In addition to the above changes, minor editorial corrections were made.

Ver. 3.2 (Edition 5) Summary of amendments

Location and title	Changes
Event location = CONSOLE	• Logs related to the destruction of configuration were added.
Event location = VLAN	• Logs related to Tag conversion were added.
Event location = KERNEL	 Logs related to stopping the recovery process when the system failure occurred were added.
Event location = FABRIC	• Logs related to recovery process in the device driver were added.

In addition to the above changes, minor editorial corrections were made.

Ver. 3.2 (Edition 4)

Summary of amendments

Location and title	Changes
Code information for logs	• Descriptions related to event levels were changed.
Event location = PORT	• The AX2530S-24T4X and AX2530S-48T2X models were added.

In addition to the above changes, minor editorial corrections were made.

Ver. 3.1 (Edition 3)

Summary of amendments

Location and title	Changes
Event location = SNMP	• This subsection was added.
Event location = KERNEL	• Logs related to startup mode have been added.
Event location = PORT	 Logs related to unidirectional link failure detection were added. Logs related to SFP modules were added. Logs related to switching PHY operating mode were deleted.
Event location = SFP	• Logs related to SFP-T were added.
Event location = THERMO	• Logs related to corresponding long life solution were added.

In addition to the above changes, minor editorial corrections were made.

Ver. 3.1 (Edition 2) Summary of amendments

Location and title	Changes
Event location = PORT	• Logs related to switching PHY operating mode were deleted.
Event location = SFP	 Descriptions related to SFP+ were added. Logs related to recovering port failure were added.
Event location = THERMO	• Logs related to corresponding long life solution were added.

In addition to the above changes, minor editorial corrections were made.

Applicable products and software versions

This manual applies to the models in the AX2500S series of switches. It also describes the functionality of version 3.5 of the software for the AX2500S series of switches. The described functionality is that supported by the OS-L2B-A/OS-L2B and the advanced software upgrade license (the "License").

Before you operate the equipment, carefully read the manual and make sure that you understand all instructions and cautionary notes. After reading the manual, keep it in a convenient place for easy reference.

Unless otherwise noted, this manual describes the functionality applicable commonly to AX2500S series switches. The functionalities specific to each model are indicated as follows:

[24T]:

The description applies to the AX2530S-24T switch.

[24T4X]:

The description applies to the AX2530S-24T4X switch.

[48T]:

The description applies to the AX2530S-48T switch.

[48T2X]:

The description applies to the AX2530S-48T2X switch.

[24S4X]:

The description applies to the AX2530S-24S4X switch.

[24TD]:

The description applies to the AX2530S-24TD switch.

[48TD]:

The description applies to the AX2530S-48TD switch.

[24S4XD]:

The description applies to the AX2530S-24S4XD switch.

[10G model]:

The description applies to AX2530S-24T4X, AX2530S-48T2X, AX2530S-24S4X, and AX2530S-24S4XD switches.

Unless otherwise noted, this manual describes the functionality for OS-L2B-A/OS-L2B. Functionality related to the Software License Agreement and License Sheet is indicated as follows:

[OS-L2A]:

The description indicates functionality supported by the Software License Agreement and License Sheet.

Corrections to the manual

Corrections to this manual might be contained in the *Release Notes* and *Manual Corrections* that come with the software.

Intended readers

This manual is intended for system administrators who wish to configure and operate a network system that uses the Switch.

Readers must have an understanding of the following:

• The basics of network system management

Manual URL

You can view this manual on our website at:

http://www.alaxala.com/en/

Reading sequence of the manuals

The following shows the manuals you need to consult according to your requirements determined from the following workflow for installing, setting up, and starting regular operation of the Switch.

 Learning the basic settings for initial installation, and determining the hardware facility conditions and how to handle the hardware

AX2500S Hardware Instruction Manual (AX25S-H001X)

 Understanding the software functions, configuration settings, and use of the operation commands

C V	Configura Vol.1	tion Guide	
		(AX25S-S001X)	
	Vol.2		
		(AX25S-S002)	K)

 Learning the syntax of configuration commands and the details of command parameters



• Learning the syntax of operation commands and the details of command parameters

Operation Command Reference

(AX25S-S004X)

Understanding messages and logs

Message and Log Reference

(AX25S-S005X)

Understanding the MIB

MIB Reference (AX25S-S006X)

 How to troubleshoot when a problem occurs

Troubleshooting Guide
(AX25S-T001X)

Abbreviations used in the manual

AC	Alternating Current
ACK	ACKnowledge
ADSL	Asymmetric Digital Subscriber Line
ALG	Application Level Gateway

ANSI	American National Standards Institute
ARP	Address Resolution Protocol
AS	Autonomous System
AUX	Auxiliary
BGP	Border Gateway Protocol
BGP4	Border Gateway Protocol - version 4
BGP4+	Multiprotocol Extensions for Border Gateway Protocol - version 4
bit/s	bits per second (can also appear as bps)
BPDU	Bridge Protocol Data Unit
BRI	Basic Rate Interface
CC	Continuity Check
CDP	Cisco Discovery Protocol
CFM	Connectivity Fault Management
CIDR	Classless Inter-Domain Routing
CIR	Committed Information Rate
CIST	Common and Internal Spanning Tree
CLNP	ConnectionLess Network Protocol
CLNS	ConnectionLess Network System
CONS	Connection Oriented Network System
CRC	Cyclic Redundancy Check
CSMA/CD	Carrier Sense Multiple Access with Collision Detection
CSNP	Complete Sequence Numbers PDU
CST	Common Spanning Tree
DA	Destination Address
DC	Direct Current
DCE	Data Circuit terminating Equipment
DHCP	Dynamic Host Configuration Protocol
DIS	Draft International Standard/Designated Intermediate System
DNS	Domain Name System
DR	Designated Router
DSAP	Destination Service Access Point
DSCP	Differentiated Services Code Point
DTE	Data Terminal Equipment
DVMRP	Distance Vector Multicast Routing Protocol
E-Mail	Electronic Mail
EAP	Extensible Authentication Protocol
EAPOL	EAP Over LAN
EFM	Ethernet in the First Mile
ES	End System
FAN	Fan Unit

FCS	Frame Check Sequence
FDB	Filtering DataBase
FQDN	Fully Qualified Domain Name
FTTH	Fiber To The Home
GBIC	GigaBit Interface Converter
GSRP	Gigabit Switch Redundancy Protocol
HMAC	Keyed-Hashing for Message Authentication
IANA	Internet Assigned Numbers Authority
ICMP	Internet Control Message Protocol
ICMPv6	Internet Control Message Protocol version 6
ID	Identifier
IEC	International Electrotechnical Commission
IEEE	Institute of Electrical and Electronics Engineers, Inc.
IETF	the Internet Engineering Task Force
IGMP	Internet Group Management Protocol
IP	Internet Protocol
IPCP	IP Control Protocol
IPv4	Internet Protocol version 4
IPv6	Internet Protocol version 6
IPV6CP	IP Version 6 Control Protocol
IPX	Internetwork Packet Exchange
ISO	International Organization for Standardization
ISP	Internet Service Provider
IST	Internal Spanning Tree
L2LD	Layer 2 Loop Detection
LAN	Local Area Network
LCP	Link Control Protocol
LED	Light Emitting Diode
LLC	Logical Link Control
LLDP	Link Layer Discovery Protocol
LLQ+3WFQ	Low Latency Queueing + 3 Weighted Fair Queueing
LSP	Label Switched Path
LSP	Link State PDU
LSR	Label Switched Router
MA	Maintenance Association
MAC	Media Access Control
MC	Memory Card
MD5	Message Digest 5
MDI	Medium Dependent Interface
MDI-X	Medium Dependent Interface crossover

MEP	Maintenance association End Point
MIB	Management Information Base
MIP	Maintenance domain Intermediate Point
MRU	Maximum Receive Unit
MSTI	Multiple Spanning Tree Instance
MSTP	Multiple Spanning Tree Protocol
MTU	Maximum Transfer Unit
NAK	Not AcKnowledge
NAS	Network Access Server
NAT	Network Address Translation
NCP	Network Control Protocol
NDP	Neighbor Discovery Protocol
NET	Network Entity Title
NLA ID	Next-Level Aggregation Identifier
NPDU	Network Protocol Data Unit
NSAP	Network Service Access Point
NSSA	Not So Stubby Area
NTP	Network Time Protocol
OADP	Octpower Auto Discovery Protocol
OAM	Operations, Administration, and Maintenance
OSPF	Open Shortest Path First
OUI	Organizationally Unique Identifier
packet/s	packets per second (can also appear as pps)
PAD	PADding
PAE	Port Access Entity
PC	Personal Computer
PCI	Protocol Control Information
PDU	Protocol Data Unit
PICS	Protocol Implementation Conformance Statement
PID	Protocol IDentifier
PIM	Protocol Independent Multicast
PIM-DM	Protocol Independent Multicast-Dense Mode
PIM-SM	Protocol Independent Multicast-Sparse Mode
PIM-SSM	Protocol Independent Multicast-Source Specific Multicast
PoE	Power over Ethernet
PRI	Primary Rate Interface
PS	Power Supply
PSNP	Partial Sequence Numbers PDU
QoS	Quality of Service
RA	Router Advertisement

RADIUS	Remote Authentication Dial In User Service	
RDI	Remote Defect Indication	
REJ	REJect	
RFC	Request For Comments	
RIP	Routing Information Protocol	
RIPng	Routing Information Protocol next generation	
RMON	Remote Network Monitoring MIB	
RPF	Reverse Path Forwarding	
RQ	ReQuest	
RSTP	Rapid Spanning Tree Protocol	
SA	Source Address	
SD	Secure Digital	
SDH	Synchronous Digital Hierarchy	
SDU	Service Data Unit	
SEL	NSAP SELector	
SFD	Start Frame Delimiter	
SFP	Small Form factor Pluggable	
SFP+	Enhanced Small Form factor Pluggable	
SML	Split Multi Link	
SMTP	Simple Mail Transfer Protocol	
SNAP	Sub-Network Access Protocol	
SNMP	Simple Network Management Protocol	
SNP	Sequence Numbers PDU	
SNPA	Subnetwork Point of Attachment	
SPF	Shortest Path First	
SSAP	Source Service Access Point	
STP	Spanning Tree Protocol	
ТА	Terminal Adapter	
TACACS+	Terminal Access Controller Access Control System Plus	
TCP/IP	Transmission Control Protocol/Internet Protocol	
TLA ID	Top-Level Aggregation Identifier	
TLV	Type, Length, and Value	
TOS	Type Of Service	
TPID	Tag Protocol Identifier	
TTL	Time To Live	
UDLD	Uni-Directional Link Detection	
UDP	User Datagram Protocol	
ULR	Uplink Redundant	
UPC	Usage Parameter Control	
UPC-RED	Usage Parameter Control - Random Early Detection	

VAA	VLAN Access Agent
VLAN	Virtual LAN
VRRP	Virtual Router Redundancy Protocol
WAN	Wide Area Network
WDM	Wavelength Division Multiplexing
WFQ	Weighted Fair Queueing
WRED	Weighted Random Early Detection
WS	Work Station
WWW	World-Wide Web
XFP	10 gigabit small Form factor Pluggable

Conventions: The terms "Switch" and "switch"

The term Switch (upper-case "S") is an abbreviation for any or all of the following models:

• AX2500S series switch

The term switch (lower-case "s") might refer to a Switch, another type of switch from the current vendor, or a switch from another vendor. The context decides the meaning.

Conventions: KB, MB, GB, and TB

This manual uses the following conventions:

- 1 KB (kilobyte) is 1024 bytes.
- 1 MB (megabyte) is 1024² bytes.
- 1 GB (gigabyte) is 1024³ bytes.
- 1 TB (terabyte) is 1024⁴ bytes.

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1. Operation Messages and Logs

This chapter explains how to use the failed part, operation messages, and logs, to identify the location of errors that have occurred.

1.1 Checking operation messages

1.2 Checking the log

1.1 Checking operation messages

The Switch outputs information to be reported to the administrator, such as activity status and failure information, to an operation terminal as operation messages. Operation messages are also stored internally as operation log data. Using this log data, you can manage the switch operating status.

1.1.1 Message types

The following table describes the types of output messages and gives references for those messages. Among these messages, failure and event information that is output by the switch is called an operation message.

Message type	Description	Reference
Configuration error messages	Messages output for input of configuration command	Error Messages on Configuration Editing in the manual Configuration Command Reference
Command response messages	Messages output for command input	Response Messages section of each command in the manual Operation Command Reference
Operation messages	Device failure information and event information	2. Device Failure and Event Information

Table 1-1 Message types and references

1.1.2 Contents of operation messages

The following table describes the support status of operation messages.

Table 1-2 Support status of operation messages

Category	Function item	Operation messages
Device failure and event	Failure information for each event location	Y
monnation	Event information per event location of the switch	Y

(Legend)

Y: Message is displayed

N: Message is not displayed

1.1.3 Format of operation messages

(1) Device failure and event information

The following shows the format of device failure and event information.

Figure 1-1 Format of switch failure and event information

 $\frac{\text{mm/dd hh: mm: ss}}{1} \quad \frac{\text{ee}}{2} \quad \frac{\text{kkkkkkk}}{3} \quad \frac{\text{[iii...ii]}}{4} \quad \frac{\text{xxxxxxxx}}{5} \quad \frac{\text{ttt-ttt}}{6}$

- 1. Time: Displays the date and time (month, day, hour, minute, and second) that the event indicated in the message occurred.
- 2. Event level

- 3. Event location or functionality
- 4. Event interface ID. Whether this information is displayed depends on the event location.
- 5. Message ID
- 6. Message text

The code information included in the message, such as the event level, event location, or functionality, is the same as that in the log. For details, see *1.2.4 Format of the reference log*.

1.1.4 Outputting operation messages

(1) Device failure and event information

All messages for device failure and event information are output to the operation terminal screen. Depending on the error severity or event contents, the information is classified into seven event levels, ranging from E3 to E9. If you specify the event level by using the set logging consol e command, you can limit the output of messages to the specified level or lower.

1.2 Checking the log

1.2.1 Log types

The Switch acquires two types of logs: operation log and reference log. The operation log acquires entered commands, operation event information, and command response messages and operation information selected to be output as operation messages to the operation terminal. This information is acquired as log data in chronological order. The reference log acquires statistics for device failure and event information within the operation message.

The following table describes the features of the operation log and reference log.

Item	Operation log	Reference log	
Log contents	 Acquires events that occurred in chronological order. 	• Records statistics for each event, such as the time of the first and last occurrences, and the total number of occurrences.	
Maintenance information that is acquired	 Entered commands Command response messages Device failure and event information 	 Device failure and event information 	
Number of acquired entries	 1500 entries can be acquired. Within those, the first 1000 log entries are saved chronologically. The remaining 500 entries consist of older entries whose log type is ERR or EVT. 	 500 entries can be acquired. If the number of log entries exceeds 500, entries that have a lower event level are be deleted and new entries are acquired. 	
Overflow processing when the log size is exceeded	 If the number of log entries exceeds 1000, whether old entries are deleted or saved depends on the log type. Excess old entries whose log type is not ERR or EVT are deleted. Excess old entries whose log type is ERR or EVT are saved as entries 1001 to 1500. If the number of log entries exceeds 1500, old log entries are deleted. 	• If the number of log entries exceeds 500, entries that have a lower event level are deleted and the new entries are acquired.	

Table 1-3 Features of the operation log and reference log

1.2.2 Log contents

The following table describes the information acquired in the operation log and reference log.

Category	Description	Operation log	Referen ce log	Reference
Entered commands	Commands entered from the operation terminal by operators	Y	Ν	
Command response messages	Messages output by switches to respond to entered commands	Y	N	Response Messages section of each command in the manual Operation Command Reference
Device failure and event information	Failure information for each event location	Y	Y	2. Device Failure and Event Information
	Event information per event location of the switch	Y	Y	

Table 1-4 Information acquired in the operation log and reference log

(Legend)

Y: Messages are displayed or log data is acquired.

N: Messages are not displayed, and log data is not acquired.

--: Not applicable.

1.2.3 Format of operation logs

Messages that are in operation are saved within the device. When log data is stored, it is formatted with a log type for output as operation messages to the screen.

(1) Device failure and event information

The following shows the format of device failure and event information.

Figure 1-2 Format of switch failure and event information

 $\frac{\text{kkk}}{1} \frac{\text{mm/dd hh: mm: ss}}{2} \frac{\text{ee}}{3} \frac{\text{kkkkkkk}}{4} \frac{\text{[iii...ii]}}{5} \frac{\text{xxxxxxx}}{6}$

ttt-ttt 7

- 1. Log type: Displays a three-letter identification code assigned to each provided functionality.
 - ERR: Failure information for a switch event location
 - EVT: Event information for a switch event location
- 2. Time: Displays the month, day, hour, minute, and second when the event occurred.
- 3. Event level
- 4. Event location or functionality
- 5. Event interface ID. Whether this information is displayed depends on the event location.
- 6. Message ID
- 7. Message text

1.2.4 Format of the reference log

Error information and event information related to the switch are saved as operation logs in the order they occurred, and are also saved as reference logs. Reference logs categorizes the information by message ID, and then records the event time of the first and last occurrences, and total number of occurrences.

The following figure describes the format of the reference log.

Figure 1-3 Format of the reference log

<u>ee</u>	<u>kkkkkkkk</u>	<u>[iii…iii]</u>	xxxxxxx	x
1	2	3	4	
m	n∕dd hh:mm:s	<u>ss</u> <u>mm∕ddh</u>	<u>h: mm: ss</u>	<u>ccc</u>
	5	6		7

- 1. Event level (E9 to E3)
- 2. Event location or functionality
- 3. Event interface ID. Whether this information is displayed depends on the event location.
- 4. Message ID
- 5. Occurrence date and time of the last applicable error
- 6. Occurrence date and time of the first applicable error
- 7. Number of occurrences of the applicable error

1.2.5 Code information for logs

(1) Log type

The following log types are given to the operation log entries:

- Command operation by the user and its result
- Operation information output by the switch
- Error information

The following table describes the correspondence between information acquired as logs and log types. Within the operation logs, event level is given to device failure and event information and reference logs.

 Table 1-5 Correspondence between the information acquired as a log and log type

Information to be acquired	Log type	Description	Event level
Input command	KEY	Commands entered by an operator from an operation terminal	
Command response messages	RSP	Messages output by a switch in response to commands	
Device failure and event information	failure and nformationERRFailure information for a switch event location		E9 to E5
	EVT	Event information for a switch event location	E4, E3, R8 to R5

(Legend) --: Not applicable.

(2) Event level

Events in the reference log are classified into seven levels depending on their severity. The following table describes the event levels and their contents.

Event level	Display contents (type)	Description
9	E9 (fatal error)	This error stops the whole system. (The system might restart or operation might stop.)
8	E8 (critical error) R8 (recover from critical error)	 This error stops a fan, the power, or part of the switch. If this error is due to a hardware error, restarting the applicable hardware is involved.
7	E7 (temperature failure) R7 (recover from temperature failure)	This error is information related to a temperature failure.
6	E6 R6	Not used
5	E5 R5	Not used
4	E4 (network error)	This error is information related to lines (LAN).
3	E3 (warning)	This error is a warning.

 Table 1-6 Event levels and their contents

Note that when an error whose event level is from E9 to E5 is recovered, a relevant operation message whose event level is from R8 to R5 is output. Also, when an error from E9 to E5 occurs, the operation log and reference log are automatically saved to internal flash memory.

(3) Event location

The reference log uses an ID to indicate the location or the functionality of the event that occurred. The following table describes the event locations.

Table 1-7 E	vent locations
-------------	----------------

ID	Event location or functionality
CONSOLE	Console operation
SESSION	Login or logout operation for Telnet, console, or FTP
TELNETC	Login or logout operation by a Telnet client
STP	Spanning Tree functionality
GSRP	GSRP aware functionality
VLAN	VLAN control functionality

1.2 Checking the log

ID	Event location or functionality
VLAN (Ring Protocol)	Ring Protocol functionality
VLAN (CFM)	Connectivity Fault Management functionality
SNOOP	IGMP/MLD snooping functionality
DHCP	DHCP server functionality
LINKAGG	Link aggregation functionality
DHCPSN	DHCP snooping functionality
IP	IP control functionality
SNMP	SNMP functionality
KERNEL	Software controller
NTP	NTP client functionality
802.1X	IEEE 802.1X authentication functionality
RADIUS	RADIUS authentication functionality
CERTIF	MAC-based authentication functionality and Web authentication functionality
HTTPD	Web authentication functionality (Web server)
QOS	QoS or transmission control functionality
FIELD	Filtering functionality
SWOL	Secure Wake-on-LAN functionality
ECO	Power saving functionality
SML	SML (Split Multi Link)
PORT	Port control functionality
SFP	SFP module control functionality
FABRIC	Switching driver controller
ULR	Uplink redundancy functionality
ROM	ROM diagnosis
RTC	RTC functionality
THERMO	Temperature sensor functionality

ID	Event location or functionality		
SDCARD	SD card control functionality		
FAN	Fan controller		
LED	LED functionality		
SVP	Service processor monitoring functionality		
PWRSUP	Power supply controller		
PCI	PCI bus controller		
RAM	RAM diagnosis		
PS	PS control functionality		

(4) Event interface ID

This ID indicates the location of the interface where the event occurred. The following table describes the display formats of the interface ID.

Table 1-8 Display format of the interface ID

Display format of the ID	Interface
GigabitEthernet 0/1	10/100/1000BASE-T or 1000BASE-X part
TenGi gabi tEthernet 0/25	10GBASE-R part

(Legend)

1: Port number

(5) Message identifier

This information contains a code that indicates the contents of the event that occurred. For details about this information, see 2. Device Failure and Event Information.

(6) Time of the first and last occurrences of the applicable event

This information indicates the time of the first and last occurrences of the applicable event.

(7) Number of occurrences of the applicable event

This information indicates the total number of occurrences of the applicable event if repeated. The total is the number of event occurrences counting from the start of log acquisition to the present. If the applicable event occurs 255 times or more, the number of occurrences will be indicated as 255.

1.2.6 Automatically saving and viewing logs

(1) Saving logs automatically

The following describes the occasions when the operation logs and reference logs are automatically saved to internal flash memory and the destination to which they are saved.

Occasions when logs are automatically saved:

- 1. When a critical error with an event level from E9 to E5 occurs
- 2. When the device is restarted by using the reload command
- 3. When login or logout is performed
- 4. When the device is restarted accompanying ppupdate
- 5. When the device enters sleep mode

Table 1-9 Location of saved logs

Log type	Location of internal memory	
Operation log	Logs are saved to the internal flash memory of the Switch	
Reference log	Logs are saved to the internal flash memory of the Switch	

(2) Viewing logs

Operation logs and reference logs can be referenced by using the ${\bf show}\ logging$ command.

(3) Acquiring logs from remote hosts

Logs can be acquired from remote hosts by using the sysl og output functionality. However, the sysl og output functionality might lose log information due to reasons such as frame loss.

For details about the sysl og output functionality, see *Logging facility* in the manual *Configuration Command Reference*.

2. Device Failure and Event Information

This chapter describes the contents of device failure and event information. All messages for device failure and event information are output to the operation terminal screen. Depending on the error severity or the event contents, the information is classified into seven event levels, ranging from E3 to E9.

2.1 Configuration
2.2 Login
2.3 Protocol
2.4 Switch parts
2.5 Port
2.6 Device

2.1 Configuration

2.1.1 Event location = CONSOLE

The following tables describe device failure and event information when the event location is **CONSOLE**.

• E3 information

Table 2-1 Device-related E3 information when the event location is CONSOLE

No.	Event level	Event location	Message ID	Message text
	Descripti	ion		
1	E3	CONSOLE	01800000	This system started with the default configuration file. because the startup configuration file is not found or broken.
	 A startup configuration file could not be read. Alternatively, the startup configuration file was empty [Action] 1. The startup configuration file might have been deleted by the erase startup-config operation command. Reconfigure the startup configuration by using configuration commands, save the configuration into the startup configuration file, and then restart the switch. 2. The startup configuration file in the internal flash memory might be corrupted. After deleting the startup configuration file by using the erase startup-config operation command, reconfiguration file by using configuration commands, save the configuration by using configuration commands, save the configuration file by using configuration commands, save the configuration by using configuration commands, save the configuration into the startup configuration file, and then restart the switch. 			ad. Alternatively, the startup configuration file was empty. have been deleted by the erase startup-config he startup configuration by using configuration hto the startup configuration file, and then restart the internal flash memory might be corrupted. After deleting g the erase startup-config operation command, by using configuration commands, save the uration file, and then restart the switch.
2	E3	CONSOLE	01800002	Can not execute config command.
	The show running-config operation command could not be executed. [Action] Re-execute the command. If there is no change after re-execution of the command, restart the switch.			
3	E3	CONSOLE	01800003	Configuration command syntax error. line <pre>// configuration command syntax error. line</pre>
	A comman command command <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i>command</i> <i></i>	nd entry error oc d entry error occu d. <i>hber</i> >: The numb <i>ntax</i> >: Entered c d settings on the - conf i g opera	ccurred because urred because < per of the line wh ommand e target line in th tion command.	e of < <i>error syntax></i> on line < <i>line number></i> . Alternatively, a <i>error syntax></i> on line < <i>line number></i> is not a configuration here the error occurred e configuration displayed by executing the show

No.	Event level	Event location	Message ID	Message text
	Descript	ion		
4	E3	CONSOLE	01800004	This system started with an emergency configuration file, because the startup configuration file is broken.
	 A startup configuration file is corrupted. [Action] 1. If the configuration file has a backup file saved, use the copy command to apply the sav file to the startup configuration file. 2. If you have not saved the configuration file, create a new configuration file. If this message is still collected, the flash memory might be corrupted. 			file saved, use the copy command to apply the saved ion file, create a new configuration file. memory might be corrupted.

• E9 information

Table 2-2 Device-related E9 information when the event location is CONSOLE

No.	Event level	Event location	Message ID	Message text
	Description	ı		
1	E9	CONSOL E	01800001	Software error.
	The semaphore ID processing failed during initialization when the switch started. [Action] None. The switch automatically restarts.			

2.2 Login

2.2.1 Event location = SESSION

The following tables describe device failure and event information when the event location is SESSI ON.

• E3 information

Table 2-3 Device-related E3 information when the event location is SESSION

No.	Event level	Event location	Message ID	Message text
	Description	ı		
1	E3	SESSION	00e00000	Authenti cati on l ogi n xxxxxxx RADI US accept.
	RADIUS authentication succeeded. xxxxxxxx: User name [Action] None.			
2	E3	SESSION	00e00001	Authenti cati on l ogi n xxxxxxx RADI US rej ect.
	 RADIUS authentication failed. xxxxxxx: User name [Action] 1. There might have been an unauthorized access to the Switch from a remote host permitted by the configuration. Check the operating status of the remote host. 2. This log data is collected even when a legitimate user executes an incorrect operation (such as incorrect password entry) during login. Therefore, although this log data has been collected, the operating status of the remote host might be correct. 3. Check the RADIUS server setting. 			
3	E3	SESSION	00e00002	Authentication login xxxxxxx RADIUS no response.
	 During RADIUS authentication, the RADIUS server did not respond. <i>xxxxxxxx</i>: User name [Action] 1. Check the configuration to make sure that the RADIUS server IP address is correct. 2. Check the RADIUS server configuration to make sure that the RADIUS server port numbe correct. 			DIUS server did not respond. ure that the RADIUS server IP address is correct. ration to make sure that the RADIUS server port number is
4	E3	SESSION	00e00003	Authentication login xxxxxxx RADIUS server configuration is not defined.
	A RADIUS s xxxxxxx U [Action] Check that s	server has no lser name a RADIUS co	t been set for F nfiguration is s	ADIUS authentication.

No.	Event level	Event location	Message ID	Message text	
	Description				
5	E3	SESSION	00e00004	Authentication login xxxxxxx RADIUS over request.	
	During RADIUS authentication, the maximum number (256) of simultaneous transmissions to the RADIUS server was exceeded. xxxxxxxx: User name [Action] The load resulting from the RADIUS authentication request is high. If the problem is temporary, log in again. If the problem occurs repeatedly, review the system configuration.				
6	E3	SESSION	00e00006	Authenti cati on l ogi n xxxxxxx RADI US i nval i d server specified.	
An internal error occurred during RADIUS authentication. xxxxxxx: User name [Action] None.			JS authentication.		
7	E3	SESSION	00e00007	Authentication login xxxxxxx RADIUS return error. code = xx	
	An internal error occurred during RADIUS authentication. xxxxxxxx: User name code = xx: Cause code (information for vendor analysis) [Action] None.			JS authentication. or vendor analysis)	
8	E3	SESSION	00e00008	Authentication login xxxxxxx RADIUS time out.	
A timeout occurred during RADIUS authentication. xxxxxxx: User name [Action] Log in again.			nentication.		
9	E3	SESSION	00e00100	'users file' is corrupted. Started by default.	
	users file is corrupted. Startup was performed as the default user. [Action] None.			performed as the default user.	
10	E3	SESSION	00e00101	Failed to write 'users file'.	
	Writing to the users file file failed.[Action]Execute the format flash operation command.				

No.	Event level	Event location	Message ID	Message text	
	Description				
11	E3	SESSION	00e02000	Unknown host address <ip address=""></ip>	
	 An attempt to connect to the Switch via Telnet or FTP from <i><ip address=""></ip></i> was not permitted. <i><ip address=""></ip></i>: The IPv4 or IPv6 address [Action] 1. Unauthorized access (access from a remote host not authorized in the configuration) to the Switch might have been attempted. Check the remote access permissions for <i><ip address=""></ip></i>. 2. If remote access from <i><ip address=""></ip></i> is permitted, the configuration might be incorrect. Check the configuration settings. 3. If you want to permit remote access from <i><ip address=""></ip></i>, set the access permissions in the configuration. 				
12	E3	SESSION	00e02001	Login incorrect xxxxxxx.	
	 A login attempt failed. xxxxxxx: User name [Action] 1. There might have been an unauthorized access (failed account or password authentication) to the Switch from a remote host permitted at the console or in the configuration. Check the operating status of the permitted remote host from the console or in the configuration. 2. This log data is collected even when a legitimate user executes an incorrect operation during login. Therefore, although this log data has been collected, the operating status of the remote host might be correct. 3. Check if the account was already registered for the Switch by using the adduser operation command. (How to check: Use the show users operation command to check the information that has been registered.) 				
13	E3	SESSION	00e02002	Login refused for too many users logged in.	
	 An attempt to connect via Telnet or FTP was refused because too many users are logged in [Action] 1. Check the number of users who are currently logged in. 2. If necessary, in the configuration increase the limit for the number of users who can logged in. 				
14	E3	SESSION	00e02003	Login xxxxxxx from console.	
	A user (xxxxxxx) logged in via RS232C (console). xxxxxxxx: User name [Action] None.				
15	E3	SESSION	00e02003	Login xxxxxxx from <ip address=""> (vtynn).</ip>	
	A user (xxxxxxx from <ip address="">) logged in via Telnet (vtynn). xxxxxxx: User name <ip address="">: The IPv4 or IPv6 address nn: 0 to 15 [Action] None.</ip></ip>				

No.	Event level	Event location	Message ID	Message text		
	Description					
16	E3	SESSION	00e02003	Login xxxxxxx from <ip address=""> (ftp).</ip>		
	A user (xxx xxxxxxx: U < <i>ip address</i> [Action] None.	xxxxx from < Iser name s>: The IPv4 c	<i>ip address></i>) lo r IPv6 address	gged in via FTP.		
17	E3	SESSION	00e02004	Logout xxxxxxx from consol e.		
	An RS232C (console) user (xxxxxxx) logged out. xxxxxxxx: User name [Action] None.					
18	E3	SESSION	00e02004	Logout xxxxxxx from <ip address=""> (vtynn)</ip>		
	A Telnet (vty <i>nn</i>) user (xxxxxxx from < <i>ip</i> address>) logged out. xxxxxxxx: User name < <i>ip</i> address>: The IPv4 or IPv6 address <i>nn</i> : 0 to 15 [Action] None.			<i>p address></i>) logged out.		
19	E3	SESSION	00e02004	Logout xxxxxxx from <ip address=""> (ftp).</ip>		
	An FTP user (xxxxxxx from <ip address="">) logged out. xxxxxxx: User name <ip address="">: The IPv4 or IPv6 address [Action] None.</ip></ip>					

• E9 information

Table 2-4 Device-related E9 information when the event location is SESSION

No.	Event level	Event location	Message ID	Message text
	Description	ı		
1	E9	SESSION	00e00002	Authentication login xxxxxxx RADIUS message queue error. errno = xx
	An internal error (message queue error response) occurred during RADIUS authentication. xxxxxxxx: User name errno = xx: Information for vendor analysis [Action] None. The switch automatically restarts.			

2.2.2 Event location = TELNETC

The following table describes device failure and event information when the event location is **TELNETC**.

• E3 information

Table 2-5 Device-related E3 information when the event location is TELNETC

No.	Event level	Event location	Message ID	Message text		
	Description					
1	E3	TELNETC	01460101	close session <ip address=""> (Serial)</ip>		
	An RS232C <i><ip address<="" i=""> [Action] None.</ip></i>	An RS232C (serial) user forcibly closed a session. < <i>ip address</i> >: The IPv4 or IPv6 address [Action] None.				
2	E3	TELNETC	01460102	close session <ip address=""> (Telnet)</ip>		
	A Telnet user forcibly closed a session. < <i>ip address</i> >: The IPv4 or IPv6 address [Action] None.					
3	E3	TELNETC	01460103	disconnected of logout <i><ip address=""></ip></i> (Serial)		
	An RS232C (serial) user logged out normally from a Telnet client session. <i><ip address=""></ip></i> : The IPv4 or IPv6 address [Action] None.					
4	E3	TELNETC	01460104	disconnected of logout <i><ip< i=""> address> (Tel net)</ip<></i>		
	A Telnet user logged out normally from a Telnet client session. < <i>ip address</i> >: The IPv4 or IPv6 address [Action] None.					
5	E3	TELNETC	01460105	socket open error		
	A connection with the host failed. [Action] Log in again. If this error occurs repeatedly, restart the switch.					
6	E3	TELNETC	01460106	socket option set error		
A connection with the host failed. [Action] Log in again. If this error occurs repeatedly, restart the switch.			switch.			

No.	Event level	Event location	Message ID	Message text	
	Description				
7	E3	TELNETC	01460107	connection time out	
	A connection failed because of a timeout. [Action] Check whether the remote switch permits login via Telnet, and then log in again. If this error occurs repeatedly, restart the switch.				
8	E3	TELNETC	01460108	rejection echo option of server	
	An echo request was rejected. [Action] If this error occurs repeatedly, restart the switch.				
9	E3	TELNETC	01460109	rejection full duplex option of server	
	A full-duplex communication request was rejected. [Action] If this error occurs repeatedly, restart the switch.				
10	E3	TELNETC	0146010a	disconnected <ip address=""> (Serial)</ip>	
	An RS232C (serial) user closed a Telnet client session. < <i>ip address</i> >: The IPv4 or IPv6 address [Action] None.				
11	E3	TELNETC	0146010b	disconnected <ip address=""> (Tel net)</ip>	
	A Telnet user closed a Telnet client session. < <i>ip address</i> >: The IPv4 or IPv6 address [Action] None.				
12	E3	TELNETC	01460111	<pre>connected to <ip address=""> (Serial)</ip></pre>	
An RS232C (serial) user connected normally to a Telnet client login. < <i>ip address</i> >: The IPv4 or IPv6 address [Action] None.			ally to a Telnet client login.		
13	E3	TELNETC	01460112	connected to <ip address=""> (Tel net)</ip>	
	A Telnet user connected normally to a Telnet client login. < <i>ip address</i> >: The IPv4 or IPv6 address [Action] None.				

No.	Event level	Event location	Message ID	Message text		
	Description	ı				
14	E3	TELNETC	01460113	<pre>connection network unreachable <ip address=""></ip></pre>		
	 A connection with the host failed. <i>ip address</i>>: The IPv4 or IPv6 address [Action] Check whether the IP address of the remote switch is correct. Check whether pinging reaches the remote switch. 					
15	E3	TELNETC	01460114	<pre>connection no route to host <ip address=""></ip></pre>		
	 A connection with the host failed. <i><ip address=""></ip></i>: The IPv4 or IPv6 address [Action] 1. Check whether the IP address of the remote switch is correct. 2. Check whether pinging reaches the remote switch. 					
2.3 Protocol

2.3.1 Event location = STP

The following tables describe device failure and event information when the event location is **STP**.

• E3 information

Table 2-6 Device-related E3 information when the event location is STP

No.	Event level	Event location	Message ID	Message text		
	Description					
1	E3	STP	00100002	(<i><mode></mode></i>) : This bridge becomes the Root Bridge.		
	The Switch <mode>: S • si ng • PVST [Action] None.</mode>	has become Spanning Tree I e: Single Sp +: VLAN <vl< th=""><th>e the root bridg e type panning Tree AN ID>: PVST</th><th>e. + Spanning Tree Protocol and VLAN ID</th></vl<>	e the root bridg e type panning Tree AN ID>: PVST	e. + Spanning Tree Protocol and VLAN ID		
2	E3	STP	00100003	(<i><mode></mode></i>) : This bridge becomes the Designated Bridge.		
	The Switch has become the designated bridge. <mode>: Spanning Tree type single: Single Spanning Tree PVST+: VLAN <vlan id="">: PVST+ Spanning Tree Protocol and VLAN ID</vlan> [Action] None. </mode>					
3	E3	STP	00100006	<pre>(<mode>) : Topology change detected - BPDU Timeout detected on the root port().</mode></pre>		
A BPDU timeout was detected on the root port. <pre><mode>: Spanning Tree type</mode></pre> singl e: Single Spanning Tree PVST+: VLAN /VLAN ID>: PVST+ Spanning Tree Protocol and VLAN ID CI ST: Multiple Spanning Tree (CIST) MST Instance /MSTI ID>: Multiple Spanning Tree (MSTI) and MST instance ID /IF#>: Interface port number [Action] Check the line status.			root port. F+ Spanning Tree Protocol and VLAN ID IST) tiple Spanning Tree (MSTI) and MST instance ID			

No.	Event level	Event location	Message ID	Message text		
	Description					
4	E3	STP	00100007	<pre>(<mode>) : Topology change detected - Topology Change Notification BPDU received on the port().</mode></pre>		
	A BPDU for topology change was received. <mode>: Spanning Tree type • si ngl e: Single Spanning Tree • PVST+: VLAN : PVST+ Spanning Tree Protocol and VLAN ID • MST: Multiple Spanning Tree : Interface port number [Action] Check the line status.</mode>					
5	E3	STP	00100011	<pre>(<mode>) : Spanning Tree Protocol enabled - BPDU received on the Port Fast().</mode></pre>		
	A port has become subject to the Spanning Tree Protocol because the port was set with the Port Fast functionality and received a BPDU. <mode>: Spanning Tree type • si ngl e: Single Spanning Tree • PVST+: VLAN <vlan id="">: PVST+ Spanning Tree Protocol and VLAN ID • MST: Multiple Spanning Tree <if#>: Interface port number [Action] Check the line status.</if#></vlan></mode>			nning Tree Protocol because the port was set with the a BPDU. + Spanning Tree Protocol and VLAN ID		
6	E3	STP	00100012	<pre>(<mode>) : Topology change detected - BPDU Timeout detected on the root port(ChGr: <channel group#="">).</channel></mode></pre>		
A BPDU timeout was detected on the root port. <pre><mode>: Spanning Tree type si ngl e: Single Spanning Tree PVST+: VLAN <vlan id="">: PVST+ Spanning Tree Protocol and VLAN ID CI ST: Multiple Spanning Tree (CIST) MST I nst ance <msti id="">: Multiple Spanning Tree (MSTI) and MST instance ID </msti></vlan></mode></pre> Channel group#>: Channel group number [Action] Check the line status.				root port. + Spanning Tree Protocol and VLAN ID IST) tiple Spanning Tree (MSTI) and MST instance ID mber		

No.	Event level	Event location	Message ID	Message text			
	Descriptic	on					
7	E3	STP	00100013	<pre>(<mode>) : Topology change detected - Topology Change Notification BPDU received on the port(ChGr: <channel group#="">).</channel></mode></pre>			
	A BPDU fo <mode>: S • si ng • PVST • MST: <channel g<br="">[Action] Check the</channel></mode>	r topology ch Spanning Tree I e: Single Sp +: VLAN < <i>VL</i> Multiple Spar group#>: Cha line status.	ange was rece e type banning Tree <i>AN ID</i> >: PVST nning Tree nnnel group nu	eived. + Spanning Tree Protocol and VLAN ID mber			
8	E3	E3 STP 00100014 (<i><mode></mode></i>) : Spanning Tree Protocol enabled - BPDU received on the Port Fast(ChGr: <i><channel< i=""> group#>).</channel<></i>					
	A port has become subject to the Spanning Tree Protocol because the port was set with the PortFast functionality and received a BPDU. <mode>: Spanning Tree type • si ngl e: Single Spanning Tree • PVST+: VLAN <vlan id="">: PVST+ Spanning Tree Protocol and VLAN ID • MST: Multiple Spanning Tree <channel group#="">: Channel group number [Action] Check the line status.</channel></vlan></mode>						
9	E3	STP	00100022	: Cleared MAC Address Table entry.			
	A MAC address table entry was cleared because a BPDU for topology change was received. [Action] None.						
10	E3	STP	00100023	<pre>(<mode>) : Topology change detected - BPDU Timeout detected on the alternate port().</mode></pre>			
	A BPDU timeout was detected on the alternate port. <pre><mode>: Spanning Tree type</mode></pre> singl e: Single Spanning Tree PVST+: VLAN <pre>VLAN ID>: PVST+ Spanning Tree Protocol and VLAN ID</pre> CI ST: Multiple Spanning Tree (CIST) MST Instance MST Instance MST Instance ID <pre>//F#>: Interface port number</pre> [Action] Check the line status.						

No.	Event level	Event location	Message ID	Message text		
	Descriptio	'n				
11	E3	STP	00100024	<pre>(<mode>) : Topology change detected - BPDU Timeout detected on the backup port().</mode></pre>		
	 A BPDU timeout was detected on the backup port. <i>cmode></i>: Spanning Tree type singl e: Single Spanning Tree PVST+: VLAN VLAN ID>: PVST+ Spanning Tree Protocol and VLAN ID CI ST: Multiple Spanning Tree (CIST) MST Instance MST Instance MST Instance ID 					
12	E3	STP	00100025	<pre>(<mode>) : Topology change detected - BPDU Timeout detected on the alternate port(ChGr: <channel group#="">).</channel></mode></pre>		
	A BPDU tir <mode>: S si ng PVST CI ST AST <channel g<br="">[Action] Check the</channel></mode>	A BPDU timeout was detected on the alternate port. <mode>: Spanning Tree type • si ngl e: Single Spanning Tree • PVST+: VLAN <vlan id="">: PVST+ Spanning Tree Protocol and VLAN ID • CI ST: Multiple Spanning Tree (CIST) • MST Instance <msti id="">: Multiple Spanning Tree (MSTI) and MST instance ID <channel group#="">: Channel group number [Action] Check the line status.</channel></msti></vlan></mode>				
13	E3	STP	00100026	<pre>(<mode>) : Topology change detected - BPDU Timeout detected on the backup port(ChGr: <channel group#="">).</channel></mode></pre>		
	A BPDU timeout was detected on the backup port. <pre><mode>: Spanning Tree type singl e: Single Spanning Tree PVST+: VLAN : PVST+ Spanning Tree Protocol and VLAN ID CI ST: Multiple Spanning Tree (CIST) MST Instance </mode></pre> MST Instance MST Instance ID Channel group#>: Channel group number [Action] Check the line status.					
14	E3	STP	00100027	(MST) : This bridge becomes the CIST Root Bridge.		
	The Switch [Action] None.	The Switch has become the CIST root bridge. [Action] None.				

No.	Event level	Event location	Message ID	Message text			
	Descriptio	Description					
15	E3	STP	00100028	(CIST) : This bridge becomes the CIST Regional Root Bridge.			
	The Switch [Action] None.	has become	e the CIST regi	ional root bridge.			
16	E3	STP	00100029	(MST Instance) : This bridge becomes the MSTI Regional Root Bridge.			
	The Switch < <i>MSTI ID</i> > [Action] None.	has become : MST instan	e the MSTI reg ce ID	ional root bridge.			
17	E3	STP	00100031	(CIST) : This bridge becomes the CIST Regional Designated Bridge.			
	The Switch has become the CIST regional designated bridge. [Action] None.						
18	E3	STP	00100032	(MST Instance /MST/ID) : This bridge becomes the MSTI Regional Designated Bridge.			
	The Switch has become the MSTI regional designated bridge. < <u>MSTI ID</u> >: MST instance ID [Action] None.						
19	E3	STP	00100042	<pre>(<mode>) : Topology change detected - BPDU Timeout detected on the root port(VLID: <link ID>).</link </mode></pre>			
	A BPDU timeout was detected on the root port. <mode>: Spanning Tree type • si ngl e: Single Spanning Tree • PVST+: VLAN <vlan id="">: PVST+ Spanning Tree Protocol and VLAN ID • CI ST: Multiple Spanning Tree (CIST) • MST Instance <msti id="">: Multiple Spanning Tree (MSTI) and MST instance ID <link id=""/>: Virtual link ID [Action] Check the line status.</msti></vlan></mode>						

No.	Event level	Event location	Message ID	Message text		
	Description					
20	E3	STP	00100043	<pre>(<mode>) : Topology change detected - Topology Change Notification BPDU received on the port(VLID: <link id=""/>).</mode></pre>		
	A BPDU fo <mode>: S sing PVST CIST MST <link id=""/>: [Action] Check the</mode>	r topology ch Spanning Tree I e: Single Sp +: VLAN < <i>VL</i> : Multiple Spa I nstance < Virtual link IE line status.	ange was rece e type panning Tree <i>AN ID</i> >: PVST anning Tree (C <i>MSTI ID</i> >: Mul	eived. F+ Spanning Tree Protocol and VLAN ID IST) Itiple Spanning Tree (MSTI) and MST instance ID		
21	E3	STP	00100044	<pre>(<mode>) : Topology change detected - BPDU Timeout detected on the alternate port(VLID: <link id=""/>).</mode></pre>		
	A BPDU timeout was detected on the alternate port. <mode>: Spanning Tree type • si ngl e: Single Spanning Tree • PVST+: VLAN <vlan id="">: PVST+ Spanning Tree Protocol and VLAN ID • CI ST: Multiple Spanning Tree (CIST) • MST Instance <msti id="">: Multiple Spanning Tree (MSTI) and MST instance ID <link id=""/>: Virtual link ID [Action] Check the line status.</msti></vlan></mode>					
22	E3	STP	00100045	<pre>(<mode>) : Topology change detected - BPDU Timeout detected on the backup port(VLID: <link id=""/>).</mode></pre>		
	A BPDU tir <mode>: S sing PVST CIST MST <link id=""/>: [Action] Check the</mode>	neout was de panning Tree I e: Single Sp +: VLAN < <i>VL</i> : Multiple Spa Instance < Virtual link IE line status.	etected on the e type panning Tree AN ID>: PVST anning Tree (C MSTI ID>: Mul	backup port. 7+ Spanning Tree Protocol and VLAN ID IST) Itiple Spanning Tree (MSTI) and MST instance ID		

• E4 information

Table 2-7	Device-related	d E4 information	when the	event location	is STP
	Borroo rolato			oronic loodallor	

No.	Event level	Event location	Message ID	Message text
	Descriptio	on		
1	E4	STP	00100008	<pre>(<mode>) : Port status becomes Forwarding on the port().</mode></pre>
	The port of <mode>: S sing PVST CIST MST : Inte [Action] None.</mode>	hanged to the Spanning Tree I e: Single Sp +: VLAN < <i>VL</i> : Multiple Spa I nstance < rface port nu	forwarding sta e type banning Tree <i>AN ID</i> >: PVST anning Tree (C <i>MSTI ID</i> >: Mul mber	atus. + Spanning Tree Protocol and VLAN ID IST) tiple Spanning Tree (MSTI) and MST instance ID
2	E4	STP	00100009	<pre>(<mode>) : Port status becomes Blocking on the port().</mode></pre>
	The port changed to the blocking status. <mode>: Spanning Tree type • si ngl e: Single Spanning Tree • PVST+: VLAN : PVST+ Spanning Tree Protocol and VLAN ID • CI ST: Multiple Spanning Tree (CIST) • MST Instance : Multiple Spanning Tree and MST instance ID : Interface port number [Action] None.</mode>			
3	E4	STP	00100010	<pre>(<mode>) : Port status becomes Down - BPDU received on the BPDU GUARD port().</mode></pre>
	The port was placed in the down status because it was set with the BPDU guard functionality and received a BPDU. <mode>: Spanning Tree type • si ngl e: Single Spanning Tree • PVST+: VLAN <vlan id="">: PVST+ Spanning Tree Protocol and VLAN ID • MST: Multiple Spanning Tree • MST: Multiple Spanning Tree • MST: Multiple Spanning Tree </vlan></mode>			

No.	Event level	Event location	Message ID	Message text		
	Descriptio	on				
4	E4	STP	00100015	<pre>(<mode>) : Port status becomes Forwarding on the port (ChGr : <channel group#="">).</channel></mode></pre>		
	The port changed to the forwarding status. <mode>: Spanning Tree type single: Single Spanning Tree PVST+: VLAN VLAN ID>: PVST+ Spanning Tree Protocol and VLAN ID CI ST: Multiple Spanning Tree (CIST) MST Instance : Multiple Spanning Tree (MSTI) and MST instance ID : Channel group number [Action] None.</mode>					
5	E4	STP	00100016	<pre>(<mode>) : Port status becomes Blocking on the port(ChGr: <channel group#="">).</channel></mode></pre>		
	The port changed to the blocking status. <mode>: Spanning Tree type • single: Single Spanning Tree • PVST+: VLAN <vlan id="">: PVST+ Spanning Tree Protocol and VLAN ID • MST Instance <msti id="">: Multiple Spanning Tree (MSTI) and MST instance ID <channel group#="">: Channel group number [Action] None.</channel></msti></vlan></mode>					
6	E4	STP	00100017	<pre>(<mode>) : Port status becomes Down - BPDU received on the BPDU GUARD port(ChGr: <channel group#="">).</channel></mode></pre>		
	The port was placed in the down status because it was set with the BPDU guard functionality and received a BPDU. <mode>: Spanning Tree type single: Single Spanning Tree PVST+: VLAN : PVST+ Spanning Tree Protocol and VLAN ID MST: Multiple Spanning Tree <channel group#="">: Channel group number [Action] Check the line status.</channel></mode>					

No.	Event level	Event location	Message ID	Message text	
	Descriptio	on	1		
7	E4	STP	00100037	<pre>(<mode>) : Port status becomes Blocking on the port(), because IEEE 802.1Q Tagged BPDU was received from the port which is not trunk port.</mode></pre>	
	Even though there was a setting (using an Unt agged frame) for an access port, protocol port, MAC port, the switch received a BPDU with an IEEE 802.1Q tag attached. Because of this, the port was placed in the blocking status. <mode>: Spanning Tree type • PVST+: VLAN <vlan id="">: PVST+ Spanning Tree Protocol and VLAN ID <if#>: Interface port number [Action] Check the settings of the partner switch.</if#></vlan></mode>				
8	E4	STP	00100038	<pre>(<mode>) : Port status becomes Blocking on the port(ChGr: <channel group#="">), because IEEE 802.1Q Tagged BPDU was received from the port which is not trunk port.</channel></mode></pre>	
 Even though there was a setting (using an Unt agged frame) for an access port, protocol p MAC port, the switch received a BPDU with an IEEE 802.1Q tag attached. Because of this port was placed in the blocking status. <i>emode</i>>: Spanning Tree type PVST+: VLAN PVST+: VLAN VLAN ID>: PVST+ Spanning Tree Protocol and VLAN ID <i>Channel group#</i>>: Channel group number [Action] Check the settings of the partner switch. 				g an Untagged frame) for an access port, protocol port, or J with an IEEE 802.1Q tag attached. Because of this, the F+ Spanning Tree Protocol and VLAN ID mber	
9	E4	STP	00100039	: Exceeded the number of the maximum spanning tree.	
	The number of trees exceeds the maximum capacity of the Spanning Tree Protocol. No more trees can be added. [Action] Either review the network configuration, or use a Single Spanning Tree or Multiple Spanning Tree. Note, however, that if multiple VLANs are used, this log data might have been collected at startup. If PVST+ is not being used, no action is required.				

No.	Event level	Event location	Message ID	Message text		
	Description					
10	E4	STP	00100040	<pre>(<mode>) : Port status becomes Blocking - BPDU that priority is high was received on the ROOT GUARD port().</mode></pre>		
The port was placed in the blocking status because it was set with the root guard functionality received a high-priority BPDU. <i>mode</i> >: Spanning Tree type single : Single Spanning Tree PVST+: VLAN <i>VLAN ID</i> >: PVST+ Spanning Tree Protocol and VLAN ID CIST : Multiple Spanning Tree (CIST) MST Instance <i>MSTI ID</i> >: Multiple Spanning Tree (MSTI) and MST instance ID <i>IF#</i> >: Interface port number [Action] Check the settings of the partner switch.				atus because it was set with the root guard functionality and T+ Spanning Tree Protocol and VLAN ID IST) Itiple Spanning Tree (MSTI) and MST instance ID		
11	E4	STP	00100041	<pre>(<mode>) : Port status becomes Blocking - BPDU that priority is high was received on the ROOT GUARD port(ChGr: <channel group#="">).</channel></mode></pre>		
	The port wareceived a <mode>: S • si ng • PVST • CI ST • MST <channel g<br="">[Action] Check the</channel></mode>	The port was placed in the blocking status because it was set with the root guard functionality and received a high-priority BPDU. <mode>: Spanning Tree type si ngl e: Single Spanning Tree PVST+: VLAN : PVST+ Spanning Tree Protocol and VLAN ID CI ST: Multiple Spanning Tree (CIST) MST I nstance : Multiple Spanning Tree (MSTI) and MST instance ID Channel group#>: Channel group number [Action] Check the settings of the partner switch.</mode>				
12	E4	STP	00100047	<pre>(<mode>) : Port status becomes Forwarding on the port(VLID: <link id=""/>).</mode></pre>		
	The port ch <mode>: S sing PVST CIST MST <link id=""/>: [Action] None.</mode>	nanged to the panning Tree I e: Single Sp +: VLAN < <i>VL</i> : Multiple Spa I nstance < Virtual link ID	e forwarding sta e type banning Tree <i>AN ID></i> : PVST anning Tree (C <i>MSTI ID></i> : Mul	atus. + Spanning Tree Protocol and VLAN ID IST) tiple Spanning Tree (MSTI) and MST instance ID		

No.	Event level	Event location	Message ID	Message text		
	Descriptic	on				
13	E4	STP	00100048	<pre>(<mode>) : Port status becomes Blocking on the port(VLID: <link id=""/>).</mode></pre>		
	The port changed to the blocking status. <mode>: Spanning Tree type singl e: Single Spanning Tree PVST+: VLAN VLAN ID>: PVST+ Spanning Tree Protocol and VLAN ID CI ST: Multiple Spanning Tree (CIST) MST I nst ance MST I nst ance MST I nst ance Link ID>: Virtual link ID [Action] None. </mode>					

• E9 information

Table 2-8 Device-related E9 information when the event location is STP

No.	Event level	Event location	Message ID	Message text		
	Description					
1	E9	STP	00100000	<comment></comment>		
	An unexpected error occurred in the Spanning Tree Protocol. <comment>: Cause information (information for vendor analysis) [Action] None. The switch automatically restarts.</comment>					

2.3.2 Event location = GSRP

The following table describes device failure and event information when the event location is GSRP.

• E3 information

Table 2-9 Device-related E3 information when the event location is GSRP

No.	Event level	Event location	Message ID	Message text				
	Descriptio	'n						
1	E3	GSRP	00200015	GSRP aware : MAC Address Table entry cleared, because GSRP flush request received on port <port list="">, GSRP <gsrp group="" id=""> VLAN group <vlan group id> Source MAC address <mac address="">.</mac></vlan </gsrp></port>				
	The MAC a <port list="">: link port.) <gsrp grou<br="">GSRP flush <vlan grou<br="">flush reque <mac addr<br="">request fra [Action] None.</mac></vlan></gsrp></port>	group id> Source MAC address The MAC address table was cleared because a GSRP flush request frame was received. <port list="">: Interface port number (Peer-1 i nk is displayed when the request is received by a peer link port.) <gsrp group="" id="">: GSRP group number (information related to the GSRP switch which sent a GSRP flush request frame) <vlan group="" id="">: VLAN group number (information related to the GSRP switch which sent a GSRP flush request frame) <vlan group="" id="">: VLAN group number (information related to the GSRP switch which sent a GSRP flush request frame) <mac address="">: MAC address (information related to the GSRP switch which sent a GSRP flush request frame) [Action] None.</mac></vlan></vlan></gsrp></port>						

2.3.3 Event location = VLAN

The following tables describe device failure and event information when the event location is VLAN.

• E3 information

Table 2-10 Device-related E3 information when the event location is VLAN

No.	Event level	Event location	Message ID	Message text	
	Descriptic	n			
1	E3	VLAN	00700005	The MAC-VLAN MAC Address entry is replaced from dynamic with Configuration.	
	A dynamic MAC address entry of the MAC VLAN was replaced with the address specified by the mac- address configuration command because the dynamic MAC address entry was the same as the address specified by the mac- address configuration command. [Action] None.				

No.	Event level	Event location	Message ID	Message text
	Descriptio	on	1	
2	E3	VLAN	00700019	MAC Address Table entry cleared, because flush request received on port (<i><port< i=""> <i>number></i>), Source MAC address <i><mac< i=""> <i>address></i>(<i><func name=""></func></i>).</mac<></i></port<></i>
	The MAC a <port number<br="">(Peer-lin Peer link p <mac addr<br=""><func nam<br="">[Action] None.</func></mac></port>	address table ber>: Interfac nk) ort applies or ress>: MAC a e>: Name of	was cleared b e port number nly when the fr ddress of the s the functionalit	because a flush request frame was received. (0/ <i>n</i>), or channel group number (CH: <i>n</i>), or peer link port ame source functionality name is ULR. switch which sent a frame ty which sent a frame
3	E3	VLAN	0070000a	VLAN (<vlan id="">) is auto-registered on the port(<if#>).</if#></vlan>
	A VLAN wa <vlan id:<br="">: Inte [Action] None.</vlan>	as automatica >: VLAN ID rface port nu	ally registered	on the port by automatic VLAN allocation.
4	E3	VLAN	0070000b	VLAN (<vlan id="">) is auto-unregistered on the port(<if#>).</if#></vlan>
	A VLAN was automatically removed from the port by automatic VLAN de-allocation. <vlan id="">: VLAN ID <if#>: Interface port number [Action] None.</if#></vlan>			
5	E3	VLAN	0070000c	VLAN (<i><vlan id=""></vlan></i>) is auto-registered on the channel (<i><channel group#=""></channel></i>).
	A VLAN was automatically registered on the channel by automatic VLAN allocation. < <i>VLAN ID</i> >: VLAN ID < <i>Channel group#</i> >: Channel group number [Action] None.			on the channel by automatic VLAN allocation.
6	E3	VLAN	0070000d	VLAN (<vlan id="">) is auto-unregistered on the channel (<channel group#="">).</channel></vlan>
	A VLAN wa <vlan id:<br=""><channel [Action] None.</channel </vlan>	as automatica >: VLAN ID group#>: Cha	ally removed fr	om the channel by automatic VLAN de-allocation.

No.	Event level	Event location	Message ID	Message text	
	Descriptio	n			
7	E3	VLAN	0070000e	Sum of number of VLAN on ports exceeded capacity.	
	The total number of VLANs for all ports exceeds the device capacity limit. [Action] Change the total number of VLANs to within the capacity limit, and restart the switch.				

• E4 information

Table 2-11 Device-related E4 information when the event location is VLAN

No.	Event level	Event location	Message ID	Message text
	Descriptio	on		
1	E4	VLAN	00700001	VLAN (<i><vlan id=""></vlan></i>) Status is Up.
_	The VLAN < <i>VLAN ID</i> [Action] None.	is in the <mark>Up</mark> s >: VLAN ID	status.	
2	E4	VLAN	00700002	VLAN (<i><vlan id=""></vlan></i>) Status is Down.
	The VLAN is in the Down status. < <i>VLAN ID</i> >: VLAN ID [Action] Check the status of lines that belong to the VLAN.			
3	E4	VLAN	00700003	The MAC-VLAN MAC Address Configuration can't be registered at hardware tables.
	An address set in the f [Action] Review the	s entry specifi nardware tabl e system conf	ed by the MAC e. figuration.	VLAN configuration command mac-address could not be
4	E4	VLAN	00700004	The MAC-VLAN MAC Address entry can't be registered at hardware tables.
	A dynamic [Action] Review the	MAC addres	s entry of the I figuration.	MAC VLAN could not be set in the hardware.

No.	Event level	Event location	Message ID	Message text		
	Description					
5	E4	VLAN	00700007	The MAC Address entry can't be registered at hardware tables(VLAN: < <i>VLAN ID</i> > MAC address: < <i>MAC address</i> >).		
	A MAC add (A hash en < <i>VLAN ID</i> : < <i>MAC add</i> [Action] None.	dress entry co try overflow c >: VLAN ID tress>: MAC a	ould not be set occurred becau address	in the hardware table. use a hash conflict occurred in the MAC address table.)		
6	E4	VLAN	0070000f	The vlan mapping configuration can't be registered at hardware tables.		
	The tag co (A hash en informatior [Action] None.	The tag conversion information could not be set in the hardware table. (A hash entry overflow occurred because a hash conflict occurred in the tag conversion information.) [Action] None.				
7	E4	VLAN	00700100	L2LD : Port() inactivated because of loop detection. from port().		
The active port has been blocked because a loop failure was detected. < <i>IF#></i> : Interface port number [Action] Check the network configuration.			ause a loop failure was detected.			
8	E4	VLAN	00700101	L2LD : Port() inactivated because of loop detection. from ChGr(<channelgroup#>).</channelgroup#>		
The active port has been blocked because a loop failure was detected. : Interface port number : Channel group number [Action] Check the network configuration.			ause a loop failure was detected. mber			
9	E4	VLAN	00700102	L2LD : ChGr(<channel group#="">) inactivated because of loop detection. from port().</channel>		
	The active port has been blocked because a loop failure was detected. < <i>Channel group#</i> >: Channel group number < <i>IF#</i> >: Interface port number [Action] Check the network configuration.					

No.	Event level	Event location	Message ID	Message text
	Descriptio	on		
10	E4	VLAN	00700103	L2LD : ChGr(<channel group#="">) inactivated because of loop detection. from ChGr(<channel group#>).</channel </channel>
	The active < <i>Channel</i> [Action] Check the	port has bee <i>group</i> #>: Cha network conf	n blocked bec annel group nu iguration.	ause a loop failure was detected. Imber
11	E4	VLAN	00700104	L2LD : Port() loop detection. from port ().
	A loop failu < <i>IF#</i> >: Inte [Action] Check the	ure was detec erface port nu network conf	ted. mber iguration.	
12	E4	VLAN	00700105	L2LD : Port() loop detection. from ChGr(<channel group#="">).</channel>
	A loop failu < <i>IF#></i> : Inte < <i>Channel</i> [Action] Check the	ure was detec erface port nu group#>: Cha network conf	ted. mber annel group nu iguration.	ımber
13	E4	VLAN	00700106	L2LD : ChGr(<channelgroup#>) loop detection. from port ().</channelgroup#>
	A loop failu <i><channel< i=""> <i><if< i="">#>: Inte [Action] Check the</if<></i></channel<></i>	ure was detec group#>: Cha erface port nu network conf	ited. annel group nu mber iguration.	Imber
14	E4	VLAN	00700107	L2LD : ChGr(<channel group#="">) loop detection. from ChGr(<channel group#="">).</channel></channel>
	A loop failu <i><channel< i=""> [Action] Check the</channel<></i>	ure was detec group#>: Cha network conf	ted. annel group nu iguration.	Imber
15	E4	VLAN	00700108	L2LD : ChGr(< <i>Channel group#</i> >) activate by automatic restoration of the L2loop detection function.
	A port will < <i>Channel</i> [Action] None.	be activated b group#>: Cha	by the automat annel group nu	tic restoration of the L2 loop detection functionality.

No.	Event level	Event location	Message ID	Message text		
	Descriptio	n				
16	E4	VLAN	00700109	L2LD : Port() activate by automatic restoration of the L2loop detection function.		
	A port will t < <i>IF#</i> >: Inte [Action] None.	be activated t rface port nu	by the automat mber	tic restoration of the L2 loop detection functionality.		
17	E4	VLAN	0070010a	L2LD : L2loop detection frame cannot be sent in the port where capacity was exceeded.		
	exceeding [Action] Decrease to Note, howe startup. When this configuration	 exceeding the capacity limit cannot send L2 loop detection frames exceeds the capacity limit. Forts exceeding the capacity limit cannot send L2 loop detection frames. [Action] Decrease the number of ports sending L2 loop detection frames. Note, however, that if many VLANs are used, this log data might have been collected at the switch startup. When this log is collected, if the show loop detect i on operation command is executed and the configuration value does not exceed the capacity there is no problem. 				
18	E4	VLAN	0070010b	L2LD : Peer-link loop detection. from port ().		
	A loop failure was detected. < <i>IF#></i> : Interface port number [Action] Check the network configuration.					
19	E4	VLAN	0070010c	L2LD : Peer-link loop detection. from ChGr(<channelgroup#>).</channelgroup#>		
	A loop failure was detected. < <u>Channel group#</u> >: Channel group number [Action] Check the network configuration.					

E9 information

able 2-12 Device-related	E9 information when	the event location is	VLAN
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No.	Event level	Event location	Message ID	Message text	
	Descriptio	n			
1	E9	VLAN	00700201	L2LD : SendTask process VLANCallBackSetErr[xx].	
	An error occurred when the VLANCALLBACK functionality was registered. xx: Cause code (information for vendor analysis) [Action] None. The switch automatically restarts.				

2.3.4 Event location = VLAN (Ring Protocol)

The following tables describe device failure and event information when the event location is VLAN (Ring Protocol).

• E3 information

Table 2-13 Device-related E3 information when the event location is VLAN (Ring Protocol)

No.	Event level	Event location	Message ID	Message text			
	Descriptio	'n					
1	E3	VLAN	00700702	AXRP < <i>Ring ID</i> > : cleared MAC address table by receiving flush request frames.			
	A flush con this messa < <i>Ring ID</i> >: [Action] None.	A flush control frame was received, and the MAC address table was cleared. The switch outputs this message when it clears a MAC address table whose output destination is a ring port. < <i>Ring ID</i> : Ring ID [Action] None.					
2	E3	VLAN	00700703	AXRP < <i>Ring ID</i> > : cleared MAC address table by timeout of forwarding-shift-timer.			
	A MAC address table was cleared because of a forwarding-shift-time timeout. The switch outputs this message when a forwarding-shift-time timeout was detected on the transit node and the MAC address table was cleared. <i><ring id=""></ring></i> : Ring ID [Action] None.						

No.	Event level	Event location	Message ID	Message text		
	Descriptio	Description				
3	E3	VLAN	00700771	AXRP < <i>Ring ID</i> > : activated state monitoring.		
	Status monitoring by the Ring Protocol was started. The switch outputs this message when an initialization of the Ring Protocol was completed and the operation mode of the Ring Protocol configuration was set to the master mode. <i>Ring ID</i> : Ring ID [Action]					
4	E3	VLAN	00700772	AXRP < <i>Ring ID</i> > : detected fault recovery by receiving health check frames.		
A failure recovery was detected during status monitoring by the Ring Protocol. The sw this message when it receives a health-check frame at the master node and detects a from a failure. <i><ring id=""></ring></i> : Ring ID [Action] None.			status monitoring by the Ring Protocol. The switch outputs h-check frame at the master node and detects a recovery			
5	E3	VLAN	00700773	AXRP (virtual-link <link id=""/>) : cleared MAC address table by receiving flush frames.		
A flush control frame for virtual link was received in the Ring Protocol and the MA was cleared. The switch outputs this message when all entries in the MAC addre learning in the ring ports are cleared. <i><link id=""/></i> : Virtual link ID [Action] None.			as received in the Ring Protocol and the MAC address table nessage when all entries in the MAC address table that are			
6	E3	VLAN	00700774	AXRP < <i>Ring ID</i> > : detected fault recovery by receiving health check frames, but suspended the fault recovery process.		
	A failure recovery was detected during status monitoring by the Ring Protocol, but the paswitch-back was suppressed due to the setting. The switch outputs this message when it recovery from a failure at the master node. <i><ring id=""></ring></i> : Ring ID [Action] Wait for the suspension time specified by the preempt-del ay configuration command timed out, or use the clear axrp preempt-del ay command to cancel the suspended the path switch-back manually.		g status monitoring by the Ring Protocol, but the path e setting. The switch outputs this message when it detects a node. I by the preempt-del ay configuration command to be eempt-del ay command to cancel the suspended status of			
7	E3	VLAN	00700775	AXRP < <i>Ring ID</i> >: cancel ed the suspension of the fault recovery process.		
	Suspended this messa the master < <i>Ring ID</i> > [Action] None.	d status for th ge when the r node. Ring ID	e path switch-loath switch-ba	back of the Ring Protocol was canceled. The switch outputs ck suppression state is removed during such suppression at		

No.	Event level	Event location	Message ID	Message text
	Descriptio	'n		
8	E3	VLAN	00700776	AXRP < <i>Ring ID</i> > : activated multi fault state monitoring.
	Multi-fault (<i>Ring ID</i> >: [Action] None.	monitoring fo Ring ID	r Ring Protoco	I was started.
9	E3	VLAN	00700777	AXRP < <i>Ring ID</i> >: detected multi fault recovery by receiving multi fault detection frames.
	A multi-fau outputs this recovery fr <i><ring id=""></ring></i> : [Action] None.	It recovery was s message wi om multiple f Ring ID	as detected wh nen it receives aults.	nen multi-fault monitoring the Ring Protocol. The switch a multi-fault monitoring frame at a shared node and detects
10	E3	VLAN	00700778	AXRP (multi-fault-detection < <i>Ring ID</i> >) : cleared MAC address table by receiving flush frames.
	A flush con switch outp ring ID that < <i>Ring ID</i> >: [Action] None.	trol frame for outs this mess applies mult Ring ID	r multi-fault wa sage when it c i-fault monitori	s received and the MAC address table was cleared. The lears the MAC address table of a ring port that supports the ng.

• E4 information

Table 2-14 Device-related E4 information when the event location is VLAN (Ring Protocol)

No.	Event level	Event location	Message ID	Message text	
	Descriptio	'n			
1	E4	VLAN	00700779	AXRP < <i>Ring ID</i> >: detected fault by health check timeout.	
	A failure was detected during status monitoring by the Ring Protocol. The switch outputs this message when it detects a health-check timeout at the master node. < <u>Ring ID</u> : Ring ID [Action] A failure might have occurred in the link or on the node of the applicable ring. Check the status of the link and the node.				

No.	Event level	Event location	Message ID	Message text	
	Descriptio	n			
2	E4	VLAN	00700780	AXRP < <i>Ring ID</i> >: detected multi fault by multi fault detection timeout.	
	A multi-fault was detected when multi-fault monitoring the status of the Ring Protocol. The switch outputs this message when the multi-fault monitoring functionality detects a timeout at the shared node. < <i>Ring ID</i> >: Ring ID [Action] A multi-fault might have occurred in the applicable ring. Check the status of the link and the node.				

• E9 information

Table 2-15 Device-related E9 information when the event location is VLAN (Ring Protocol)

No.	Event level	Event location	Message ID	Message text
	Descriptio	'n		
1	E9	VLAN	00700701	Swd Configuration Error. <comment></comment>
	The Ring Protocol configuration could not be set for the hardware controller. <comment>: Cause code (information for vendor analysis) [Action] None. The switch automatically restarts.</comment>			

2.3.5 Event location = VLAN (CFM)

The following tables describe device failure and event information when the event location is VLAN (CFM).

• E4 information

Table 2-16 Device-related E4 information when the event location is VLAN (CFM)

No.	Event level	Event location	Message ID	Message text		
	Descriptio	on				
1	E4	VLAN	00700500	MD Level < <i>Level></i> MA < <i>No.></i> : detected on fault of OtherCCM in MEP < <i>MEPID></i> .		
	The releva < <i>Level</i> >: D < <i>No</i> .>: MA < <i>MEPID</i> >: [Action] A partner s Check that	nt MEP detect omain level identification MEP ID switch is not ru	cted a fault (Ot number ecognized as t evel, MA ID, d	therCCM). the same MA. omain name, and MA name match the partner switches.		
2	E4	VLAN	00700501	MD Level < <i>Level></i> MA < <i>No.></i> : detected on fault of ErrorCCM in MEP < <i>MEPID></i> .		
	The relevant MEP detected a fault (ErrorCCM). < <u>Level></u> : Domain level < <u>No.></u> : MA identification number < <u>MEPID></u> : MEP ID [Action] A partner switch and the configuration do not match. Check whether the MEP ID is different from the partner switch, and make sure the send interval (interval) motobox that of the partner switch.					
3	E4	VLAN	00700502	MD Level <level> MA <no.>: detected on fault of Timeout in MEP <mepid>.</mepid></no.></level>		
	The releva < <i>Level</i> >: D < <i>No</i> .>: MA < <i>MEPID</i> >: [Action] The switch Check the	nt MEP detect oomain level identification MEP ID is not receive network statu	number number ing CCM from is.	meout). partner switches.		

No.	Event level	Event location	Message ID	Message text			
	Descriptio	Description					
4	E4	VLAN	00700503	MD Level <leve></leve> MA <no.>: detected on fault of PortState in MEP <mepid>.</mepid></no.>			
The relevant MEP detected a fault (PortState). <level>: Domain level <no.>: MA identification number <mepid>: MEP ID [Action] A partner switch line fault or a port blocking status was detected. Check the status of the partner switch.</mepid></no.></level>			ortState). cking status was detected.				
5	E4	VLAN	00700504	MD Level <level> MA <no.>: detected on fault of RDI in MEP <mepid>.</mepid></no.></level>			
	The relevant MEP detected a fault (RDI). <level>: Domain level <no.>: MA identification number <mepid>: MEP ID [Action] A fault was detected in a partner switch. Check the status of the partner switch.</mepid></no.></level>						

• E9 information

Table 2-17 Device-related E9 information when the event location is VLAN (CFM)

No.	Event level	Event location	Message ID	Message text		
	Descriptic	on				
1	E9	VLAN	00700510	Swd Configuration Error. (Code1=xx Code2=xx)		
The CFM configuration could not be set for the hardware controller. xx: Cause code (information for vendor analysis) [Action] None. The switch automatically restarts.				et for the hardware controller. or analysis) rts.		
2	E9	VLAN	00700511	Could not start CFM function. (Code=xx)		
	The CFM f xx: Cause [Action] None. The	The CFM functionality could not start. xx: Cause code (information for vendor analysis) [Action] None. The switch automatically restarts.				

2.3.6 Event location = SNOOP

The following tables describe device failure and event information when the event location is SN00P.

• E3 information

Table 2-18 Device-related E3 information when the event location is SNOOP

No.	Event level	Event location	Message ID	Message text
	Descriptio	'n		
1	E3	SNOOP	02e10000	The number of the snooping entry exceeded the capacity of this system.
	An attempt to register an IPv4 multicast group failed because the number of learning entries us in IGMP snooping exceeds the device capacity limit. [Action] The number of entries exceeds the capacity limit. Review the system configuration and setting that you can reduce the number of entries.			
2	E3	SNOOP	02e11100	IGMP querier changed on VLAN <vlan id=""> - lost IGMP querier address <ipv4 address="">.</ipv4></vlan>
	 IPv4 multicast data is not being properly forwarded because the availability of the IPv4 multicast group member (recipient host) cannot be confirmed, for the following reasons: The IGMP querier information was deleted because advertisement (IGMP Query) from the IGMP querier at <i><ipv4 address=""></ipv4></i> on VLAN <i><vlan-id></vlan-id></i> disappeared. If the Switch is the IGMP querier, the IGMP querier information was deleted because the IP address of VLAN <i><vlan-id></vlan-id></i> was deleted. <i><vlan id=""></vlan></i>: VLAN ID <i><ipv4 address=""></ipv4></i>: IPv4 address [Action] Check the connection with the IGMP querier at <i><ipv4 address=""></ipv4></i>. Check whether the IGMP querier change message (I GMP queri er changed on VLAN <i><vlan id=""></vlan></i> - new I GMP querier cannot be checked, execute the configuration command i p i gmp snoopi ng queri er to enable the IGMP querier functionality of the Switch 			
3	E3	SNOOP	02e11200	IGMP querier changed on VLAN <vlan id=""> - new IGMP querier address <ipv4 address="">.</ipv4></vlan>
	The IGMP querier was changed to <i><ipv4 address=""></ipv4></i> because a new IGMP querier was identified on the VLAN (<i><vlan id=""></vlan></i>). <i><vlan id=""></vlan></i> : VLAN ID <i><ipv4 address=""></ipv4></i> : IPv4 address [Action] None.			

No.	Event level	Event location	Message ID	Message text		
	Descriptio	Description				
4	E3	SNOOP	02e11300	IPv4 address not defined on VLAN <vlan id="">, IGMP querier function stopped.</vlan>		
	 The IGMP querier on the VLAN (<i><vlan id=""></vlan></i>) stopped because the IPv4 address is not set. <i><vlan id=""></vlan></i>: VLAN ID [Action] Set an IPv4 address for the VLAN. Execute the show i gmp- snoopi ng command and confirm that the IPv4 address set for the VLAN is displayed. 					
5	E3	SNOOP	02e20000	The number of the snooping entry exceeded the capacity of this system.		
	An attempt to register an IPv6 multicast group failed because the number of learning entries use in MLD snooping exceeds the device capacity limit. [Action] The number of entries exceeds the capacity limit. Review the system configuration and setting s that you can reduce the number of entries.			st group failed because the number of learning entries used capacity limit. pacity limit. Review the system configuration and setting so tries.		
6	E3	SNOOP	02e21100	MLD querier changed on VLAN <vlan id=""> - lost MLD querier address .</vlan>		
	IPv6 multicast data is not being properly forwarded because the availability of the IPv6 multicast group member (recipient host) cannot be confirmed, for the following reasons: The MLD querier information was deleted because an advertisement (MLD Query) from the MLD querier at < <i>IPv6 address></i> on VLAN < <i>VLAN ID></i> disappeared. < <i>VLAN ID></i> : VLAN ID < <i>IPv6 address></i> : IPv6 address [Action]					
 Check the connection with the MLD querier at Check whether the MLD querier change message (MLD querier of VLAN ID> - new MLD querier address If the connection with the MLD querier cannot be checked, execute to command i pv6 ml d snoopi ng querier to enable the MLD querier Switch. 		change message (MLD querier changed on VLAN er address < <i>IPv6</i> address>.) was output. uerier cannot be checked, execute the configuration querier to enable the MLD querier functionality of the				
7	E3	SNOOP	02e21200	MLD querier changed on VLAN <vlan id=""> - new MLD querier address <ipv6 address="">.</ipv6></vlan>		
	The MLD of the VLAN (<vlan id:<br=""><ipv6 addr<br="">[Action] None.</ipv6></vlan>	juerier was cł (< <i>VLAN ID</i> >). >: VLAN ID ress>: IPv6 ad	hanged to <i><ip< i=""></ip<></i>	v6 address> because a new MLD querier was identified on		

No.	Event level	Event location	Message ID	Message text	
	Descriptio	'n			
8	E3	SNOOP	02e21300	MLD query message source address not defined on VLAN <i><vlan id=""></vlan></i> , MLD querier function stopped.	
The MLD querier on the VLAN < <i>VLAN ID</i> > stopped because the source IP address for ML messages is not set. < <i>VLAN ID</i> >: VLAN ID [Action] 1. Set an MLD snooping source IPv6 address for the VLAN. 2. Execute the show ml d- snoopi ng command and confirm that the IPv6 address se			//D> stopped because the source IP address for MLD query /6 address for the VLAN. ng command and confirm that the IPv6 address set for the		
	E9 information				
	Tabl	e 2-19 Devi	ce-related ES	9 information when the event location is SNOOP	

No.	Event level	Event location	Message ID	Message text
	Descriptio	'n		
1	E9	SNOOP	02e13100	IGMPsnooping: set snooping disable to filter by config, error (error code) occurred on VLAN <vlan d="">.</vlan>
	An error (e the hardwa < <i>VLAN ID</i> [Action] None. The	<i>rror code</i>) occ ire. >: VLAN ID e switch autor	curred on VLA	N < <i>VLAN ID</i> > when clearing the IGMP snooping settings for rts.
2	E9	SNOOP	02e13110	IGMPsnooping: set snooping enable to filter by config, error(error code) occurred on VLAN <vlan id="">.</vlan>
An error (<i>error code</i>) occurred on the VLAN <i><vlan id=""></vlan></i> when configuring the IGMP snoo settings for the hardware. <i><vlan id=""></vlan></i> : VLAN ID [Action] None. The switch automatically restarts.			/LAN < <i>VLAN ID</i> > when configuring the IGMP snooping start	
3	E9	SNOOP	02e13200	IGMPsnooping: set snooping disable to filter by config, error (error code) occurred on VLAN <vlan id="">.</vlan>
	An error (e the VLAN < <i>VLAN ID</i> [Action] None. The	rror code) occ <vlan id=""> fc >: VLAN ID</vlan>	curred when clor or which IGMP natically restar	earing the IGMP snooping setting for the hardware because snooping is enabled was deleted.

No.	Event level	Event location	Message ID	Message text	
	Descriptio	on		<u>.</u>	
4	E9	SNOOP	02e13301	IGMPsnooping: set port mrouter enable to driver by snoop start, error (error code) occurred on VLAN.	
	An error (e snooping s < <i>VLAN ID</i> : < <i>IF#></i> : Inte [Action] None. The	error code) oc started for the >: VLAN ID orface port nu e switch autor	curred on the VLAN <i><vlan< i=""> mber natically restar</vlan<></i>	router port (port) for the hardware when IGMP / ID>.	
5	E9	SNOOP	02e13310	IGMPsnooping: set port mrouter disable to driver by config, error (error code) occurred on VLAN	
	An error (<i>error code</i>) occurred when VLAN <i><vlan id=""></vlan></i> router port (port <i><if#></if#></i>) settings for the hardware were cleared by the configuration. <i><vlan id=""></vlan></i> : VLAN ID <i><if#></if#></i> : Interface port number [Action] None. The switch automatically restarts.				
6	E9	SNOOP	02e13311	IGMPsnooping: set portmrouter enable to driver by config, error (error code) occurred on VLAN.	
	An error (<i>error code</i>) occurred when configuring the VLAN <i><vlan id=""></vlan></i> router port (<i>port <if#></if#></i>) for the hardware. <i><vlan id=""></vlan></i> : VLAN ID <i><if#></if#></i> : Interface port number [Action] None. The switch automatically restarts.				
7	E9	SNOOP	02e13320	IGMPsnooping: set port mrouter disable to driver by excluded vlan, error (error code) occurred on VLAN.	
	An error (<i>error code</i>) occurred when the IGMP snooping router port settings for the hardware were cleared while the router settings were enabled because port (port < <i>IF#></i>) belonging to VLAN < <i>VLAN ID></i> was detached from the VLAN.< <i>VLAN ID></i> : VLAN ID < <i>IF#></i> : Interface port number [Action] None. The switch automatically restarts.				

No.	Event level	Event location	Message ID	Message text
	Descriptio	on		
8	E9	SNOOP	02e13321	IGMPsnooping: set port mrouter enable to driver by accommodated to vlan, error (error code) occurred on VLAN.
	An error (e settings en < <i>VLAN ID</i> : < <i>IF#</i> >: Inte [Action] None. The	error code) oc abled becaus >: VLAN ID erface port nu e switch autor	curred when these a port (port mber matically restat	ne router port was set for the hardware with router port) not belonging to VLAN was moved to it.
9	E9	SNOOP	02e23100	MLDsnooping: set snooping disable to filter by config, error (error code) occurred on VLAN <vlan d="">.</vlan>
	An error (e the hardwa < <i>VLAN ID</i> [Action] None. The	error code) oc are. >: VLAN ID	curred on VLA	N <vlan id=""> when clearing the MLD snooping settings for ts.</vlan>
10	E9	SNOOP	02e23110	MLDsnooping: set snooping enable to filter by config, error(error code) occurred on VLAN <vlan id="">.</vlan>
	An error (e settings for <vlan id:<br="">[Action] None. The</vlan>	rror code) oc r the hardwar >: VLAN ID e switch autor	curred on the V e. natically restar	/LAN < <i>VLAN ID</i> > when configuring the MLD snooping start
11	E9	SNOOP	02e23200	MLDsnooping: set snooping disable to filter by config. error (error code) occurred on VLAN <vlan id="">.</vlan>
	An error (e because th <vlan id:<br="">[Action] None. The</vlan>	error code) oc ne VLAN < <i>VL</i> >: VLAN ID e switch autor	curred when th AN ID> for whi natically restar	he MLD snooping setting for the hardware was cleared ich MLD snooping is enabled was deleted. ts.
12	E9	SNOOP	02e23301	MLDsnooping: set port mrouter enable to driver by snoop start, error (error code) occurred on VLAN.
	An error (<i>error code</i>) occurred on a router port (port < <i>IF#</i> >) for the hardware when MLD snooping started for the VLAN < <i>VLAN ID</i> >. < <i>VLAN ID</i> >: VLAN ID < <i>IF#</i> >: Interface port number [Action] None. The switch automatically restarts.			

No.	Event level	Event location	Message ID	Message text
	Descriptio	on		
13	E9	SNOOP	02e23310	MLDsnooping: set port mrouter disable to driver by config, error (error code) occurred on VLAN.
	An error (e hardware v < <i>VLAN ID</i> : < <i>IF#</i> >: Inte [Action] None. The	error code) oc were cleared >: VLAN ID erface port nu e switch autor	curred when V by the configu mber natically restar	/LAN < <i>VLAN ID</i> > router port (port < <i>IF#</i> >) settings for the ration.
14	E9	SNOOP	02e23311	MLDsnooping: set port mrouter enable to driver by config, error (error code) occurred on VLANVLAN ID>.
	An error (<i>error code</i>) occurred when configuring the VLAN <i><vlan id=""></vlan></i> router port (port <i><if< i=""># the hardware. <i><vlan id=""></vlan></i>: VLAN ID <i><if< i="">#>: Interface port number [Action] None. The switch automatically restarts.</if<></i></if<></i>			
15	E9	SNOOP	02e23320	MLDsnooping: set portmrouter disable to driver by excluded vlan, error (error code) occurred on VLAN
	An error (<i>error code</i>) occurred when MLD snooping router port settings for the hardware w released with router port settings enabled because a port (port < <i>IF#</i> >) contained in VLAN <i>ID</i> > was detached from the VLAN. < <i>VLAN ID</i> >: VLAN ID < <i>IF#</i> >: Interface port number [Action] None. The switch automatically restarts.			ILD snooping router port settings for the hardware were led because a port (port < <i>IF</i> #>) contained in VLAN < <i>VLAN</i>
16	E9	SNOOP	02e23321	MLDsnooping: set port mrouter enable to driver by accommodated to vlan, error (error code) occurred on VLAN.
	An error (e settings en < <i>VLAN ID</i> : < <i>IF</i> #>: Inte [Action] None. The	error code) oc abled becaus >: VLAN ID erface port nu e switch autor	curred when these a port (port mber matically restar	ne router port was set for the hardware with router port < <i><if#></if#></i>) not belonging to VLAN <i><vlan id=""></vlan></i> was moved to it. ts.

2.3.7 Event location = DHCP

The following tables describe device failure and event information when the event location is DHCP.

• E3 information

Table 2-20 Device-related E3 information when the event location is DHCP

No.	Event level	Event location	Message ID	Message text
	Descriptio	'n		
1	E3	DHCP	01100101	The not used IP address which a dhcp_server can lease out is not a subnet <subnet_address>.</subnet_address>
	The unuse <subnet [Action] Examine th</subnet 	d IP addresse _ <i>ADDRESS></i> ne maximum	es leased by th : Subnet addre number of DHe	ne DHCP server do not exist in the subnet address. ess CP clients in the subnet that the DHCP server can allocate.
2	E3	DHCP	01100102	The dhcp_server reused the abandoned IP address .
	The DHCP < <i>IP_ADDF</i> [Action] None.	server reuse ESS>: Reuse	ed a discarded ed IP address	IP address.
3	E3	DHCP	01100103	The IP address which the dhcp_server schedule to lease out is already used by others.
	The IP add <ip_addf [Action] None.</ip_addf 	Iress to be lea RESS>: IP add	ased by the DF dress to be lea	HCP server is already being used. Ised
	•	E9 informa	ation	
	Tabl	e 2-21 Devi	ce-related E9) information when the event location is DHCP
No.	Event level	Event location	Message ID	Message text

	Descriptio	Description					
1	E9	DHCP	01100901	Internal error occurred. (Code=xx)			
	An internal processing error occurred. xx: Cause code (information for vendor analysis) [Action] None. The switch automatically restarts.						

2.3.8 Event location = LINKAGG

The following tables describe device failure and event information when the event location is LINKAGG.

• E3 information

Table 2-22 Device-related E3 information when the event location is LINKAGG

No.	Event level	Event location	Message ID	Message text
	Descriptio	on		
1	E3	LINKAG G	00500003	Port detached from Channel Group Channel group#>.
 Port was detached from the channel group. : Interface port number <<i>Channel group#</i>>: Channel group number [Action] 1. Check whether the connection with the remote switch is correct. 2. Check whether the remote switch is configured correctly. 				annel group. Imber vith the remote switch is correct. h is configured correctly.
2	E3	LINKAG G	00500004	Port attached to Channel Group <channel group#="">.</channel>
	A port was aggregated to the channel group. : Interface port number : Channel group number [Action]			

• E4 information

Table 2-23 Device-related E4 information when the event location is LINKAGG

No.	Event level	Event location	Message ID	Message text	
	Descriptic	on			
1	E4	LINKAG G	00500001	Channel Group < <i>Channel group</i> #> is Down.	
	 A channel group is in the Down status. <<i>Channel group#</i>>: Channel group number [Action] 1. Make sure that the line is not down. 2. Make sure that the line is not half duplex. 3. Make sure that the LACP setting of the remote switch is correct. 				

No.	Event level	Event location	Message ID	Message text
	Descriptio	'n		
2	E4	LINKAG G	00500002	Channel Group <channel group#=""> is Up.</channel>
	A channel group is in the Up status. <i>Channel group#></i> : Channel group number [Action] None.			

2.3.9 Event location = DHCPSN

The following table describes device failure and event information when the event location is **DHCPSN**.

• E3 information

Table 2-24 Device-related E3 information when the event location is DHCPSN

No.	Event level	Event location	Message ID	Message text			
	Descriptio	on					
1	E3	DHCPSN	03100001	The binding entry created(<mac_address>/<vlan ID>/<ip_address>).</ip_address></vlan </mac_address>			
	A binding c <mac_ad <mac_ad <vlan id<br=""><ip_addr [Action] None.</ip_addr </vlan></mac_ad </mac_ad 	A binding database was created. < <u>MAC_ADDRESS>/<vlan id="">/<ip_address></ip_address></vlan></u> : DHCP client terminal information < <u>MAC_ADDRESS></u> : MAC address < <u>VLAN ID></u> : VLAN ID < <u>IP_ADDRESS></u> : IP address [Action] None.					
2	E3	DHCPSN	03100002	The binding entry timeout(<mac_address>/<vlan ID>/<ip_address>).</ip_address></vlan </mac_address>			
	The binding database was deleted because of an aging timeout. < <u>MAC_ADDRESS></u> /< <u>VLAN ID></u> /< <u>IP_ADDRESS></u> : DHCP client terminal information < <u>MAC_ADDRESS></u> : MAC address < <u>VLAN ID></u> : VLAN ID < <u>IP_ADDRESS></u> : IP address [Action] None.						

No.	Event level	Event location	Message ID	Message text		
	Descriptio	Description				
3	E3	DHCPSN	03100003	The binding entry was deleted by received DHCPRELEASE(<mac_address>/<vlan id="">/<ip_address>).</ip_address></vlan></mac_address>		
	The binding database was deleted because DHCPRELEASE was received. < <u>MAC_ADDRESS>/<vlan id="">/<ip_address></ip_address></vlan></u> : DHCP client terminal information < <u>MAC_ADDRESS></u> : MAC address < <u>VLAN ID></u> : VLAN ID < <u>IP_ADDRESS></u> : IP address [Action] None.					
4	E3	DHCPSN	03100004	The binding entry was deleted by received DHCPDECLINE(<mac_address>/<vlan ID>/<ip_address>).</ip_address></vlan </mac_address>		
The binding database was deleted because DHCPDECLI NE was received. <a href="https://www.commons.com/www.commons.com/www.commons.com/www.commons.com/commons.com/commons.com/commons.com/commons.com/commons.com/commons.com/commons.com/commons.com/commons.com/commons.com/com/com/com/com/com/com/com/com/com/</td> <td>cause DHCPDECLI NE was received. _<i>ADDRESS</i>>: DHCP client terminal information</td>				cause DHCPDECLI NE was received. _ <i>ADDRESS</i> >: DHCP client terminal information		
5	E3	DHCPSN	03100005	The binding entry is replaced from dynamic with Configuration(<mac_address>/<vlan id="">/<ip_address>).</ip_address></vlan></mac_address>		
	The contents of the binding database was changed to the settings of the i p source bi ndi ng configuration command because the same IP address and VLAN number as those of the dynamically learned binding database had been set to the binding database by using the i p source bi ndi ng configuration command. <i>«MAC_ADDRESS»/«VLAN ID»/«IP_ADDRESS»</i> : DHCP client terminal information <i>«MAC_ADDRESS»</i> : MAC address <i>«VLAN ID»</i> : VLAN ID <i>«IP_ADDRESS»</i> : IP address [Action] None.					
6	E3	DHCPSN	03100006	The binding entry was renewed(<mac_address>/<vlan id="">/< IP_ADDRESS>).</vlan></mac_address>		
	The binding correspond DHCPACK/I < <i>MAC_AD</i> < <i>MAC_AD</i> < <i>VLAN ID</i> < <i>IP_ADDR</i> [Action] None.	g database w ling to IP add 300TPREPLY <i>DRESS>/ <v< i=""> <i>DRESS></i>: MA >: VLAN ID RESS>: IP add</v<></i>	ras updated be lresses assign /LAN ID>/ <ip_ AC address dress</ip_ 	ecause the changes of connection ports or MAC addresses ed to DHCP client terminals were detected by receiving <i>ADDRESS</i> >: DHCP client terminal information		

No.	Event level	Event location	Message ID	Message text	
	Descriptio	'n			
7	E3	DHCPSN	03100007	It failed to make binding entry because interface unknown(<mac_address>/<vlan ID>/<ip_address>).</ip_address></vlan </mac_address>	
	Creation or update of a binding database failed because the connection port for a DHCP client is unknown. <i>MAC_ADDRESS>/<vlan id="">/<ip_address></ip_address></vlan></i> : DHCP client terminal information <i>MAC_ADDRESS></i> : MAC address <i>VLAN ID></i> : VLAN ID <i>ID</i> <i>IP_ADDRESS></i> : IP address [Action] None.				
8	E3	DHCPSN	03100008	DHCP server packets were received at an untrust port(/ <vlan id="">/<mac_address>/<ip_address>).</ip_address></mac_address></vlan>	
	An invalid DHCP server was detected. This message is output once every five minutes on a port-by-port basis. <if_number>: Type and number of the interface that received the DHCP packets • Port = <if#>: Interface port number • ChGr = <channel group#="">: Channel group number <vlan id=""><mac_address>/<ip_address>: DHCP server information <vlan id="">: VLAN ID <mac_address>: MAC address <ip_address>: IP address [Action] Check the connected device</ip_address></mac_address></vlan></ip_address></mac_address></vlan></channel></if#></if_number>				
9	E3	DHCPSN	03100009	Observed ARP flood, some packets shall be discarded ().	
	The number of received ARP packets exceeded the number of the reception rate set by using the ip arp inspection limit rate configuration command. < <i>IF_NUMBER></i> : Type and number of the interface whose reception rate is exceeded • Port = < <i>IF#></i> : Interface port number • ChGr = < <i>Channel group#></i> : Channel group number [Action] None.				
10	E3	DHCPSN	0310000a	ARP flood ebbed ().	
	The recept reception r again.) < <i>IF_NUME</i> • Port • ChGr [Action] None.	ion rate for A ate is exceed BER>: Type a = <if#>: In = <channe< td=""><td>RP packets ha led, the events nd number of t terface port nu el group#>: Cha</td><td>is not been exceeded for 30 seconds. (After this, if the for when the reception rate is exceeded are collected the interface whose reception rate is exceeded imber annel group number</td></channe<></if#>	RP packets ha led, the events nd number of t terface port nu el group#>: Cha	is not been exceeded for 30 seconds. (After this, if the for when the reception rate is exceeded are collected the interface whose reception rate is exceeded imber annel group number	

No.	Event level	Event location	Message ID	Message text	
	Descriptio	n			
11	E3	DHCPSN	0310000b	Observed DHCP flood, some packets shall be discarded (<i><if_number></if_number></i>).	
	The number of received DHCP packets exceeded the number of the reception rate set by using the i p dhcp snooping limit rate configuration command. < <i>IF_NUMBER</i> >: Type and number of the interface whose reception rate is exceeded • Port = < <i>IF#</i> >: Interface port number • ChGr = < <i>Channel group#</i> >: Channel group number [Action] None.				
12	E3	DHCPSN	0310000c	DHCP flood ebbed (< <i>IF_NUMBER</i> >).	
	The reception rate for DHCP packets has not been exceeded for 30 seconds. (After this, if the reception rate is exceeded, the events for when the reception rate is exceeded are collected again.) : Type and number of the interface whose reception rate is exceeded • Port = : Interface port number • ChGr = <channel group#="">: Channel group number [Action] None.</channel>				
13	E3	DHCPSN	0310000d	It failed to make binding entry exceeded(<mac_address>/<vlan ID>/<ip_address>).</ip_address></vlan </mac_address>	
	Generation of the binding database failed because of insufficient database entries. < <u>MAC_ADDRESS>/<vlan id="">/<ip_address></ip_address></vlan></u> : DHCP client terminal information < <u>MAC_ADDRESS></u> : MAC address < <u>VLAN ID></u> : VLAN ID < <u>IP_ADDRESS></u> : IP address [Action] The device capacity limit was exceeded. Review the system configuration				
14	E3	DHCPSN	03100015	It was not able to store binding database in <url>. [retry] (<reason>)</reason></url>	
	<pre></pre>				

No.	Event level	Event location	Message ID	Message text
	Description			
15	E3	DHCPSN	03100016	It was not able to store binding database in <url>. [retry] (<reason>)</reason></url>
	 The binding database could not be saved to the specified storage destination. <i>curl></i>: Specified storage destination fl ash: Internal flash memory [<i>retry</i>]: The number of retries <i>creason></i>: Reason for the failure It is accessed Fl ash by other processing. (Internal flash memory is being used by other processing.) A reason other than the above <i><reason></reason></i> is information used for analysis by the vendor. [Action] Take appropriate action according to the indicated <i><reason></reason></i>. 			
16	E3	DHCPSN	03100017	It succeeded in the restored of binding database from <url>. [retry]</url>
	The binding database was restored from the specified storage destination. <url>: Specified storage destination • fl ash: Internal flash memory • mc: SD memory card [retry]: The number of retries [Action] None.</url>			
17	E3	DHCPSN	03100018	It was not able to restore binding database from <url>. [retry] (<reason>)</reason></url>
	 The binding database could not be restored from the specified storage destination. <i>curl></i>: Specified storage destination fl ash: Internal flash memory mc: SD memory card [<i>retry</i>]: The number of retries <i>creason></i>: Reason for the failure MC file is not inserted. (No memory card is inserted.) MC file is not found. (Files were not found on the memory card.) It is accessed MC by other processing. (The memory card is being used by other processing.) It is accessed Fl ash by other processing. (Internal flash memory is being used by other processing.) MC file is not reading. (Reading from the file on the memory card is not possible.) May be broken. (The storage destination specified in the configuration might be corrupted.) The data is not saved. (There is no restorable data.) A reason other than the above <i><reason></reason></i> is information used for analysis by the vendor. [Action] Take appropriate action according to the indicated <i><reason></reason></i>. 			
No.	Event level	Event location	Message ID	Message text
---	---	-------------------	--	---
	Descriptio	on		
18	E3	DHCPSN	03100019	It succeeded in the restored of binding database from <url>. [retry](<reason>)</reason></url>
	 The binding database was restored from the specified storage destination. <i>curl</i>>: Specified storage destination flash: Internal flash memory mc: SD memory card [retry]: The number of retries <i>creason</i>>: Reason The number of the dynamic entries zero. (The number of dynamic entries zero.) [Action] None. 		om the specified storage destination. c entries zero. (The number of dynamic entries was	
19	E3	DHCPSN	0310001a	It cannot store a binding database (<reason>).</reason>
 The binding database could not be stored. <reason>: Reason for the failure</reason> MC is not inserted. (No memory card is inserted.) Can't access to MC by write protection. (The memory card is read [Action] Take appropriate action according to the indicated <reason>.</reason> 				pred. emory card is inserted.) ite protection. (The memory card is read-only.) he indicated <i><reason< i="">>.</reason<></i>

2.3.10 Event location = IP

The following table describes device failure and event information when the event location is IP.

E3 information

Table 2-25 Device-related E3 information when the event location is IP

No.	Event level	Event location	Message ID	Message text
	Descriptio	n		
1	E3	IP	00600001	Duplicate IP address < <i>ipv4</i> address> (VLAN <vlan ID>) on <mac address="">.</mac></vlan
	A duplicate IPv4 address was detected on the VLAN <i><vlan id=""></vlan></i> interface. <i><ipv4 address="">:</ipv4></i> IPv4 address whose duplication was detected VLAN <i><vlan id=""></vlan></i> : Interface number of the VLAN on which the duplicate IPv4 address was detected <i><mac address="">:</mac></i> MAC address of the remote switch with the duplicate IPv4 address (source MAC address during ARP payload) [Action] Change the IPv4 address of the VLAN interface for the Switch. Alternatively, change the dup IPv4 address of the remote switch.			

No.	Event level	Event location	Message ID	Message text	
	Descriptio	'n			
2	E3	IP	00600002	Duplicate IP address < <i>ipv6</i> address> (VLAN <vlan ID>) on <mac address="">.</mac></vlan 	
	A duplicate < <i>ipv6 addr</i> VLAN < <i>VL</i> detected < <i>MAC add</i> [Action] Change the IPv6 addre	PV6 addres ess>: IPv6 ad AN ID>: Inter ress>: MAC a (source e IPv6 addres ss of the rem	s was detected ddress whose of face number of address of the MAC address as of the VLAN tote switch.	d on the VLAN <i><vlan id=""></vlan></i> interface. duplication was detected of the VLAN on which the duplicate IPv6 address was remote switch with the duplicate IPv6 address during RA payload) interface for the Switch. Alternatively, change the duplicate	
3	E3	IP	00600010	The number of pieces of the ARP entry exceeds the capacity of this system.	
	The number [Action] Use the sh does not ex following: 1. Delete 2. If unn comm 3. Revie can re	er of entries in two system exceed the cap e any unnece ecessary ent hand to delete w the networ educe entry n	n the ARP table command to c pacity limit. If the ries are dynan those entries k system confi- tumbers from t	e exceeds the capacity limit of the Switch. check that the current number of entries in the ARP table he number is exceeding the capacity limit, perform the tion in the arp configuration. nically generated, execute the clear arp-cache i. iguration, and change the configuration so that the system he ARP table.	
4	E3	IP	00600100	The number of pieces of the NDP entry exceeds the capacity of this system.	
	 The number of entries in the NDP table exceeds the capacity limit of the Switch. [Action] Use the show system command to check that the current number of entries in the NDP table is not exceeding the capacity limit. If the number is exceeding the capacity limit, perform the following: Delete any unnecessary information in the ndp configuration. If unnecessary entries are dynamically generated, execute the clear i pv6 nei ghbors command to delete those entries. Review the network system configuration, and change the configuration so that the system can reduce entry numbers from the NDP table. 				

2.3.11 Event location = SNMP

The following table describes device failure and event information when the event location is $\underline{\text{SNMP}}.$

• E3 information

Table 2-26 Device-related E3 information when the event location is SNMP

No.	Event level	Event location	Message ID	Message text
	Descriptio	on		
1	E3	SNMP	01200001	The engineID has not been recorded.
 SNMP engine ID information has not been recorded in flash memory at startup for one of the following reasons: The time is just after production. The time is after the initial execution of the ppupdate command. The contents of the sector that contains the SNMP engine ID have been completely deler [Action] None. 				
2	E3	SNMP	01200002	The recorded engineID is damaged.
 For either of the following reasons, the SNMP engine ID recorded in flash memory at startup number of startups after the SNMP engine ID was changed is invalid. The switch was restarted accidentally while SNMP engine ID information is being writ flash memory. Flash memory hardware is corrupted. [Action] Use the set snmp-server engineID local operation command to correct the SNMP of ID and the number of startup attempts. 				SNMP engine ID recorded in flash memory at startup or the gine ID was changed is invalid. Intally while SNMP engine ID information is being written to oted. D local operation command to correct the SNMP engine
3	E3	SNMP	01200003	Flash memory driver error: xxxx.
An error was reported from the flash memory driver. The impact of the error might bec the next time the switch is restarted. <i>xxxx</i> : Information for vendor analysis [Action] Use the rel oad operation command to restart the switch. Check the log entry gene restart.				emory driver. The impact of the error might become obvious to restart the switch. Check the log entry generated by the

2.4 Switch parts

2.4.1 Event location = KERNEL

The following table describes device failure and event information when the event location is **KERNEL**.

• E3 information

Table 2-27 Device-related E3 information when the event location is KERNEL

No.	Event level	Event location	Message ID	Message text	
	Descriptio	'n			
1	E3	KERNEL	01f00004	Boot cause is system fault.	
	An error oc [Action] None.	curred, and t	hen the switch	n restarted.	
2	E3	KERNEL	01f00008	Boot cause is exception.	
	An unexpected interruption occurred, and then the switch restarted. [Action] None.				
3	E3	KERNEL	01f00010	Boot cause is watchdog timeout.	
	A hardware watchdog timeout occurred, and then the switch restarted. [Action] None.				
4	E3	KERNEL	01f00020	Boot cause is reset button.	
	The switch restarted because the RESET button was pressed. [Action] None.				
5	E3	KERNEL	01f00040	Boot cause is expired sleep time.	
	The switch restarted because the switch sleep period expired. [Action] None.				
6	E3	KERNEL	01f00042	Boot cause is expired sleep time.	
	The switch [Action] None.	restarted be	cause the swit	ch sleep period expired (with wakeup options).	

2.4 Switch parts

No.	Event level	Event location	Message ID	Message text			
	Description						
7	E3	KERNEL	01f00060	Boot cause is wake up from sleep by force.			
	The switch [Action] None.	restarted be	cause the swit	ch's sleep state was forcibly released.			
8	E3	KERNEL	01f00062	Boot cause is wake up from WoL.			
	The switch detection). [Action] None.	restarted be	cause the swit	ch's sleep state was released by the wakeup option (WoL			
9	E3	KERNEL	01f00080	Boot cause is sleep(wakeup-option).			
The switch entered the sleep state (wakeup option mode). [Action] None.				akeup option mode).			
10	E3	KERNEL	01f00142	Boot cause is wake up from linkup.			
	The switch restarted because the switch's sleep state was released by the wakeup option (link-up detection). [Action] None.						
11	E3	KERNEL	01f00242	Boot cause is wake up from SFP insert.			
	The switch's sleep state was released because an SFP module was inserted, and the switch restarted. [Action] None.						
12	E3	KERNEL	01f00300	System failure occurred repeating. Stop the system recovery.			
	The recove [Action] None.	The recovery process stopped because a system malfunction occurred repeatedly. [Action] None.					

2.4.2 Event location = NTP

The following table describes device failure and event information when the event location is $\ensuremath{\text{NTP}}.$

• E3 information

Table 2-28 Device-related E3 information when the event location is NTP

No.	Event level	Event location	Message ID	Message text
	Descriptio	n		
1	E3	NTP	01a72201	NTPC: Fixation time was not notified!
	The period execution. [Action] None.	ic monitoring	report stopped	d because the periodic update time came during command
2	E3	NTP	01a72502	NTPC: Time was set up. (Difference in 5 sec or more!)
	The time w [Action] None.	as configured	d, but the time	lag is five seconds or more.

2.4.3 Event location = 802.1X

The following tables describe device failure and event information when the event location is 802. 1X.

• E3 information

Table 2-29 Device-related E3 information when the event location is 802.1X

No.	Event level	Event location	Message ID	Message text	
	Description	I			
1	E3	802.1X	00800011	There is a possibility that 802.1X(port) was not set in some interfaces.	
	For some interfaces, 802.1X (port-based authentication) might not be configured. [Action] Delete settings for 802.1X by using the no command, and then reconfigure 802.1X.				
2	E3	802.1X	00800012	There is a possibility that 802.1X(port) was not unset in some interfaces.	
For some interfaces, 802.1X (port-based authentication) might not be released. [Action] Configure the settings by using commands again, and then delete settings for 802.1X to no command.					

• E9 information

Table 2-30 Device-related	E9 information when t	the event location	is 802 1X
	Lo momutor when		10 002.17

No.	Event level	Event location	Message ID	Message text			
	Description			·			
1	E9	802.1X	00820001 00820002 00820003 00820004 00820005 00820006 00820007 00820008 00820045	Could not start L2-authentication function.			
Layer 2 authentication functionality could not start when the switch started. [Action] None. The switch automatically restarts.			start when the switch started.				
2	E9	802.1X	00820011	Could not start 802.1X Authenticator function.			
	The 802.1X functionality could not start. [Action] None. The switch automatically restarts.						
3	E9	802.1X	00820021 00820022 00820031 00820032 00820041 00820046 00820047	Internal error occurred. (code=xx).			
	An internal p xx: Cause c [Action] None. The s	An internal processing error occurred. xx: Cause code (information for vendor analysis) [Action] None. The switch automatically restarts.					

2.4.4 Event location = RADIUS

The following tables describe device failure and event information when the event location is RADIUS.

• E3 information

Table 2-31 Device-related E3 information when the event location is RADIUS

No.	Event level	Event location	Message ID	Message text	
	Description				
1	E3	RADIUS	01000000	The authentication dead-interval timer start.	
	The monito configuratio authenticat [Action] None.	oring timer sta on command tion request c	arted according because the s lestination bec	g to the setting of the radi us-server dead-interval secondary RADIUS server became the RADIUS sause of the failure of the primary RADIUS server.	
2	E3	RADIUS	01000001	The accounting dead-interval timer start.	
	The monitoring timer started according to the setting of the radi us-server dead-interval configuration command because the secondary RADIUS server became the RADIUS accounting destination because of the failure of the primary RADIUS server. [Action] None.				
3	E3	RADIUS	01000002	The authentication dead-interval timer stop.	
	 The monitoring timer configured by using the radi us-server dead-interval configuration command stopped for one of the following reasons: The monitoring timer configured by using the radi us-server dead-interval configuration command expired. The RADIUS authentication request destination changed from the secondary RADIUS server to the restored primary RADIUS server. [Action] None. 			ing the radi us-server dead-interval configuration wing reasons: by using the radi us-server dead-interval lest destination changed from the secondary RADIUS ADIUS server.	
4	E3	RADIUS	0100003	The accounting dead-interval timer stop.	
	The monito command s The n config The F restor [Action] None.	bring timer co stopped for o nonitoring tim guration comr RADIUS acco red primary R	nfigured by us ne of the follov er configured nand expired. unting destina ADIUS server	ing the radius-server dead-interval configuration wing reasons: by using the radius-server dead-interval tion changed from the secondary RADIUS server to the	

No.	Event level	Event location	Message ID	Message text		
	Descriptio	on				
5	E3	RADIUS	01000004	The MAC authentication dead-interval timer start.		
	The monitoring timer started according to the setting of the mac-authentication radius-server dead-interval configuration command because the secondary RADIUS server for MAC authentication became the RADIUS authentication request destination because the failure of the primary RADIUS server for MAC authentication. [Action] None.					
6	E3	RADIUS	01000005	The MAC accounting dead-interval timer start.		
	The monito radi us-s server for N of the prim [Action] None.	oring timer sta erver dead MAC authenti ary RADIUS	arted according d- i nterval o cation became server for MAC	g to the setting of the mac-authentication configuration command because the secondary RADIUS e the RADIUS accounting destination because of the failure C authentication.		
7	E3	RADIUS	01000006	The MAC authentication dead-interval timer stop.		
	The monito dead- int The n dead The F serve authe [Action] None.	oring timer co erval config nonitoring tim - interval RADIUS author r for MAC author ntication.	nfigured by us guration comm er configured configuration c entication requ thentication to	ing the mac-authentication radius-server and stopped for one of the following reasons: by using the mac-authentication radius-server command expired. lest destination changed from the secondary RADIUS the restored primary RADIUS server for MAC		
8	E3	RADIUS	01000007	The MAC accounting dead-interval timer stop.		
	The monito dead- int The n dead The F authe [Action] None.	oring timer co erval config nonitoring tim - i nterval RADIUS acco entication to th	nfigured by us guration comm er configured configuration o unting destina ne restored pri	ing the mac-authentication radius-server and stopped for one of the following reasons: by using the mac-authentication radius-server command expired. tion changed from the secondary RADIUS server for MAC mary RADIUS server for MAC authentication.		
9	E3	RADIUS	0100008	The Web authentication dead-interval timer start.		
	The monitoring timer started according to the setting of the web- authentication radius-server dead-interval configuration command because the secondary RADIUS server for Web authentication became the RADIUS authentication request destination because of the failure of the primary RADIUS server for Web authentication. [Action] None.					

No.	Event level	Event location	Message ID	Message text		
	Descriptio	Description				
10	E3	RADIUS	01000009	The Web accounting dead-interval timer start.		
	The monitoring timer started according to the setting of the web-authentication radius-server dead-interval configuration command because the secondary RADIUS server for Web authentication became the RADIUS accounting destination because of the failure of the primary RADIUS server for Web authentication. [Action] None.					
11	E3	RADIUS	0100000a	The Web authentication dead-interval timer stop.		
	 The monitoring timer configured by using the web- authentication radius-server dead-interval configuration command stopped for one of the following reasons: The monitoring timer configured by using the web- authentication radius-server dead-interval configuration command expired. The RADIUS authentication request destination changed from the secondary RADIUS server for Web authentication to the restored primary RADIUS server for Web authentication [Action] None. 					
12	E3	RADIUS	0100000b	The Web accounting dead-interval timer stop.		
	 The monitoring timer configured by using the web- authentication radius-server dead-interval configuration command stopped for one of the following reasons: The monitoring timer configured by using the web- authentication radius-ser dead-interval configuration command expired. The RADIUS accounting destination changed from the secondary RADIUS server for authentication to the restored primary RADIUS server for Web authentication. [Action] None. 			ing the web-authentication radius-server and stopped for one of the following reasons: by using the web-authentication radius-server command expired. tion changed from the secondary RADIUS server for Web mary RADIUS server for Web authentication.		
13	E3	RADIUS	010000c	The 802.1X authentication dead-interval timer start.		
	The monitoring timer started according to the setting of the dot 1x radi us-server dead-interval configuration command because the secondary RADIUS server for IEEE 802.1X authentication became the RADIUS authentication request destination because of the failure of the primary RADIUS server for IEEE 802.1X authentication. [Action] None.			g to the setting of the dot1x radius - server and because the secondary RADIUS server for IEEE DIUS authentication request destination because of the for IEEE 802.1X authentication.		
14	E3	RADIUS	0100000d	The 802.1X accounting dead-interval timer start.		
	The monito dead- int 802.1X aut primary RA [Action] None.	oring timer sta erval config thentication b ADIUS server	arted according guration comm ecame the RA for IEEE 802.	g to the setting of the dot1x radius-server and because the secondary RADIUS server for IEEE DIUS accounting destination because of the failure of the 1X authentication.		

No.	Event level	Event location	Message ID	Message text	
	Descriptio	on	1		
15	E3	RADIUS	0100000e	The 802.1X authentication dead-interval timer stop.	
	 The monitoring timer configured by using the dot 1x radi us-server dead-interval configuration command stopped for one of the following reasons: The monitoring timer configured by using the dot 1x radi us-server dead-interval configuration command expired. The RADIUS authentication request destination changed from the secondary RADIUS server for IEEE 802.1X authentication to the restored primary RADIUS server for IEEE 802.1X authentication. [Action] None. 				
16	E3	RADIUS	0100000f	The 802.1X accounting dead-interval timer stop.	
	 The monitoring timer configured by using the dot 1x radi us-server dead-interval configuration command stopped for one of the following reasons: The monitoring timer configured by using the dot 1x radi us-server dead-inter configuration command expired. The RADIUS accounting destination changed from the secondary RADIUS server for I 802.1X authentication to the restored primary RADIUS server for IEEE 802.1X authentication. [Action] None. 			ting the dot1x radius-server dead-interval ne of the following reasons: by using the dot1x radius-server dead-interval tion changed from the secondary RADIUS server for IEEE tored primary RADIUS server for IEEE 802.1X	
17	E3	RADIUS	01000010	The Group[x] authentication dead-interval timer start.	
	The monitoring timer started according to the setting of the radi us-server dead-i configuration command because the secondary RADIUS server in RADIUS server gro became the RADIUS authentication request destination because of the failure of the p RADIUS server in the same group. <i>x</i> : RADIUS server group name [Action] None.		g to the setting of the radi us-server dead-interval secondary RADIUS server in RADIUS server group <i>x</i> equest destination because of the failure of the primary		
18	E3	RADIUS	01000012	The Group $[x]$ authentication dead-interval timer stop.	
	 The monitoring timer configured by using the radi us-server dead-interval configuration command stopped for one of the following reasons: The monitoring timer configured by using the radi us-server dead-interval configuration command expired. The RADIUS authentication request destination changed from the secondary RADIUS server in RADIUS server group <i>x</i> to the restored primary RADIUS server in the same group. <i>x</i>: RADIUS server group name [Action] None. 				

• E9 information

Table 2-32 Device-related E9 information when the event location is RADIUS

No.	Event level	Event location	Message ID	Message text
	Descriptio	'n		
1	E9	RADIUS	01020012	Could not start RADIUS Client function.
	The RADIUS client functionality could not start. [Action] None. The switch automatically restarts.			
2	E9	RADIUS	01020013	RADIUS Queue Overflow.
	A response queue error occurred in a RADIUS client. [Action] None. The switch automatically restarts.			

2.4.5 Event location = CERTIF

The following table describes device failure and event information when the event location is **CERTI F**.

• E9 information

Table 2-33 Device-related E9 information when the event location is CERTIF

No.	Event level	Event location	Message ID	Message text	
	Descriptio	n			
1	E9	CERTIF	00f01006	Could not start MAC Authentication function. $(Code=xx)$	
	The MAC authentication functionality could not start. xx: Cause code (information for vendor analysis) [Action] None. The switch automatically restarts.				
2	E9	CERTIF	00f01011	Internal error occurred. (Code=xx SubCode=xx)	
	When usin <i>xx</i> : Cause [Action] None. The	g the MAC au code (informa switch autor	uthentication fu ation for vendo natically restar	unctionality, an internal error occurred. or analysis) rts.	

No.	Event level	Event location	Message ID	Message text		
	Descriptio	'n				
3	E9	CERTIF	00f01014	<pre>Failed to <xxxx> driver's filter. (Code=x, ethernet)</xxxx></pre>		
	When usin <xxxx>: se x: Cause c : Inte [Action] None. The</xxxx>	When using the MAC authentication functionality, the driver filter control failed. <xxxx>: set or unset x: Cause code (information for vendor analysis) : Interface port number [Action] None. The switch automatically restarts.</xxxx>				
4	E9	CERTIF	00f01021	Failed to control timer function. (Code=xx SubCode=xx)		
When using the MAC authentication functionality, the timer functionality control faile xx: Cause code (information for vendor analysis) [Action] None. The switch automatically restarts.			unctionality, the timer functionality control failed. or analysis) ts.			
5	E9	CERTIF	00f02006	Could not start Web Authentication function. (Code=xx)		
	The Web authentication functionality could not start. xx: Cause code (information for vendor analysis) [Action] None. The switch automatically restarts.					
6	E9	CERTIF	00f02011	Internal error occurred. (Code=xx SubCode=xx)		
	When using the Web authentication functionality, an internal error occurred. xx: Cause code (information for vendor analysis) [Action] None. The switch automatically restarts.					
7	E9	CERTIF	00f02021	Failed to control timer function. (Code=xx SubCode=xx)		
	When using the Web authentication functionality, the timer functionality control failed. xx: Cause code (information for vendor analysis) [Action] None. The switch automatically restarts.					

2.4.6 Event location = HTTPD

The following table describes device failure and event information when the event location is HTTPD.

• E3 information

Table 2-34 Device-related E3 information when the event location is HTTPD

No.	Event level	Event location	Message ID	Message text
	Descriptio	n		
1	E3	HTTPD	03200001	HTTP server initialization failed.
	The HTTP server failed to be initialized. [Action] The SSL certificate and private key are incorrect. Obtain the correct SSL certificate and private key, and then re-install them on the switch.			

2.4.7 Event location = QOS

The following tables describe device failure and event information when the event location is **QOS**.

• E3 information

Table 2-35 Device-related E3 information when the event location is QOS

No.	Event level	Event location	Message ID	Message text			
	Descriptic	Description					
1	E3	QOS	00930000	Unable to use traffic-shape rate feature because value exceeding setting range was specified.			
	Port bandw speed) was [Action] Change the see the de <i>Command</i>	vidth control is s specified. e bandwidth tu scriptions of t <i>Reference</i> .	s not available o a value insidu he <mark>rate</mark> para	because a value outside the valid setting range (usable line e the setting range. For details about the valid setting range, meter under <i>Traffic-shape rate</i> in the manual <i>Configuration</i>			
2	E3	QOS	00930002	Port half duplex does not support traffic-shape rate feature.			
	 Port bandwidth control is not available for half-duplex lines. [Action] Do either of the following: If port bandwidth control is to be used, switch to a full-duplex line. If a half-duplex line is to be used, delete port bandwidth control by using the configuration command no traffic-shape rate. 						

No.	Event level	Event location	Message ID	Message text			
	Descriptio	on	1	·			
3	E3	QOS	00930005	Unable to use WFQ feature because total value of minimum rate exceeding the maximum rate of the port.			
	Scheduling guaranteed [Action] Use the qc guaranteed	Scheduling modes that include WFQ are not available because the total value of the minimum guaranteed bandwidths (min-rate) exceeds the maximum send bandwidth. [Action] Use the <u>qos-queue-list</u> configuration command to adjust the total value of the minimum guaranteed bandwidths so that the total is equal to or lower than the maximum send bandwidth.					
4	E3	QOS	00930006	Port half duplex does not support WFQ feature.			
	[Action] Do either c 1. If WF 2. If a ha	 The scheduling mode that includes WFQ is not available for half-duplex lines. [Action] Do either of the following: If WFQ is to be used in the scheduling mode, switch to a full-duplex line. If a half-duplex line is to be used, switch to a scheduling mode that does not include WFQ by using the gos- gueue- group and gos- gueue-list configuration commands. 					
5	E3	QOS	00930007	Relations between traffic-shape rate and scheduling mode are inconsistent.			
	 The port bandwidth control settings do not match the scheduling mode settings. The specifiable scheduling mode for using port bandwidth control is PQ. [Action] Do either of the following: To use port bandwidth control, change the scheduling mode to PQ by using the qos-queue-group and qos-queue-list configuration commands. To use a scheduling mode other than PQ, delete the port bandwidth control setting by the no traffic-shape rate configuration command. 			o not match the scheduling mode settings. sing port bandwidth control is PQ. nange the scheduling mode to PQ by using the ueue-list configuration commands. than PQ, delete the port bandwidth control setting by using configuration command.			
	• Tabl	E9 inform e 2-36 Devi	ation ce-related E9	e information when the event location is QOS			
No.	Event	Event	Message	Message text			

No.	Event level	Event location	Message ID	Message text	
	Descriptio	'n			
1	E9	QOS	00900000	Swd Configuration Error. <comment></comment>	
	The QoS configuration could not be set for the hardware controller. <comment>: Cause information (information for vendor analysis) [Action] None. The switch automatically restarts.</comment>				

No.	Event level	Event location	Message ID	Message text	
	Descriptio	'n			
2	E9	QOS	00900001	Software error.	
 Software error (semaphore ID error) Creation of the semaphore ID failed during initialization at the switch startup. Acquisition of the semaphore ID failed when creating the switch operation co [Action] None. The switch automatically restarts. 				led during initialization at the switch startup. failed when creating the switch operation configurations. ts.	
3	E9	QOS	00900010 00900011	Internal error occurred. (code=xxxx, xxxx)	
	 The QoS configuration could not be set for the hardware controller. 00900010 : For legacy shaping 00900011 : For port shaping xxxx = error code: Information for vendor analysis [Action] None. The switch automatically restarts. 				

2.4.8 Event location = FIELD

The following table describes device failure and event information when the event location is **FIELD**.

• E9 information

Table 2-37 Device-related E9 information when the event location is FIELD

No.	Event level	Event location	Message ID	Message text
	Descriptio	'n		
1	E9	FIELD	00c00000	Swd Configuration Error. <comment></comment>
	The configuration of a filter could not be set for the hardware controller. <comment>: Cause information (information for vendor analysis) [Action] None. The switch automatically restarts.</comment>			

2.4.9 Event location = SWOL

The following table describes device failure and event information when the event location is $\ensuremath{\text{SWOL}}$.

• E3 information

Table 2-38 Device-related E3 information when the event location is SWOL

No.	Event level	Event location	Message ID	Message text	
	Descriptio	on		·	
1	E3	SWOL	03700000	Login incorrect [User reject] USER=xxxx	
	User authe USER=xxx [Action] None.	User authentication for Secure Wake-on-LAN failed because of an invalid user name or password. USER=xxxx: User name [Action] None.			
2	E3	SWOL	03700001	Login incorrect [Server busy] USER=xxxx	
	User authentication for Secure Wake-on-LAN failed because the user management area does not have sufficient capacity. USER=xxxx: User name [Action] Wait a while, and then retry the operation.				
3	E3	SWOL	03700002	Device not found DEVICENAME=xxxx	
	The terminal selected by a request is not registered in the database. DEVI CENAME =xxxx: Terminal name [Action] None.				
4	E3	SWOL	03700003	User entry expired USER=xxxx	
	A user entry shifted to the expiration phase because a user timed out during user authentication for Secure Wake-on-LAN. USER=xxxx: User name [Action] None.				
5	E3	SWOL	03700004	Magic packet processing was completed USER=xxxx MAC=xxxx.xxxx.xxxx	
	Start command sending succeeded. USER=xxxx: User name MAC=xxxx. xxxx. xxxx: Terminal MAC address [Action] None.				

No.	Event level	Event location	Message ID	Message text
	Descriptio	on		
6	E3	SWOL	03700005	Configuration of DHCP snooping is no set
	The DHCP snooping configuration is not set. [Action] To monitor the status of terminals to which DHCP assigns IP addresses, set the DHCP snoopin configuration.			

2.4.10 Event location = ECO

The following tables describe device failure and event information when the event location is ECO.

• E3 information

Table 2-39 Device-related E3 information when the event location is ECO

No.	Event level	Event location	Message ID	Message text
	Descriptio	on		
1E3ECO03b00101System changes to the sch because it became schedu		System changes to the schedule power control because it became schedule time.		
	The sched [Action] None.	uled time for	power saving l	has been reached.
2	E3	ECO	03b00102	System changes from the schedule power control because it ended schedule time.
	The sched [Action] None.	uled time for	power saving l	has ended.
3	E3	ECO	03b00200	This machine is going to sleep in a few seconds.
	The switch [Action] None.	will enter the	sleep state in	a few seconds.

• E8 information

Table 2-40 Device-related	E8 information	when the even	t location is ECO
		which the even	

No.	Event level	Event location	Message ID	Message text	
	Descriptio	on	-		
1	E8	ECO	03bfa001	Detect Uncorrectable Error (MII Interface)	
	An error wa the switch [Action] Replace th	as detected o was in the sle e switch.	n the MIIM inte eep state.	erface of the Ethernet interface embedded in the CPU while	
2	E8	ECO	03bfa002	Detect Uncorrectable Error (Ethernet Interface)	
	An error was in the [Action] Replace th	as detected o sleep state. e switch.	n the internal	Ethernet interface embedded in the CPU while the switch	
3	E8	ECO	03bfa003	Detect Uncorrectable Error (cannot turn off the SW LSI)	
	The power of a switch device could not be turned off when the switch transitioned to the sleep state. [Action] Replace the switch.				
4	E8	ECO	03bfa004	Detect Uncorrectable Error (MIIM connectivity)	
	The connection between a switch device and PHY (MIIM) could not be disabled when the switch transitioned to the sleep state. [Action] Replace the switch.				
5	E8	ECO	03bfa005	Detect Uncorrectable Error (MIIM connectivity)	
	The connection between a switch device and PHY (MIIM) could not be enabled when the switch transitioned to the sleep state. [Action] Replace the switch.				
6	E8	ECO	03bfa006	Detect Uncorrectable Error (SGMII connectivity)	
	The conne transitione [Action] Replace th	ction betweer d to the sleep e switch.	n the CPU and state.	PHY (SGMII) could not be enabled when the switch	

2.4.11 Event location = SML

The following table describes device failure and event information when the event location is $\underline{SML}.$

• E3 information

Table 2-41 Device-related E3 information when the event location is SML

No.	Event level	Event location	Message ID	Message text
	Descriptio	n		
1	E3	SML	0400000	Status is Standalone.
	The SML status changed to the Standal one status. [Action] Make sure the peer link is in the link-up state.			
2	E3	SML	04000001	Status is Full.
	The SML s [Action] None.	tatus change	d to the Ful l	status.
3	E3	SML	04000002	Status is Conflict.
	The SML status changed to the Conflict status. [Action] Review the SML ID setting (system sml id).			
4	E3	SML	04000003	Cleared MAC Address Table entry in the SML domain.
	A MAC add [Action] None.	dress table er	ntry in the sam	e SML domain was cleared.

• E4 information

Table 2-42 Device-related E4 information when the event location is SML

No.	Event level	Event location	Message ID	Message text
	Descriptic	n		
1	E4	SML	04000004	Peer-link is normal.
All ports specified in a peer link are up. [Action] None.).	

No.	Event level	Event location	Message ID	Message text
	Descriptic	on		
2	E4	SML	04000005	Failure of some peer-link.
Some of the ports specified in a peer link are down. [Action] Check the line status.			ink are down.	
3	E4	SML	04000006	Recovery of some peer-link.
	Some of the ports specified in a peer link are up. [Action] None.			ink are up.
4	E4	SML	0400007	Peer-link disconnected.
	All ports sp [Action] Check the	pecified in a p line status.	eer link are do	wn.

2.5 Port

2.5.1 Event location = PORT

The following tables describe device failure and event information when the event location is **PORT**.

• E3 information

Table 2-43 Device-related E3 information when the event location is PORT

No.	Event level	Event location	Message ID	Message text	
	Descriptio	on			
1	E3	PORT	01e0000b	Port enabled administratively.	
	A port is enabled. < <i>IF#></i> : Interface port number [Action] None.				
2	E3	PORT	01e0000b	Port disabled administratively.	
A port is disabled. : Interface port number [Action] None.					
3	E3	PORT	01e00200	Port activated administratively.	
	A port was specified to be active. : Interface port number [Action] None.				
4	E3	PORT	01e00201	Port inactivated administratively.	
	A port was < <i>IF#</i> >: Inte [Action] None.	specified to t erface port nu	be inactive. mber	·	

• E4 information

Table 2-44 Device-related	E4 information	when the e	event location	is PORT
				•••••••••••••••••••••••••••••••••••••••

No.	Event level	Event location	Message ID	Message text	
	Description				
1	E4	PORT	01e01103	Auto negotiation failed.	
	Auto-nego [Action] Chec Exect no pro- If the	tiation has fai k the auto-ne ute the test oblem. devices and	led. gotiation settin interfaces the cables are	gs. operation command, and make sure that the cables have normal, check the connected devices.	
2	E4	PORT	01e3 <i>x</i> 001	Port Up.	
	The port is up. x: 2 (GigabitEthernet), 4 (TenGigabitEthernet) [Action] None.				
3	E4	PORT	01e3 <i>x</i> 002	Error detected on the port.	
	 Errors were detected at the ports. x: 2 (GigabitEthernet), 4 (TenGigabitEthernet) [Action] For 10BASE-T, 100BASE-TX, or 1000BASE-T: 1. Make sure that the specified cables are properly connected. 2. Make sure that the remote switch has finished starting up. 3. Execute the test interfaces operation command, and make sure that the switches and cables have no problem. 				
4	E4	PORT	01e40001	NIF <nif no.=""> Port <port no.="">: i nactivated because of broadcast storm detection.</port></nif>	
	A port was deactivated because a broadcast storm was detected. NIF <i><nif no.=""></nif></i> Port <i><port no.=""></port></i> : Interface port number [Action] After recovering from the storm, use the activate operation command to change the port status to active.				
5	E4	PORT	01e40002	NIF <nif no.=""> Port <port no.="">: broadcast storm detected.</port></nif>	
	A broadcas NI F <i><nif i="" r<=""> [Action] None.</nif></i>	st storm was (10.> Port <	detected. <i>port no.</i> >: Inter	face port number	

No.	Event level	Event location	Message ID	Message text	
	Descriptic	on			
6	E4	PORT	01e40003	NIF <nif no.=""> Port <port no.="">: broadcast storm recovered.</port></nif>	
	The system NIF <i><nif i="" r<=""> [Action] None.</nif></i>	n has recove no.> Port <	red from a broa port no.>: Inter	adcast storm. face port number	
7	E4	PORT	01e40004	NIF <nif no.=""> Port <port no.="">: inactivated because of multicast storm detection.</port></nif>	
	A port was deactivated because a multicast storm was detected. NIF < <i>nif no.></i> Port < <i>port no.></i> : Interface port number [Action] After recovering from the storm, use the activate operation command to change the port status to active.				
8	E4	PORT	01e40005	NIF <nif no.=""> Port <port no.="">: multicast storm detected.</port></nif>	
	A multicast storm was detected. NIF <nif no.=""> Port <port no.="">: Interface port number [Action] None.</port></nif>				
9	E4	PORT	01e40006	NIF <nif no.=""> Port <port no.="">: multicast storm recovered.</port></nif>	
	The system has recovered from a multicast storm. NIF < <i>nif no.</i> > Port < <i>port no.</i> >: Interface port number [Action] None.				
10	E4	PORT	01e40007	NIF <nif no.=""> Port <port no.="">: i nactivated because of unicast storm detection.</port></nif>	
	A port was deactivated because a unicast storm was detected. NIF <i><nif no.=""></nif></i> Port <i><port no.=""></port></i> : Interface port number [Action] After recovering from the storm, use the activate operation command to change the port status to active.				
11	E4	PORT	01e40008	NIF <nif no.=""> Port <port no.="">: uni cast storm detected.</port></nif>	
	A unicast s NIF <i><nif i="" r<=""> [Action] None.</nif></i>	storm was def no.> Port <	ected. port no.>: Inter	face port number	

No.	Event level	Event location	Message ID	Message text			
	Descriptio	on					
12	E4	PORT	01e40009	NIF <nif no.=""> Port <port no.="">: uni cast storm recovered.</port></nif>			
	The syster NIF <i><nif i="" r<=""> [Action] None.</nif></i>	n has recove no.> Port <	ed from a unic port no.>: Inter	ast storm. face port number			
13	E4	PORT	01e50001	NIF <nif no.=""> Port <port no.="">: i nactivated because of uni-directional link detection.</port></nif>			
	 A port was deactivated because a unidirectional link failure was detected. NIF <nif no.=""> Port <port no.="">: Interface port number</port></nif> [Action] Make sure that the IEEE 802.3ah/OAM functionality is valid at the connection destination. Execute the test interfaces command, and make sure that the switches and cables have no errors. If the devices and the cables are normal, check the connected devices. After the above, activate the port by using the activate command. 						
	•	R8 inform	ation				
	Tabl	Table 2-45 Device-related R8 information when the event location is PORT					

No.	Event level	Event location	Message ID	Message text	
	Descriptio	'n			
1	R8	PORT	01ef01 <i>xx</i> 01ef02 <i>xx</i>	<pre> PORT setting recovered by SFP change.</pre>	
	The switch recovered from the port setting failure after the SFP module was changed. xx: Port number (hexadecimal) : Interface port number [Action] None.				

• E8 information

Table 2-46 Device-related E8 information when the event location is PORT

No.	Event level	Event location	Message ID	Message text	
	Descriptio	on	-		
1	E8	PORT	01e23001	<pre><xxxxxxx> : Failed SFP xx Tx Disable.</xxxxxxx></pre>	
	SFP transmission control failed. <xxxxxxx>: Detection location (information for vendor analysis) xx = Specific SFP port number [24T] [24T4X] [24TD] 0 to 3: 0/25 to 0/28 [48T] [48T2X] [48TD] 0 to 3: 0/49 to 0/52 [24S4X] [24S4XD] 0 to 27: 0/1 to 0/28 [Action] Use the rel oad operation command to restart the switch.</xxxxxxx>				
2	E8	PORT	01e23002	<pre><xxxxxxx> : Failed SFP xx Tx Enable.</xxxxxxx></pre>	
	SFP transmission control failed. <xxxxxxx>: Detection location (information for vendor analysis) xx = Specific SFP port number [24T] [24T4X] [24TD] 0 to 3: 0/25 to 0/28 [48T] [48T2X] [48TD] 0 to 3: 0/49 to 0/52 [24S4X] [24S4XD] 0 to 27: 0/1 to 0/28 [Action] Use the rel oad operation command to restart the switch</xxxxxxx>				
3	E8	PORT	01e31000	Failed Pause MAC Address setting. ()	
	An attempt to set a MAC address for Pause failed. : Interface port number [Action] Use the rel oad operation command to restart the switch.				
4	E8	PORT	01ef01 <i>xx</i>	<pre> PORT setting failed by SFP change. [Code=<code>]</code></pre>	
	An attempt to set the port failed when an SFP module was being replaced. xx: Port number (hexadecimal) : Interface port number <code>: Cause code (information for vendor analysis) [Action] Remove and then insert the SFP module again. If the system has recovered from the failure, operations can resume. If the recovery failed, switch to an unused port. To use the failed port again, replace the device.</code>				

No.	Event level	Event location	Message ID	Message text	
	Descriptio	'n			
5	E8	PORT	01ef02 <i>xx</i>	<pre> PORT setting failed by SFP change. [Code=<code>]</code></pre>	
	An attempt to set the port failed when an SFP module was being replaced. xx: Port number (hexadecimal) : Interface port number <code>: Cause code (information for vendor analysis) [Action] Re-execute the line test command. If the system has recovered from the failure, operations can resume. If the recovery failed, switch to an unused port. To use the failed port again, replace the device.</code>				
	•	E9 informa	ation		
	Tabl	e 2-47 Devi	ce-related E9	information when the event location is PORT	
No.	Event level	Event location	Message ID	Message text	
	Descriptio	'n			
1	E9	PORT	01e00001	<pre> speed setting failed.</pre>	
	An attempt to set the speed failed. : Interface port number [Action] Retry the operation.				
2	E9	PORT	01e00002	duplex setting failed.	
	An attempt < <i>IF</i> #>: Inte [Action] Retry the o	An attempt to set the duplex failed. < <i>IF#></i> : Interface port number [Action] Retry the operation.			
3	E9	PORT	01e00003	<pre> flowcontrol setting failed.</pre>	
	An attempt to set the flow control failed. < <i>IF#></i> : Interface port number [Action] Retry the operation.				
4	E9	PORT	01e0000C	<pre> mdix setting failed.</pre>	
	An attempt	to set MDIX	failed.		

</F#>: Interface port number [Action] Retry the operation.

No.	Event level	Event location	Message ID	Message text		
	Descriptio	on	I			
5	E9	PORT	01e00004	Failed Interface MTU setting.		
	An attempt to set the MTU specified in the interface failed. [Action] Retry the operation.					
6	E9	PORT	01e00009	Failed System MTU setting.		
	An attemp [Action] Retry the c	t to set the sy	stem MTU faile	ed.		
7	E9	PORT	01e12100	PLM : Config setting Error.		
	An attemp [Action] Retry the c	An attempt to set the port failed. [Action] Retry the operation.				
8	E9	PORT	01e3231b	<xxxxxxxx> Message Queue Receive Error. Errno: xxxx</xxxxxxxx>		
An error occurred when receiving a message between tasks. < <u>xxxxxxxxx></u> : Detection location (information for vendor analysis) <u>xxxx</u> : Cause code (information for vendor analysis) [Action] Use the <u>rel oad</u> operation command to restart the switch.				essage between tasks. nation for vendor analysis) dor analysis) to restart the switch.		
9	E9	PORT	01e3231c	<xxxxxxx> Message Queue Send Error. Errno: xxxx</xxxxxxx>		
An error occurred when sending a message between tasks. <xxxxxxx>: Detection location (information for vendor analysis) xxxx: Cause code (information for vendor analysis) [Action] Use the rel oad operation command to restart the switch.</xxxxxxx>			ssage between tasks. nation for vendor analysis) dor analysis) to restart the switch.			
10	E9	PORT	01e30200	<pre><xxxxxxx> Failed Register a handler. <xxxxxxx> Failed Register a handler (Linkdeb).</xxxxxxx></xxxxxxx></pre>		
	An attemp <xxxxxxxx [Action] Use the re</xxxxxxxx 	t to register the total to register the total to	ne notification f ocation (inform	unctionality failed. nation for vendor analysis) to restart the switch.		
11	E9	PORT	01e <i>x</i> 5000	<xxxxxxx> WDT Time Out.</xxxxxxx>		
	A watchdog timeout occurred while a port was being controlled. <xxxxxxx>: Detection location (information for vendor analysis) x: "1"-PLM, "2"-MTCM, "3"-LCM/LINKDeb [Action] None. The switch automatically restarts.</xxxxxxx>					

No.	Event level	Event location	Message ID	Message text
	Descriptio	on		
12	E9	PORT	01e <i>x</i> 5001	<xxxxxxx out.<="" td="" time="" wdt=""></xxxxxxx>
	A watchdog timeout occurred while a port was being controlled. <xxxxxxx>: Detection location (information for vendor analysis) x: ACT [Action] None. The switch automatically restarts.</xxxxxxx>			

2.5.2 Event location = SFP

The following tables describe device failure and event information when the event location is SFP.

• E4 information

Table 2-48 Device-related E4 information when the event location is SFP

No.	Event level	Event location	Message ID	Message text	
	Descriptic	on			
1	E4	SFP	024000 <i>x</i> 0	Transceiver connected.	
	A transceiv x: "0"-SFP, [Action] None.	ver insertion v "1"-SFP+	vas detected.		
2	E4	SFP	02400001	Transceiver not connected.	
	An SFP module was removed from a port. [Action] None.				
3	E4	SFP	024000 <i>x</i> 2	Transceiver not supported.	
	An SFP module [Unknown] is inserted in the port. x: "0"-SFP, "1"-SFP+ [Action] Make sure that the SFP module is valid, and then insert it again. The valid SFP module might not be recognized because of a loose connection. In this case, re-insert it.				

• R8 information

Table 2-49 Device-related R8 information when the event location is SFP

No.	Event level	Event location	Message ID	Message text
	Descriptic	on		
1	R8	SFP	02400201	Port recovered from hardware failure.
	A port has [Action] None.	recovered fro	om a hardware	failure.
2	R8	SFP	02400401	System recovered from port failure.
	All ports ha [Action] None.	ave recovered	from the failu	re.
3	R8	SFP	024006 <i>xx</i>	SFP-T access recovered.
	The port ha xx: Port nu [Action] None.	as recovered mber (hexade	from an error i ecimal)	n the SFP-T transceiver inserted into the port.

E8 information

Table 2-50 Device-related E8 information when the event location is SFP

No.	Event level	Event location	Message ID	Message text	
	Descriptic	on			
1	E8	SFP	02400201	Port restarted because of its hardware failure.	
A port was restarted because a hardware failure occurred at the port. [Action] Check subsequent fault recovery log entries or fault recovery failure log recovered from the failure, operations can resume. If the recovery failed, To use the failed port again, replace the device. If a transceiver is implem firmly installed.				are failure occurred at the port. ntries or fault recovery failure log entries. If the system has can resume. If the recovery failed, switch to an unused port. e device. If a transceiver is implemented, make sure that it is	
2	E8	SFP	02400401	Port restarted, but not recovered from hardware failure.	
	A port restarted, but the port has not recovered from a hardware failure. [Action] Switch to an unused port. To use the failed port again, replace the device. If a transceiver is implemented, make sure that it is firmly installed.				

No.	Event level	Event location	Message ID	Message text	
	Descriptic	on			
3	E8	SFP	024006 <i>xx</i>	SFP-T access error.	
	An error occurred in the SFP-T inserted into the port. xx: Port number (hexadecimal) [Action] Make sure that the SFP module is valid, and then insert it again. The valid SFP module might not be recognized because of a loose connection. In this case, re-insert it.				

2.5.3 Event location = FABRIC

The following tables describe device failure and event information when the event location is FABRIC.

• E3 information

Table 2-51 Device-related E3 information when the event location is FABRIC

No.	Event level	Event location	Message ID	Message text	
	Descriptio	'n			
1	E3	FABRIC	01d00001	<pre>b-driver: Switch Device driver succeeded in memory restoration. (<type>)</type></pre>	
	Recovery from a parity error succeeded. <type>: L2_ENTRY, L2MC [Action] None.</type>				

• E4 information

Table 2-52 Device-related E4 information when the event location is FABRIC

No.	Event level	Event location	Message ID	Message text		
	Descriptic	on				
1	E4	FABRIC	01d100 <i>xx</i>	Switch Device driver detected a fault. [<code>]</code>		
	A recovery process was performed because a failure was detected in the device driver. xx: Port number (hexadecimal) <code>: Error code (information for vendor analysis) [Action] Check the following if the failure is detected repeatedly.</code>					
	 Execute the test interfaces operation command, and make sure that the device or the cables have no problem. If the devices and the cables are normal, check the connected devices. 					

• E8 information

Table 2-53 Device-related E8 information when the event location is FABRIC

No.	Event level	Event location	Message ID	Message text	
	Descriptio	'n			
1	E8	FABRIC	01d00000	Switch Device Configuration Unmatch	
	The device [Action] Use the re	e type definitions type definitions the second s	on does not ma	atch the number of recognized devices. to restart the device.	
2	E8	FABRIC	01df0000	Switch Device Driver Startup Sequence Failure.	
	An attempt [Action] Use the re	to start the c l oad operat	levice driver fa	to restart the device.	
3	E8	FABRIC	01d90000	Failed to set STG <stg#> (rv=xx)</stg#>	
	Configuration for the hardware failed. <i><stg#></stg#></i> : Information for vendor analysis <i>xx</i> : Information for vendor analysis [Action] Restart the Switch by executing the <u>rel oad</u> operation command, or by turning it off and then on.				
4	E8	FABRIC	01dxxxxx	b-driver: xxxx	
	An error was detected in the device driver. xxxx = Error message: Information for vendor analysis [Action] Replace the device.				
	•	E9 inform	ation		
	Tabl	e 2-54 Devi	ce-related ES	information when the event location is FABRIC	
No.	Event level	Event location	Message ID	Message text	
	Descriptio	n			
1	E9	FABRIC	01d00000	Switch Device Configuration Unmatch	
	The device [Action] None. The	e type definition device auton	on does not manatically restar	atch the number of recognized devices. ts.	

No.	Event level	Event location	Message ID	Message text		
2	E9	FABRIC	01d00001	Switch Device Driver Error (returned by BCMX attach x)		
	The API cannot be controlled because an error occurred during processing to attach the device driver. [Action] None. The device automatically restarts.					
3	E9	FABRIC	01d00002	Switch Device Driver Startup Sequence Failure		
	The device driver failed to start. [Action] None. The device automatically restarts.					
4	E9	FABRIC	01d00003	Switch Device Driver Startup Sequence Time-Out		
	A timeout occurred during device driver startup. [Action] None. The device automatically restarts.					
5	E9	FABRIC	01d00004	<pre>b-driver: Switch Device driver detected a fault.(<type>) <code></code></type></pre>		
	A failure was detected when the threshold was exceeded. <type>: "L2_ENTRY", "L2MC", "ECC", "COMMON" <code>: Error code (information for vendor analysis) [Action] None. The device automatically restarts.</code></type>					
6	E9	FABRIC	01d00005	b-driver: Parity error occurred.(<type>)</type>		
	A parity error was detected. (Excluding L2_ENTRY, L2MC, and CELLCRCERROR) <type>: "ECC", "COMMON" [Action] None. The device automatically restarts.</type>					
7	E9	FABRIC	01d00006	<pre>b-driver: Switch Device driver failed in memory restoration. (<type>) <code></code></type></pre>		
	Recovery from the parity error failed. <type>: L2_ENTRY <code>: Error code (information for vendor analysis) [Action] None. The device automatically restarts.</code></type>					
8	E9	FABRIC	01dxxxxx	b-driver: xxxx		
An error was detected in the device driver. xxxx = Error message: Information for vendor ar [Action] None. The device automatically restarts.			n the device di Information for matically resta	river. vendor analysis rts.		

2.5.4 Event location = ULR

The following table describes device failure and event information when the event location is ULR.

• E4 information

Table 2-55 Device-related E4 information when the event location is ULR

No.	Event level	Event location	Message ID	Message text		
	Description					
1	E4	ULR	03800000	Change to secondary Port from primary Port .		
	The active port was switched to the secondary port because a link failure occurred in the primary port. : Interface port number [Action] Check the failure in the primary port.					
2	E4	ULR	03800001	Change to primary Port from secondary Port .		
	The active port was switched to the primary port because a link failure occurred in the secondar port. : Interface port number [Action] Check the failure in the secondary port.					
3	E4	ULR	03800002	Change to secondary Port from primary ChGr <channel group#="">.</channel>		
	The active port was switched to the secondary port because a link failure occurred in the primary port. < <i>IF#></i> : Interface port number < <i>Channel group#></i> : Channel group number [Action] Check the failure in the primary port.					
4	E4	ULR	03800003	Change to primary Port from secondary ChGr <channel group#="">.</channel>		
	The active port was switched to the primary port because a link failure occurred in the secondary port. <					

No.	Event level	Event location	Message ID	Message text		
	Description					
5	E4	ULR	03800004	Change to secondary ChGr <channel group#=""> from primary Port .</channel>		
	The active port was switched to the secondary port because a link failure occurred in the primary port. <i>Channel group#></i> : Channel group number <i>IF#></i> : Interface port number [Action] Check the failure in the primary port.					
6	E4	ULR	03800005	Change to primary ChGr <channel group#=""> from secondary Port .</channel>		
	The active port was switched to the primary port because a link failure occurred in the secondary port. < <u>Channel group#></u> : Channel group number < <u>IF#></u> : Interface port number [Action] Check the failure in the secondary port.					
7	E4	ULR	03800006	Change to secondary ChGr <channel group#=""> from primary ChGr <channel group#="">.</channel></channel>		
	The active port was switched to the secondary port because a link failure occurred in the primary port. <i>Channel group#></i> : Channel group number [Action] Check the failure in the primary port.					
8	E4	ULR	03800007	Change to primary ChGr <channel group#=""> from secondary ChGr <channel group#="">.</channel></channel>		
	The active port was switched to the primary port because a link failure occurred in the secondary port. <i>Channel group#></i> : Channel group number [Action] Check the failure in the secondary port.					
9	E4	ULR	03800008	Change to secondary Port from primary Port forced.		
	Manual switching from the primary port to the secondary port was executed. : Interface port number [Action] None.					

No.	Event level	Event location	Message ID	Message text		
	Descriptio	on				
10	E4	ULR	03800009	Change to primary Port from secondary Port forced.		
	Manual switching from the secondary port to the primary port was executed. : Interface port number [Action] None.					
11	E4	ULR	0380000a	Change to secondary Port from primary ChGr <channel group#=""> forced.</channel>		
	Manual switching from the primary port to the secondary port was executed. : Interface port number : Channel group number [Action] None.					
12	E4	ULR	0380000b	Change to primary Port from secondary ChGr <channel group#=""> forced.</channel>		
	Manual switching from the secondary port to the primary port was executed. : Interface port number : Channel group number [Action] None.					
13	E4	ULR	0380000c	Change to secondary ChGr < <i>Channel group#></i> from primary Port < <i>IF#></i> forced.		
	Manual switching from the primary port to the secondary port was executed. < <u>Channel group#></u> : Channel group number < <u>IF#></u> : Interface port number [Action] None.					
14	E4	ULR	0380000d	Change to primary ChGr <channel group#=""> from secondary Port forced.</channel>		
	Manual switching from the secondary port to the primary port was executed. < <u>Channel group#</u> >: Channel group number < <u>IF#></u> : Interface port number [Action] None.					
15	E4	ULR	0380000e	Change to secondary ChGr <channel group#=""> from primary ChGr <channel group#=""> forced.</channel></channel>		
	Manual switching from the primary port to the secondary port was executed. <i>Channel group#></i> : Channel group number [Action] None.					
No.	Event level	Event location	Message ID	Message text		
-----	--	--	--------------------------------	---	--	--
	Descriptio	on				
16	E4	ULR	0380000f	Change to primary ChGr <channel group#=""> from secondary ChGr <channel group#=""> forced.</channel></channel>		
	Manual sw < <i>Channel</i> [Action] None.	itching from t group#>: Cha	he secondary Innel group nu	port to the primary port was executed. mber		
17	E4	ULR	03800010	Mac-address-table update frame cannot be sent on the Port because capacity was exceeded.		
	A MAC add sent excee < <i>IF#</i> >: Inte [Action] None.	A MAC address update frame cannot be sent because the number of MAC addresses which were sent exceeds the maximum (1024). < <i>IF#></i> : Interface port number [Action] None.				
18	E4	ULR	03800011	Mac-address-table update frame cannot be sent on the ChGr <i><channel group#=""></channel></i> because capacity was exceeded.		
	A MAC address update frame cannot be sent because the number of MAC addresses which were sent exceeds the maximum (1024). < <i>Channel group#</i> >: Channel group number [Action] None.					
19	E4	ULR	03840000	Cleared MAC Address Table entry.		
	The MAC a [Action] None.	address table	was cleared b	because a flush control frame was received.		

2.6 Device

2.6.1 Event location = ROM

The following tables describe device failure and event information when the event location is $\ensuremath{\texttt{ROM}}$

• E3 information

Table 2-56 Device-related E3 information when the event location is ROM

No.	Event level	Event location	Message ID	Message text
	Descriptio	on		<u>.</u>
1	E3	ROM	02900000	FROM write timeout Addr=xxxxxxx, getData=xx
	An error oc Addr=xxxx [Action] Re-execute	ccurred in an xxxxx, getD	attempt to writ at a=xx: Dete nd.	e to flash memory. ction location (information for vendor analysis)
2	E3	ROM	02900000	FROM erase timeout Addr=xxxxxxx
	An error occurred in an attempt to erase the flash memory. Addr=xxxxxxxx: Detection location (information for vendor analysis) [Action] Re-execute the command.			
3	E3	ROM	02900001	flash format complete.
	Initialization of the flash memory file system succeeded. (This information is collected even if the format flash operation command succeeds.) [Action] None.			
4	E3	ROM	02900002	flash format error. detail=xxxx
	Initialization of the flash memory file system failed. detail=xxxx: Cause code (information for vendor analysis) [Action] Re-execute the format flash operation command. If this message is still collected, the flash memory might be corrupted.			
5	E3	ROM	02900003	flash format task not ended. detail=xxxx
	Initialization of the flash memory file system was not completed. detail=xxxx: Cause code (information for vendor analysis) [Action] Re-execute the format flash operation command. If this message is still collected, the flas memory might be corrupted.			

No.	Event level	Event location	Message ID	Message text
	Descriptio	on	1	·
6	E3	ROM	02900004	<pre>flash format system error(1). detail=xxxx</pre>
	An error or detail=x [Action] Re-execute memory m	ccurred during xxx: Cause c e the format ight be corrup	the initializati ode (informatio flash opera oted.	on of the flash memory file system. on for vendor analysis) ation command. If this message is still collected, the flash
7	E3	ROM	02900005	<pre>flash format system error(2). detail=xxxx</pre>
	An error occurred during the initialization of the flash memory file system. detail=xxxx: Cause code (information for vendor analysis) [Action] Re-execute the format flash operation command. If this message is still collected, the flash memory might be corrupted.			
8	E3	ROM	02900013	file system error.
	The storage area for the flash memory configuration cannot be used. [Action] Try to execute the format flash operation command. If the error still occurs, the flash me might be corrupted.			v configuration cannot be used. eration command. If the error still occurs, the flash memory
9	E3	ROM	02900064	FROM write fail [cnt=xxxxxxxx, size=xxxxxxxx, err=xxxxxxxx]
	Writing to flash memory failed when executing the ppupdate or restore operation command. cnt=xxxxxxx: Cause code (information for vendor analysis) si ze=xxxxxxx: Cause code (information for vendor analysis) err=xxxxxxxx: Cause code (information for vendor analysis) [Action] Re-execute the ppupdate operation command (or, if the restore command was executed, re-execute the restore command). If the error still occurs, replace the switch			
	٠	E9 inform	ation	
	Tabl	e 2-57 Devi	ce-related E9	o information when the event location is ROM
No.	Event level	Event location	Message ID	Message text
	Descriptio	n		
1	E9	ROM	02900007	flash write error. addr=xxxxxxxx size=xxxx
	An error oc addr=xxx	ccurred in an	attempt to writ	e to flash memory. location (information for vendor analysis)

[Action] Re-execute the command. If the error still occurs, replace the device.

No.	Event level	Event location	Message ID	Message text	
	Descriptic	n			
2	E3	ROM	02900008	flash erase error. addr=xxxxxxxx size=xxxx	
	An error occurred in an attempt to erase the flash memory. addr=xxxxxx si ze=xxxx: Detection location (information for vendor analysis) [Action] Re-execute the command. If the error still occurs, replace the device.				

2.6.2 Event location = RTC

The following tables describe device failure and event information when the event location is **RTC**.

• E3 information

Table 2-58 Device-related E3 information when the event location is RTC

No.	Event level	Event location	Message ID	Message text
	Descriptio	'n		
1	E3	RTC	0220012d	Battery EMPTY
	The device power to th [Action] Reset the t	started wher the device was ime.	the RTC batt turned off).	ery is 0 V (when the device is started 10 or more days after

• E9 information

Table 2-59 Device-related E9 information when the event location is RTC

No.	Event level	Event location	Message ID	Message text
	Descriptio	'n		
1	E9	RTC	022000c9	Initialize Failure
	An attempt to initialize the RTC failed. [Action] Use the rel oad operation command to restart the device.			to restart the device.
2	E9	RTC	0220012e	Retry failure
	An attempt [Action] None.	to access the	e RTC failed.	

2.6.3 Event location = THERMO

The following tables describe device failure and event information when the event location is THERMO.

• E3 information

Table 2-60 Device-related E3 information when the event location is THERMO

No.	Event level	Event location	Message ID	Message text
	Descriptio	'n		·
1	E3	THERMO	02300302	Accumulation operation time was initialized
	The accum corrupted. [Action] None.	nulated opera	ting time was i	reset to zero because the accumulated operating time was
2	E3	THERMO	02300304	Data of accumulation operation time fail
	The data fo [Action] None.	or the accum	ulated operatin	ng time is corrupted.
3	E3	THERMO	02300501	The temperature of hardware reached the warning level (<i><temperature threshold=""></temperature></i> degree).
The temperature of the hardware has exceeded the temperature set by using the syst temperature-warning-level configuration command. <temperature threshold="">: Temperature (in degrees Celsius) set by using the system temperature-warning-level configuration command [Action] Because the temperature of the device reached the specified temperature, check the en (for example, the status of the fan, ventilation, and heat sources around the device).</temperature>				exceeded the temperature set by using the system offiguration command. e (in degrees Celsius) set by using the system offiguration command e reached the specified temperature, check the environment offilation, and heat sources around the device).
4	E3	THERMO	02300502	The temperature of hardware came down from the warning level.
	The tempe temperat [Action] None.	rature of the ure-warni r	hardware drop ng-level cor	pped below the temperature set by using the system ofiguration command by 3 degrees Celsius.
5	E3	THERMO	02300503	The temperature logging can't be written.
	Writing of t [Action] None.	emperature lo	ogging informa	ation failed.

No.	Event level	Event location	Message ID	Message text		
	Descriptio	'n				
6	E3	THERMO	02300504	The average temperature of hardware reached the warning level. (<temperature> degree/<temperature threshold=""> degree <days> day(s))</days></temperature></temperature>		
	The average temperature of the hardware exceeded the temperature set by using the system temperature-warning-level average configuration command. <temperatures: (in="" average="" celsius)<br="" degrees="" device="" of="" temperature="" the=""><temperature (in="" by="" celsius)="" degrees="" set="" system<br="" temperature="" the="" thresholds:="" using="">temperature-warning-level average configuration command <dayss: average="" calculation="" period<br="" temperature="">[Action] Because the average temperature of the device reached the specified average temperature, check the environment (for example, the status of the fan, ventilation, and heat sources around the device).</dayss:></temperature></temperatures:>					

R7 information

Table 2-61 Device-related R7	information when the	event location is THERMO
--	----------------------	--------------------------

No.	Event level	Event location	Message ID	Message text
	Descriptio	'n		
1	R7	THERMO	02300601	An environmental level became normal
	The external temperature that was exceeding the threshold returned to normal. [Action] None.			

• E7 information

Table 2-62 Device-related E7 information when the event location is THERMO

No.	Event level	Event location	Message ID	Message text
	Descriptio	'n		
1	E7	THERMO	02300301	Temperature exceeds the threshold
	The external temperature exceeds the threshold. [Action] Check and improve the environment, such as the room temperature around the switches.			
2	E7	THERMO	02300303	Temperature sensor re-try failure
	The retry attempt by the temperature sensor failed. [Action] Use the rel oad operation command to restart the switch.			

No.	Event level	Event location	Message ID	Message text	
	Descriptio	on			
3	E7	THERMO	02300305	Set Configuration Failure	
	Verification failed when setting the configuration to the temperature sensor register at the sw startup. [Action] Use the rel oad operation command to restart the switch.				
	E9 information				
	Table 2-63 Device-related E9 information when the event location is THERMO				
No.	Event	Event	Message	Message text	

NO.	level	location	ID	message text	
	Descriptio	on			
1	E9	THERMO	02300310	Hardware is becoming high temperature which give damage to this system.	
	The hardware temperature has reached a temperature that is likely to critically damage device operation. [Action]				
	 Check and improve the environment, such as ventilation and heat sources around the switches. 				
	2. Cheo	ck the fans. If	a failure has o	ccurred, replace the switch containing the faulty fan.	

2.6.4 Event location = SDCARD

The following tables describe device failure and event information when the event location is SDCARD.

• E3 information

Table 2-64 Device-related E3 information when the event location is SDCARD

No.	Event level	Event location	Message ID	Message text
	Descriptio	n		
1	E3	SDCARD	02600191	Not Support File System
	Media for a [Action] Reformat t	a file system o he media by	other than FAT using either FA	12 or FAT16 was inserted. AT12 or FAT16.

No.	Event level	Event location	Message ID	Message text
	Descriptio	on		
2	E3	SDCARD	026xxxxx other than the above	All other cases
Messages other than those listed above might have been collected by the comman maintenance functionality. Also see the manual AX2500S and AX1200S Command-Free Maintenance Reference				ve might have been collected by the command-free X1200S Command-Free Maintenance Reference.
	E9 information			
	Tabl	e 2-65 Devi	ce-related E9	information when the event location is SDCARD
No.	Event	Event	Message	Message text

NO.	level	location	ID	Message lext		
	Descriptio	Description				
1	E9	SDCARD	026000c9	Create Device Fail		
	Generation [Action] Use the re	of a memory	v card access	device failed during initialization at the switch startup. to restart the switch.		
2	E9	SDCARD	026000ca	Could Not Create Semaphore		
	Generation of a semaphore failed during initialization at the switch startup. [Action] Use the rel oad operation command to restart the switch.					
3	E9	SDCARD	026000cb	Could Not Create Message Que		
	Generation of a message queue failed during initialization at the switch startup. [Action] Use the rel oad operation command to restart the switch.			d during initialization at the switch startup. to restart the switch.		
4	E9	SDCARD	026000cc	Could not Create Task		
	Generation [Action] Use the re	of a task fail l oad operat	ed during initia	alization at the switch startup. to restart the switch.		

2.6.5 Event location = FAN

The following tables describe device failure and event information when the event location is FAN.

• E3 information

Table 2-66 Device-related E3 information when the event location is FAN

No.	Event level	Event location	Message ID	Message text
	Descriptio	'n		
1	E3	FAN	02b00000	FAN started by the system FAN control.
	Fans were [Action] None.	started by te	mperature mo	nitoring.
2	E3	FAN	02b00001	FAN stopped by the system FAN control.
	Fans were [Action] None.	stopped by to	emperature mo	onitoring.
	•	R8 inform	ation	
	Tabl	e 2-67 Devi	ce-related R8	3 information when the event location is FAN
No.	Event level	Event location	Message ID	Message text
	Descriptio	'n	1	

1	R8	FAN	02b4000 <i>n</i>	FAN is normal.(<i>n</i>)
	Fan startup <i>n</i> : Fan num [Action]) (fault recove וber	ery) was detec	ted.
	None.			

- E8 information
- Table 2-68 Device-related E8 information when the event location is FAN

No.	Event level	Event location	Message ID	Message text
	Descriptic	n		
1	E8	FAN	02b4000 <i>n</i>	FAN stopped. (n)
	A fan error <i>n</i> : Fan nun [Action] Replace th	(failure) was nber e switch.	detected.	

2.6.6 Event location = LED

The following table describes device failure and event information when the event location is LED.

• E3 information

Table 2-69 Device-related E3 information when the event location is LED

No.	Event level	Event location	Message ID	Message text
	Descriptio	n		
1	E3	LED	02500000	Changed LED brightness : xxxx
	The LED b xxxx: LED [Action] None.	ehavior has t operation set	been changed. ting (<mark>normal</mark> ,	economy, or off)

2.6.7 Event location = SVP

The following tables describe device failure and event information when the event location is SVP.

E3 information

Table 2-70 Device-related E3 information when the event location is SVP

No.	Event level	Event location	Message ID	Message text
	Descriptio	'n		
1	E3	SVP	03900000	SVP started.
	SVP startu [Action] None.	p has been c	onfirmed.	

No.	Event level	Event location	Message ID	Message text	
	Descriptio	n			
2	E3	SVP	03900001	SVP controller download succeeded.	
	The update [Action] None.	The update of the SVP controller ended. [Action] None.			
	٠	E8 informa	ation		
	Tabl	e 2-71 Devi	ce-related E8	B information when the event location is SVP	
No.	Event level	Event location	Message ID	Message text	
	Description				
1	E8	SVP	03939000	SVP controller Version write error !!	
	An attempt [Action] Replace th	to write the S	SVP controller	version failed.	
2	E8	SVP	03939001	SVP controller download(SPI Tx) error !!	
	An SVP en [Action] Replace th	ror was detec e switch.	ted.		
3	E8	SVP	03939002	SVP controller download(SPI Write) error !!	
	An SVP error was detected. [Action] Replace the switch.				
4	E8	SVP	03939003	SVP controller download(Health Check) error !!	
	An SVP en [Action] Replace th	ror was detec e switch.	ted.		
5	E8	SVP	03939004	SVP controller download(Unknown) error !!	
	An SVP err [Action] Replace th	ror was detec e switch.	ted.		

No.	Event level	Event location	Message ID	Message text
	Descriptic	on		
6	E8	SVP	039390fn	SVP controller download(Fuse Write) error !!
	An SVP error was detected. The <i>n</i> identification code indicates the location where a writing failure occurred (bit MAP). <i>n</i> : 1 to 7 b1: ExFuse b2: FuseHigh b3: FuseLow b4: Reserved [Action] Replace the switch.			
7	E8	SVP	03939101	Error of SVP is detected.
	An SVP er [Action] Replace th	ror was detec	sted.	1

2.6.8 Event location = PWRSUP

The following table describes device failure and event information when the event location is **PWRSUP**.

• E8 information

Table 2-72 Device-related E8 information when the event location is PWRSUP

No.	Event level	Event location	Message ID	Message text
	Descriptio	n		
1	E8	PWRSUP	03c3920F	Error of the power supply was detected.
	A power su [Action] Replace th	upply unit failu e switch.	ire was detect	ed.

2.6.9 Event location = PCI

The following table describes device failure and event information when the event location is $\underline{\text{PCI}}$.

• E8 information

Table 2-73 Device-related E8 information when the event location is PCI

No.	Event level	Event location	Message ID	Message text
	Descriptio	'n		
1	E8	PCI	01c00001 01c10001 01c20001 01c30001	<pre>Detect uncorrectable (NF) error(regInfo=xx).</pre>
	A PCI bus error was detected (PCI bus failure). xx: Detection location (information for vendor analysis) [Action] Replace the switch.			

• E9 information

Table 2-74 Device-related E9 information when the event location is PCI

No.	Event level	Event location	Message ID	Message text
	Descriptio	n		
1	E9	PCI	01c00002 01c10002 01c20002 01c30002	<pre>Detect uncorrectable error(regInfo=xx).</pre>
	A fatal PCI bus error was detected (PCI bus failure). If the system recovery configuration command is set, the switch restarts. xx: Detection location (information for vendor analysis) [Action] Replace the switch.			

2.6.10 Event location = RAM

The following table describes device failure and event information when the event location is $\ensuremath{\mathtt{RAM}}$

• E9 information

Table 2-75 Device-related E9 information when the event location is RAM

No.	Event level	Event location	Message ID	Message text	
	Descriptio	n			
1	E9	RAM	02a00000	<pre>Detect multiple memory error(attr: xx, addr=xx, synd=xx).</pre>	
A multiple memory error (ECC error) was detected. If the system recovery configuration command is set, the switch restarts. xx: Detection location (information for vendor analysis) [Action] Replace the switch.				vas detected. on command is set, the switch restarts. vendor analysis)	
2	E9	RAM	02a00001	<pre>Detect multiple bit error(attr: xx, addr=xx, synd=xx).</pre>	
	A multiple bit error (ECC2bit error) was detected. If the system recovery configuration command is set, the switch restarts. xx: Detection location (information for vendor analysis) [Action] Replace the switch.				
3	E9	RAM	02a00003	<pre>Detect memory-select error(attr: xx, addr=xx, synd=xx).</pre>	
	A memory select error was detected. If the system recovery configuration command is set, the switch restarts. xx: Detection location (information for vendor analysis) [Action] Replace the switch.				

2.6.11 Event location = PS

The following tables describe device failure and event information when the event location is PS.

• R8 information

Table 2-76 Device-related R8 information when the event location is PS

No.	Event level	Event location	Message ID	Message text
	Description			
1 R8 PS $03e0000n$ <pre>ps> i s normal.</pre>		<pre><ps> is normal.</ps></pre>		
	 The displayed power unit is operating normally. <i><ps></ps></i> displays the power unit (either PS or EPU) that is in a normal state. This message appears when the following conditions are met: When the power unit state changes from an anomalous state to a normal state, or from an unimplemented state to a normal state, the power unit in the normal state is displayed. When an EPU is removed for a power unit that is in a redundant configuration, PS in a normal state is displayed. 03e00001: PS 03e00002: EPU <i><ps></ps></i>: PS or EPU [Action] None. 			
2	R8	PS	03e00000	Power unit is mounted redundantly or mode changed.
The power unit is in a redundant configuration. The operation mode was changed. [Action] None.				guration. The operation mode was changed.
3	R8	PS	03e00003	FAN of EPU is normal.
	The internal fan for an external power unit (EPU) is operating normally. [Action] None.			

• E8 information

Table 2-77	Device-related	E8 information	when the	event location	is PS
	Borroo rolatoa			or or it is out of i	

No.	Event level	Event location	Message ID	Message text	
	Description				
1	E8	PS	03e0000 <i>n</i>	<pre><ps> is power off.</ps></pre>	
	 The displayed power unit is off. <i><ps></ps></i> displays the power unit (either PS or EPU) that is turned off. 03e00001: PS 03e00002: EPU <i><ps></ps></i>: PS or EPU [Action] 1. Check the power switch, and turn it on. 2. Check the power cable connection and the power source, and then connect them properly. 3. Check the installation status of the external power unit (EPU). 				
2	E8	PS	03e00000	Power unit isn't redundantly mounted.	
	The power unit is not in a redundant configuration. [Action] Check the status of the power unit. If the power unit is not in a redundant configuration, configure no power redundancy-mode with a configuration command.				
3	E8	PS	03e00003	Stop is FAN of EPU.	
	The internal fan of an external power unit (EPU) for a redundant configuration has stopped. [Action] Replace the connected external power unit (EPU).				

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