AX3800S/AX3650S Software Manual

Message and Log Reference

For Version 11.10

AX38S-S008X-40



Relevant products

This manual applies to the models in the AX3800S and AX3650S series of switches. It also describes the functionality of version 11.10 of the software. The described functionality is that supported by the software OS-L3SA-A/OS-L3SA and OS-L3SL-A/OS-L3SL, and by optional licenses.

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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

December 2012 (Edition 5) AX38S-S008X-40

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History of Amendments

[For version 11.9]

Summary of amendments

Item	Changes
Code information for logs	• An interface with a maximum line speed of 40 Gbit/s was added to <i>Display format of the interface ID</i> .
Event location = STACK	Stack-related log messages were added and changed.
Tracking object logs	• Tracking object logs are now supported for AX3800S.

[For version 11.8]

Summary of amendments

Item	Changes
Format of operation messages	• A switch number and switch status were added to the format.
Log type	 The number of acquired log entries was changed. Operations in a stack configuration were added to the maintenance information that is to be acquired.
Format of operation logs	• Switch number and switch status were added to the format.
Format of reference logs	• A description of switch numbers displayed for event interface IDs was added.
Code information for logs	• A switch number was added to <i>Display format of the interface ID</i> .
Stack	This section was added.

[For version 11.7]

Summary of amendments

Item	Changes
Checking a log	• A description of the tracking object log was added.
Event location = SOFTWARE	 A log message related to the policy-based routing was added. Log messages related to the tracking functionality of the policy-based routing were added.
Event location = PS	• Log messages related to the fan direction of fan units and power supply units were added.
Event location = FAN	• A log message was added, indicating that the direction of the fan unit was changed.
Tracking Object Log	This chapter was added.

[For version 11.6]

This manual contains descriptions of the AX3650S that were in the AX3600S Software Manual For Ver. 11.5.

|--|

Item	Changes
Event location = IP	Log messages related to VRF were added.
Event location = SOFTWARE	• Log messages related to setting the maximum number of multipaths for AX3800S were added.

Applicable products and software versions

This manual applies to the models in the AX3800S and AX3650S series of switches. It also describes the functionality of version 11.10 of the software. The described functionality is that supported by the software OS-L3SA-A/OS-L3SA and OS-L3SL-A/OS-L3SL, and by optional licenses.

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 functions applicable to both the AX3800S and AX3650S series of switches, and functionalities common to each software. For functionalities that are not common to both AX3800S and AX3650S series switches, and functionalities not common to OS-L3SA-A/OS-L3SA and OS-L3SL-A/OS-L3SL are indicated as follows:

[AX3800S]:

The description applies to AX3800S switches.

[AX3650S]:

The description applies to AX3650S switches.

[OS-L3SA]:

The description applies to OS-L3SA-A/OS-L3SA for the AX3800S and AX3650S series of switches.

The functions supported by optional licenses are indicated as follows:

[OP-DH6R]:

The description applies to the OP-DH6R optional license.

[OP-OTP]:

The description applies to the OP-OTP optional license.

[OP-VAA]:

The description applies to the OP-VAA optional license.

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.

• Unpacking the switch and the basic settings for initial installation



 Determining the hardware installation conditions and how to handle the hardware

Hardware Instruction Manual (AX36S-H001X)

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



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



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



Understanding messages and logs

Message and Log Reference
(AX38S-S008X)

Understanding the MIB

MIB Reference	
	(AX38S-S009X)

How to troubleshoot when a problem occurs



Conventions: The terms "Switch" and "switch"

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

AX3800S series switch

AX3650S 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.

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
LLO+3WFO	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
MDT	Medium Dependent Interface
MDT - X	Medium Dependent Interface crossover
MED	Maintenance association End Point
MTR	Management Information Base
MTD	Mainagement Informacion Base Maintenance domain Intermediate Doint
MDII	Marinemance domain incernediace forme
MCTT	Multiple Spapping Tree Instance
MOTT	Multiple Spanning Tree Instance
MTT	Marcipie Spanning file Flococol
MIU	
NAC	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 Studdy Area
NTP	Network Time Protocol
OADP	Octpower Auto Discovery Protocol
OAM	Operations, Administration, and Maintenance
OSPF	Open Shortest Path First
OUL	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
QSFP+	Quad Small Form-factor Pluggable Plus
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
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
TA	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
UPC	Usage Parameter Control
UPC-RED	Usage Parameter Control - Random Early Detection
VAA	VLAN Access Agent
VLAN	Virtual LAN
VPN	Virtual Private Network
VRF	Virtual Routing and Forwarding/Virtual Routing and Forwarding
	Instance
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
ХFЪ	10 gigabit small Form factor Pluggable

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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Chapter 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 a 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 table below describes the types of output messages and gives references for those messages. Among these messages, the routing protocol event information, and failure and event information that is output by the switch model is called an operation message.

Message type	Description	Reference
Configuration error messages	Messages output for input of configuration command	<i>Error Messages on Configuration Editing</i> in the manual <i>Configuration Command Reference</i>
Command response messages	Messages output for command input	Response Messages section of each command in the manual Operation Command Reference
Operation messages	Routing protocol event information	2. Routing Event Information
	Device failure information and event information	3. Device Failure and Event Information

Table 1-1: Message types and references

1.1.2 Contents of operation messages

Routing protocol event information includes both functional items output as operation messages and items not output as operation messages. Items not output as operation messages are also recorded in operation logs. The following table describes the support status of operation messages.

Category	Function item	Operation messages
Routing protocol event	IPv4 routing information	Y
information	IPv4 multicast routing information	Ν
	IPv6 routing information	Y
	IPv6 multicast routing information	Ν
Device failure and event	Failure information for each event location	Y
information	Error information per event location of the switch.	Y

Table 1-2: Support status of operation messages

Legend:

Y: Message is displayed

N: Message is not displayed

1.1.3 Format of operation messages

(1) Routing protocol event information

The following shows the format of routing protocol event information.

Figure 1-1: Format of routing protocol event information

- 1. Time: Displays the date and time when the event indicated in the message occurred.
- 2. Message text: Indicates the event that occurred and information related to the event.

(2) 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{mm/dd hh:mm:ss}}{1} \frac{\text{www}}{2} \frac{\text{ee}}{3} \frac{\text{kkkkkkk}}{4} \frac{\text{[iii...iii]}}{5} \frac{\text{xxxxxxx}}{6} \frac{\text{yyyy:yyyyyyyyyy}}{7}
\frac{\text{ttt} - \text{ttt}}{8}
```

- 1. Time: Displays the date and time when the event indicated in the message occurred.
- 2. The switch number (two digits) and the switch status (any of the following characters):
 - I: Indicates the initial status.
 - S: Indicates the standalone status.
 - M: Indicates the master status.
 - B: Indicates the backup status.
- 3. Event level
- 4. Event location or function
- 5. Event interface ID. Whether this information is displayed depends on the event location.
- 6. Message ID
- 7. Additional information
- 8. Message text

Code information such as the event level, and event location or function included in the message are the same as the log. For details, see 1.2.4 Format of the reference log.

Note that the switch status indicates the status of each member switch of a stack. For details about the switch status, see 7.3.3 Switch states in the manual Configuration Guide Vol. 1 For Version 11.10.

1.1.4 Outputting operation messages

(1) Routing protocol event information

Routing protocol event information reports the operating status of IPv4 and IPv6 routing protocols. To output messages to the operation terminal screen, use commands. The table below describes the commands that can be used. Note that multicast routing protocols do not display messages but only collect them in operation logs.

Category	Command name	Description
IPv4 routing information	debug protocols unicast	Starts message display
	no debug protocols unicast	Stops message display
IPv4 multicast routing information		No message is displayed
IPv6 routing information	debug protocols unicast	Starts message display
	no debug protocols unicast	Stops message display
IPv6 multicast routing information		No message is displayed

Table 1-3: Messages output as routing protocol event information

Legend: --: Not applicable.

(2) 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 console command, you can limit the output of messages to the specified level or lower.

1.2 Checking a log

1.2.1 Log type

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.

ltem	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 to be acquired	 Entered commands Command response messages Routing protocol event information Device failure and event information[#] 	• Device failure and event information
Number of acquired entries	 6000 entries can be acquired. Within those, the first 3000 log entries are saved chronologically. The remaining 3000 entries consist of older entries whose log type is KEY, RSP, ERR, or EVT. One entry contains 80 characters. If an acquired entry contains 100 characters, it is divided between two entries. 	• 500 entries can be acquired.
Overflow processing when the log size is exceeded	 If the number of logs entries exceeds 3000, whether old entries are deleted or saved depends on the log type. Excess old entries whose log type is not KEY, RSP, ERR, or EVT are deleted. Excess old entries whose log type is KEY, RSP, ERR, or EVT are saved as entries 3001 to 6000. If the number of logs entries exceeds 6000, old log entries are deleted. 	• If the number of log entries exceeds 500 entries, entries that have a lower event level are deleted and the new entries are acquired. Note that new entries that have an event level of E3 or E4 are not acquired.

Table 1-4: Features of the operation log and reference log

If a stack is configured, the backup operation log is also acquired in the master status.

1.2.2 Log contents

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

Category	Description	Op era tio n log	Ref ere nce log	Reference
Entered commands	Commands entered from the operation terminal by operators.	Y	N	

Table 1-5: Information acquired in the operation log and reference log

Category	Description	Op era tio n log	Ref ere nce log	Reference
Command response messages	Messages output by switches to respond to entered commands.	Y	Ν	Response Messages section of each command in the manual Operation Command Reference
Routing protocol event information	IPv4 routing protocol information	Y	Ν	2. Routing Event Information
	IPv4 multicast routing information	Y	N	-
	IPv6 routing protocol information	Y	Ν	-
	IPv6 multicast routing information	Y	Ν	-
Device failure and event information	Failure information for each event location	Y	Y	3. Device Failure and Event Information
	Error information per event location of the switch.	Y	Y	
Tracking object log [OS-L3SA]	Information for the tracking functionality of the policy-based routing	Y	Ν	4. Tracking Object Log [OS-L3SA]

Legend:

Y: Messages are displayed or log data is acquired.

- N: Message is 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) Routing protocol event information

The following describes the formats for entered commands, command response messages, and routing protocol event information.

Figure 1-3: Format of event information for entered commands, command response messages, and routing protocols

- 1. Log type: A 3-letter identification code applied for each provided functionality.
 - KEY: Operational information selected by entered commands.
 - RSP: Event information related to command response messages.
 - RTM, MRP, or MR6: Routing protocol event information
- 2. Time: Date and time that the event occurred.
- 3. Message text

(2) Device failure and event information

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

Figure 1-4: Format of switch failure and event information \underline{kkk} $\underline{mm/dd \ hh:mm:ss}$ \underline{www} \underline{ee} $\underline{kkkkkkkk}$ $\underline{[iii...iii]}$ $\underline{xxxxxxxx}$ 123 $\underline{4}$ 5 $\overline{6}$ 7 $\underline{yyyy:yyyyyyyyyy}$ \underline{ttt} - \underline{ttt} 9

- 1. Log type: A 3-letter identification code applied for each provided functionality.
 - ERR: Error information for a switch event location
 - EVT: Event information for a switch event location
- 2. Time: Date and time that the event occurred.
- 3. The switch number (two digits) and the switch status (any of the following characters):
 - I: Indicates the initial status.
 - S: Indicates the standalone status.
 - M: Indicates the master status.
 - B: Indicates the backup status.
- 4. Event level
- 5. Event location or function
- 6. Event interface ID. Whether this information is displayed depends on the event location.
- 7. Message ID
- 8. Additional information
- 9. Message text

(3) Tracking object log [OS-L3SA]

The figure below shows the format for tracking object logs.

- 1. Log type: A 3-letter identification code applied for each provided functionality.
 - TRO: Event information for the tracking functionality of the policy-based routing
- 2. Time: Date and time that the event occurred.
- 3. 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 figure below describes the format of the reference log.

Figure 1-6: Format of the reference log

ee	kkkkkkk	[iiiiii]	xxxxxxxx	уууу:ууууууууууу
1	2	3	4	5

```
\frac{\text{mm/dd hh:mm:ss}}{6} \qquad \frac{\text{mm/dd hh:mm:ss}}{7} \qquad \frac{\text{ccc}}{8}
```

- 1. Event level (E9 to E3)
- 2. Event location or function
- 3. Event interface ID. Whether this information is displayed depends on the event location.

The switch number that is acquired with the log is set as the switch number. Therefore, for logs acquired before the switch number is changed, the switch number before the change is set.

- 4. Message ID
- 5. Additional information
- 6. Occurrence date and time of the last applicable error.
- 7. Occurrence date and time of the first applicable error.
- 8. 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	1-6:	Correspondence	between the	information	acquired as	a log and log type

Information to be acquired	Log type	Description	Event level
Operational information selected by entered commands	KEY	Operational information selected by commands entered by an operator from an operation terminal	
Event information related to command response messages	RSP	Event information related to messages output by a switch in response to commands	
Routing protocol	RTM	IPv4 or IPv6 routing information	
information	MRP	IPv4 multicast routing information	
	MR6	IPv6 multicast routing information	
Device failure and	ERR	Error information for a switch event location	E9 to E5
event mormation	EVT	Error information for a switch event location	E4, E3, R8 to R5

Information to be acquired	Log type	Description	Event level
Layer 2 authentication information	AUT	 The information that is collected with the Layer 2 authentication functions for each program. Indicated as corresponding operation commands. show dot1x logging show web-authentication logging show mac-authentication logging 	
DHCP snooping information	DSN	Information to be collected with DHCP snooping. Indicated as corresponding operation commands.show ip dhcp snooping logging	
Tracking object log [OS-L3SA]	TRO	Tracking functionality for policy-based routing	

Legend: --: Not applicable.

(2) Event level

Events in the reference log are classified into seven levels depending on their severity. The table below 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 (software error) R7 (recover from software error)	This error stops part of the software.
6	E6 R6	Not used
5	E5 R5	Not used
4	E4 (network error)	Information related to lines (LAN)
3	E3 (warning)	This error is a warning.

Table 1-7: 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 the device memory as /usr/var/log/system.log and /usr/var/log/error.log.

(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 1-8: Event locations

#	ID	Event location or function
1	CONFIG	Configuration

#	ID	Event location or function
2	STACK	Stack control functionality
3	ACCESS	Switch access permissions
4	IP	IP control functionality
5	VLAN	VLAN control functionality
6	MAC	MAC control functionality
7	SOFTWARE	Software control functionality
8	PORT	Port control functionality
9	ULR	Uplink redundancy control functionality
10	PS	Power control functionality
11	EQUIPMENT	Switch control functionality
12	FAN	Fan 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 1-9: Display format of the interface ID

Display format of the ID	Interface
GigabitEthernet < <i>switch no</i> .>< <i>nif no</i> .>/< <i>port no</i> .>	Ethernet interface with a maximum line speed of 1000 Mbit/s
TenGigabitEthernet < <i>switch</i> no.>< <i>nif</i> no.>/< <i>port</i> no.>	Ethernet interface with a maximum line speed of 10 Gbit/s
FortyGigabitEthernet < <i>switch no.</i> >/< <i>nif no.</i> >/ < <i>port no.</i> > [AX3800S]	Ethernet interface with a maximum line speed of 40 Gbit/s

Legend:

<switch no.>: Indicates the switch number.

<nif no.>: Indicates the NIF number (fixed as 0)

<port no.>: Indicates the port number.

(5) Message identifier and additional information

This information contains a code that indicates the contents of the event that occurred. For details, see *3. 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

This section 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. Note that if the no logging syslog-dump configuration command is set, logs are automatically saved for occasion 1 only.

Occasions when logs are automatically saved:

- 1. When the Switch is started
- 2. When a critical error with an event level from E9 to E5 occurs
- 3. When the device is restarted by using the reload operation command
- 4. When login or logout is performed
- 5. When the device is restarted accompanying ppupdate
- 6. When the device is restarted by pressing the RESET button

Table 1-10: Location of saved logs

Log type Location of internal memory		
Operation log	heration log Logs are saved to /usr/var/log/system.log	
Reference log	Logs are saved to /usr/var/log/error.log	

(2) Viewing logs and method for creating files

Operation logs and reference logs can be referenced by using the show logging command. These logs can also be retrieved as files by specifying redirection when executing the show logging command. If you want to output command output results to a file for a command other than the show logging command, you also must specify redirection. The following table describes the directory for storing the created files when redirection is specified for a command.

Table 1-11: Storage directory

ltem	Storage directory	Remarks
Home directory for the user	/usr/home/ <user-account-name>/</user-account-name>	Stored in internal memory
Temporary directory	/tmp/	When the switch stops due to power discontinuity or the reload command, stored files will be deleted.

The following shows an example of creating a backup of log information by executing the show logging command.

Backing up the operation log in internal memory:

> show logging > /usr/home/<user-account-name>/<file-name> >

(3) Acquiring logs from remote hosts

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

For details about the syslog output functionality, see logging facility in the manual Configuration

Command Reference Vol. 1 For Version 11.10.

(4) Sending logs by using the email functionality

Log information can be sent to remote hosts or to PCs by using the email functionality. This functionality cannot receive emails. If a user replies to an email sent by this functionality, a transmission error occurs.

For details about the email functionality, see *logging email-from* in the manual *Configuration Command Reference Vol. 1 For Version 11.10* or *logging email-server* in the manual *Configuration Command Reference Vol. 1 For Version 11.10*.

Chapter 2. Routing Event Information

This chapter explains the contents of routing event information. Routing protocol event information reports the operating status of IPv4 and IPv6 routing protocols. To output messages to the operation terminal screen, use commands. Note that multicast routing protocols do not display messages but only collect them in operation logs.

- 2.1 IPv4 routing protocol information (RTM)
- 2.2 IPv6 routing protocol information (RTM)
- 2.3 IPv6 routing information (RTM)
- 2.4 IPv4 multicast routing information (MRP)
- 2.5 IPv6 multicast routing information (MR6)

2.1 IPv4 routing protocol information (RTM)

This section explains IPv4 routing protocol event information.

2.1.1 RIP

The following table gives the event information for IPv4 routing protocol information (RTM).

Table 2-1: IPv4 routing protocol (RIP) event information	on
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#	Message text	Description
1	recv_response:	Error (remote device)
<pre>data metric (~metric>) for het</pre>		Routing information that has an invalid metric (0, or 17 or larger) was received. [Explanation of message variables] <metric>: Metric of the routing information <destination address="">: Routing information destination address <source address=""/>: Source gateway <vrf id="">: VRF ID [Action] Check the unicast routing program (RIP) for the source gateway.</vrf></destination></metric>
2	rip_recv_response:	Error (remote device)
	Bad mask (<i><mask></mask></i>) for net <i><destination address=""></destination></i> from <i><source< i=""> <i>address></i> [(VRF <i><vrf id=""></vrf></i>)]</source<></i>	Routing information that has an invalid network mask was received. [Explanation of message variables] <i><mask></mask></i> : Routing information network mask <i><destination address=""></destination></i> : Routing information destination address <i><source address=""/></i> : Source gateway <i><vrf id=""></vrf></i> : VRF ID [Action] Check the unicast routing program (RIP) for the source gateway.
3	rip_recv:	Error (remote device)
	Ignoring RIP <i><rip command=""></rip></i> packet from <i><source address=""/></i> [(VRF <i><vrf< i=""> <i>id></i>)] - ignoring version 0 packets</vrf<></i>	 A received RIP packet was ignored because the version field is 0. [Explanation of message variables] <<i>rip command</i>>: Received message type Invalid, Request, Response, TraceOn, TraceOff, Poll, PollEntry <<i>source address</i>>: Source gateway <<i>vrf id</i>>: VRF ID [Action] Check the unicast routing program (RIP) for the source gateway.
4 r	rip_recv:	Error (remote device)
	from <i><source address=""/></i> [(VRF <i><vrf< i=""> <i>id></i>)] - reserved field not zero</vrf<></i>	 A received RIP packet was ignored because the reserved field is not 0. [Explanation of message variables] <<i>rip command</i>>: Received message type Invalid, Request, Response, TraceOn, TraceOff, Poll, PollEntry <<i>source address</i>>: Source gateway <<i>vrf id</i>>: VRF ID [Action] Check the unicast routing program (RIP) for the source gateway.

#	Message text	Description
5	rip_recv:	Error (local or remote device)
	Ignoring RIP < <i>rip command</i> > packet from < <i>source address</i> > [(VRF < <i>vrf</i> <i>id</i> >)] - authentication failure [(Key-ID < <i>key id</i> >)]	 A received RIP packet was ignored because of an authentication error. This operation message is output according to the following conditions: 1. The messages from the first to the 16th event are output. 2. After 17 times from the beginning of the event occurrence, this message is output once every 256 times the event occurs. 3. If an event occurs 3 minutes or more after the last event occurred, this message is output depending on 1 and 2 above. Note that the above number of messages includes the count of the following messages: rip_recv: Ignoring RIP <<i>rip command</i>> packet from <<i>source address</i>> [(VRF <<i>wrf id</i>>)] - illegal authentication type rip_recv: Ignoring RIP <<i>rip command</i>> packet from <<i>source address</i>> [(VRF <<i>wrf id</i>>)] - illegal authentication key identifier (Key-ID <<i>key id</i>>) rip_recv: Ignoring RIP <<i>rip command</i>> packet from <<i>source address</i>> [(VRF <<i>wrf id</i>>)] - illegal authentication key identifier (Key-ID <<i>key id</i>>) rip_recv: Ignoring RIP <<i>rip command</i>> packet from <<i>source address</i>> [(VRF <<i>wrf id</i>>)] - illegal authentication sequence number (Key-ID <<i>key id</i>>) rip_recv: Ignoring RIP <<i>rip command</i>> packet from <<i>source address</i>> [(VRF <<i>wrf id</i>>)] - illegal authentication sequence number (Key-ID <<i>key id</i>>) Explanation of message variables] <<i>rip command</i>>: Received message type Invalid, Request, Response, TraceOn, TraceOff, Poll, PollEntry <<i>source address</i>>: Source gateway <<i>wrf id</i>>: VRF ID <<i>key id</i>>: Key identifier [Action] Check whether the authentication key for the local device RIP matches the authentication key for the remote device RIP. If they do not match, specify the authentication keys so that they do match.
6	rip_recv:	Warning (remote device)
	Ignoring RIP <i><rtp command=""></rtp></i> packet from <i><source address=""/></i> [(VRF <i><vrf< i=""> <i>id></i>)] - TRACE packets not supported</vrf<></i>	A received RIP packet was ignored because TRACE packets are not supported. [Explanation of message variables] < <i>rip command</i> >: Received message type • TraceOn, TraceOff < <i>source address</i> >: Source gateway < <i>vrf id</i> >: VRF ID [Action] Check the specifications of the unicast routing program (RIP) for the source gateway.
7	rip_init:	Error (local device)
	Old copy of rtm is running	Unicast routing program might already be running. The unicast routing program automatically restarts. [Explanation of message variables] None. [Action] Take appropriate action by following the rtm aborted log.

#	Message text	Description
8	8 RIP:	Error (local device)
	The total number of RIP targets is more than the maximum permitted	The total number of RIP targets (adjacent) exceeds the maximum number permitted. [Explanation of message variables] None. [Action] Check, and if necessary, revise the RIP settings so that the maximum number of adjacent routers does not exceed the capacity limit.
9	rip_recv:	Error (remote device)
	Ignoring RIP <i><rip command=""></rip></i> packet from <i><source address=""/></i> [(VRF <i><vrf< i=""> <i>id></i>)] - illegal authentication type</vrf<></i>	 A received RIP packet was ignored because the authentication type of authentication information is invalid. This operation message is output according to the following conditions: The messages from the first to the 16th event are output. After 17 times from the beginning of the event occurrence, this message is output once every 256 times the event occurs. If an event occurs 3 minutes or more after the last event occurred, this message is output depending on 1 and 2 above. Note that the above number of messages includes the count of the following messages: rip_recv: Ignoring RIP <<i>rip command</i>> packet from <<i>source address</i>> [(VRF <<i>vrf id</i>>)] - authentication failure [(Key-ID <<i>key id</i>>)] rip_recv: Ignoring RIP <<i>rip command</i>> packet from <<i>source address</i>> [(VRF <<i>vrf id</i>>)] - illegal authentication key identifier (Key-ID <<i>key id</i>>)] rip_recv: Ignoring RIP <<i>rip command</i>> packet from <<i>source address</i>> [(VRF <<i>vrf id</i>>)] - illegal authentication sequence number (Key-ID <<i>key id</i>>)] rip_recv: Ignoring RIP <<i>rip command</i>> packet from <<i>source address</i>> [(VRF <<i>vrf id</i>>)] - illegal authentication sequence number (Key-ID <<i>key id</i>>)] rip_recv: Ignoring RIP <<i>rip command</i>> packet from <<i>source address</i>> [(VRF <<i>vrf id</i>>)] - illegal authentication sequence number (Key-ID <<i>key id</i>>)

#	Message text	Description
10	0 rip_recv:	Error (local or remote device)
	Ignoring RIP < <i>rip command</i> > packet from < <i>source address</i> > [(VRF < <i>vrf</i> <i>id</i> >)] - illegal authentication key identifier (Key-ID < <i>key id</i> >)	 A received RIP packet was ignored because the key identifier of authentication information was invalid. This operation message is output according to the following conditions: The messages from the first to the 16th event are output. After 17 times from the beginning of the event occurrence, this message is output once every 256 times the event occurred, this message is output depending on 1 and 2 above. Note that the above number of messages includes the count of the following messages: rip_recv: Ignoring RIP <<i>rip command</i>> packet from <<i>source address</i>> [(VRF <<i>vrf id</i>>)] - authentication failure [(Key-ID <<i>key id</i>>)] rip_recv: Ignoring RIP <<i>rip command</i>> packet from <<i>source address</i>> [(VRF <<i>vrf id</i>>)] - illegal authentication type rip_recv: Ignoring RIP <<i>rip command</i>> packet from <<i>source address</i>> [(VRF <<i>vrf id</i>>)] - illegal authentication sequence number (Key-ID <<i>key id</i>>)] [Explanation of message variables] <<i>rip command</i>>: Received message type Invalid, Request, Response, TraceOn, TraceOff, Pol1, Pol1Entry <i>source address</i>>: Source gateway <i>vrf id</i>>: VRF ID <i>key id</i>>: Key identifier
		Check whether the key identifier of authentication information for the local device RIP matches the key identifier of authentication information for the remote device RIP. If they do not match, specify the key identifiers so that they do match.

#	Message text	Description
11	rip_recv:	Error (remote device)
	Ignoring KIP < <i>rip commana</i> > packet from < <i>source address</i> > [(VRF < <i>vrf</i> <i>id</i> >)] - illegal authentication sequence number (Key-ID < <i>key id</i> >)	 A received RIP packet was ignored because the sequence number of authentication information was invalid. This operation message is output according to the following conditions: The messages from the first to the 16th event are output. After 17 times from the beginning of the event occurrence, this message is output once every 256 times the event occurred, this message is output depending on 1 and 2 above. Note that the above number of messages includes the count of the following messages: rip_recv: Ignoring RIP <<i>rip command</i>> packet from <<i>source address</i>> [(VRF <<i>vrf id</i>>)] - authentication failure [(Key-ID <<i>key id</i>>)] rip_recv: Ignoring RIP <<i>rip command</i>> packet from <<i>source address</i>> [(VRF <<i>vrf id</i>>)] - illegal authentication type rip_recv: Ignoring RIP <<i>rip command</i>> packet from <<i>source address</i>> [(VRF <<i>vrf id</i>>)] - illegal authentication type rip_recv: Ignoring RIP <<i>rip command</i>> packet from <<i>source address</i>> [(VRF <<i>vrf id</i>>)] - illegal authentication type rip_recv: Ignoring RIP <<i>rip command</i>> packet from <<i>source address</i>> [(VRF <<i>vrf id</i>>)] - illegal authentication type rip_recv: Ignoring RIP <<i>rip command</i>> packet from <<i>source address</i>> [(VRF <<i>vrf id</i>>)] - illegal authentication type rip_recv: Ignoring RIP <<i>rip command</i>> packet from <<i>source address</i>> [(VRF <<i>vrf id</i>>)] - illegal authentication type rip_recv: Ignoring RIP <<i>rip command</i>> packet from <<i>source address</i>> [(VRF <<i>vrf id</i>>)] - illegal authentication type rip_recv: Ignoring RIP <<i>rip command</i>> packet from <<i>source address</i>> [(VRF <<i>vrf id</i>>)] - illegal authentication key identifier (Key-ID <<i>key id</i>>)

2.1.2 OSPF [OS-L3SA]

The following table gives the event information for IPv4 routing protocol information (RTM).

Table 2	2-2:	IPv4 routing protoc	col (OSPF)	event information
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#	Message text	Description
1	1 OSPF SENT < <i>source address</i> > -> < <i>destination address</i> > [(VRF < <i>vrf</i> <i>id</i> >)] : < <i>error string</i> >	Warning (local device)
		An attempt to send an OSPF packet failed. [Explanation of message variables] <source address=""/> : Source IPv4 address <destination address="">: Destination IPv4 address <vrf id="">: VRF ID <error string="">: Error cause [Action] If this error frequently occurs, determine the cause of the error.</error></vrf></destination>
2	2 OSPF: Helper to adjacency <i><router id=""></router></i> address <i><address></address></i> [(VRF <i><vrf id=""></vrf></i>)] failed because restart time is up.	Information (remote device)
		The helper router operations stopped because the waiting time for restart elapsed. [Explanation of message variables] < <i>router id></i> : Adjacent router's router ID < <i>address></i> : Adjacent router's IPv4 address < <i>vrf id></i> : VRF ID [Action] Check if the adjacent router has stopped the restart operation. If it has not stopped, adjust the restart time of the adjacent router.

#	Message text	Description
3	OSPF:	Warning (local device or network)
Helper to adj address < <i>ada</i> failed becaus changed.	Helper to adjacency <i><router id=""></router></i> address <i><address></address></i> [(VRF <i><vrfid></vrfid></i>)] failed because network topology is changed.	The helper router operations stopped because the topology was changed. [Explanation of message variables] < <i>router id></i> : Adjacent router's router ID < <i>address></i> : Adjacent router's IPv4 address < <i>vrf id></i> : VRF ID [Action] None.
4	OSPF RECV [Area <area id=""/>] <source address=""/> -> <destination address> [(VRF <vrf id="">)] : <log type>.</log </vrf></destination 	Warning (local device or remote device)
		A received OSPF packet is invalid. However, multicast packets received from broadcast-type interfaces that have not been set as OSPF interfaces are discarded without log acquisition.
		[Explanation of message variables]
		<pre><ure u=""></ure>. Alea ID <source address=""/>: Source IPv4 address</pre>
		<destination address="">: Destination IPv4 address</destination>
		log type>: One of the following log types:
		• IP: bad destination
		• IP: bad protocol
		 IP: received my own packet OSPF: bad packet type
		OSPF: bad version
		• OSPF: bad checksum
		 OSPF: packet too small OSPE: packet size > in length
		 OSPF: bad area id
		OSPF: unknown neighbor
		• OSPF: area mismatch
		OSPF: bad virtual link OSPF: bad authentiant trans
		 OSPF: bad authentication type OSPF: bad authentication key
		OSPF: interface down
		HELLO: netmask mismatch
		HELLO: hello timer mismatch
		 HELLO: dead timer mismatch HELLO: NBMA neighbor unknown
		HELLO: extern option mismatch
		• DD: extern option mismatch
		 HELLO: router id confusion DD: router id confusion
		ISACK: Unknown ISA type
		LS REQ: empty request
		• LS REQ: bad request
		LS UPD: LSA checksum bad

#	Message text	Description
		 [Action] The action to be taken depends on the type of the log. IP: bad destination If <source address=""/> is not a directly-connected network, or OSPF has not been set for the interface <destination address="">, modify the OSPF interface settings. </destination>
		 IP: bad protocol IP: received my own packet OSPF: bad packet type OSPF: bad version OSPF: bad checksum OSPF: packet too small OSPF: packet size > ip length OSPF: bad area id An adjacent router is sending an invalid packet. Check the unicast routing program (OSPF) of the adjacent router. OSPF: unknown neighbor Non-Hello packets were received from an adjacent router that is not recognized by Hello, but no action is required
		 OSPF: area mismatch OSPF: bad virtual link If packets are received from the new adjacent router, modify the area settings. In other cases, no action is required.
		 OSPF: bad authentication type OSPF: bad authentication key Modify the authentication settings.
		OSPF: interface down None.
		 HELLO: netmask mismatch HELLO: hello timer mismatch HELLO: dead timer mismatch HELLO: NBMA neighbor unknown Modify the OSPF interface settings.
		 HELLO: extern option mismatch DD: extern option mismatch Modify the stub area settings.
		 HELLO: router id confusion DD: router id confusion Modify the router ID settings.
		 LS ACK: Unknown LSA type LS REQ: empty request LS REQ: bad request LS UPD: LSA checksum bad An adjacent router is sending an invalid packet. Check the unicast routing program (OSPF) of the adjacent router.

#	Message text	Description
5	5 OSPF: Abort due to < <i>address</i> > mask < <i>mask1</i> > advertisement was blocked by LSA < <i>lsid</i> > mask < <i>mask2</i> > Age < <i>age</i> >.	Error (local device)
		There is a conflict between LSDB < <i>lsid></i> and the route. The unicast routing program automatically restarts. [Explanation of message variables] < <i>address></i> : Routing information destination address < <i>mask1></i> : Routing information network mask < <i>lsid></i> : LSID of LSA < <i>mask2></i> : LSA network mask < <i>age></i> : Time elapsed from generation of LSA [Action] Take appropriate action by following the rtm aborted log.
6	OSPF:	Warning (local device or remote device)
	Lost adjacency <i><router ta=""></router></i> address <i><address></address></i> (<i><interface name=""></interface></i>) due to sequence mismatch (<i><sequence1></sequence1></i> versus <i><sequence2></sequence2></i>)	An adjacent router was lost due to a sequence mismatch. [Explanation of message variables] <router id="">: Adjacent router's router ID <address>: Adjacent router's IPv4 address <interface name="">: Interface name <sequence1>: Sequence number in control data <sequence2>: Sequence number in the DD message [Action] If this warning occurs frequently, extend the interval for retransmitting the OSPF packets (retransmitinterval).</sequence2></sequence1></interface></address></router>
7	OSPF:	Warning (remote device or network)
	Lost adjacency <i><router id=""></router></i> address <i><address></address></i> (<i><interface name=""></interface></i>) because no Hello received recently.	Adjacency was terminated because Hello packets that should be sent periodically from the adjacent router were not received during a given interval. This occurs when the adjacent router is deactivated, or if a problem occurs in communication between the Switch and the adjacent router. [Explanation of message variables] < <i>router id</i> >: Adjacent router's router ID < <i>address</i> >: Adjacent router's IPv4 address < <i>interface name</i> >: Interface name [Action] If this warning occurs frequently, shorten the interval for sending Hello packets (hellointerval) or extend the maximum interval for receiving Hello packets (routerdeadinterval).
8	OSPF: Lost adjacency <i><router id=""></router></i> address <i><address></address></i> (<i><interface name=""></interface></i>) because neighbor didn't receive my Hello recently.	Warning (remote device or network)
		Adjacency was terminated because the adjacent router no longer recognizes the Switch. This occurs when the adjacent router is restarted or Hello packets sent by the Switch are not properly received by the adjacent router. [Explanation of message variables] < <i>router id</i> >: Adjacent router's router ID < <i>address</i> >: Adjacent router's IPv4 address < <i>interface name</i> >: Interface name [Action] If this warning occurs frequently, shorten the interval for sending Hello packets (hellointerval) or extend the maximum interval for receiving Hello packets (routerdeadinterval).

#	Message text	Description
9	OSPF:	Error (remote device)
	Lost adjacency <i><router id1=""></router></i> address <i><address></address></i> (<i><interface name=""></interface></i>) due to bad LS Request (<i><lsid> <router id2=""></router></lsid></i> <i><ls type=""></ls></i>).	An adjacent router was lost due to an invalid LS request. [Explanation of message variables] <router id1="">: Adjacent router's router ID <address>: Adjacent router's IPv4 address <interface name="">: Interface name <lsid>: LSID of LSA <router id2="">: LSA advertising router ID <ls type="">: LSA LS type code [Action] Check the unicast routing program (OSPF) of the adjacent router.</ls></router></lsid></interface></address></router>
10	OSPF:	Information (local or remote device)
	Adjacency <i><router id=""></router></i> address <i><address></address></i> (<i><interface name=""></interface></i>) is established.	A connection with the OSPF adjacent router was successfully established. [Explanation of message variables] < <i>router id</i> >: Adjacent router's router ID < <i>address</i> >: Adjacent router's IPv4 address < <i>interface name</i> >: Interface name [Action] None.
11	OSPF:	Error (local device)
	Checksum failed at LSA type < <i>ls type</i> > ID < <i>lsid</i> > adv-router < <i>router id</i> > in this system's LSDB that belongs to Area < <i>area id</i> >, Domain < <i>domain id</i> > [on VRF < <i>vrf</i> <i>id</i> >].	LSDB checksum is invalid. The unicast routing program automatically restarts. [Explanation of message variables] < <i>ls type</i> >: LSA LS type code < <i>lsid</i> >: LSID of LSA < <i>router id</i> >: LSA advertising router ID < <i>area id</i> >: LSA area ID < <i>domain id</i> >: LSA domain ID < <i>vrf id</i> >: VRF ID [Action] Take appropriate action by following the rtm aborted log.
12	12 OSPF: Recovered from stub router (in [(VRF < <i>vrf id</i> >)] domain < <i>domain id</i> >).	Information (local device)
		The stub router operation will now end. [Explanation of message variables] <vrf id="">: VRF ID <domain id="">:OSPF domain ID [Action] None.</domain></vrf>

2.1.3 BGP4 [OS-L3SA]

The following table gives the event information for IPv4 routing protocol information (RTM).

#	Message text	Description
1	bgp_check_auth: Synchronization failure with BGP task <task name=""></task>	Error (remote device)
		The value of the header marker of the message received by BGP4 task is invalid. [Explanation of message variables] < <i>task name</i> >: BGP4 task name [Action] Check the unicast routing program (BGP4) in the peer.
2	bgp_trace: Unsupported BGP version < <i>version</i> >!!!	Error (local device)
		The BGP version number in control data was invalid. The unicast routing program automatically restarts. [Explanation of message variables] <version>: BGP version number in control data [Action] Take appropriate action by following the rtm aborted log.</version>
3	bgp_log_notify:	Error (remote device)
	Notify message received from <i><bgp< i=""> name> [(<i><description></description></i>)] is truncated (length <i><length></length></i>)</bgp<></i>	The length of the NOTIFICATION message received from the relevant peer was invalid. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <length>: Received data length [Action] Check the unicast routing program (BGP4) in the peer.</length></description></bgp>
4	bgp_send:	Warning (local device)
	Sending < <i>length</i> > bytes to < <i>bgp name</i> > [(< <i>description</i> >)] blocked (no spooling requested): < <i>error string</i> >	An attempt to send a message to the relevant peer failed because the socket buffer becomes full. [Explanation of message variables] <length>: Send request message length <bgp name="">: Target peer name <description>: Description name of the destination peer <error string="">: Error cause [Action] If this error frequently occurs, determine the cause of the error.</error></description></bgp></length>
5	5 bgp_send: Sending < <i>length></i> bytes to < <i>bgp name></i> [(< <i>description></i>)] failed: < <i>error string></i>	Warning (local device)
		An attempt to send a message to the relevant peer has failed. [Explanation of message variables] <length>: Send request message length <bgp name="">: Target peer name <description>: Description name of the destination peer <error string="">: Error cause [Action] If this error frequently occurs, determine the cause of the error.</error></description></bgp></length>

Table 2-3: IPv4 routing protocol (BGP4) event information

#	Message text	Description
6	bgp_send: Sending < <i>length</i> > bytes to < <i>bgp name</i> > [(< <i>description</i> >)]: connection closed	Warning (local device, remote device, or network)
		Sending of the message to the peer failed because the connection was disconnected. [Explanation of message variables] < <i>length</i> >: Send request message length < <i>bgp name</i> >: Target peer name < <i>description</i> >: Description name of the destination peer [Action] If this error occurs frequently, check the cause of the disconnection.
7	bgp_send: Sending to <i><bgp name=""></bgp></i> [(<i><description></description></i>)] looping: <i><error< i=""> <i>string></i></error<></i>	Warning (local device)
		An attempt to send a message to the relevant peer has timed out. [Explanation of message variables] <i><bgp name=""></bgp></i> : Target peer name <i><description></description></i> : Description name of the destination peer <i><error string=""></error></i> : Error cause [Action] If this error frequently occurs, determine the cause of the error.
8	bgp_send_open:	Error (local device)
	Internal error! peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)], version <i><version></version></i>	The BGP version number of the OPEN message to be sent to the relevant peer was invalid. The unicast routing program automatically restarts. [Explanation of message variables] <bgp name="">: Target peer name <description>: Description name of the destination peer <version>: BGP version number in the send message [Action] Take appropriate action by following the rtm aborted log.</version></description></bgp>
9	bgp_path_attr_error from < <i>routine</i> >:	Error (remote device)
	Update error subcode <i><code< i=""> <i>< (<error< i=""> string>) for peer <i><bgp i="" name<="">> [(<i><description< i="">>)] detected. <i><length></length></i> bytes error data - 1st five:<i><error data=""></error></i></description<></i></bgp></i></error<></i></code<></i>	An error was detected in the UPDATE message received from the relevant peer. [Explanation of message variables] <i><routine></routine></i> : Internal routine name <i><code></code></i> (<i><error string=""></error></i>): Error cause <i><bgp name=""></bgp></i> : Source peer name <i><description></description></i> : Description name of the source peer <i><length></length></i> : Error data length <i><error data=""></error></i> : First five bytes of error data [Action] Check the unicast routing program (BGP4) in the peer.
10	bgp_recv: Read from peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)] failed: <i><error string=""></error></i>	Warning (local device)
		An attempt to receive a message from the relevant peer failed. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <error string="">: Error cause [Action] If this error frequently occurs, determine the cause of the error.</error></description></bgp>
#	Message text	Description
----	--	---
11	11 bgp_recv: Peer < <i>bgp name</i> > [(< <i>description</i> >)]: Received unexpected EOF	Warning (local device, remote device, or network)
		An attempt to receive a message from the relevant peer failed due to disconnection. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer [Action] If this error occurs frequently, check the cause of the disconnection.</description></bgp>
12	bgp_read_message:	Error (remote device)
	Peer bgp name> [(<description>)]: <message type=""> message arrived with length <length></length></message></description>	An invalid-length message was received from the relevant peer. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <message type="">: Received message type invalid, Open, Update, Notification, KeepAlive <length>: Received data length [Action] Check the unicast routing program (BGP4) in the peer.</length></message></description></bgp>
13	bgp_read_message:	Error (remote device)
	Peer Peer bgp name> [(<description>)]: <message type1=""> arrived, expected <message type2=""> [or <message type2="">]]</message></message></message></description>	A message whose message type is inappropriate for the current state was received from the relevant peer. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <message type1="">: Received message type • invalid, Open, Update, Notification, KeepAlive <message type2="">: Message type appropriate for the current state • invalid, Open, Update, Notification, KeepAlive [Action] Check the unicast routing program (BGP4) in the peer.</message></message></description></bgp>
14	bgp_get_open:	Error (remote device)
	reer <i><bgp name=""></bgp></i> [(<i><description></description></i>)]: received short version <i><version></version></i> message (<i><length></length></i> octets)	An invalid-length OPEN message was received from the relevant peer. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <version>: BGP version number in the received message <length>: Received data length [Action] Check the unicast routing program (BGP4) in the peer.</length></version></description></bgp>
15	5 bgp_get_open:	Warning (remote device)
	Received unsupported version <version> message from peer <bgp name> [(<description>)]</description></bgp </version>	An OPEN message that has an unsupported BGP version was received from a peer. [Explanation of message variables] <version>: BGP version number of received messages <bgp name="">: Source peer name <description>: Description name of the source peer [Action] Make sure that the peer supports BGP version 4.</description></bgp></version>

#	Message text	Description
16	bgp_get_open:	Error (remote device)
Peer < <i>bgp na</i> hold time too	Peer body name> [(<description>)]: hold time too small (<holdtime>)</holdtime></description>	An OPEN message whose hold time is less than three seconds was received from the relevant peer. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <holdtime>: Hold time in the received message [Action] Check the peer configuration.</holdtime></description></bgp>
17	bgp_get_open:	Error (remote device)
	Peer bgp name> [(<description>)]: invalid BGP identifier <router id=""></router></description>	An OPEN message that has an invalid BGP identifier was received from the relevant peer. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <router id="">: BGP identifier in the received message [Action] Check the unicast routing program (BGP4) in the peer.</router></description></bgp>
18	bgp_get_open:	Error (remote device)
Peer < <i>bgp na</i> . Unsupported < <i>option</i> >	Peer < <i>bgp name</i> > [(< <i>aescription</i> >)]: Unsupported optional parameter < <i>option</i> >	An OPEN message that contains an invalid option code was received from the relevant peer. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <option>: Option code in the received message [Action] Check the unicast routing program (BGP4) in the peer.</option></description></bgp>
19	19 bgp_recv_open:	Warning (local device or remote device)
	Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)] claims AS <i><as1></as1></i> , <i><as2></as2></i> configured	An OPEN message that has a different AS number than the configured AS number was received from the relevant peer. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <as1>: AS number of the received message <as2>: AS number of the peer in the configuration [Action] Check the configuration.</as2></as1></description></bgp>
20 bg	bgp_recv_open:	Warning (remote device)
	Peer l(<description>)] accepted mismatched versions: peer <version1> this system <version2></version2></version1></description>	A KEEPALIVE message that has a mismatched BGP version number was received from the relevant peer. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <version1>: Remote BGP version number <version2>: Local BGP version number [Action] Make sure that the peer supports BGP version 4.</version2></version1></description></bgp>

#	Message text	Description
21	bgp_pp_recv:	Warning (local device or remote device)
	No group for <i><bgpp name=""></bgpp></i> found, dropping peer	An OPEN message was received from a peer that was not set. [Explanation of message variables] <bgpp name="">: Source peer name [Action] Check the configuration.</bgpp>
22	bgp_pp_recv:	Warning (remote device or network)
	Rejecting connection from <i><bgp name=""></bgp></i> [(<i><description></description></i>)], peer in state <i><state></state></i>	An OPEN message was received from the relevant peer during the Idle, OpenConfirm, or Established state. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <state>: Peer state • Idle, OpenConfirm, Established [Action] The connection has become unstable. If this error occurs frequently, check the cause of the instability.</state></description></bgp>
23	bgp_pp_recv:	Warning (remote device)
	Dropping <i><bgpp name=""></bgpp></i> version <i><version>, <bgp name=""></bgp></version></i> [(<i><description></description></i>)] wants version 4	An OPEN message that has an unsupported BGP version was received from a peer. [Explanation of message variables] <bgpp name="">, <bgp name="">: Source peer name <version>: BGP version number of received messages <description>: Description name of the source peer [Action] Check the BGP version supported by the peer.</description></version></bgp></bgpp>
24	24 bgp_pp_recv:	Error (remote device)
	Peer <i>< bgp name></i> [(<i>< description></i>)] sent unexpected extra data, probably insane	Unnecessary data is appended to the message from the relevant peer. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer [Action] Check the unicast routing program (BGP4) in the peer.</description></bgp>
25	bgp_check_capability_match:	Warning (remote device)
	[(<i><description></description></i>)] is unmatched	The capability settings specified for the Switch are not specified for the relevant peer. [Explanation of message variables]
26 bgp_	bgp_write_flush:	Warning (local device)
	Sending < <i>length1</i> > (sent < <i>length2</i> >) bytes to < <i>bgp name</i> > [(< <i>description</i> >)] failed: < <i>error string</i> >	An attempt to send a message to the relevant peer has failed. [Explanation of message variables] <length1>: Send request data length <length2>: Sent data length <bgp name="">: Target peer name <description>: Description name of the destination peer <error string="">: Error cause [Action] If this error frequently occurs, determine the cause of the error.</error></description></bgp></length2></length1>

#	Message text	Description
27	bgp_write_flush:	Warning (local device, remote device, or network)
	Sending <i><length1></length1></i> (sent <i><length2></length2></i>) bytes to <i><bgp name=""></bgp></i> [(<i><description></description></i>)]: Connection closed	Sending of the message to the peer failed because the connection was disconnected. [Explanation of message variables] < <i>length1</i> >: Send request data length < <i>length2</i> >: Sent data length < <i>bgp name</i> >: Target peer name < <i>description</i> >: Description name of the destination peer [Action] If this error occurs frequently, check the cause of the disconnection.
28	bgp_write_flush:	Warning (local device)
	Sending to <i><bgp name=""></bgp></i> [(<i><description></description></i>)] (sent <i><length1></length1></i> , <i><length2></length2></i> remain[s]) looping: <i><error< i=""> <i>string></i></error<></i>	An attempt to send a message to the relevant peer has timed out. [Explanation of message variables] <bgp name="">: Target peer name <description>: Description name of the destination peer <length1>: Length of the sent data <length2>: Length of the data that remains unsent <error string="">: Error cause [Action] If this error frequently occurs, determine the cause of the error.</error></length2></length1></description></bgp>
29	bgp_peer_connected:	Warning (local device)
	<pre>task_get_addr_local(<bgp name=""> [(<description>)]): <error string=""></error></description></bgp></pre>	Extraction of the local address used for establishing a connection to the relevant peer failed. [Explanation of message variables] <bgp name="">: Connection target peer name <description>: Description name of the connection target peer <error string="">: Error cause [Action] If this error frequently occurs, determine the cause of the error.</error></description></bgp>
30	bgp_connect_start:	Warning (local device)
	Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)] local address <i><ipv4 address=""></ipv4></i> unavailable, connection failed	An attempt to establish a connection failed because the local address used for establishing a connection to the relevant peer could not be used (bind failure). [Explanation of message variables] bgp name>: Connection target peer name <description>: Description name of the connection target peer <ipv4 address="">: Local address used for peering [Action] If this error frequently occurs, determine the cause of the error.</ipv4></description>
31	bgp_traffic_timeout:	Warning (remote device or network)
	Holdtime expired for <i><bgp name=""></bgp></i> [(<i><description></description></i>)]	A hold timeout for the relevant peer occurred. [Explanation of message variables] <bgp name="">: Connection target peer name <description>: Description name of the connection target peer [Action] Check the unicast routing program (BGP4) in the peer.</description></bgp>

#	Message text	Description
32	32 bgp_traffic_timeout: Error sending KEEPALIVE to <bgp name> [(<description>)]: <error string></error </description></bgp 	Warning (local device)
		An attempt to send a KEEPALIVE message to the relevant peer failed. [Explanation of message variables] <i><bgp name=""></bgp></i> : Target peer name <i><description></description></i> : Description name of the destination peer <i><error string=""></error></i> : Error cause [Action] If this error frequently occurs, determine the cause of the error.
33	bgp_listen_accept:	Warning (local device)
	accept(<socket>): <error string=""></error></socket>	An attempt to accept the connection failed. [Explanation of message variables] <socket>: Socket descriptor number <error string="">: Error cause [Action] If this error frequently occurs, determine the cause of the error.</error></socket>
34	bgp_listen_accept:	Error (local device)
	task_get_addr_local() failed, terminating!!	Extraction of the local address used for establishing a connection failed. The connection will be closed. [Explanation of message variables] None. [Action] If this error frequently occurs, check the unicast routing program (BGP4) in the peer.
35	bgp_listen_start:	Error (local device)
	Couldn't get BGP listen socket!!	An attempt to create a socket for establishing a connection failed. The unicast routing program automatically restarts. [Explanation of message variables] None. [Action] Take appropriate action by following the rtm aborted log.
36	bgp_listen_start:	Error (local device)
	listen: < <i>error string</i> >	Preparation for accepting a connection failed. The unicast routing program automatically restarts. [Explanation of message variables] < <i>error string</i> >: Error cause [Action] Take appropriate action by following the rtm aborted log.
37	bgp_set_peer_if: BGP peer < <i>bgp name</i> > [(< <i>description</i> >)] interface not found. Leaving peer idled	Warning (local device)
		The interface connected to the relevant peer was not found. [Explanation of message variables] <bgp name="">: Connection target peer name <description>: Description name of the connection target peer [Action] Check the configuration.</description></bgp>

#	Message text	Description
38	bgp_set_peer_if: BGP peer < <i>bgp name</i> > [(< <i>description</i> >)] local address < <i>ipv4</i> <i>address</i> > not on shared net. Leaving peer idled	Warning (local device)
		The local address used for establishing a connection to the relevant peer is not in the same network. [Explanation of message variables] <bgp name="">: Connection target peer name <description>: Description name of the connection target peer <ipv4 address="">: Local address used for establish a connection [Action] Check the configuration.</ipv4></description></bgp>
39	bgp_pp_timeout:	Warning (remote device or network)
	Peer < <i>bgpp name</i> > timed out waiting for OPEN	The timer for waiting for an OPEN message from the relevant peer timed out. [Explanation of message variables] <bgpp name="">: Connection target peer name [Action] Check the unicast routing program (BGP4) in the peer.</bgpp>
40	bgp_peer_init:	Warning (local device)
BGP peer < [(<i><descriptic< i=""> <i>address></i> no</descriptic<></i>	BGP peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)] local address <i><ipv4< i=""> <i>address></i> not found. Leaving peer idled</ipv4<></i>	The interface for the local address used for establishing a connection to the relevant peer is not found. [Explanation of message variables] <bgp name="">: Connection target peer name <description>: Description name of the connection target peer <ipv4 address="">: Local address used for establish a connection [Action] Check the configuration.</ipv4></description></bgp>
41 bgp_recv_v4_update:	Error (remote device)	
	Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)]: Strange message header length <i><length></length></i>	The message length in the message header of a message received from the relevant peer is invalid. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <length>: Message length of the received message header [Action] Check the unicast routing program (BGP4) in the peer.</length></description></bgp>
42 bg Pe ur	bgp_recv_v4_update: Peer < <i>bgp name</i> > [(< <i>description</i> >)] unrecognized message type < <i>type</i> >	Error (remote device)
		The message type of a message received from the relevant peer is invalid. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <type>: Message type [Action] Check the unicast routing program (BGP4) in the peer.</type></description></bgp>

#	Message text	Description
43	43 bgp_recv_v4_update: Received OPEN message from < <i>bgp</i> <i>name</i> > [(< <i>description</i> >)], state is ESTABLISHED	Warning (remote device or network)
		An OPEN message was receive from the relevant peer in the ESTABLISHED state. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer [Action] The connection has become unstable. If this error occurs frequently, check the cause of the instability.</description></bgp>
44	bgp_recv_v4_update:	Error (remote device)
	Peer bgp name> [(<aescription>)] UPDATE length <length> too small</length></aescription>	The length of the UPDATE message from the relevant peer is too short. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <length>: Received data length [Action] Check the unicast routing program (BGP4) in the peer.</length></description></bgp>
45	bgp_recv_v4_update:	Error (remote device)
	Peer Peer log name> [(<description>)] UPDATE unreachable prefix length <length1> exceeds packet length <length2></length2></length1></description>	The prefix length of unreachable routing information of the UPDATE message from the relevant peer exceeds the packet length. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <length1>: Prefix length of unreachable routing information in the received message <length2>: Received packet length [Action] Check the unicast routing program (BGP4) in the peer.</length2></length1></description></bgp>
46	bgp_recv_v4_update:	Error (remote device)
	Peer <i>< bgp name ></i> [(<i>< description ></i>)] UPDATE zero attribute length followed by <i>< length ></i> bytes of garbage	The attribute length of the UPDATE message from the relevant peer is 0 even though actual data exists. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <length>: Actual data length [Action] Check the unicast routing program (BGP4) in the peer.</length></description></bgp>
47	bgp_recv_v4_update:	Error (remote device)
	reer < <i>ogp name</i> > [(< <i>aescription</i> >)] UPDATE path attribute length < <i>length1</i> > too large (< <i>length2</i> > bytes remaining)	The path attribute length of the UPDATE message from the relevant peer is too long compared to the actual path attribute length. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <length1>: Path attribute length of the received message <length2>: Entity data length [Action] Check the unicast routing program (BGP4) in the peer.</length2></length1></description></bgp>

#	Message text	Description
48	8 bgp_recv_v4_update:	Error (remote device)
	Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)] UPDATE no next hop found	The next-hop attribute is not found in the UPDATE message from the relevant peer. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer [Action] Check the unicast routing program (BGP4) in the peer.</description></bgp>
49	bgp_recv_v4_update:	Error (remote device)
	External peer < bgp name> [(<description>)] UPDATE included LOCALPREF attribute</description>	The LOCALPREF attribute is included in the UPDATE message from the relevant external peer. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer [Action] Check the unicast routing program (BGP4) in the peer.</description></bgp>
50	bgp_recv_v4_update:	Error (remote device)
	Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)] UPDATE no LOCALPREF attribute found	The LOCALPREF attribute is not found in the UPDATE message from the relevant internal peer. [Explanation of message variables] <bgp name="">: Source peer number <description>: Description name of the source peer [Action] Check the unicast routing program (BGP4) in the peer.</description></bgp>
51	bgp_recv_v4_update:	Error (remote device)
	Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)] UPDATE has path attributes but no reachable prefixes!	The UPDATE message from the relevant peer has path attributes but has no reachability information. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer [Action] Check the unicast routing program (BGP4) in the peer.</description></bgp>
52	bgp_recv_v4_unreach:	Error (remote device)
	reer <i>< ogp name></i> [(<i>< description></i>)] UPDATE: Invalid unreachable prefix length <i>< length></i>	The prefix length of unreachable routing information of the UPDATE message received from the relevant peer is invalid. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <length>: Prefix length in received messages [Action] Check the unicast routing program (BGP4) in the peer.</length></description></bgp>

#	Message text	Description
53	53 bgp_recv_v4_unreach: Peer < <i>bgp name</i> > [(< <i>description</i> >)] UPDATE: Prefix length < <i>length1</i> > exceeds unreachable prefix data remaining (< <i>length2</i> > bytes)	Error (remote device)
		The prefix length of unreachable routing information of the UPDATE message received from the relevant peer exceeds the prefix data of unreachable routing information. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <length1>: Prefix length in received messages <length2>: Entity data length [Action] Check the unicast routing program (BGP4) in the peer.</length2></length1></description></bgp>
54	bgp_recv_v4_unreach:	Warning (remote device)
	Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)] UPDATE: Ignoring unreachable route with two or more labels (<i><length1></length1></i> of <i><length2></length2></i>)	Routes of unreachable routing information that has multiple labels of the UPDATE message received from the relevant peer are ignored. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <length1> of <length2>: The location of invalid information in the message [Action] Check the unicast routing program (BGP4) in the peer.</length2></length1></description></bgp>
55	bgp_recv_v4_unreach:	Error (remote device)
	Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)] UPDATE: Ignoring unreachable route with RD 0 prefix (<i><length1></length1></i> of <i><length2></length2></i>)	Routes of unreachable routing information that has RD 0 of the UPDATE message received from the relevant peer are ignored. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <length1> of <length2>: The location of invalid information in the message [Action] Check the unicast routing program (BGP4) in the peer.</length2></length1></description></bgp>
56	bgp_recv_v4_unreach:	Error (remote device)
	Peer Peer bgp name> [(<description>)] UPDATE: Ignoring invalid unreachable route <ipv4 address="">/<mask> (<length1> of <length2>)</length2></length1></mask></ipv4></description>	Invalid routes of unreachable routing information of the UPDATE message received from the relevant peer are ignored. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <ipv4 address="">: Destination address of unreachable routing information <mask>: Network mask of unreachable routing information <length1> of <length2>: The location of invalid information in the message [Action] Check the unicast routing program (BGP4) in the peer.</length2></length1></mask></ipv4></description></bgp>

#	Message text	Description
57	57 bgp_recv_v4_reach: Peer < <i>bgp name</i> > [(< <i>description</i> >)] AS < <i>as1</i> > received path with first AS < <i>as2</i> >	Error (remote device)
		The AS path whose next- hop AS number is <i><as2></as2></i> was received from the peer whose AS number is <i><as1></as1></i> . [Explanation of message variables] <i><bgp name=""></bgp></i> : Source peer name <i><description></description></i> : Description name of the source peer <i><as1></as1></i> : AS number of the source peer <i><as2></as2></i> : Next-hop AS number in the received message [Action] Check the unicast routing program (BGP4) in the peer.
58	bgp_recv_v4_reach:	Error (remote device)
	UPDATE: Invalid prefix length <length></length>	The prefix length of the UPDATE message received from the relevant peer is invalid. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <length>: Prefix length in received messages [Action] Check the unicast routing program (BGP4) in the peer.</length></description></bgp>
59	bgp_recv_v4_reach:	Error (remote device)
	Peer Peer by name> [(<description>)] UPDATE: Prefix length length1> exceeds prefix data remaining (<length2> bytes)</length2></description>	The prefix length of the UPDATE message received from the relevant peer exceeds the actual prefix length. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <length1>: Prefix length in received messages <length2>: Actual prefix length [Action] Check the unicast routing program (BGP4) in the peer.</length2></length1></description></bgp>
60	bgp_recv_v4_reach:	Warning (remote device)
	Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)] UPDATE: Ignoring route with two or more labels (<i><length1></length1></i> of <i><length2></length2></i>)	Routes that have multiple labels of the UPDATE message received from the relevant peer are ignored. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <length1> of <length2>: The location of invalid information in the received message. [Action] Check the unicast routing program (BGP4) in the peer.</length2></length1></description></bgp>
61	61 bgp_recv_v4_reach:	Error (remote device)
	reer <i><ogp name=""></ogp></i> [(<i><aescription></aescription></i>)] UPDATE: Ignoring route with RD 0 prefix (<i><length1></length1></i> of <i><length2></length2></i>)	Routes that have RD 0 of the UPDATE message received from the relevant peer are ignored. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <length1> of <length2>: The location of invalid information in the received message. [Action] Check the unicast routing program (BGP4) in the peer.</length2></length1></description></bgp>

#	Message text	Description
62	bgp_recv_v4_reach: Peer <bgp name=""> [(<description>)] UPDATE:Included invalid route <ipv4 address>/<mask> (<length1> of <length2>)</length2></length1></mask></ipv4 </description></bgp>	Error (remote device) The UPDATE message received from the relevant peer includes invalid routes. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <ipv4 address="">: Destination address <mask>: Network mask <length1> of <length2>: The location of invalid information in the received message. [Action]</length2></length1></mask></ipv4></description></bgp>
62	han raay ya raashi	Check the unicast routing program (BGP4) in the peer.
05	Ignoring network 0 route < <i>ipv4</i> address>/ <mask> from peer <<i>bgp</i> name>[(<<i>description</i>>)](<<i>length1</i>> of <<i>length2</i>>)</mask>	Routes addressed to network 0 from the relevant peer are ignored. [Explanation of message variables] <ipv4 address="">: Destination address <mask>: Network mask <bgp name="">: Source peer name <description>: Description name of the source peer <length1> of <length2>: The location of invalid information in the received message. [Action] Check the unicast routing program (BGP4) in the peer.</length2></length1></description></bgp></mask></ipv4>
64	bgp_recv_v4_reach:	Warning (remote device)
	Ignoring loopback route from peer <i><bgp< i=""> name> [(<i><description></description></i>)](<i><length1></length1></i> of <i><length2></length2></i>)</bgp<></i>	Loopback routes from the relevant peer are ignored. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <length1> of <length2>: The location of invalid information in the received message. [Action] Check the unicast routing program (BGP4) in the peer.</length2></length1></description></bgp>
65	bgp_recv_mp_unreach:	Error (remote device)
	Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)] UPDATE: Invalid length of MP_UNREACH_NLRI attribute(<i><length></length></i>): No address family	The length of the MP_UNREACH_NLRI attribute for the UPDATE message received from the peer is invalid. No address family exists. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <length>: Received MP_UNREACH_NLRI attribute length [Action] Check the unicast routing program (BGP4) in the peer.</length></description></bgp>
66	bgp_recv_mp_unreach:	Error (remote device)
	Peer Peer by name> [(<description>)] UPDATE: Invalid address family (<address family="">) in MP_UNREACH_NLRI attribute</address></description>	The address family of the MP_UNREACH_NLRI attribute for the UPDATE message received from the peer is invalid. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <address family="">: Address family information of the received MP_UNREACH_NLRI attribute [Action] Check the unicast routing program (BGP4) in the peer.</address></description></bgp>

#	Message text	Description
67 by P U M at	bgp_recv_mp_reach: Peer 	Error (remote device)
		The length of the MP_REACH_NLRI attribute for the UPDATE message received from the peer is invalid. No address family exists. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <length>: Received MP_REACH_NLRI attribute length [Action] Check the unicast routing program (BGP4) in the peer.</length></description></bgp>
68	bgp_recv_mp_reach:	Error (remote device)
	Peer Peer by name> [(<description>)] UPDATE: Invalid address family (<address family="">) in MP_REACH_NLRI attribute</address></description>	The address family of the MP_REACH_NLRI attribute for the UPDATE message received from the relevant peer is invalid. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <address family="">: Address family information of the received MP_REACH_NLRI attribute [Action] Check the unicast routing program (BGP4) in the peer.</address></description></bgp>
69	bgp_recv_mp_reach:	Error (remote device)
	Peer Peer by name> [(<description>)] UPDATE: Invalid length of MP_REACH_NLRI attribute(<length>): No nexthop length</length></description>	The length of the MP_REACH_NLRI attribute for the UPDATE message received from the peer is invalid. No next-hop length exists. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <length>: Received MP_REACH_NLRI attribute length [Action] Check the unicast routing program (BGP4) in the peer.</length></description></bgp>
70	70 bgp_recv_mp_reach:	Error (remote device)
	Peer Peer by name> [(<description>)] UPDATE: Invalid nexthop length(<length>) in MP_REACH_NLRI attribute</length></description>	The next-hop length of the MP_REACH_NLRI attribute for the UPDATE message received from the peer is invalid. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <length>: Next-hop length of the received MP_REACH_NLRI attribute [Action] Check the unicast routing program (BGP4) in the peer.</length></description></bgp>
71	bgp_recv_mp_reach:	Error (remote device)
	<pre>rect <orgp name=""> [(<aescription>)] UPDATE: Invalid length of MP_REACH_NLRI attribute(<length>): No nexthop</length></aescription></orgp></pre>	The length of the MP_REACH_NLRI attribute for the UPDATE message received from the peer is invalid. No next hop exists. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <length>: Received MP_REACH_NLRI attribute length [Action] Check the unicast routing program (BGP4) in the peer.</length></description></bgp>

#	Message text	Description		
72	bgp_recv_mp_reach:	Error (remote device)		
	Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)] UPDATE: Invalid rd of nexthop (<i><rd1>:<rd2></rd2></rd1></i>) in MP_REACH_NLRI attribute	The next-hop RD of the MP_REACH_NLRI attribute for the UPDATE message received from the peer is invalid. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <rd1>:<rd2>: Next-hop RD of the received MP_REACH_NLRI attribute [Action] Check the unicast routing program (BGP4) in the peer.</rd2></rd1></description></bgp>		
73	bgp_recv_mp_reach:	Error (remote device)		
	Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)] UPDATE: Invalid length of MP_REACH_NLRI attribute(<i><length></length></i>): No reserved	The length of the MP_REACH_NLRI attribute for the UPDATE message received from the peer is invalid. No reserved field exists. [Explanation of message variables] 		
74	bgp_recv_mp_reach:	Error (remote device)		
	Peer Veer legs name> [(<aescription>)] UPDATE: Invalid length of MP_REACH_NLRI attribute(<length>): No snpa length</length></aescription>	The length of the MP_REACH_NLRI attribute for the UPDATE message received from the peer is invalid. No SNPA length exists. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <length>: Received MP_REACH_NLRI attribute length [Action] Check the unicast routing program (BGP4) in the peer.</length></description></bgp>		
75	bgp_recv_mp_reach:	Error (remote device)		
	Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)] UPDATE: Invalid length of MP_REACH_NLRI attribute(<i><length></length></i>): No snpa	The length of the MP_REACH_NLRI attribute for the UPDATE message received from the peer is invalid. No SNPA exists. [Explanation of message variables] 		
76	bgp_peer_established:	Information (local or remote device)		
	Peer bgp name> [(<description>)] connection established</description>	A BGP4 connection was established with the relevant peer. [Explanation of message variables] <bgp name="">: Connection target peer name <description>: Description name of the connection target peer [Action] None.</description></bgp>		
77	bgp_ifachange:	Information (local or remote device)		
	Peer <i>< bgp name></i> [(<i>< description></i>)]: Closed connection by changing interface state	A BGP4 connection was closed due to a change in the interface state. [Explanation of message variables] <bgp name="">: Connection target peer name <description>: Description name of the connection target peer [Action] Check the cause of the change in the interface state.</description></bgp>		

#	Message text	Description		
78	bgp_terminate:	Information (local device)		
	Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)]: Closed connection by terminating bgp	A BGP4 connection was closed due to the termination of a BGP4 task. [Explanation of message variables] <bgp name="">: Connection target peer name <description>: Description name of the connection target peer [Action] Check the cause of the termination of BGP4 task.</description></bgp>		
79	bgp_peer_delete:	Information (local device)		
	Peer <i>< bgp name></i> [(<i>< description></i>)]: Closed connection by changing configuration	A BGP4 connection was closed due to a change in the configuration (deletion of peer information). [Explanation of message variables] <bgp name="">: Connection target peer name <description>: Description name of the connection target peer [Action] None.</description></bgp>		
80	bgp_init:	Information (local device)		
	Peer <i>< bgp name></i> [(<i>< description></i>)]: Closed connection by changing configuration	A BGP4 connection was closed due to a change in the configuration. [Explanation of message variables] <bgp name="">: Connection target peer name <description>: Description name of the connection target peer [Action] None.</description></bgp>		
81	bgp_peer_clear:	Information (local device)		
	Peer <i>< bgp name></i> [(<i>< description></i>)]: Closed connection by clearing peer	A BGP4 connection was closed by entering the clear ip bgp command. [Explanation of message variables] <bgp name="">: Connection target peer name <description>: Description name of the connection target peer [Action] None.</description></bgp>		
82	bgp_pp_recv:	Error (remote device)		
	Peer <i>< bgp name></i> in graceful-restart failed to retain stale routes, deleting all the stale routes from the peer	A peer that executed a graceful restart failed to save the forwarding path. All the paths learned from the relevant peer will be deleted. [Explanation of message variables] <i><bgp name=""></bgp></i> : Connection target peer name [Action] Check the unicast routing program (BGP4) in the peer.		
83	bgp_recv_open:	Error (remote device)		
	failed to retain stale routes, deleting all the stale routes from the peer	A peer that executed a graceful restart failed to save the forwarding path. All the paths learned from the relevant peer will be deleted. [Explanation of message variables] <bgp name="">: Connection target peer name [Action] Check the unicast routing program (BGP4) in the peer.</bgp>		

#	Message text Description		
84	bgp_restart_timeout:	Error (local or remote device)	
	Peer <i>< bgp name></i> [<i>(<description>)</description></i>]: Timed out waiting for reconnect.	A graceful restart failed. A connection to the peer router could not be established within the restart-time specified by the peer router. [Explanation of message variables] <bgp name="">: Connection target peer name <description>: Description name of the connection target peer [Action] Check if a communication can be established with the peer router. Check if BGP is running on the peer router. If the peer router is running, increase the restart-time value of the peer router so that the peer router can recover and establish a connection.</description></bgp>	
85	bgp_restart_timeout:	Error (remote device)	
	Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)]: Timed out waiting for End-Of-RIB marker from restart router.	A graceful restart failed. End-Of-RIB could not be received from the peer router. [Explanation of message variables] <i>bgp name></i> : Connection target peer name <i>description></i> : Description name of the connection target peer [Action] Check if BGP is running on the relevant peer router. If it is running, increase the stalepath-time value.	
86	bgp_peer_established:	Information (local or remote device)	
	Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)] connection established with graceful restart.	A BGP connection with the relevant peer was re-established. [Explanation of message variables] <bgp name="">: Connection target peer name <description>: Description name of the connection target peer [Action] None.</description></bgp>	
87	bgp_receive_End-Of-RIB:	Information (local device)	
	End-Of-RIB marker received from <i><bgp< i=""> <i>name></i> [(<i><description></description></i>)].</bgp<></i>	End-Of-RIB was received. [Explanation of message variables] <i><bgp name=""></bgp></i> : Source peer name <i><description></description></i> : Description name of the source peer [Action] None.	
88	bgp_send_End-Of-RIB:	Information (local device)	
	[(<i><description< i="">>)].</description<></i>	End-Of-RIB was sent. [Explanation of message variables] <i><bgp name=""></bgp></i> : Target peer name <i><description></description></i> : Description name of the destination peer [Action] None.	
89	BGP:	Warning (remote device)	
	NOTIFICATION sent to <i><bgp name=""></bgp></i> [(<i><description></description></i>)]: code <i><code></code></i> (<i><code string=""></code></i>) [subcode <i><subcode></subcode></i> (<i><subcode string=""></subcode></i>)] [value <i><value></value></i>] [data <i><data></data></i>]	A NOTIFICATION message was sent to the relevant peer. [Explanation of message variables] <bgp name="">: Target peer name <description>: Description name of the destination peer <code> (<code string="">), <subcode> (<subcode string="">): The following error codes and subcodes:</subcode></subcode></code></code></description></bgp>	

#	Message text	Description
		 Error code 1 (Message Header Error) Error subcode 1 (lost connection synchronization) Error subcode 2 (bad length) Error subcode 3 (bad message type) Error subcode 3 (bad message type) Error subcode 0 (unspecified error) Error subcode 1 (unsupported version) Error subcode 2 (bad AS number) Error subcode 3 (bad BGP ID) Error subcode 4 (unsupported optional parameter) Error subcode 4 (unsupported optional parameter) Error subcode 6 (unacceptable holdtime) Error subcode 1 (invalid attribute list) Error subcode 2 (unknown well known attribute) Error subcode 3 (missing well known attribute) Error subcode 4 (attribute flags error) Error subcode 4 (bad ARIGIN attribute) Error subcode 5 (bad attribute length) Error subcode 9 (error with optional attribute) Error subcode 9 (error with optional attribute) Error subcode 10 (bad address or prefix field) Error subcode 11 (AS path attribute problem) Error code 5 (Finite State Machine Error) Error code 6 (Cease) If the <code> value is invalid, invalid is displayed for <code string="">.</code></code> Information in the data field of the Notification message is displayed for <value> or <data>.</data></value> value>: Decimal representation <li< th=""></li<>
90	BGP:	Warning (local device)
	NOTIFICATION received from <i><bgp< i=""> name>[(<i><description></description></i>)]: code <i><code></code></i> (<i><code string=""></code></i>) [subcode <i><subcode></subcode></i> (<i><subcode string=""></subcode></i>)] [value <i><value></value></i>] [data <i><data></data></i>]</bgp<></i>	A NOTIFICATION message was received from the relevant peer. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <code> (<code string="">), <subcode> (<subcode string="">): The following error codes and subcodes:</subcode></subcode></code></code></description></bgp>

#	Message text	Description
		 Error code 1 (Message Header Error) Error subcode 1 (lost connection synchronization) Error subcode 2 (bad length) Error subcode 3 (bad message type) Error subcode 1 (unsupported version) Error subcode 1 (unsupported version) Error subcode 2 (bad AS number) Error subcode 3 (bad BGP ID) Error subcode 4 (unsupported version) Error subcode 3 (bad BGP ID) Error subcode 4 (unsupported capability) Error subcode 7 (unsupported capability) Error subcode 7 (unsupported capability) Error subcode 1 (invalid attribute list) Error subcode 2 (unknown well known attribute) Error subcode 3 (missing well known attribute) Error subcode 5 (bad attribute flags error) Error subcode 5 (bad attribute length) Error subcode 6 (bad ORIGIN attribute) Error subcode 7 (AS loop detected) Error subcode 8 (invalid NEXT_HOP) Error subcode 9 (error with optional attribute) Error subcode 9 (error with optional attribute) Error subcode 9 (error with optional attribute) Error subcode 1 (AS path attribute problem) Error code 5 (Finite State Machine Error) Error code 6 (Cease) If the <code> value is invalid, invalid is displayed for <code string="">.</code></code> Information in the data field of the Notification message is displayed for <value> or <data>.</data></value> value>: Decimal representation <data>: Hexadecimal representation</data>
91	BGP:	Warning (remote device)

#	Message text	Description		
	No MD5 digest from <i><source< i=""> <i>ipv4>+<port no.=""></port></i> to <i><destination< i=""> <i>ipv4>+<port no.=""></port></i> [(VRF <i><vrf id=""></vrf></i>)]</destination<></i></source<></i>	 The MD5 authentication option is not set for the TCP segment received by BGP4 connection. This operation message is output according to the following conditions: The messages from the first to the 16th event are output. After 17 times from the beginning of the event occurrence, this message is output once every 256 times the event occurs. If an event occurs 3 minutes or more after the last event occurred, this message is output when 1 or 2 above occurs. Note that the above number of messages includes the count of BGP: Invalid MD5 digest from <source ipv4=""/> + <port no.=""> to <destination ipv4=""> + <port no.="">.</port></destination></port> [Explanation of message variables] <source ipv4=""/>: Source IPv4 address <port no.="">: TCP port number </port> <destination ipv4="">: Destination IPv4 address</destination> <vrf id="">: VRF ID</vrf> [Action] Check whether the MD authentication is set in BGP4 of the remote system. If it is not set, set the MD authentication so that it matches. If the setting matches, check whether TCP segments are sent from a peer other than the source BGP4 peer. 		
92	BGP: Invalid MD5 digest from <i><source< i=""></source<></i>	Warning (local device or remote device) The MD5 authentication option for TCP segments received by BGP4		
	ipv4>+ <port no.=""> to <destination ipv4>+<port no.=""> [(VRF <vrf id="">)]</vrf></port></destination </port>	 The MD5 authentication option for TCP segments received by BOP4 connection is invalid. This operation message is output according to the following conditions: The messages from the first to the 16th event are output. After 17 times from the beginning of the event occurrence, this message is output once every 256 times the event occurs. If an event occurs 3 minutes or more after the last event occurred, this message is output when 1 or 2 above occurs. Note that the above number of messages includes the count of BGP: No MD5 digest from <i><source ipv4=""/></i> + <i><port no.=""></port></i> to <i><destination ipv4=""></destination></i> + <i><port no.=""></port></i> to <i><destination ipv4=""></destination></i> + <i><port no.=""></port></i>. [Explanation of message variables] <i><source ipv4=""/></i>: Source IPv4 address <i><port no.=""></port></i>: TCP port number <i><destination ipv4=""></destination></i>: Destination IPv4 address <i><vrf id=""></vrf></i>: VRF ID [Action] Check if the MD5 authentication keys match in BGP4 of the local and remote systems. If the MD5 authentication keys match, check if TCP segments are sent from a peer other than the source BGP4 peer. 		
93	BGP: Number of prefix received from <i><bgp< i=""> <i>name></i> [(<i><description></description></i>)]: reached <i><routes1></routes1></i>, limit <i><routes2></routes2></i></bgp<></i>	Warning (remote device) The number of paths (active paths and inactive paths) learned from the relevant peer exceeded the threshold. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <routes1>: Number of paths learned from peers <routes2>: Maximum number of paths learned from peers [Action] If the number of paths learned from the peer further increases, check the number of the paths advertised by the peer.</routes2></routes1></description></bgp>		

#	Message text	Description
94	BGP:	Warning (remote device)
	Number of prefix received from <i><bgp< i=""> <i>name></i> [(<i><description></description></i>)]: <i><routes1></routes1></i> exceed limit <i><routes2></routes2></i></bgp<></i>	The number of paths (active paths and inactive paths) learned from the relevant peer exceeded the maximum value. [Explanation of message variables] <i>bgp name</i> : Source peer name <i>description</i> : Description name of the source peer <i>croutes1</i> : Number of paths learned from peers <i>croutes2</i> : Maximum number of paths learned from peers [Action] Check the number of the paths advertised by the relevant peer.
95	BGP:	Information (remote device)
	Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)]: Closed connection by maximum-prefix	BGP4 connection was closed due to the limitation of the number of learned paths. [Explanation of message variables] <bgp name="">: Connection target peer name <description>: Description name of the connection target peer [Action] Check the number of the paths advertised by the relevant peer. To reconnect the peer, make sure that the number of paths advertised by the peer is equal to or less than the maximum value, and then enter the clear ip bgp command.</description></bgp>
96	BGP:	Warning (remote device)
	Peer by name> [(<description>)] UPDATE included attribute type code (0) [- AS Path (<as number="">): <aspath>]</aspath></as></description>	 An UPDATE message including the path attribute of type code 0 was received from the relevant peer. This operation message is not output again on the same peer for an hour after the previous output. [Explanation of message variables] <i>bgp name</i>>: Source peer name <i>description</i>>: Description name of the source peer <i>as number</i>>: Number of AS numbers <i>aspath</i>>: AS paths, in the following format: <i>AS sequential number</i>: AS_SEQ {<i>AS sequential number</i>}: AS_SET (<i>AS sequential number</i>): AS_CONFED_SEQUENCE Note that, the entire AS path might not be output because there is a limit to the number of characters that can be output in an operation message. [Action] Check the unicast routing program (BGP4) in the peer.

2.1.4 Event information common to the IPv4 unicast routing protocols

The following table describes the event information common to IPv4 unicast routing protocols (RTM).

#	Message text	Description		
1	1 *** Give up gdump. Because of no	Warning (local device)		
	enough memory.	Dump collection was stopped because the remaining memory capacity of the system temporarily fell below the preset value while unicast routing program control information dumps were being collected by the dump protocols unicast command. [Explanation of message variables] None. [Action] There is not enough memory to execute the command. Review the capacity limit.		
2	The number of IPv4 unicast routes on	Warning (local device)		
	global network exceeded the mint.	 The number of IPv4 unicast routes on the global network has exceeded the maximum. [Explanation of message variables] None. [Action] 1. Delete unnecessary routes. 2. Review the maximum number of routes that was specified in the configuration. 		
3	The number of IPv4 unicast routes on VPF <pre>vrfid> avceaded the limit</pre>	Warning (local device)		
	VKF <i>VIJ U</i> exceeded the mint.	 The number of IPv4 unicast routes on VRF <<i>vrfid></i> has exceeded the maximum. [Explanation of message variables] <i>vrfid></i> VRF ID [Action] 1. Delete unnecessary routes. 2. Review the maximum number of routes that was specified in the configuration. 		
4	The number of IPv4 unicast routes on	Information (local device)		
	global network exceeded the warning threshold.	The number of IPv4 unicast routes on the global network has exceeded the warning threshold value. [Explanation of message variables] None. [Action] When adding routes, make sure that the number of added routes does not exceed the maximum.		
5	The number of IPv4 unicast routes on	Information (local device)		
	threshold.	The number of IPv4 unicast routes on VRF < <i>vrf id></i> has exceeded the warning threshold value. [Explanation of message variables] < <i>vrf id></i> VRF ID [Action] When adding routes, make sure that the number of added routes does not exceed the maximum number of routes.		

Table	2-4:	Event	information	common	to IPv4	unicast	routing	protocols
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2.2 IPv6 routing protocol information (RTM)

This section explains IPv6 routing protocol event information.

2.2.1 RIPng

The following table describes the event information for IPv6 routing protocol information (RTM).

Table 2-5: IPv6 routing protocol (RIPng) event information

#	Message text	Description		
1	1 ripng_recv:	Error (remote device)		
	Bad metric (<i>metric</i>) for net <i>prefix</i> from <i>source address</i>	Routing information that has an invalid metric (0, or 17 or larger) was received. [Explanation of message variables] < <i>metric</i> >: Metric of the routing information < <i>prefix</i> >: Routing information destination prefix < <i>source address</i> >: Source gateway address [Action] Check the unicast routing program (RIPng) for the source gateway.		
2	ripng_recv:	Error (remote device)		
	<pre>source address></pre>	Routing information that has an invalid prefix length was received. [Explanation of message variables] <pefixlen>: Prefix length of the routing information <prefix>: Routing information destination <source address=""/>: Source gateway address [Action] Check the unicast routing program (RIPng) for the source gateway.</prefix></pefixlen>		
3	ripng_recv:	Error (remote device)		
	Ignoring RIPng <i><ripng command=""></ripng></i> packet from <i><source address=""/></i> - ignoring invalid version packet	A received RIPng packet was ignored because the version field was invalid. [Explanation of message variables] < <i>ripng command</i> >: Received message type • Request, Response < <i>source address</i> >: Source gateway address [Action] Check the unicast routing program (RIPng) for the source gateway.		
4	ripng_recv:	Error (remote device)		
	must be 255.	A received RIPng packet was ignored because the hop limit was invalid. [Explanation of message variables] < <i>hop limit</i> >: Received hop limit [Action] Check the unicast routing program (RIPng) for the source gateway.		
5	ripng_init:	Error (local device)		
	Old copy of run is running	Unicast routing program might already be running. The unicast routing program automatically restarts. [Explanation of message variables] None. [Action] Take appropriate action by following the rtm aborted log.		

#	Message text	Description		
6	ripng_recv:	Error (remote device)		
	Ignoring RIPng <i><ripng command=""></ripng></i> from <i><source address=""/></i> - source address is not link-local.	A received RIPng packet was ignored because the source address was not a link-local address. [Explanation of message variables] < <i>ripng command</i> >: Received message type < <i>source address</i> >: Source gateway [Action] Check the unicast routing program (RIPng) for the source gateway.		
7	ripng_recv:	Error (remote device)		
	Ignoring RIPng <i><ripng command=""></ripng></i> from <i><source address=""/></i> - source port is not valid.	A received RIPng packet was ignored because the source port was invalid. [Explanation of message variables] < <i>ripng command</i> >: Received message type < <i>source address</i> >: Source gateway [Action] Check the unicast routing program (RIPng) for the source gateway.		
8	ripng_recv:	Error (remote device)		
	Ignoring RIPng <i><ripng command=""></ripng></i> packet from <i><source address=""/></i> - invalid or not implemented command	A received packet was ignored because the command was invalid or not implemented. [Explanation of message variables] < <i>ripng command</i> >: Received message type < <i>source address</i> >: Source gateway [Action] Check the unicast routing program (RIPng) for the source gateway.		
9	ripng_recv:	Error (remote device)		
	address> - too short packet (<i>size</i>)	A received packet was ignored because the packet length was shorter than the RIPng header. [Explanation of message variables] <source address=""/> : Source gateway <size>: Packet length [Action] Check the unicast routing program (RIPng) for the source gateway.</size>		
10	ripng_recv:	Error (remote device)		
	Ignoring RIPng request packet from <i><source address=""/></i> - the routing entries of improper length	A received request packet was ignored because routing information of invalid length was included. [Explanation of message variables] <i><source address=""/></i> : Source gateway [Action] Check the unicast routing program (RIPng) for the source gateway.		
11	ripng_recv:	Error (remote device)		
	Ignoring a routing entry of improper length - packet from <i><source address=""/></i>	Routing information of invalid length was ignored. [Explanation of message variables] <source address=""/> : Source gateway [Action] Check the unicast routing program (RIPng) for the source gateway.		

#	Message text	Description
12	RIPng:	Error (local device)
	more than the maximum permitted	The total number of RIPng targets (adjacent) exceeds the maximum number permitted. [Explanation of message variables] None. [Action] Check, and if necessary, revise the RIP settings so that the maximum number of adjacent routers does not exceed the capacity limit.

2.2.2 OSPFv3 [OS-L3SA]

The following table describes the event information for IPv6 routing protocol information (RTM).

Table 2-6: IPv6 routing protocol (OSPFv3) event info	rmation
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#	Message text	Description
1	OSPFv3 SENT < <i>source address</i> >	Warning (local device)
	(<interface name="">) -> < destination address>: <error string=""></error></interface>	An attempt to send an OSPFv3 packet failed. [Explanation of message variables] <source address=""/> : Source IPv6 address <interface name="">: Interface name <destination address="">: Destination IPv6 address <error string="">: Error cause [Action] If this error frequently occurs, determine the cause of the error.</error></destination></interface>
2	OSPFv3:	Warning (local device or network)
	[(VRF < <i>vrf id</i> >)] failed because network topology is changed.	The helper router operations stopped because the topology was changed. [Explanation of message variables] <i><router id=""></router></i> : Adjacent router's router ID <i><vrf id=""></vrf></i> : VRF ID [Action] None.
3	OSPFv3:	Information (remote device)
	Helper to adjacency <i><router id=""></router></i> [(VRF <i><vrf id=""></vrf></i>)] failed because restart time is up.	The helper router operations stopped because the waiting time for restart elapsed. [Explanation of message variables] < <i>router id</i> >: Adjacent router's router ID < <i>vrf id</i> >: VRF ID [Action] Check if the adjacent router has stopped the restart operation. If it has not stopped, adjust the restart time of the adjacent router.
4	OSPFv3 RECV [Area <area id=""/>]	Warning (local device or remote device)
	RouterID <source id=""/> [(<interface name>)] -> <destination address="">: <log type=""></log></destination></interface 	A received OSPFv3 packet was invalid. However, multicast packets received from broadcast-type interfaces that have not been set as OSPFv3 interfaces are discarded without log acquisition. [Explanation of message variables] <area id=""/> : Area ID <source id=""/> : Source router ID
		<interface name="">: Interface name <destination address="">: Destination IPv6 address <log type="">: One of the following log types:</log></destination></interface>

#	Message text	Description
		 IP: received my own packet bad packet type bad version bad checksum packet too small packet size > ip length unknown neighbor
		 area mismatch bad virtual link interface down
		 HELLO: hello timer mismatch HELLO: dead timer mismatch HELLO: extern option mismatch DD: extern option mismatch HELLO: router id confusion DD: router id confusion DD: MTU mismatch
		 LS ACK: Unknown LSA type LS REQ: empty request LS REQ: bad request LS UPD: LSA checksum bad LS UPD: Unknown LSA type
		 [Action] The action to be taken depends on the type of the log. IP: received my own packet bad packet type bad version bad checksum packet too small packet size > ip length An adjacent router is sending an invalid packet. Check the unicast routing program (OSPFv3) of the adjacent router. unknown neighbor Non-Hello packets were received from an adjacent router that is not recognized by Hello, but no action is required.
		 area mismatch bad virtual link If packets are received from the new adjacent router, modify the area settings. In other cases, no action is required.
		 interface down None. HELLO: hello timer mismatch
		 HELLO: dead timer mismatch Modify the OSPFv3 interface settings. HELLO: extern exting mismatch
		 HELLO: extern option mismatch DD: extern option mismatch Modify the stub area settings.
		 HELLO: router id confusion DD: router id confusion Modify the router ID settings.

#	Message text	Description
		• DD: MTU mismatch An attempt to exchange routing information might fail because the MTU length does not match the adjacent router. Match the MTU length.
		 LS ACK: Unknown LSA type LS REQ: empty request LS REQ: bad request LS UPD: LSA checksum bad LS UPD: Unknown LSA type An adjacent router is sending an invalid packet. Check the unicast routing program (OSPFv3) of the adjacent router.
5	OSPFv3:	Error (local device)
	Conflict between LSDB < <i>lsid</i> > and route < <i>prefix</i> > /< <i>prefixlen</i> > - Export to OSPFASE Bypassed.	There is a conflict between LSDB < <i>lsid</i> > and the route. The unicast routing program automatically restarts. [Explanation of message variables] < <i>lsid</i> >: LSID of LSA < <i>prefix</i> >: Routing information destination address < <i>prefixlen</i> >: Prefix length of the routing information [Action] Take appropriate action by following the rtm aborted log.
6	OSPFv3:	Warning (remote device or network)
	Lost adjacency <i><router id=""></router></i> with interfaceID <i><id> (<interface name="">)</interface></id></i> because no Hello received recently.	Adjacency was terminated because Hello packets that should be sent periodically from the adjacent router were not received during a given interval. This occurs when the adjacent router is deactivated, or if a problem occurs in communication between the Switch and the adjacent router. [Explanation of message variables] < <i>router id</i> >: Adjacent router's router ID < <i>id</i> >: ID of the interface of the adjacent router < <i>interface name</i> >: Interface name [Action] If this warning occurs frequently, shorten the interval for sending Hello packets (hellointerval) or extend the maximum interval for receiving Hello packets (routerdeadinterval).
7	OSPFv3: Lost adjacency < <i>router id</i> > with	Warning (remote device or network)
	interfaceID < <i>id</i> > (<i><interface i="" name<="">>) because neighbor didn't receive my Hello recently.</interface></i>	Adjacency was terminated because the adjacent router no longer recognizes the Switch. This occurs when the adjacent router is restarted or Hello packets sent by the Switch are not properly received by the adjacent router. [Explanation of message variables] < <i>router id</i> >: Adjacent router's router ID < <i>id</i> >: ID of the interface of the adjacent router < <i>interface name</i> >: Interface name [Action] If this warning occurs frequently, extend the interval for sending Hello packets (hellointerval) and the maximum interval for receiving Hello packets (routerdeadinterval).

#	Message text	Description
8	8 OSPFv3: Lost adjacency <i><router id1=""></router></i> with interfaceID <i><id> (<interface name="">)</interface></id></i> due to bad LS Request (<i><lsid></lsid></i> <i><router id2=""> <ls type=""></ls></router></i>).	Error (remote device)
		An adjacent router was lost due to an invalid LS request. [Explanation of message variables] <router id1="">: Adjacent router's router ID <id>: ID of the interface of the adjacent router <interface name="">: Interface name <lsid>: LSID of LSA <router id2="">: LSA advertising router ID <ls type="">: LSA LS type code [Action] Check the unicast routing program (OSPFv3) of the adjacent router.</ls></router></lsid></interface></id></router>
9	OSPFv3:	Warning (local device or remote device)
	interfaceID < <i>id</i> > (<i><interface i="" name<="">>) due to sequence mismatch (<i><sequence1< i="">> versus <i><sequence2< i="">>)</sequence2<></i></sequence1<></i></interface></i>	An adjacent router was lost due to a sequence (or option) mismatch. [Explanation of message variables] <router id="">: Adjacent router's router ID <id>: ID of the interface of the adjacent router <interface name="">: Interface name <sequence1>: Sequence number in control data <sequence2>: Sequence number in the DD message [Action] If this warning occurs frequently, extend the interval for retransmitting OSPFv3 packets (retransmitinterval).</sequence2></sequence1></interface></id></router>
10	OSPFv3:	Information (local or remote device)
	<interface name=""> is established.</interface>	A connection with the OSPFv3 adjacent router was successfully established. [Explanation of message variables] < <i>router id</i> >: Adjacent router's router ID < <i>interface name</i> >: Interface name [Action] None.
11	OSPFv3:	Error (local device)
	type> ID <lsid> adv-router <router id> in this system's LSDB that belongs to Area <area id=""/>, Domain <domain id> [on VRF <vrf id="">].</vrf></domain </router </lsid>	LSDB checksum is invalid. The unicast routing program automatically restarts. [Explanation of message variables] < <i>ls type</i> >: LSA LS type code < <i>lsid</i> >: LSA of LSA < <i>router id</i> >: LSA advertising router ID < <i>area id</i> >: LSA area ID < <i>domain id</i> >: LSA domain ID < <i>vrf id</i> >: VRF ID [Action] Take appropriate action by following the rtm aborted log.
12 OSPFv	OSPFv3:	Information (local device)
	Recovered from stub router (in [(VRF < <i>vrf id</i> >)] domain < <i>domain id</i> >).	The stub router operation will now end. [Explanation of message variables] <vrf id="">: VRF ID <domain id="">: OSPFv3 domain ID [Action] None.</domain></vrf>

2.2.3 BGP4+ [OS-L3SA]

The following table describes the event information for IPv6 routing protocol information (RTM).

#	Message text	Description
1	1 bgp4+_check_auth:	Error (remote device)
Synchronization failure with BGP task < <i>task name></i>	The value of the header marker of the message received by BGP4+ task was invalid. [Explanation of message variables] < <i>task name</i> >: BGP4+ task name [Action] Check the unicast routing program (BGP4+) in the peer.	
2	bgp4+_trace:	Error (local device)
	<pre> version>!!! </pre>	The BGP version number in control data was invalid. The unicast routing program automatically restarts. [Explanation of message variables] < <i>version</i> >: BGP version number in control data [Action] Take appropriate action by following the rtm aborted log.
3	bgp4+_log_notify:	Error (remote device)
Notify message received from <i><bgp< i=""> <i>name></i> [(<i><description></description></i>)] is truncated (length <i><length></length></i>)</bgp<></i>	The length of the NOTIFICATION message received from the relevant peer was invalid. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <length>: Received data length [Action] Check the unicast routing program (BGP4+) in the peer.</length></description></bgp>	
4	4 bgp4+_send:	Warning (local device)
	Sending <i><length></length></i> bytes to <i><bgp< i=""> <i>name></i> [(<i><description></description></i>)] blocked (no spooling requested): <i><error string=""></error></i></bgp<></i>	An attempt to send a message to the relevant peer failed because the socket buffer became full. [Explanation of message variables] <length>: Send request message length <bgp name="">: Target peer name <description>: Description name of the destination peer <error string="">: Error cause [Action] If this error frequently occurs, determine the cause of the error.</error></description></bgp></length>
5	bgp4+_send:	Warning (local device)
	<i>name></i> [(< <i>description></i>)] failed: < <i>error string></i>	An attempt to send a message to the relevant peer has failed. [Explanation of message variables] <length>: Send request message length <bgp name="">: Target peer name <description>: Description name of the destination peer <error string="">: Error cause [Action] If this error frequently occurs, determine the cause of the error.</error></description></bgp></length>

Table 2-7: IPv6 routing protocol (BGP4+) event information

#	Message text	Description
6	6 bgp4+_send:	Warning (local device, remote device, or network)
Sending < <i>length</i> > bytes to < <i>bgp</i> name> [(< <i>description</i> >)]: connection closed	Sending of the message to the peer failed because the connection was disconnected. [Explanation of message variables] < <i>length</i> >: Send request message length < <i>bgp name</i> >: Target peer name < <i>description</i> >: Description name of the destination peer [Action] If this error occurs frequently, check the cause of the disconnection.	
7	bgp4+_send:	Warning (local device)
	sending to <i><bgp name=""></bgp></i> [(<i><description></description></i>)] looping: <i><error< i=""> <i>string></i></error<></i>	An attempt to send a message to the relevant peer has timed out. [Explanation of message variables] <bgp name="">: Target peer name <description>: Description name of the destination peer <error string="">: Error cause [Action] If this error frequently occurs, determine the cause of the error.</error></description></bgp>
8	bgp4+_send_open:	Error (local device)
	Internal error! peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)], version <i><version></version></i>	The BGP version number of the OPEN message to be sent to the relevant peer was invalid. The unicast routing program automatically restarts. [Explanation of message variables] <bgp name="">: Target peer name <description>: Description name of the destination peer <version>: BGP version number in the send message [Action] Take appropriate action by following the rtm aborted log.</version></description></bgp>
9	bgp4+_path_attr_error from	Error (remote device)
	<routine>: Update error subcode <code> (<error string>) for peer <bgp name=""> [(<description>)] detected. <length> bytes error data - 1st five:<error data=""></error></length></description></bgp></error </code></routine>	An error was detected in the UPDATE message received from the relevant peer. [Explanation of message variables] <routine>: Internal routine name <code> (<error string="">): Error cause <bgp name="">: Source peer name <description>: Description name of the source peer <length>: Error data length <error data="">: First five bytes of error data [Action] Check the unicast routing program (BGP4+) in the peer.</error></length></description></bgp></error></code></routine>
10	bgp4+_recv: Read from peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)] failed: <i><error< i=""> <i>string></i></error<></i>	Warning (local device) An attempt to receive a message from the relevant peer failed. [Explanation of message variables] <bgp name="">: Source peer name <bgr></bgr><bgr></bgr> (accription>: Description name of the source peer (action] If this error frequently occurs, determine the cause of the error.</bgp>

#	Message text	Description
11	bgp4+_recv:	Warning (local device, remote device, or network)
	Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)]: Received unexpected EOF	An attempt to receive a message from the relevant peer failed due to disconnection. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer [Action] If this error occurs frequently, check the cause of the disconnection.</description></bgp>
12	bgp4+_read_message:	Error (remote device)
	Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)]: <i><message type=""></message></i> message arrived with length <i><length></length></i>	An invalid-length message was received from the relevant peer. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <message type="">: Received message type • invalid, Open, Update, Notification, KeepAlive <length>: Received data length [Action] Check the unicast routing program (BGP4+) in the peer.</length></message></description></bgp>
13	bgp4+_read_message:	Error (remote device)
	Peer <bgp name=""> [(<description>)]: <message type1=""> arrived, expected <message type2=""> [or <message type2>]</message </message></message></description></bgp>	A message whose message type is inappropriate for the current state was received from the relevant peer. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <message type1="">: Received message type • invalid, Open, Update, Notification, KeepAlive <message type2="">: Message type appropriate for the current state • invalid, Open, Update, Notification, KeepAlive [Action] Check the unicast routing program (BGP4+) in the peer.</message></message></description></bgp>
14	bgp4+_get_open:	Error (remote device)
	Received short version <version> message (<<i>length</i>> octets)</version>	An invalid-length OPEN message was received from the relevant peer. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <version>: BGP version number in the received message <length>: Received data length [Action] Check the unicast routing program (BGP4+) in the peer.</length></version></description></bgp>
15	15 bgp4+_get_open:	Warning (remote device)
	<pre>keceived unsupported version <version> message from peer <bgp name=""> [(<description>)]</description></bgp></version></pre>	An OPEN message that has an unsupported BGP version was received from a peer. [Explanation of message variables] <version>: BGP version number of received messages <bgp name="">: Source peer name <description>: Description name of the source peer [Action] Make sure that the peer supports BGP version 4.</description></bgp></version>

#	Message text	Description
16	16 bgp4+_get_open:	Error (remote device)
Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)]: Hold time too small (<i><hold time=""></hold></i>)	An OPEN message whose hold time is less than three seconds was received from the relevant peer. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <hold time="">: Hold time in the received message [Action] Check the peer configuration.</hold></description></bgp>	
17	bgp4+_get_open:	Error (remote device)
	Peer <i>logp name></i> [(< <i>description></i>)]: Invalid BGP4+ identifier < <i>router id></i>	An OPEN message that has an invalid BGP4+ identifier was received from the relevant peer. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <router id="">: BGP4+ identifier in the received message [Action] Check the unicast routing program (BGP4+) in the peer.</router></description></bgp>
18	bgp4+_get_open:	Error (remote device)
Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)]: Unsupported optional parameter <i><option></option></i>	An OPEN message that contains an invalid option code was received from the relevant peer. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <option>: Option code in the received message [Action] Check the unicast routing program (BGP4+) in the peer.</option></description></bgp>	
19	bgp4+_recv_open:	Warning (local device or remote device)
	Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)] claims AS <i><as1></as1></i> , <i><as2></as2></i> configured	An OPEN message that has a different AS number than the configured AS number was received from the relevant peer. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <as1>: AS number of the received message <as2>: AS number of the peer in the configuration [Action] Check the configuration.</as2></as1></description></bgp>
20 bgp4+_recv_open:	Warning (remote device)	
	Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)] accepted mismatched versions: Peer <i><version1></version1></i> this system <i><version2></version2></i>	A KEEPALIVE message that has a mismatched BGP version number was received from the relevant peer. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <version1>: Remote BGP version number <version2>: Local BGP version number [Action] Make sure that the peer supports BGP4+.</version2></version1></description></bgp>

#	Message text	Description
21	bgp4+_pp_recv:	Warning (local device or remote device)
	No group for <i><bgpp name=""></bgpp></i> found, dropping peer	An OPEN message was received from a peer that was not set. [Explanation of message variables] <bgpp name="">: Source peer name [Action] Check the configuration.</bgpp>
22	bgp4+_pp_recv:	Warning (remote device or network)
	Rejecting connection from <i><bgp< i=""> <i>name></i> [(<i><description></description></i>)], peer in state <i><state></state></i></bgp<></i>	An OPEN message was received from the relevant peer during the Idle, OpenConfirm, or Established state. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <state>: Peer state • Idle, OpenConfirm, Established [Action] The connection has become unstable. If this error occurs frequently, check the cause of the instability.</state></description></bgp>
23	bgp4+_pp_recv:	Warning (remote device)
	Dropping <i><bgpp name=""></bgpp></i> version <i><version>, <bgp name=""></bgp></version></i> [(<i><description></description></i>)] wants version 4	An OPEN message that has an unsupported BGP version was received from a peer. [Explanation of message variables] <bgpp name="">, <bgp name="">: Source peer name <version>: BGP version number of received messages <description>: Description name of the source peer [Action] Check the BGP version supported by the peer.</description></version></bgp></bgpp>
24	bgp4+_pp_recv: Peer < <i>bgp name</i> > [(< <i>description</i> >)] sent unexpected extra data, probably insane	Error (remote device) Unnecessary data is appended to the message from the relevant peer. [Explanation of message variables]
		Check the unicast routing program (BGP4+) in the peer.
25	bgp4+_check_capability_match: Capability of peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)] is unmatched	Warning (remote device) The capability settings specified for the Switch are not specified for the relevant peer. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer [Action] Check the configuration.</description></bgp>
26	bgp4+_write_flush: Sending < <i>length1</i> > (sent < <i>length2</i> >) bytes to < <i>bgp name</i> > [(< <i>description</i> >)] failed: < <i>error</i> string>	Warning (local device) An attempt to send a message to the relevant peer has failed. [Explanation of message variables] <length1>: Send request data length <length2>: Sent data length <bgp name="">: Target peer name <description>: Description name of the destination peer <error string="">: Error cause [Action] If this error frequently occurs, determine the cause of the error.</error></description></bgp></length2></length1>

#	Message text	Description
27	27 bgp4+_write_flush:	Warning (local device, remote device, or network)
Sending < <i>length1</i> > (sent < <i>length2</i> >) bytes to < <i>bgp name</i> > [(< <i>description</i> >)]: Connection closed	Sending of the message to the peer failed because the connection was disconnected. [Explanation of message variables] < <i>length1</i> >: Send request data length < <i>length2</i> >: Sent data length < <i>bgp name</i> >: Target peer name < <i>description</i> >: Description name of the destination peer [Action] If this error occurs frequently, check the cause of the disconnection.	
28	bgp4+_write_flush:	Warning (local device)
	Sending to <i><bgp name=""></bgp></i> [(<i><description></description></i>)] (sent <i><length1></length1></i> , <i><length2></length2></i> remain[s]) looping: <i><error< i=""> <i>string></i></error<></i>	An attempt to send a message to the relevant peer has timed out. [Explanation of message variables] <bgp name="">: Target peer name <description>: Description name of the destination peer <length1>: Length of the sent data <length2>: Length of the data that remains unsent <error string="">: Error cause [Action] If this error frequently occurs, determine the cause of the error.</error></length2></length1></description></bgp>
29	bgp4+_peer_connected:	Warning (local device)
	task_get_addr_local(<bgp name=""> [(<description>)]): <error string=""></error></description></bgp>	Extraction of the local address used for establishing a connection to the relevant peer failed. [Explanation of message variables]
30	30 bgp4+_connect_start:	Warning (local device)
	Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)] local address <i><ipv6 address=""></ipv6></i> unavailable, connection failed	An attempt to establish a connection failed because the local address used for establishing a connection to the relevant peer could not be used (bind failure). [Explanation of message variables] <bgp name="">: Connection target peer name <description>: Description name of the connection target peer <ipv6 address="">: Local address used for peering [Action] If this error frequently occurs, determine the cause of the error.</ipv6></description></bgp>
31 bgp4+_traffic_timeout: Holdtime expired for <bgp name=""> [(<description>)]</description></bgp>	bgp4+_traffic_timeout:	Warning (remote device or network)
	A hold timeout for the relevant peer occurred. [Explanation of message variables] <bgp name="">: Connection target peer name <description>: Description name of the connection target peer [Action] Check the unicast routing program (BGP4+) in the peer.</description></bgp>	

#	Message text	Description
32	32 bgp4+_traffic_timeout:	Warning (local device)
Error sending KEEPALIVE to <i><bgp< i=""> name> [(<i><description></description></i>)]: <i><error< i=""> string></error<></i></bgp<></i>	An attempt to send a KEEPALIVE message to the relevant peer failed. [Explanation of message variables] <i><bgp name=""></bgp></i> : Target peer name <i><description></description></i> : Description name of the destination peer <i><error string=""></error></i> : Error cause [Action] If this error frequently occurs, determine the cause of the error.	
33	bgp4+_listen_accept:	Warning (local device)
	accept(<socket>): <error string=""></error></socket>	An attempt to accept the connection failed. [Explanation of message variables] <socket>: Socket descriptor number <error string="">: Error cause [Action] If this error frequently occurs, determine the cause of the error.</error></socket>
34	bgp4+_listen_accept:	Error (local device)
	bgp4+_get_peer_if() failed, terminating!!	Extraction of the link-local address used for establishing a connection failed. The connection will be closed. [Explanation of message variables] None. [Action] If this error frequently occurs, check the unicast routing program (BGP4+) in the peer.
35	35 bgp4+_listen_accept:	Error (local device)
	task_get_addr_local() failed, terminating!!	Extraction of the local address used for establishing a connection failed. The connection will be closed. [Explanation of message variables] None. [Action] If this error frequently occurs, check the unicast routing program (BGP4+) in the peer.
36	bgp4+_listen_start:	Error (local device)
	Couldn't get BGP listen socket!!	An attempt to create a socket for establishing a connection failed. The unicast routing program automatically restarts. [Explanation of message variables] None. [Action] Take appropriate action by following the rtm aborted log.
37	37 bgp4+_listen_start:	Еггог (local device)
	iisten: <i><error siring=""></error></i>	Preparation for accepting a connection failed. The unicast routing program automatically restarts. [Explanation of message variables] < <i>error string</i> >: Error cause [Action] Take appropriate action by following the rtm aborted log.

#	Message text	Description
38	bgp4+_set_peer_if: BGP peer < <i>bgp name</i> > [(< <i>description</i> >)] interface not found. Leaving peer idled	Warning (local device)
		The interface connected to the relevant peer was not found. [Explanation of message variables] <i><bgp name=""></bgp></i> : Connection target peer name <i><description></description></i> : Description name of the connection target peer [Action] Check the configuration.
39	bgp4+_set_peer_if: BGP peer < <i>bgp name</i> > [(< <i>description</i> >)] local address < <i>ipv6</i> <i>address</i> > not on shared net. Leaving peer idled	Warning (local device)
		The local address used for establishing a connection to the relevant peer is not in the same network. [Explanation of message variables] <bgp name="">: Connection target peer name <description>: Description name of the connection target peer <ipv6 address="">: Local address used for establish a connection [Action] Check the configuration.</ipv6></description></bgp>
40	bgp4+_pp_timeout: Peer < <i>bgpp name</i> > timed out waiting for OPEN	Warning (remote device or network)
		The timer for waiting for an OPEN message from the relevant peer timed out. [Explanation of message variables] <bgpp name="">: Connection target peer name [Action] Check the unicast routing program (BGP4+) in the peer.</bgpp>
41	bgp4+_peer_init: BGP peer < <i>bgp name</i> > [(< <i>description</i> >)] local address < <i>ipv6</i> <i>address</i> > not found. Leaving peer idled	Warning (local device)
		The interface for the local address used for establishing a connection to the relevant peer is not found. [Explanation of message variables] <bgp name="">: Connection target peer name <description>: Description name of the connection target peer <ipv6 address="">: Local address used for establish a connection [Action] Check the configuration.</ipv6></description></bgp>
42	bgp4+_recv_update: Peer < <i>bgp name</i> > [(< <i>description</i> >)]: Strange message header length < <i>length</i> >	Error (remote device)
		The message length in the message header of a message received from the relevant peer is invalid. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <length>: Message length of the received message header [Action] Check the unicast routing program (BGP4+) in the peer.</length></description></bgp>
43	bgp4+_recv_update: Peer < <i>bgp name</i> > [(< <i>description</i> >)] unrecognized message type < <i>type</i> >	Error (remote device)
		The message type of the UPDATE message received from the relevant peer is invalid. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <type>: Message type [Action] Check the unicast routing program (BGP4+) in the peer.</type></description></bgp>

#	Message text	Description
44	bgp4+_recv _update: Received OPEN message from <bgp name> [(<description>)], state is ESTABLISHED</description></bgp 	Warning (remote device or network) An OPEN message was receive from the relevant peer in the ESTABLISHED state. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer [Action] The connection has become unstable. If this error occurs frequently, check the cause of the instability.</description></bgp>
45	bgp4+_recv _update: Peer < <i>bgp name</i> > [(< <i>description</i> >)] UPDATE length < <i>length</i> > too small	Error (remote device) The length of the UPDATE message from the relevant peer is too short. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <length>: Received data length [Action] Check the unicast routing program (BGP4+) in the peer.</length></description></bgp>
46	bgp4+_recv_update: Peer < <i>bgp name</i> > [(< <i>description</i> >)] UPDATE unreachable prefix length < <i>length1</i> > exceeds packet length < <i>length2</i> >	Error (remote device) The prefix length of unreachable routing information of the UPDATE message from the relevant peer exceeds the packet length. [Explanation of message variables]
47	bgp4+_recv_update: Peer < <i>bgp name</i> > [(< <i>description</i> >)] UPDATE unreachable prefix length < <i>length</i> > too long	Error (remote device) The prefix length of unreachable routing information of the UPDATE message from the relevant peer exceeds 128 bits. [Explanation of message variables] <i><bgp name=""></bgp></i> : Source peer name <i><description></description></i> : Description name of the source peer <i><length></length></i> : Prefix length in received messages [Action] Check the unicast routing program (BGP4+) in the peer.
48	bgp4+_recv_update: Peer < <i>bgp name</i> > [(< <i>description</i> >)] UPDATE prefix length < <i>length1</i> > exceeds unreachable prefix data remaining (< <i>length2</i> > bytes)	Error (remote device) The prefix length of unreachable routing information of the UPDATE message received from the relevant peer exceeds the prefix data of unreachable routing information. [Explanation of message variables]

#	Message text	Description
49	bgp4+_recv_update: Peer < <i>bgp name</i> > [(< <i>description</i> >)] UPDATE zero attribute length followed by < <i>length</i> > bytes of garbage	Error (remote device)
		The attribute length of the UPDATE message from the relevant peer is 0 even though actual data exists. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <length>: Actual data length [Action] Check the unicast routing program (BGP4+) in the peer.</length></description></bgp>
50	bgp4+_recv_update: Peer < <i>bgp name</i> > [(< <i>description</i> >)] UPDATE path attribute length < <i>length1</i> > too large (< <i>length2</i> > bytes remaining)	Error (remote device)
		The path attribute length of the UPDATE message from the relevant peer is too long compared to the actual path attribute length. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <length1>: Path attribute length of the received message <length2>: Entity data length [Action] Check the unicast routing program (BGP4+) in the peer.</length2></length1></description></bgp>
51	bgp4+_recv_update:	Error (remote device)
	Peer <i>< bgp name></i> [(<i><description></description></i>)] UPDATE no next hop found	The next-hop attribute is not found in the UPDATE message from the relevant peer. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer [Action] Check the unicast routing program (BGP4+) in the peer.</description></bgp>
52	bgp4+_recv_update:	Error (remote device)
	External peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)] UPDATE included LOCALPREF attribute	The LOCALPREF attribute is included in the UPDATE message from the relevant external peer. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer [Action] Check the unicast routing program (BGP4+) in the peer.</description></bgp>
53	bgp4+_recv_update:	Error (remote device)
	Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)] UPDATE no LOCALPREF attribute found	The LOCALPREF attribute is not found in the UPDATE message from the relevant internal peer. [Explanation of message variables] <bgp name="">: Source peer number <description>: Description name of the source peer [Action] Check the unicast routing program (BGP4+) in the peer.</description></bgp>
54	bgp4+_recv_update: Peer < <i>bgp name</i> > [(< <i>description</i> >)] UPDATE has path attributes but no reachable prefixes!	Error (remote device)
		The UPDATE message from the relevant peer has path attributes but does not have the corresponding routing information. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer [Action] Check the unicast routing program (BGP4+) in the peer.</description></bgp>
#	Message text	Description
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55	55 bgp4+_recv_update: Peer <bgp name=""> [(<description>)] AS <as1> received path with first AS<<as2></as2></as1></description></bgp>	Error (remote device)
		The AS path whose next- hop AS number is <i><as2></as2></i> was received from the peer whose AS number is <i><as1></as1></i> . [Explanation of message variables] <i><bgp name=""></bgp></i> : Source peer name <i><description></description></i> : Description name of the source peer <i><as1></as1></i> : AS number of the source peer <i><as2></as2></i> : Next-hop AS number in the received message [Action] Check the unicast routing program (BGP4+) in the peer.
56	bgp4+_recv_update:	Warning (remote device)
	Ignores prefix from peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)] in RFC-1771's NLRI field	Routing information in a format that complies with RFC 1771 instead of RFC 2858 was ignored. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer [Action] Check the unicast routing program (BGP4+) in the peer.</description></bgp>
57	bgp4+_recv_reach:	Error (remote device)
Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)] UPDATE: Invalid length of MP_REACH_NLRI attribute(<i><length></length></i>): No address family	The length of the MP_REACH_NLRI attribute for the UPDATE message from the peer is invalid. No address family exists. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <length>: Received MP_REACH_NLRI attribute length [Action] Check the unicast routing program (BGP4+) in the peer.</length></description></bgp>	
58	bgp4+_recv_reach:	Error (remote device)
	Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)] UPDATE: Invalid length of MP_REACH_NLRI attribute(<i><length></length></i>): No nexthop length	The length of the MP_REACH_NLRI attribute for the UPDATE message from the peer is invalid. No next-hop length exists. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <length>: Received MP_REACH_NLRI attribute length [Action] Check the unicast routing program (BGP4+) in the peer.</length></description></bgp>
59	59 bgp4+_recv_reach: Peer < <i>bgp name</i> > [(< <i>description</i> >)] UPDATE: Invalid length of MP_REACH_NLRI attribute(< <i>length</i> >): No nexthop	Error (remote device)
		The length of the MP_REACH_NLRI attribute for the UPDATE message from the peer is invalid. No next hop exists. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <length>: Received MP_REACH_NLRI attribute length [Action] Check the unicast routing program (BGP4+) in the peer.</length></description></bgp>

#	Message text	Description
60	bgp4+_recv_reach: Peer < <i>bgp name</i> > [(< <i>description</i> >)] UPDATE: Invalid length of MP_REACH_NLRI attribute(< <i>length</i> >) : No reserved	Error (remote device) The length of the MP_REACH_NLRI attribute for the UPDATE message from the peer is invalid. No reserved field exists. [Explanation of message variables]
61	bgp4+_recv_reach: Peer < <i>bgp name</i> > [(< <i>description</i> >)] UPDATE: Invalid length of MP_REACH_NLRI attribute(< <i>length</i> >) : No snpa length	Error (remote device) The length of the MP_REACH_NLRI attribute for the UPDATE message from the peer is invalid. No SNPA length exists. [Explanation of message variables]
62	bgp4+_recv_reach: Peer < <i>bgp name</i> > [(< <i>description</i> >)] UPDATE: Invalid length of MP_REACH_NLRI attribute(< <i>length</i> >) : No snpa	Error (remote device) The length of the MP_REACH_NLRI attribute for the UPDATE message from the peer is invalid. No SNPA exists. [Explanation of message variables]
63	bgp4+_recv_reach: Peer < <i>bgp name</i> > [(< <i>description</i> >)] UPDATE multi-protocol prefix length < <i>length1</i> > exceeds prefix data remaining (< <i>length2</i> > bytes)	Error (remote device) The prefix length of the route of the UPDATE message from the relevant peer is too long compared to the remaining data. [Explanation of message variables]
64	bgp4+_recv_reach: Peer < <i>bgp name</i> > [(< <i>description</i> >)] UPDATE multi-protocol prefix length < <i>length</i> > too long	Error (remote device) The prefix length of the route of the UPDATE message from the relevant peer exceeds 128 bits. [Explanation of message variables]

#	Message text	Description
65	bgp4+_recv_reach:	Error (remote device)
	Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)] bad next hop address length <i><length></length></i>	The next-hop address length of the route from the relevant peer is invalid. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <length>: Next-hop address length [Action] Check the unicast routing program (BGP4+) in the peer.</length></description></bgp>
66	bgp4+_recv_reach:	Error (remote device)
67	Peer Peer box 2 profestion (description>)] next hop <ipv6 address=""> improper, ignoring routes in this update</ipv6>	The next-hop address of the route from the relevant peer is not in the same network. [Explanation of message variables]
67	67 bgp4+_recv_reach: Peer < <i>bgp name</i> > [(< <i>description</i> >)] unknown family/subfamily < <i>family</i> >/ < <i>subfamily</i> >	Error (remote device) Routing information other than IPv6 unicast was received from the relevant peer. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <family>: Address family <subfamily>: Sub address family [Action] Check the unicast routing program (BGP4+) in the peer.</subfamily></family></description></bgp>
68	58 bgp4+_recv_unreach: Peer <bgp name=""> [(<description>)] UPDATE: Invalid length of MP_UNREACH_NLRI attribute(<length>): No address family</length></description></bgp>	Error (remote device)
		The length of the MP_UNREACH_NLRI attribute for the UPDATE message received from the peer is invalid. No address family exists. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <length>: Received MP_UNREACH_NLRI attribute length [Action] Check the unicast routing program (BGP4+) in the peer.</length></description></bgp>
69	bgp4+_recv_unreach:	Error (remote device)
	UPDATE prefix length < <i>length</i> > exceeds unreachable multi-protocol prefix data remaining (<i><length< i="">> bytes)</length<></i>	The prefix length of unreachable routing information of the UPDATE message from the relevant peer exceeds the data length of remaining unreachable routing information. [Explanation of message variables] <i>bgp name></i> : Source peer name <i>description></i> : Description name of the source peer <i>length></i> : Next-hop address length [Action] Check the unicast routing program (BGP4+) in the peer.

#	Message text	Description
70	bgp4+_recv_unreach:	Error (remote device)
Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)] UPDATE unreachable multi-protocol prefix length <i><length></length></i> too long	The prefix length of unreachable routing information of the UPDATE message from the relevant peer exceeds 128 bits. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <length>: Prefix length in received messages [Action] Check the unicast routing program (BGP4+) in the peer.</length></description></bgp>	
71	bgp4+_recv_unreach:	Error (remote device)
	Peer subfamily/subfamily <family>/ <subfamily></subfamily></family>	Unreachable routing information other than IPv6 unicast was received from the relevant peer. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <family>: Address family <subfamily>: Sub address family [Action] Check the unicast routing program (BGP4+) in the peer.</subfamily></family></description></bgp>
72	bgp4+_peer_established:	Information (local or remote device)
	Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)] connection established	A BGP4+ connection was established with the relevant peer. [Explanation of message variables] <bgp name="">: Connection target peer name <description>: Description name of the connection target peer [Action] None.</description></bgp>
73	bgp4+_ifachange:	Information (local or remote device)
	Peer <i>< bgp name></i> [(<i><description></description></i>)]: Closed connection by changing interface state	A BGP4+ connection was closed due to a change in the interface state. [Explanation of message variables] <bgp name="">: Connection target peer name <description>: Description name of the connection target peer [Action] Check the cause of the change in the interface state.</description></bgp>
74	bgp4+_terminate:	Information (local device)
	Closed connection by terminating bgp4+	A BGP4+ connection was closed due to the termination of a BGP4+ task. [Explanation of message variables] <bgp name="">: Connection target peer name <description>: Description name of the connection target peer [Action] Check the cause of the termination of BGP4+ task.</description></bgp>
75	/5 bgp4+_peer_delete:	Information (local device)
	Closed connection by changing configuration	A BGP4+ connection was closed due to a change in the configuration (deletion of peer information). [Explanation of message variables] <bgp name="">: Connection target peer name <description>: Description name of the connection target peer [Action] None.</description></bgp>

#	Message text	Description
76	bgp4+_init: Peer < <i>bgp name</i> > [(< <i>description</i> >)]: Closed connection by changing configuration	Information (local device)
		A BGP4+ connection was closed due to a change in the configuration. [Explanation of message variables] <bgp name="">: Connection target peer name <description>: Description name of the connection target peer [Action] None.</description></bgp>
77	bgp4+_peer_clear:	Information (local device)
	Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)]: Closed connection by clearing peer	A BGP4+ connection was closed by entering the clear ipv6 bgp command. [Explanation of message variables] <bgp name="">: Connection target peer name <description>: Description name of the connection target peer [Action] None.</description></bgp>
78	bgp4+_pp_recv:	Error (remote device)
Peer <i><bgp name=""></bgp></i> in graceful-restart failed to retain stale routes, deleting a the stale routes from the peer	Peer <i>< bgp name></i> in graceful-restart failed to retain stale routes, deleting all the stale routes from the peer	A peer that executed a graceful restart failed to save the forwarding path. All the paths learned from the relevant peer will be deleted. [Explanation of message variables] <bgp name="">: Connection target peer name [Action] Check the unicast routing program (BGP4+) in the peer.</bgp>
79	bgp4+_recv_open:	Error (remote device)
	Peer <i><bgp name=""></bgp></i> in graceful-restart failed to retain stale routes, deleting all the stale routes from the peer	A peer that executed a graceful restart failed to save the forwarding path. All the paths learned from the relevant peer will be deleted. [Explanation of message variables] <bgp name="">: Connection target peer name [Action] Check the unicast routing program (BGP4+) in the peer.</bgp>
80	bgp4+_restart_ timeout:	Error (local or remote device)
	Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)]: Timed out waiting for reconnect.	A graceful restart failed. A connection to the peer router could not be established within the restart-time specified by the peer router. [Explanation of message variables] <i><bgp name=""></bgp></i> : Connection target peer name <i><description></description></i> : Description name of the connection target peer [Action] Check if a communication can be established with the peer router. Check if BGP4+ is running on the peer router. If the peer router is running, increase the restart-time value of the peer router so that the peer router can recover and establish a connection.
81	bgp4+_restart_timeout:	Error (remote device)
	Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)]: Timed out waiting for End-Of-RIB marker from restart router.	A graceful restart failed. End-Of-RIB could not be received from the peer router. [Explanation of message variables] <bgp name="">: Connection target peer name <description>: Description name of the connection target peer [Action] Check if BGP4+ is running on the relevant peer router. If it is running, increase the stalepath-time value.</description></bgp>

#	Message text	Description
82	82 bgp4+_peer_established:	Information (local or remote device)
Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)] connection established with graceful restart.	A BGP connection with the relevant peer was re-established. [Explanation of message variables] <bgp name="">: Connection target peer name <description>: Description name of the connection target peer [Action] None.</description></bgp>	
83	bgp4+_receive_End-Of-RIB:	Information (local device)
	End-Of-RIB marker received from <i><bgp name=""></bgp></i> [(<i><description></description></i>)].	End-Of-RIB was received. [Explanation of message variables] <i><bgp name=""></bgp></i> : Source peer name <i><description></description></i> : Description name of the source peer [Action] None.
84	84 bgp4+_send_End-Of-RIB:	Information (local device)
	End-Of-RIB marker sent to <i><bgp< i=""> <i>name</i>> [(<i><description< i="">>)].</description<></i></bgp<></i>	End-Of-RIB was sent. [Explanation of message variables] <i><bgp name=""></bgp></i> : Target peer name <i><description></description></i> : Description name of the destination peer [Action] None.
85	BGP4+:	Warning (remote device)
	NOTIFICATION sent to <bgp name=""> [(<description>)]: code <code> (<code string="">) [subcode <subcode> (<subcode string>)] [value <value>] [data <data>]</data></value></subcode </subcode></code></code></description></bgp>	A NOTIFICATION message was sent to the relevant peer. [Explanation of message variables] <bgp name="">: Target peer name <description>: Description name of the destination peer <code> (<code string="">), <subcode> (<subcode string="">): The following error codes and subcodes:</subcode></subcode></code></code></description></bgp>

#	Message text	Description
		 Error code 1 (Message Header Error) Error subcode 1 (lost connection synchronization) Error subcode 2 (bad length) Error subcode 3 (bad message type) Error subcode 1 (unsupported version) Error subcode 1 (unsupported version) Error subcode 2 (bad AS number) Error subcode 3 (bad BGP ID) Error subcode 4 (unsupported version) Error subcode 3 (bad BGP ID) Error subcode 4 (unsupported optional parameter) Error subcode 6 (unacceptable holdtime) Error subcode 1 (invalid attribute list) Error subcode 2 (unknown well known attribute) Error subcode 3 (missing well known attribute) Error subcode 4 (attribute flags error) Error subcode 4 (bad attribute length) Error subcode 5 (bad attribute length) Error subcode 6 (bad ORIGIN attribute) Error subcode 10 (bad address or prefix field) Error code 3 (Finite State Machine Error) Error code 4 (Hold Timer Expired Error) Error code 5 (Finite State Machine Error) Error code 6 (Cease) If the <code> value is invalid, invalid is displayed for <code string="">.</code></code> Information in the data field of the Notification message is displayed for <value> or <data>.</data></value> value>: Decimal representation (Action] Check the network configuration and peer configuration. If there is no problem with them, check the unicast routing program (BGP4+) in the peer.
86	BGP4+:	Warning (local device)
	NOTIFICATION received from <i><bgp< i=""> name> [(<i><description></description></i>)]: code <i><code></code></i> (<i><code string=""></code></i>) [subcode <i><subcode></subcode></i> (<i><subcode< i=""> <i>string></i>)] [value <i><value></value></i>] [data <i><data></data></i>]</subcode<></i></bgp<></i>	A NOTIFICATION message was received from the relevant peer. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <code> (<code string="">), <subcode> (<subcode string="">): The following error codes and subcodes:</subcode></subcode></code></code></description></bgp>

#	Message text	Description
		 Error code 1 (Message Header Error) Error subcode 1 (lost connection synchronization) Error subcode 2 (bad length) Error subcode 3 (bad message type) Error subcode 3 (bad message Error) Error subcode 1 (unsupported version) Error subcode 1 (unsupported version) Error subcode 2 (bad AS number) Error subcode 3 (bad BGP ID) Error subcode 4 (unsupported optional parameter) Error subcode 4 (unsupported capability) Error subcode 7 (unsupported capability) Error subcode 1 (invalid attribute list) Error subcode 1 (invalid attribute list) Error subcode 2 (unknown well known attribute) Error subcode 3 (missing well known attribute) Error subcode 5 (bad attribute length) Error subcode 6 (bad ORIGIN attribute) Error subcode 7 (AS loop detected) Error subcode 9 (error with optional attribute) Error subcode 9 (error with optional attribute) Error subcode 11 (AS path attribute problem) Error subcode 10 (bad address or prefix field) Error subcode 11 (AS path attribute problem) Error code 6 (Cease) If the <code> value is invalid, invalid is displayed for <code string="">.</code></code> Information in the data field of the Notification message is displayed for <alaxies subcode=""> value is invalid, unknown is displayed for <alaxies subcode=""> or <alaxies a="" subcode<="">) or <alaxies string="" subcode="">.</alaxies></alaxies></alaxies></alaxies> Information in the data field of the Notification message is displayed for <alaxies subcode=""> or <alaxies li="" subcode<=""> Eror co</alaxies></alaxies>
87	BGP4+:	Warning (remote device)
	No MD5 digest from <i><source< i=""> <i>ipv6>+<port no.=""></port></i> to <i><destination< i=""> <i>ipv6>+<port no.=""></port></i> [(VRF <i><vrf id=""></vrf></i>)]</destination<></i></source<></i>	 The MD5 authentication option is not set for the TCP segment received by BGP4+ connection. This operation message is output according to the following conditions: The messages from the first to the 16th event are output. After 17 times from the beginning of the event occurrence, this message is output once every 256 times the event occurs. If an event occurs 3 minutes or more after the last event occurred, this message is output when 1 or 2 above occurs. Note that the above number of messages includes the count of BGP4+: Invalid MD5 digest from <source ipv6=""/> + <port no.=""> to <destination ipv6=""> + <port no.="">.</port></destination></port>

#	Message text	Description
		<pre>[Explanation of message variables] <source ipv6=""/>: Source IPv6 address <port no.="">: TCP port number <destination ipv6="">: Destination IPv6 address <vrf id="">: VRF ID [Action] Check whether the MD authentication is set in BGP4+ of the remote system. If it is not set, set the MD authentication so that it matches. If the setting matches, check whether TCP segments are sent from a peer other than the source BGP4+ peer.</vrf></destination></port></pre>
88	BGP4+:	Warning (local device or remote device)
	Invalid MD5 digest from <i><source< i=""> <i>ipv6>+<port no.=""></port></i> to <i><destination< i=""> <i>ipv6>+<port no.=""></port></i> [(VRF <i><vrf id=""></vrf></i>)]</destination<></i></source<></i>	 The MD5 authentication option for TCP segments received by BGP4+ connection is invalid. This operation message is output according to the following conditions: The messages from the first to the 16th event are output. After 17 times from the beginning of the event occurrence, this message is output once every 256 times the event occurs. If an event occurs 3 minutes or more after the last event occurred, this message is output when 1 or 2 above occurs. Note that the above number of messages includes the count of BGP4+: MD5 digest from <source ipv6=""/> + <port no.=""> to <destination ipv6=""> + <port no.=""> to <destination ipv6="">: Destination IPv6 address</destination></port></destination></port> <port no.="">: TCP port number </port> <i>vrf id</i>>: VRF ID [Action] Check if the MD5 authentication keys match in BGP4+ of the local and remote systems. If the MD5 authentication keys match, check if TCP segments are sent from a peer other than the source BGP4+ peer.
89	BGP4+:	Warning (remote device)
	Number of prefix received from <i><bgp< i=""> <i>name</i>> [(<i><description< i="">>)]: reached <i><routes1< i="">>, limit <i><routes2< i="">></routes2<></i></routes1<></i></description<></i></bgp<></i>	The number of paths (active paths and inactive paths) learned from the relevant peer exceeded the threshold. [Explanation of message variables] <bgp name="">: Source peer name <description>: Description name of the source peer <routes1>: Number of paths learned from peers <routes2>: Maximum number of paths learned from peers [Action] If the number of paths learned from the peer further increases, check the number of the paths advertised by the peer.</routes2></routes1></description></bgp>
90	BGP4+:	Warning (remote device)

#	Message text	Description
	Number of prefix received from <i><bgp< i=""> <i>name></i> [(<i><description></description></i>)]: <i><routes1></routes1></i> exceed limit <i><routes2></routes2></i></bgp<></i>	The number of paths (active paths and inactive paths) learned from the relevant peer exceeded the maximum value. [Explanation of message variables]
91	BGP4+:	Information (remote device)
	Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)]: Closed connection by maximum-prefix	BGP4+ connection was closed due to the limitation of the number of learned paths. [Explanation of message variables] <bgp name="">: Connection target peer name <description>: Description name of the connection target peer [Action] Check the number of the paths advertised by the relevant peer. To reconnect the peer, make sure that the number of paths advertised by the peer is equal to or less than the maximum value, and then enter the clear ipv6 bgp command.</description></bgp>
92	BGP4+:	Warning (remote device)
	Peer <i><bgp name=""></bgp></i> [(<i><description></description></i>)] UPDATE included attribute type code (0) [- AS Path (<i><as number=""></as></i>): <i><aspath></aspath></i>]	 An UPDATE message including the path attribute of type code 0 was received from the relevant peer. This operation message is not output again on the same peer for an hour after the previous output. [Explanation of message variables] <i>bgp name</i>>: Source peer name <i>description</i>>: Description name of the source peer <i>as number</i>>: Number of AS numbers <i>aspath</i>>: AS paths, in the following format: <i>AS sequential number</i>: AS_SEQ {<i>AS sequential number</i>}: AS_SET (<i>AS sequential number</i>): AS_CONFED_SEQUENCE Note that, the entire AS path might not be output because there is a limit to the number of characters that can be output in an operation message. [Action] Check the unicast routing program (BGP4+) in the peer.

2.2.4 Event information common to the IPv6 unicast routing protocols

The following table describes the event information common to IPv6 unicast routing protocols (RTM).

#	Message text	Description
1	*** Give up gdump. Because of no	Warning (local device)
	enougn memory.	Dump collection was stopped because the remaining memory capacity of the system temporarily fell below the preset value while unicast routing program control information dumps were being collected by the dump protocols unicast command. [Explanation of message variables] None. [Action] There is not enough memory to execute the command. Review the capacity limit.
2	The number of IPv6 unicast routes on	Warning (local device)
	giobal network exceeded the mint.	 The number of IPv6 unicast routes on the global network has exceeded the maximum. [Explanation of message variables] None. [Action] 1. Delete unnecessary routes. 2. Review the maximum number of routes that was specified in the configuration.
3	The number of IPv6 unicast routes on	Warning (local device)
	VKF <i>VIJ u</i> / exceeded the mint.	 The number of IPv6 unicast routes on VRF <<i>vrf id></i> has exceeded the maximum. [Explanation of message variables] <<i>vrf id></i>: VRF ID [Action] 1. Delete unnecessary routes. 2. Review the maximum number of routes that was specified in the configuration.
4	The number of IPv6 unicast routes on	Information (local device)
	threshold.	The number of IPv6 unicast routes on the global network has exceeded the warning threshold value. [Explanation of message variables] None. [Action] When adding routes, make sure that the number of added routes does not exceed the maximum.
5	The number of IPv6 unicast routes on	Information (local device)
	threshold.	The number of IPv6 unicast routes on VRF <i><vrf id=""></vrf></i> has exceeded the warning threshold value. [Explanation of message variables] <i><vrf id=""></vrf></i> : VRF ID [Action] When adding routes, make sure that the number of added routes does not exceed the maximum.

Table 2-8: IPv6 event information common to unicast routing protocols

2.3 IPv6 routing information (RTM)

2.3.1 RA

The following table describes the event information for IPv6 routing information (RTM).

Table 2-9: IPv6 routing (RA) event information

#	Message text	Description
1	rs_input: Cannot locate interface for RS from <i><address1></address1></i> to <i><address2></address2></i>	Error (local device)
		The router solicitation was ignored because an interface corresponding to the received router solicitation is not found. [Explanation of message variables] < <i>address1></i> : Router solicitation sender address < <i>address2></i> : Router solicitation destination address [Action] If this error frequently occurs, check the status of the interface.
2	2 rs_input:	Error (remote device)
	ND option check failed for an RS from <i><address></address></i> on <i><interface name=""></interface></i>	The router solicitation was ignored because the ND option check for the router solicitation from the relevant address failed. [Explanation of message variables] < <i>address</i> >: Router solicitation sender address < <i>interface name</i> >: Name of interface for receiving router solicitation [Action] Check the router solicitation setting in the router solicitation sender terminal.
3	3 rs_input:	Error (remote device)
RS from unspecified src on <i><interface< i=""> name> has a link-layer address option</interface<></i>	The router solicitation was ignored because the link-layer address option has been set for router solicitation from unspecified address (::). [Explanation of message variables] <i><interface name=""></interface></i> : Name of interface for receiving router solicitation [Action] Check the router solicitation setting in the router solicitation sender terminal.	
4	rs_input:	Warning (local device)
	RS received on non advertising interface(<i><interface name=""></interface></i>)	The router solicitation was ignored because the router solicitation was received by the interface that does not advertise routers. [Explanation of message variables] < <i>interface name</i> >: Name of interface for receiving router solicitation [Action] If it is necessary to respond to the router solicitation, enable router advertisement in the interface.
5	rs_input: RS with invalid hop limit (<i><hop< i=""> <i>limit></i>) received from <i><address></address></i> on <i><interface name=""></interface></i></hop<></i>	Error
		The router solicitation was ignored because the hop limit of the received router solicitation packet is not the correct value (255). [Explanation of message variables] <hop limit="">: Hop limit value of the received router solicitation message <address>: Router solicitation sender address <interface name="">: Name of interface for receiving router solicitation [Action] Check the settings of the terminal that sends a router request.</interface></address></hop>

#	Message text	Description
6	rs_input:	Error
	RS with invalid ICMP6 code(<i><code></code></i>) received from <i><address></address></i> on <i><interface name=""></interface></i>	The router solicitation was ignored because the ICMP6 code of the received router solicitation packet is not the correct value (0). [Explanation of message variables] < <i>code</i> >: ICMP6 code value of the received router solicitation message < <i>address</i> >: Router solicitation sender address < <i>interface name</i> >: Name of interface for receiving router solicitation [Action] Check the settings of the terminal that sends a router request.
7	rs_input:	Error
	RS from <i><address></address></i> on <i><interface< i=""> <i>name></i> does not have enough length (len = <i><length></length></i>)</interface<></i>	The router solicitation was ignored because the received router solicitation packet is short. [Explanation of message variables] < <i>address</i> >: Router solicitation sender address < <i>interface name</i> >: Name of interface for receiving router solicitation < <i>length</i> >: Received router solicitation packet length [Action] Check the settings of the terminal that sends a router request.
8	ra_nd6_options:	Error (remote device)
	<pre>ctype>)</pre>	The length of the ND option is invalid. [Explanation of message variables] <type>: Received ND option type number [Action] Take action to correct the rs_input and ra_input errors that were output together.</type>
9	ra_output:	Error (local device)
	Cannot send RA for I/F <i><interface< i=""> <i>name></i> (lack of active linklocal addr)</interface<></i>	Router advertisements cannot be sent because there is no valid link-local address in the relevant interface. [Explanation of message variables] <i><interface name=""></interface></i> : Name of interface for sending router advertisements [Action] If this error frequently occurs, check the status of the interface.
10	ra_output:	Error (local device)
	cannot send KA for I/F <i><interface< i=""> name></interface<></i>	Router advertisements cannot be sent from the relevant interface. [Explanation of message variables] < <i>interface name</i> >: Name of interface for sending router advertisements [Action] If this error frequently occurs, check the status of the interface.
11	ra_output:	Warning (local device)
	not send RA for I/F <i><interface name=""></interface></i> (linkmtu <i><value own=""></value></i> is greater than the physical interface MTU <i><phymtu></phymtu></i>)	Router advertisements are not output because the specified value exceeds the MTU length of the relevant interface. [Explanation of message variables] < <i>interface name</i> >: Name of interface for sending router advertisements < <i>value own</i> >: MTU option value of the local system < <i>phymtu</i> >: Physical MTU length of the interface [Action] Check the settings of the router that sends router advertisements.

2.4 IPv4 multicast routing information (MRP)

2.4.1 PIM-SM

The following table describes the event information for IPv4 routing information (MRP).

Table	2-10:	IPv4 multicast	routing	(PIM-SM)	event information
10000	_ 1 0.	II , I IIIaitioust	roating	(1 11)1 0101	

#	Message text	Description
1	IGMP:	Error (remote device)
bytes) for IP header [on VRF < <i>vrf id</i> >]	A packet smaller than the IP header was received. [Explanation of message variables] <length>: Received packet size <vrf id="">: VRF ID [Action] A remote device is sending an invalid packet. Check the IPv4 multi-cast communication program of the partner device.</vrf></length>	
2	IGMP:	Error (remote device)
	received packet (<i><length1< i="">> bytes) from <i><source address<="" i=""/>> shorter than header + data length (<i><length2< i="">> + <i><length3< i="">> bytes) [on VRF <i><vrf i="" id<="">>]</vrf></i></length3<></i></length2<></i></i></length1<></i>	A packet smaller than the data length specified in the IP header was received. [Explanation of message variables] < <i>length1</i> >: Received packet size < <i>source address</i> >: Source IPv4 address < <i>length2</i> >: Received IP header size < <i>length3</i> >: Received IP packet data size < <i>vrf id</i> >: VRF ID [Action] A remote device is sending an invalid packet. Check the IPv4 multi-cast communication program of the partner device.
3	IGMP:	Error (remote device)
	received IP data field too short (< <i>length</i> > bytes) for IGMP header, from < <i>source address</i> > to < <i>destination</i> <i>address</i> > [on VRF < <i>vrf id</i> >]	A packet smaller than an IGMP header length (8) was received. [Explanation of message variables] <length>: Received IP packet data size <source address=""/>: Source IPv4 address <destination address="">: Destination IPv4 address <vrf id="">: VRF ID [Action] A remote device is sending an invalid packet. Check the IPv4 multi-cast communication program of the partner device.</vrf></destination></length>
4	IGMP:	Error (remote device)
	to <destination address=""> [on VRF <vrf id>] - invalid igmp header checksum (data '<data>', length '<length>')</length></data></vrf </destination>	A received IGMP packet was ignored because of an IGMP header checksum error. [Explanation of message variables] <source address=""/> : Source IPv4 address <destination address="">: Destination IPv4 address <vrf id="">: VRF ID <data>: Contents of the first byte (packet type) of IGMP received data <length>: IGMP received data length [Action] A remote device is sending an invalid packet. Check the IPv4 multi-cast communication program of the partner device.</length></data></vrf></destination>

#	Message text	Description
5	IGMP:	Error (remote device)
	ignoring <i><pre>packet></pre></i> from <i><source< i=""> address> to <i><destination address=""></destination></i> [on VRF <i><vrf id=""></vrf></i>] - invalid group address '<i><group address=""></group></i>'</source<></i>	A received IGMP packet was ignored because the group address in the packet was invalid. [Explanation of message variables] <packet>: Packet type • Group Membership Report, Group Leave Report <source address=""/>: Source IPv4 address <destination address="">: Destination IPv4 address <vrf id="">: VRF ID <group address="">: Received group address [Action] A remote device is sending an invalid packet. Check the IPv4 multi-cast communication program of the partner device.</group></vrf></destination></packet>
6	IGMP:	Event (local device)
	Querier was changed on interface < <i>interface name></i> [of VRF < <i>vrf id></i>] - new querier < <i>querier ip address></i> (was < <i>old querier ip address></i>)	The querier router changed on the interface. [Explanation of message variables] < <i>interface name</i> >: Interface name < <i>vrf id</i> >: VRF ID < <i>querier ip address</i> >: Querier IPv4 address < <i>old querier ip address</i> >: Previous querier IPv4 address [Action] None.
7	PIM:	Error (remote device)
	received packet too short (<i><length></length></i> bytes) for IP header [on VRF <i><vrf id=""></vrf></i>]	A packet smaller than the IP header was received. [Explanation of message variables] <length>: Received packet size <vrf id="">: VRF ID [Action] A remote device is sending an invalid packet. Check the IPv4 multicast routing program (PIM-SM) of the remote device.</vrf></length>
8	PIM:	Error (remote device)
	received packet (<i><length1< i=""> > bytes) from <i><source address<="" i=""/> > shorter than header + data length (<i><length2< i=""> > + <i><length3< i=""> > bytes) [on VRF <i><vrf i="" id<="">>]</vrf></i></length3<></i></length2<></i></i></length1<></i>	A packet smaller than the data length specified in the IP header was received. [Explanation of message variables] < <i>length1</i> >: Received packet size < <i>source address</i> >: Source IPv4 address < <i>length2</i> >: Received IP header size < <i>length3</i> >: Received IP packet data size < <i>vrf id</i> >: VRF ID [Action] A remote device is sending an invalid packet. Check the IPv4 multicast routing program (PIM-SM) of the remote device.

#	Message text	Description
9	9 PIM:	Error (remote device)
	received IP data field too short (< <i>length</i> > bytes) for PIM header, from < <i>source address</i> > to < <i>destination</i> address> [on VRF < <i>vrf id</i> >]	A packet smaller than the PIM header length (4) was received. [Explanation of message variables] <length>: Received IP packet data size <source address=""/>: Source IPv4 address <destination address="">: Destination IPv4 address <vrf id="">: VRF ID [Action] A remote device is sending an invalid packet. Check the IPv4 multicast routing program (PIM-SM) of the remote device.</vrf></destination></length>
10	PIM:	Error (remote device)
	ignoring packet from <i><source address=""/></i> to <i><destination address=""></destination></i> [on VRF <i><vrf< i=""> <i>id></i>] - invalid pim header checksum (data '<i><data></data></i>', length '<i><length></length></i>')</vrf<></i>	A received PIM packet was ignored because of a PIM header checksum error. [Explanation of message variables] <source address=""/> : Source IPv4 address <destination address="">: Destination IPv4 address <vrf id="">: VRF ID <data>: Contents of the first byte (packet type) of PIM received data <length>: PIM received data length [Action] A remote device is sending an invalid packet. Check the IPv4 multicast routing program (PIM-SM) of the remote device.</length></data></vrf></destination>
11	PIM:	Error (remote device)
	<i>source address</i> > to <i><destination< i=""> <i>address</i>> [on VRF <i><vrf i="" id<="">>] - packet too short (<i><length></length></i> bytes)</vrf></i></destination<></i>	A received PIM packet was ignored because the packet size was smaller than the minimum packet length. [Explanation of message variables] <packet>: Packet type • Register, Register-Stop, Join/Prune, Assert, Bootstrap, Candidate-RP-Advertisement <source address=""/>: Source IPv4 address <destination address="">: Destination IPv4 address <destination address="">: Destination IPv4 address <vrf id="">: VRF ID <length>: PIM received data length [Action] A remote device is sending an invalid packet. Check the IPv4 multicast routing program (PIM-SM) of the remote device.</length></vrf></destination></destination></packet>

#	Message text	Description
12	PIM:	Error (remote device)
	ignoring <i><packet></packet></i> message from <i><source address=""/></i> to <i><destination< i=""> <i>address></i> [on VRF <i><vrfid></vrfid></i>] - invalid encoded unicast address (<i><cause></cause></i>)</destination<></i>	<pre>A received PIM packet was ignored because the encoding unicast address in the packet was invalid. [Explanation of message variables] <packet>: Packet type • Register-Stop, Join/Prune, Assert, Bootstrap, Candidate-RP-Advertisement <source address=""/>: Source IPv4 address <destination address="">: Destination IPv4 address <destination :="" address="" address<br="" destination="" ipv4=""><ducess '<value="" family="">': The address family <value> is invalid (other than 1). • encoding type '<value>': The encoding type <value> is invalid (other than 0). • source address '<address>': The source IPv4 address <address> is invalid. • upstream neighbor address '<address> ': The upstream neighbor IPv4 address <address> is invalid. • BSR address '<address> ': The BSR address <address> is invalid. • RP address '<address> ': The rendezvous point address <address> is invalid. [Action] A remote device is sending an invalid packet. Check the IPv4 multicast routing program (PIM-SM) of the remote device.</address></address></address></address></address></address></address></address></value></value></value></ducess></destination></destination></destination></destination></destination></destination></destination></packet></pre>
13	PIM: ignoring < <i>packet</i> > message from	Error (remote device)
	<pre><source address=""/> to <destination address=""> [on VRF <vrf id="">] - invalid encoded source address (<cause>)</cause></vrf></destination></pre>	 A received PIM packet was ignored because the encoding sender IPv4 address in the packet was invalid. [Explanation of message variables] <i>cpacket</i>>: Packet type Join/Prune <i>source address</i>>: Source IPv4 address <i>cdestination address</i>>: Destination IPv4 address <i>vrf id</i>>: VRF ID <i>cause</i>>: Detailed cause address family '<i>value</i>': The address family <i>value</i> is invalid (other than 1). encoding type '<i>value</i>': The encoding type <i>value</i> is invalid (other than 0). [Action] A remote device is sending an invalid packet. Check the IPv4 multicast routing program (PIM-SM) of the remote device.

#	Message text	Description
14	PIM:	Error (remote device)
	ignoring <i><packet></packet></i> message from <i><source address=""/></i> to <i><destination< i=""> <i>address></i> [on VRF <i><vrf id=""></vrf></i>] - invalid encoded group address (<i><cause></cause></i>)</destination<></i>	<pre>A received PIM packet was ignored because the encoding group address in the packet was invalid. [Explanation of message variables] <packet>: Packet type • Register-Stop, Join/Prune, Assert, Bootstrap, Candidate-RP-Advertisement <source address=""/>: Source IPv4 address <destination address="">: Destination IPv4 address <destination '<value="" address="" family="">': The address family <value> is invalid (other than 1). • encoding type '<value>': The encoding type <value> is invalid (other than 0). • mask length '<value>': The group mask length <value> is invalid (not in the range from 4 to 32). • group address '<address>': The group address <address> is invalid. [Action] A remote device is sending an invalid packet. Check the IPv4 multicast routing program (PIM-SM) of the remote device.</address></address></value></value></value></value></value></destination></destination></destination></destination></destination></destination></destination></destination></destination></packet></pre>
15	PIM:	Error (remote device)
	Ignoring Hello message from <i><source< i=""> address> [on VRF <i><vrf id=""></vrf></i>] - invalid holdtime option length (<i><length></length></i>)</source<></i>	A received PIM packet was ignored because the length of the holdtime option in the Hello packet was invalid (other than 2). [Explanation of message variables] <source address=""/> : Source IPv4 address <vrf id="">: VRF ID <length>: Received holdtime option length [Action] A remote device is sending an invalid packet. Check the IPv4 multicast routing program (PIM-SM) of the remote device.</length></vrf>
16	PIM:	Error (remote device)
	address> [on VRF <vrf id="">] - no holdtime option</vrf>	A received PIM packet was ignored because the holdtime option was not included in the Hello packet. [Explanation of message variables] <source address=""/> : Source IPv4 address <vrf id="">: VRF ID [Action] A remote device is sending an invalid packet. Check the IPv4 multicast routing program (PIM-SM) of the remote device.</vrf>

#	Message text	Description
17	17 PIM:	Error (remote device)
	ignoring Register message from <source address=""/> to <destination address> [on VRF <vrf id="">] - invalid inner source address '<inner source<br="">address>'</inner></vrf></destination 	A received PIM packet was ignored because the source IPv4 address of IP packets encapsulated by the Register packet was invalid. [Explanation of message variables] <source address=""/> : Source IPv4 address <destination address="">: Destination IPv4 address <vrf id="">: VRF ID <inner address="" source="">: Encapsulated source IPv4 address [Action] The source multi-cast data is sending invalid packets. Check the IPv4 multi-cast communication program sent from the source multi-cast data.</inner></vrf></destination>
18	PIM:	Error (remote device)
	ignoring Register message from <source address=""/> to <destination address> [on VRF <vrf id="">] - invalid inner group address '<inner group<br="">address>'</inner></vrf></destination 	A received PIM packet was ignored because the group address of IP packets encapsulated by the Register packet was invalid. [Explanation of message variables] <source address=""/> : Source IPv4 address <destination address="">: Destination IPv4 address <vrf id="">: VRF ID <inner address="" group="">: Encapsulated group address [Action] The source multi-cast data is sending invalid packets. Check the IPv4 multi-cast communication program sent from the source multi-cast data. If the encapsulated group address is in the range from PIM to SSM, check the PIM-SSM setting of the remote device.</inner></vrf></destination>
19	PIM:	Error (remote device)
	Ignoring Bootstrap message from <i><source address=""/></i> to <i><destination< i=""> <i>address></i> [on VRF <i><vrf id=""></vrf></i>] - invalid hash mask length '<i><value></value></i>'</destination<></i>	A received PIM packet was ignored because the hash mask length in the Bootstrap packet was invalid (33 or more). [Explanation of message variables] <source address=""/> : Source IPv4 address <destination address="">: Destination IPv4 address <vrf id="">: VRF ID <value>: Hash mask length specified for the received packet [Action] A remote device is sending an invalid packet. Check the IPv4 multicast routing program (PIM-SM) of the remote device.</value></vrf></destination>
20	20 PIM:	Warning (remote device)
	<pre>soc miormation was changed [on VRF <vrf id="">] - lost BSR information</vrf></pre>	BSR information was cleared because advertisements from the Bootstrap router were lost. [Explanation of message variables] < <i>vrf id</i> >: VRF ID [Action] Check the reason why advertisements from the Bootstrap router were lost.

#	Message text	Description
21	PIM:	Event (local device)
	SSR information was changed [on VRF < <i>vrf id</i> >] - new BSR address < <i>ip</i> address>	BSR address was changed. [Explanation of message variables] < <i>vrf id</i> >: VRF ID < <i>ip address</i> >: BSR address If the BSR address is the Switch, (this system) is displayed after the IPv4 address. [Action] None.

2.5 IPv6 multicast routing information (MR6)

2.5.1 IPv6 PIM-SM

The following table describes the event information for IPv6 routing information (MR6).

Table 2-11: IPv6 multicast routing (PIM-SM) event information

#	Message text	Description
1	MLD:	Error (remote device)
	Ignoring <i><pre>packet></pre></i> from <i><source< i=""> address> [on VRF <i><vrf id=""></vrf></i>] - invalid scope <i><group address=""></group></i></source<></i>	MLD packets were ignored because the scope of group addresses included in the packets were invalid (node local or link local). [Explanation of message variables] <packet>: Packet type • Multicast Listener Query, Multicast Listener Report, Multicast Listener Done, MLDv2 Multicast Listener Report <source address=""/>: Source IPv6 address <vrf id="">: VRF ID <group address="">: MLD group address [Action] A remote device is sending an invalid packet. Check the IPv6 multi-cast communication program of the partner device.</group></vrf></packet>
2	MLD:	Error (remote device)
	address> [on VRF < <i>vrfid</i> >] - message received from a non linklocal address	 MLD packets that have non-link-local addresses in the source were ignored. [Explanation of message variables] <i>cpacket</i>>: Packet type Multicast Listener Query <i>source address</i>>: Source IPv6 address <i>vrf id</i>>: VRF ID [Action] A remote device is sending an invalid packet. Check the IPv6 multi-cast communication program of the partner device.
3	MLD: Overier was shonged on interface	Event (local device)
	<pre><urr><interface name=""> [of VRF <vrfid>] -</vrfid></interface></urr></pre> new querier <querier address="" ipv6=""> (was <old address="" ipv6="" querier="">)</old></querier>	 The querier router changed on the interface. [Explanation of message variables] <interface name="">: Interface name</interface> <vrf id="">: VRF ID</vrf> <querier address="" ipv6="">: Querier IPv6 address</querier> If the querier IPv6 address is the Switch, (this system) is displayed. <old address="" ipv6="" querier="">: Previous querier IPv6 address</old> If the previous querier IPv6 address is the Switch, (this system) is displayed. [Action] None.

#	Message text	Description
4	PIM:	Error (remote device)
	Ignoring <i><packet< i=""> > message from <i><source address<="" i=""/>> [on VRF <i><vrf i="" id<="">>] - packet too short (<i><length< i="">> bytes)</length<></i></vrf></i></i></packet<></i>	<pre>A received PIM packet was ignored because the packet size was smaller than the minimum packet length. [Explanation of message variables] <packet>: Packet type • Hello, Register, Register-Stop, Join/Prune, Assert, Bootstrap, Candidate-RP-Advertisement <source address=""/>: Source IPv6 address <vrf id="">: VRF ID <length>: PIM received data length [Action] A remote device is sending an invalid packet. Check the IPv6 multicast routing program (IPv6 PIM-SM) of the remote device.</length></vrf></packet></pre>
5	PIM: ignoring <packet> message from <source address=""/> [on VRF <vrf id="">] -</vrf></packet>	Error (remote device) A received PIM packet was ignored because the encoding unicast
	invalid encoded unicast address (< <i>cause</i> >)	address in the packet was invalid. [Explanation of message variables]
		 Hello, Register-Stop, Join/Prune, Assert, Bootstrap, Candidate-RP-Advertisement <source address=""/>: Source IPv6 address <vrfid>: VRF ID</vrfid>
		 <cause>: Detailed cause</cause> address family '<value>': The address family <value> is invalid (other than 2).</value></value>
		 encoding type '<value>': The encoding type <value> is invalid (other than 0).</value></value> source address '<address>': The source address <address> is</address></address>
		 invalid. upstream neighbor address '<address>': The upstream neighbor address > is invalid.</address>
		• BSR address ' <address>': The BSR address <address> is invalid.</address></address>
		 RP address '<address>': The rendezvous point address</address> <address> is invalid.</address> [Action]
		A remote device is sending an invalid packet. Check the IPv6 multicast routing program (IPv6 PIM-SM) of the remote device.
6	PIM:	Error (remote device)
	Ignoring <i><packet></packet></i> message from <i><source address=""/></i> [on VRF <i><vrf id=""></vrf></i>] - invalid encoded source address (<i><cause></cause></i>)	 A received PIM packet was ignored because the encoding source address was invalid. [Explanation of message variables] <packet>: Packet type</packet> Join/Prune <source address=""/>: Source IPv6 address <vrf id="">: VRF ID</vrf> <cause>: Detailed cause</cause> address family '<value>': The address family <value> is invalid (other than 2).</value></value> encoding type '<value>': The encoding type <value> is invalid (other than 0).</value></value> [Action] A remote device is sending an invalid packet. Check the IPv6 multicast routing program (IPv6 PIM-SM) of the remote device.

#	Message text	Description
7	PIM:	Error (remote device)
	ignoring <i><packet></packet></i> message from <i><source address=""/></i> [on VRF <i><vrf id=""></vrf></i>] - invalid encoded group address (<i><cause></cause></i>)	<pre>A received PIM packet was ignored because the encoding group address in the packet was invalid. [Explanation of message variables] <pre><pre><pre><pre>cpacket>: Packet type • Register-Stop, Join/Prune, Assert, Bootstrap, Candidate-RP-Advertisement <source address=""/>: Source IPv6 address <vrf id="">: VRF ID <ccause>: Detailed cause • address family '<value>': The address family <value> is invalid (other than 2). • encoding type '<value>': The encoding type <value> is invalid (other than 0). • mask length '<value>': The group mask length <value> is invalid (not in the range from 8 to 128). • group address '<address>': The group address <address> is invalid. [Action] A remote device is sending an invalid packet.</address></address></value></value></value></value></value></value></ccause></vrf></pre></pre></pre></pre></pre>
8	PIM: ignoring Hello message from <i><source< i=""> <i>address></i> [on VRF <i><vrf id=""></vrf></i>] - invalid holdtime option length (<i><length></length></i>)</source<></i>	Check the IPv6 multicast routing program (IPv6 PIM-SM) of the remote device. Error (remote device) A received PIM packet was ignored because the length of the holdtime option in the Hello packet was invalid (other than 2). [Explanation of message variables] <source address=""/> : Source IPv6 address <vrf id="">: VRF ID <length>: Received holdtime option length [Action] A remote device is sending an invalid packet. Check the IPv6 multicast routing program (IPv6 PIM-SM) of the remote device.</length></vrf>
9	PIM: ignoring Hello message from < source	Error (remote device)
	address> [on VRF <vrf id="">] - no holdtime option</vrf>	A received PIM packet was ignored because the holdtime option was not included in the Hello packet. [Explanation of message variables] <source address=""/> : Source IPv6 address <vrf id="">: VRF ID [Action] A remote device is sending an invalid packet. Check the IPv6 multicast routing program (IPv6 PIM-SM) of the remote device.</vrf>
10	PIM: ignoring Register message from <source address=""/> [on VRF <vrf id="">] - invalid inner source address '<inner source address>'</inner </vrf>	Error (remote device) A received PIM packet was ignored because the source address of IPv6 packets encapsulated by the Register packet was invalid. [Explanation of message variables] <source address=""/> : Source IPv6 address <vrf id="">: VRF ID <inner address="" source="">: Encapsulated source address [Action] The source multi-cast data is sending invalid packets. Check the IPv6 multi-cast communication program sent from the source multi-cast data.</inner></vrf>

#	Message text	Description
11	PIM:	Error (remote device)
	Ignoring Register message from <source address=""/> [on VRF <vrf id="">] - invalid inner source address scope '<inner address="" source="">'</inner></vrf>	A received PIM packet was ignored because the scope of the source address of IPv6 packets encapsulated by the Register packet was invalid. [Explanation of message variables] <source address=""/> : Source IPv6 address <vrf id="">: VRF ID <inner address="" source="">: Encapsulated source address [Action] The source multi-cast data is sending invalid packets. Check the IPv6 multi-cast communication program sent from the source multi-cast data.</inner></vrf>
12	PIM:	Error (remote device)
	ignoring Register message from <source address=""/> [on VRF <vrf id="">] - invalid inner group address '<inner group address>'</inner </vrf>	A received PIM packet was ignored because the group address of IPv6 packets encapsulated by the Register packet was invalid. [Explanation of message variables] <source address=""/> : Source IPv6 address <vrf id="">: VRF ID <inner address="" group="">: Encapsulated group address [Action] The source multi-cast data is sending invalid packets. Check the IPv6 multi-cast communication program sent from the source multi-cast data.</inner></vrf>
13	PIM:	Error (remote device)
	Ignoring Register message from <source address=""/> [on VRF <vrf id="">] - invalid inner group address scope '<inner address="" group="">'</inner></vrf>	A received PIM packet was ignored because the scope of the group address of IPv6 packets encapsulated by the Register packet was invalid. [Explanation of message variables] <source address=""/> : Source IPv6 address <vrf id="">: VRF ID <inner address="" group="">: Encapsulated group address [Action] The source multi-cast data is sending invalid packets. Check the IPv6 multi-cast communication program sent from the source multi-cast data.</inner></vrf>
14	PIM:	Error (remote device)
	<pre>source address> [on VRF <vrf id="">] - invalid inner IP version '<version>'</version></vrf></pre>	A received PIM packet was ignored because the version of IPv6 packets encapsulated by the Register packet was not version 6. [Explanation of message variables] <source address=""/> : Source IPv6 address <vrf id="">: VRF ID <version>: Encapsulated IP packet version [Action] The source multi-cast data is sending invalid packets. Check the IPv6 multi-cast communication program sent from the source multi-cast data.</version></vrf>

#	Message text	Description
15	PIM:	Error (remote device)
	<pre><source address=""/> [on VRF <vrf id="">] - invalid hash mask length '<value>'</value></vrf></pre>	A received PIM packet was ignored because the hash mask length in the Bootstrap packet was invalid (129 or more). [Explanation of message variables] <source address=""/> : Source IPv6 address <vrf id="">: VRF ID <value>: Hash mask length specified for the received packet [Action] A remote device is sending an invalid packet. Check the IPv6 multicast routing program (IPv6 PIM-SM) of the remote device.</value></vrf>
16	PIM:	Error (remote device)
	<pre><source address=""/> [on VRF <vrf id="">] - invalid BSR address '<ipv6 address="">'</ipv6></vrf></pre>	A received PIM packet was ignored because the BSR address in the Bootstrap packet was invalid. [Explanation of message variables] <source address=""/> : Source IPv6 address <vrf id="">: VRF ID <ipv6 address="">: BSR address [Action] A remote device is sending an invalid packet. Check the IPv6 multicast routing program (IPv6 PIM-SM) of the remote device.</ipv6></vrf>
17	PIM:	Warning (local device)
	<pre>source address> [on VRF <vrf id="">] - cannot find a route to the BSR(<ipv6 address="">)</ipv6></vrf></pre>	A received PIM packet was ignored because the unicast route to the BSR address in the Bootstrap was not found. [Explanation of message variables] < <i>source address></i> : Source IPv6 address < <i>vrf id></i> : VRF ID < <i>ipv6 address></i> : BSR address [Action] Check whether the route to the BSR address in the Bootstrap packet exists.
18	PIM: ignoring Candidate-RP-Advertisement message from <i><source address=""/></i> [on VRF <i><vrf id=""></vrf></i>] - non global address(<i><ipv6 address=""></ipv6></i>) as RP	Error (remote device) A received PIM packet was ignored because the rendezvous point address included in the Candidate-RP-Advertisement packet was invalid. [Explanation of message variables] <source address=""/> : Source IPv6 address <vrf id="">: VRF ID <ipv6 address="">: Rendezvous point address [Action] A remote device is sending an invalid packet. Check the IPv6 multicast routing program (IPv6 PIM-SM) of the remote device.</ipv6></vrf>
19	PIM:	Warning (remote device)
	SSK information was changed [on VRF < <i>vrf id</i> >] - lost BSR information	BSR information was cleared because advertisements from the Bootstrap router were lost. [Explanation of message variables] < <i>vrf id</i> >: VRF ID [Action] Check the reason why advertisements from the Bootstrap router were lost.

#	Message text	Description
20	PIM: BSR information was changed [on VRF	Event (local device)
	SSR information was changed [on VRF < <i>vrf id></i>] - new BSR address < <i>ipv6</i> address>	BSR address was changed. [Explanation of message variables] <vrf id="">: VRF ID <ipv6 address="">: BSR address If the BSR address is the Switch, (this system) is displayed after the IPv6 address. [Action] None.</ipv6></vrf>
21	PIM:	Event (local device)
	Add interface <i><interface name=""></interface></i> [of VRF <i><vrf id=""></vrf></i>] to the output interface list of (S,G)=(<i><source address=""/></i> , <i><group address=""></group></i>)	Interface <i><interface name=""></interface></i> was added to the output interface list of the multicast routing cache (S, G) (this message is output to syslog only). [Explanation of message variables] <i><interface name=""></interface></i> : Interface name <i><vrf id=""></vrf></i> : VRF ID <i><source address=""/></i> : Source IPv6 address <i><group address=""></group></i> : IPv6 group address [Action] None.
22	PIM:	Event (local device)
	VRF < <i>vrfid</i> >] from the output interface list of (S,G)=(<i>source address</i> >, < <i>group address</i> >)	Interface <i><interface name=""></interface></i> was deleted from the output interface list of the multicast routing cache (S, G) (this message is output to syslog only). [Explanation of message variables] <i><interface name=""></interface></i> : Interface name <i><vrf id=""></vrf></i> : VRF ID <i><source address=""/></i> : Source IPv6 address <i><group address=""></group></i> : IPv6 group address [Action] None.

Chapter

3. 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 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 console command, you can limit the output of messages to the specified level or lower.

- 3.1 Configuration
- 3.2 Stack
- 3.3 Access
- 3.4 Protocol
- 3.5 Switch parts
- 3.6 Port
- 3.7 Optional module

3.1 Configuration

3.1.1 Event location = CONFIG

The following table describes device failure and event information when the event location is $_{\tt CONFIG.}$

Table 3-1: Device failure and event information when the event location is CONFIG

#	Event level	Event location	Message ID	Added info Highest 4	Message text
				digits	
				Descri	ption
1	E3	CONFIG	09200006	0100	There is mismatch between master switch and switch <i><switch no.=""></switch></i> configuration.
	The configur [Explanation < <i>switch no.</i> > [Action] Restart the m	ation of the ma of message va Switch numb nember switch	ster switch diffe riables] er < <i>switch no</i> .> to	ers from that of match the cont	other member switches.
2	E3	CONFIG	09300001	0100	This system started with the default configuration file. because the startup configuration file is not found or broken.
	 Operation started with the default settings because there is no startup configuration file or it cannot be read. [Explanation of message variables] None. [Action] 1. If you have saved the configuration file, use the copy command, and apply the saved configuration file to the startup configuration file. 2. If you have not saved the configuration file, create a new configuration file 				
3	E3	CONFIG	09300002	0100	Configuration command syntax error. line <i><line< i=""> <i>number></i> : "<i><error syntax=""></error></i>"</line<></i>
	Application to the running configuration was skipped because a syntax error was detected in the startup configuration file. [Explanation of message variables] <i>line number</i>>: Line number of the target configuration command <error syntax="">: Syntax of the target configuration command [Action] Check the contents of the error.</error>				
4	E3	CONFIG	09300007	0100	Configuration edit status forcedly finished.
	E3 CONFIG 09300007 0100 Configuration edit status forcedly finished. The configuration status was forced to switch from editable status to editing-completed status. [Explanation of message variables] None. [Action] Have all users in the configuration command mode exit from the configuration command mode, and then restart the editing.				

#	Event level	Event location	Message ID	Added info	Message text	
				Highest 4 digits		
				Descri	ption	
5	E3	CONFIG	09300008	0100	Cannot set the automatic setting configuration command.:< <i>command</i> >	
	Automatic setting of the configuration command failed. [Explanation of message variables] <command/> : Command name [Action] Manually set the corresponding command.					
6	E3	CONFIG	09600006	0100	Configuration access management error. process <process name="">:pid<process id="">:time <time></time></process></process>	
	The lock was released and the device was automatically recovered because a process was accessing the configuration for a long time. [Explanation of message variables] <process name="">: Occurrence process name <process id="">: Occurrence process ID <time>: Occurrence time (day-of-the-week month day hour:minutes:seconds year) [Action] None.</time></process></process>					

3.2 Stack

3.2.1 Event location=STACK

The following table describes device failure and event information when the event location is $_{\mbox{\scriptsize STACK.}}$

Table 3-2: Device failure and event information when the event location is STACK.

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text	
				Descri	ption	
1	E3	STACK	34000001	2500	Switch <i><switch no.=""></switch></i> changed to <i><role></role></i> switch and initializing.	
	The member switch changed its status to <i><role></role></i> and started initialization. [Explanation of message variables] <i><switch no.=""></switch></i> : Switch number <i><role></role></i> : Switch status • master: Master • backup: Backup [Action] None.					
2	E3	STACK	34000002	2500	Switch <i><switch no.=""></switch></i> changed to <i><role></role></i> switch and started switchover.	
	The member switch changed its status to <i><role></role></i> and started switchover. [Explanation of message variables] <i><switch no.=""></switch></i> : Switch number <i><role></role></i> : Switch status • master: Master [Action] None					
3	E3	STACK	34000003	2500	Master switch detected switch <i><switch no.=""></switch></i> and adding to stack.	
	The master switch added the member switch <i><switch no.=""></switch></i> to STACK. [Explanation of message variables] <i><switch no.=""></switch></i> : Switch number [Action] None.					
4	E3	STACK	34000004	2500	Switch <i><switch no.=""></switch></i> was deleted from stack.	
	LS STACK 5400004 2500 Switch no. > was deleted from stack. The member switch was deleted from the stack configuration. [Explanation of message variables] <switch no.="">: Switch number [Action] Check the status of the member switch and the status of the stack port used to connect the member switch.</switch>					

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text	
				Descri	ption	
5	E3	STACK	34000005	2500	Stack port(< <i>switch no.</i> >/< <i>nif no.</i> >/< <i>port no.</i> >) connected with switch < <i>switch no.</i> > of Machine ID < <i>mac address</i> >.	
	The stack po [Explanation < <i>switch no.</i> > < <i>mac address</i> [Action] None.	rt was connecte of message va e/< <i>nif no.</i> >/< <i>p</i> : Switch numb <i>ss</i> >: Chassis M	ed with a member riables] ort no.>: Switch eer AC address	er switch that h 1 number/NIF 1	as the chassis MAC address <i><mac address=""></mac></i> . number/Port number	
6	E3	STACK	34000006	2500	Stack port(< <i>switch no.</i> >/< <i>nif no.</i> >/< <i>port no.</i> >) disconnected with switch < <i>switch no.</i> > of Machine ID < <i>mac address</i> >.	
	The stack port was disconnected from a member switch that has the chassis MAC address <i><mac address=""></mac></i> . [Explanation of message variables] <i><switch no.="">/<nif no.="">/<port no.=""></port></nif></switch></i> : Switch number/NIF number/Port number <i><switch no.=""></switch></i> : Switch number <i><mac address=""></mac></i> : Chassis MAC address [Action] Check the status of both the stack port and the disconnected member switch					
7	E3	STACK	34000007	2500	Switch <i><switch no.=""></switch></i> connected to stack port(<i><switch no.="">/<nif no.="">/<port no.=""></port></nif></switch></i>) cannot join in stack for <i><reason></reason></i> .	
	 A member switch connected to the stack port cannot participate in the stack configuration. [Explanation of message variables] <switch no.="">!<nif no.="">!<port no.="">: Switch number/NIF number/Port number</port></nif></switch> <switch no.="">: Switch number</switch> <reason>: Reason why the member switch cannot participate in the stack configuration</reason> equal switch number: The switch number of this member switch matches the switch number of another member switch connected to the stack port. unequal license: The optional license of this member switch does not match the optional license of other member switch exceeds the maximum number: The number of member switches connected to the stack port. over switch maximum number: The number of switches that can be stacked. [Action] If equal switch number, change the switch number of the other member switch connected to the stack port. If unequal license, match the license of this member switch to the licenses of the other member switches connected to the stack port. 					
8	E3	STACK	34000008	2500	Master switch ordered switch <i><switch no.=""></switch></i> to restart because master switch detected stack error.	
	The master s [Explanation < <i>switch no.></i> [Action] If this messa	witch instructe of message va Switch numb ge is repeatedly	d this member s riables] er voutput, replace	witch to restart	because the master switch detected an error. witch that has the displayed switch number.	

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text			
			<u> </u>	Descri	ption			
9	E3	STACK	34000009	2500	Switch <i><switch no.=""></switch></i> restarted because this switch was disconnected from other switch in stack building.			
	The member process. [Explanation < <i>switch no.</i> > [Action] Check the sta	switch was res of message va Switch numb atus of all stack	tarted because it riables] er ports between t	was isolated fi	rom the other member switches during the stack building itch and the other member switches.			
10	E3	STACK	3400000a	2500	Switch <i><switch no.=""></switch></i> restarted because this switch synchronized configuration of master switch.			
	The member [Explanation < <i>switch no.</i> > [Action] None.	switch was res of message va Switch numb	tarted because if riables] ber	t synchronized	with the configuration of the master switch.			
11	E3	STACK	3400000b	2500	Switch <i><switch no.=""></switch></i> restarted because hardware has stopped.			
	The member [Explanation < <i>switch no.</i> > [Action] Check the log according to	switch was res of message va : Switch numb g by executing t the error messa	tarted because tl riables] per he show loggi: nge.	he hardware stong command. I	ppped. f a problem is indicated in the log, take appropriate action			
12	E3	STACK	3400000c	2500	Switch <i><switch no.=""></switch></i> restarted because this switch detected other master switch.			
	The member [Explanation < <i>switch no.</i> > [Action] None.	switch <i><switch< i=""> of message va : Switch numb</switch<></i>	<i>h no.></i> was resta riables] per	rted because an	nother master switch was detected.			
13	E3	STACK	34000011	2500	Switch <i><switch no.=""></switch></i> initialized as <i><role></role></i> switch.			
	The initialization of the member switch was completed with its switch status as <i><role></role></i> . [Explanation of message variables] <i><switch no.=""></switch></i> : Switch number <i><role></role></i> : Switch status • master: Master • backup: Backup [Action] None.							
14	E3	STACK	34000012	2500	Master switch detected switch <i><switch no.=""></switch></i> initialized.			
	The master s [Explanation < <i>switch no.</i> > [Action] None.	witch recognize of message va Switch numb	E3 STACK 34000012 2500 Master switch detected switch <switch no.=""> initialized. The master switch recognized that the initialization of the member switch <switch no.=""> was completed. [Explanation of message variables] <switch no.="">: Switch number [Action] None. [Action]</switch></switch></switch>					

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text	
				Descri	ption	
15	E3	STACK	34000013	2500	Switch < <i>switch no.</i> > finished switchover as < <i>role</i> > switch.	
	The switchover of the member switch was completed with its switch status as <i><role></role></i> . [Explanation of message variables] <i><switch no.=""></switch></i> : Switch number <i><role></role></i> : Switch status • master: Master [Action] None.					
16	Е9	STACK	3400000d	2500	Switch < <i>switch no.</i> > restarted due to restart order from master switch.	
	The member switch was restarted as instructed by the master switch. [Explanation of message variables] <switch no.="">: Switch number [Action] If this message is repeatedly output replace the member switch</switch>					
17	E9	STACK	3400000e	2500	Switch <i><switch no.=""></switch></i> restarted due to stack error.	
	The member switch was restarted because an error occurred in the stack. [Explanation of message variables] <switch no.="">: Switch number [Action] If this message is repeatedly output, replace the member switch.</switch>					
18	Е9	STACK	3400000f	2500	Switch <i><switch no.=""></switch></i> restarted because this switch failed synchronization of configuration of master switch.	
	Switch. The member switch was restarted because it failed to synchronize with the configuration of the master switch. [Explanation of message variables] <switch no.="">: Switch number [Action] 1. Check if the software type, the software version, and the optional license of the master switch match those of the member switches. 2. Check the master switch configuration settings related to the relevant member switches.</switch>					

3.3 Access

3.3.1 Event location = ACCESS

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

Table 3-3: Device failure and event information when the event location is ACCESS

#	Event	Event	Message D	Added info	Message text	
	level	location		Highest 4 digits		
				Desci	ription	
1	E3	ACCESS	00000001	0201 0205	Unknown host address < <i>ip address</i> > [on VRF < <i>vrf id</i> >].	
	 An attempt to connect via telnet or FTP from <<i>ip address</i>> was not permitted. [Explanation of message variables] <<i>ip address</i>>: IPv4 address or IPv6 address <<i>vrf id</i>>: VRF ID [Action] 1. There might have been an unauthorized access (an access from a remote host other than one permitted by the configuration) to the Switch. Check the remote host whose IPv4 address or IPv6 address>. 2. If remote access from <<i>ip address</i>> is permitted, the configuration might be incorrect. Check the configuration. 3. If you want to permit remote access from <<i>ip address</i>>, specify access permissions for the configuration. 5. If you want to permit remote access from VRF <<i>vrf id</i>> specify access permissions for the configuration. 					
2	E3	ACCESS	00000002	0201 0205	Login incorrect <user name="">.</user>	
	 An attempt to log in by using the <i><user name=""></user></i> account was made, but the login was not allowed. [Explanation of message variables] <i><user name=""></user></i>: 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 the configuration. Check the operational status of the remote host that is permitted at the console or the configuration. 2. This log data is collected even when a legitimate user executes an incorrect operation during login. Therefore, even if this log message is collected, the operation of the remote host might be normal. 3. Check if the account was already registered for the Switch by using the adduser command. (Confirmation method: Check if the user has a home directory in ls /usr/home/) 					
3	E3	ACCESS	00000003	0201 0205	Login refused for too many users logged in.	
An attempt to connect via telnet was refused because too many users are logged in. [Explanation of message variables] None. [Action] 1. Check the number of users who are currently logged in. 2. If necessary, increase the limit for the number of users who can log in for the configuration.					many users are logged in. in. s who can log in for the configuration.	

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text	
				Desci	ription	
4	E3	ACCESS	00005002	0200	Login <user name=""> from <host> [on VRF <vrf id="">] (<term>).</term></vrf></host></user>	
	A user logged in. [Explanation of message variables] <user name="">: User name <host>: Host ID • For a remote operation terminal: IPv4 or IPv6 address • For a console terminal: console <vrf id="">: VRF ID <term>: Terminal name • For a remote operation terminal: ttyp0 or higher • For a console terminal: ttyp0 [Action] None</term></vrf></host></user>					
5	E3	ACCESS	00005003	0200	Logout < <i>user name</i> > from < <i>host</i> > [on VRF < <i>vrf id</i> >] (< <i>term</i> >).	
	A user logged out. [Explanation of message variables] <user name="">: User name <host>: Host ID • For a remote operation terminal: IPv4 or IPv6 address • For a console terminal: console <vrf id="">: VRF ID <term>: Terminal name • For a remote operation terminal: ttyp0 or higher • For a console terminal: tty00 [Action]</term></vrf></host></user>					
6	E3	ACCESS	00010001	0204	SNMP agent program received packet from <i><ip< i=""> <i>address></i> [on VRF <i><vrf id=""></vrf></i>] with unexpected community name <i><community name=""></community></i>.</ip<></i>	
	The SNMP agent received a packet that had the unexpected community name < community name> from <ip address="">. [Explanation of message variables] <ip address="">: IPv4 or IPv6 address of the SNMP manager <vrf id="">: VRF ID <community name="">: Community name>: Community name [Action] Access was attempted to the Switch from a location other than the locations permitted by the SNMP manager for the configuration. This message is output if the IP address and the community name of the SNMP manager do not match the IP address and the community name of an SNMP manager permitted for the configuration. Check the configuration to make sure that the IP address and the community name of the SNMP manager that accesses the Switch are identical to <<i>ip address</i>> and <<i>community name></i>. If they do not match, invalid access might be occurring. Contact the administrator of the SNMP manager to tell the responsible party not to access the SNMP manager at <<i>ip address></i>. The Switch suppresses repeated output to the operation log of accesses from an invalid IP address or community. A maximum of 16 invalid IP address are saved and, for each saved IP address, one out of every 128 invalid access attempts is output to the log.</community></vrf></ip></ip>					

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text		
				Desc	ription		
7	E3	ACCESS	00030001	0201 0205 0208 0209	Local authentication succeeded.		
	Local authen mode (enab [Explanation None. [Action] None.	itication was po le command). of message va	erformed and was	successful fo	r a user login request or request to change the administrator		
8	E3	ACCESS	00030002	0201 0205 0208 0209	Local authentication failed.		
 Local authentication was performed but authentication failed for a user login request or request to change administrator mode (enable command). [Explanation of message variables] None. [Action] 1. An invalid attempt to access the Switch might have occurred for a remote host permitted by the config Check the operational status of the remote host. 2. This log data is collected even when a legitimate user executes an incorrect operation (such as incorrect entry) during login. Therefore, even if this log message is collected, the operation of the remote host is normal. 					iled for a user login request or request to change the ccurred for a remote host permitted by the configuration. executes an incorrect operation (such as incorrect password ge is collected, the operation of the remote host might be		
9	E3	ACCESS	00030003	0201 0205 0208 0209	RADIUS authentication accepted from <i><host></host></i> .		
	RADIUS authentication was performed successfully for a user login request or request to change the administrat mode (enable command). [Explanation of message variables] <host>: IP address or host name of the RADIUS server [Action] None.</host>						
10	E3	ACCESS	00030004	0201 0205 0208 0209	RADIUS authentication rejected from <i><host></host></i> . " <i><message></message></i> "		
	RADIUS authentication was attempted, but authentication failed for a user login request or request to change the administrator mode (enable command). [Explanation of message variables] <host>: IP address or host name of the RADIUS server <message>: RADIUS server response message [Action] 1. An invalid attempt to access the Switch might have occurred for a remote host permitted by the configuration. Check the operational 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, even if this log message is collected, the operation of the remote host might be normal. 3. Check the RADIUS server setting.</message></host>						
#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text		
----	---	--	--	--	--	--	
				Desci	ription		
11	E3	ACCESS	00030005	0201 0205 0208 0209	RADIUS server (<i><host></host></i>) didn't response.		
	RADIUS aut command), b [Explanation <host>: IP a [Action] 1. Check th 2. Check th 3. Make sur 4. Make sur</host>	hentication wa but the RADIU of message va ddress or host e configuration e RADIUS sen re that the RAI re that the IP a	is attempted for a S server did not re ariables] name of the RAD n to make sure that ever configuration DIUS server is tur ddress of this swi	user login rec espond. IUS server at the RADIU to make sur- ned on. tch is registe	uest or request to change the administrator mode (enable US server IP address is correct. e that the RADIUS server port number is correct. red for the client IP address on the RADIUS server side.		
12	E3	ACCESS	00030006	0201 0205 0208 0209	RADIUS server configuration not defined.		
	RADIUS authentication was attempted for a user login request or request to change the administrator mode (e command), but a RADIUS server configuration has not been set up. [Explanation of message variables] None. [Action] 1. Check that a RADIUS configuration is set up. 2. Make sure that acct only is specified for the RADIUS configuration and that authentication is not limited.						
13	E3	ACCESS	00030007	0201 0205 0208 0209	Invalid response received from <i><host></host></i> .		
	RADIUS or TACACS+ authentication was attempted for a user login request or request to change the administra mode (enable command), but the response from RADIUS or TACACS+ server was invalid. [Explanation of message variables] <host>: IP address or host name of RADIUS or TACACS+ server [Action] Make sure that the same RADIUS or TACACS+ key is specified for the Switch and the RADIUS or TACACS+</host>						
14	E3	ACCESS	00030008	0201 0205 0208 0209	RADIUS authentication failed.		
	RADIUS aut command) [Explanation None. [Action] If any other o	of message va	led for a user logi nriables] nessages for RAD	n request or	request to change the administrator mode (enable		

#	Event level	Event location	Message ID	Added info	Message text		
				Highest 4 digits			
			1	Desc	ription		
15	E3	ACCESS	0003000a	0201 0205 0208 0209	Can't communicate with RADIUS server (< <i>host</i> >).		
	Communicat [Explanation <host>: IP a [Action] 1. Make su 2. If you ar</host>	tion with the R a of message van ddress or host re that there is e specifying a	ADIUS server fai ariables] name of the RAD a route to the RA host name for the	iled. DIUS server DIUS server RADIUS se	rver, make sure that name resolution can be performed.		
16	E3	ACCESS	0003000b	0201 0208	RADIUS authorization response with no contents.		
	RADIUS con server. [Explanation None. [Action] Make sure th RADIUS ser	mmand author a of message va nat Class, Ala rver settings (v	ization was perfor ariables] endor-specific set	mmands, and	ommand list was not properly obtained from the RADIUS Alaxala-Deny-Commands are properly set in the Switch).		
17	E3	ACCESS	00030013	0201 0205 0208 0209	TACACS+ authentication accepted from <i><host></host></i> .		
	TACACS+ a mode (enab. [Explanation <host>: IP a [Action] None.</host>	uthentication v le command). of message va uddress or host	was successfully p ariables] name of the TAC	erformed for ACS+ server	a user login request or request to change the administrator		
18	E3	ACCESS	00030014	0201 0205 0208 0209	TACACS+ authentication rejected from <i><host></host></i> .		
	Image: Construct of the						

#	Event level	Event location	Message ID	Added info Highost	Message text	
				4 digits		
				Desci	iption	
19	E3	ACCESS	00030015	0201 0205 0208 0209	TACACS+ server (< <i>host</i> >) didn't response.	
	TACACS+ a TACACS+ c (enable con [Explanation <host>: IP a [Action] 1. Check th 2. Make su</host>	uthentication a onfiguration) nmand), but th of message va ddress or host the configuratio re that the TAO	and command auti were attempted fo e TACACS+ serv ariables] name of the TAC. n to make sure tha CACS+ server is t	horization (if r a user login er did not res ACS+ server at the TACA0 urned on.	there is a command authorization specification in the request or request to change the administrator mode spond. CS+ server IP address is correct.	
20	E3	ACCESS	00030016	0201 0205 0208 0209	TACACS+ server configuration is not defined.	
	 TACACS+ authentication was attempted for a user login request or request to change the administrator mode (enable command), but a TACACS+ server configuration did not exist. [Explanation of message variables] None. [Action] 1. Make sure that a TACACS+ configuration is set up. 2. Make sure that a context of the TACACS+ configuration and the authentication is not limited. 					
21	E3	ACCESS	00030018	0201 0205 0208 0209	TACACS+ authentication failed.	
	TACACS+ a command). [Explanation None. [Action] If any other of	uthentication f of message va operation log r	failed for a user lo ariables] nessages were out	gin request o	ACS+ authentication, refer to them.	
22	E3	ACCESS	0003001a	0201 0205 0208 0209	Can't communicate with TACACS+ server (<i><host></host></i>).	
	0209 Communication with the TACACS+ server failed. [Explanation of message variables] <host>: IP address or host name of the TACACS+ server [Action] 1. Make sure that there is a route to the TACACS+ server. 2. If you are specifying the TACACS+ server by using a host name, make sure that name resolution can be performed. 3. Check the TACACS+ server configuration to make sure that the TACACS+ server port number is correct. 4. Make sure that the TACACS+ server is turned on. 5. Make sure that the IP address of the Switch is registered for the client IP address on the TACACS+ server side</host>					

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text		
				Desc	ription		
23	E3	ACCESS	0003001b	0201 0208	TACACS+ authorization response with no contents.		
	TACACS+ command authorization was performed but a command list was not properly obtained from the TACACS+ server. [Explanation of message variables] None. [Action] Make sure that class, allow-commands, and deny-commands are properly set in the TACACS+-server settings (vendor-specific setting for the Switch).						
24	E3	ACCESS	0003001c	0201 0208	TACACS+ authorization rejected from <i><host></host></i> .		
	TACACS+a (enable con [Explanatior <host>: IP a [Action] 1. Make su Switch). 2. Check of</host>	nuthentication v nmand), but th of message va ddress or host re that the ser	was attempted for the TACACS+ serv ariables] name of the TAC vice name is cor	a user login er denied it. ACS+ server rect in the TA	request or request to change the administrator mode		
25	E3	ACCESS	0003001d	0201 0208	Local authorization response with no contents.		
	Local command authorization was performed, but there is no user name and corresponding command class or command list settings. [Explanation of message variables] None. [Action] Make sure that settings for the command class (username view-class) and the command list (username view, parser view, commands exec) are set correctly for users authenticated using local login.						

3.4 Protocol

3.4.1 Event location = IP

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

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text	
				Descrip	otion	
1	E4	IP	26000001	0600	The ARP entry can't be registered at hardware tables. (< <i>ipv4 address</i> > [VRF < <i>vrf id</i> >])	
	An ARP entry cannot be registered in the hardware tables. [Explanation of message variables] < <i>ipv4 address</i> >: IPv4 address of the ARP entry that cannot be registered in the hardware tables < <i>vrf id</i> >: VRF ID [Action] Review the capacity limit. However, depending on specifications of the cache applied to the hardware, certain IP address combinations do not allow the setting to the maximum of the capacity limit.					
2	E4	IP	26000002	0600	The ARP entry can't be deleted from hardware tables.	
	An ARP entr [Explanation None. [Action] Replace the S	y cannot be del of message van Switch.	eted from the ha riables]	rdware tables.		
3	E4	IP	26000003	0600	The NDP entry can't be registered at hardware tables. (< <i>ipv6 address</i> > [VRF < <i>vrf id</i> >])	
	An NDP entry cannot be registered in the hardware tables. [Explanation of message variables] <ipv6 address="">: IPv6 address of NDP entry that cannot be registered in the hardware tables <vrf id="">: VRF ID [Action] Review the capacity limit. However, depending on specifications of the cache applied to the hardware, certain IPv6 address combinations do ret tables</vrf></ipv6>					
4	E4	IP	26000004	0600	The NDP entry can't be deleted from hardware tables.	
	An NDP entr [Explanation None. [Action] Replace the S	y cannot be del of message van Switch.	eted from the ha	Irdware tables.		

Table 3-4: Device failure and event information when the event location is IP

#	Event level	Event location	Message ID	Added info Highest4 digits	Message text		
				Descrij	otion		
5	E4	IP	26000005	0600	IPv4 unicast routing information can't be registered at hardware tables. (<i><ipv4 prefix="">/<masklen></masklen></ipv4></i> [VRF <i><vrf id=""></vrf></i>])		
	An IPv4 unicast routing table entry cannot be registered in the hardware tables. [Explanation of message variables] <ipv4 prefix="">: IPv4 unicast routing table entry that cannot be registered in the hardware tables <masklen>: Subnet mask length of the above IPv4 unicast routing table entry <vrf id="">: VRF ID [Action] Review the capacity limit. However, depending on specifications of the cache applied to the hardware, certain IP addresses do not allow the setting to the maximum of the capacity limit.</vrf></masklen></ipv4>						
6	E4	IP	26000006	0600	IPv4 unicast routing information can't be deleted from hardware tables.		
	An IPv4 unic [Explanation None. [Action] Replace the S	ast routing tab of message va Switch.	le entry cannot b riables]	e deleted from	the hardware tables.		
7	E4	IP	26000007	0600	IPv4 multicast routing information can't be registered at hardware tables. (Source: < <i>ipv4 address</i> > Group: < <i>ipv4 address</i> > [VRF < <i>vrfid</i> >])		
	An IPv4 mult [Explanation < <i>ipv4 addres</i> registered in < <i>vrf id</i> >: VR [Action] Review the c However, dep setting to the	ticast routing ta of message va s>: Source IPv the hardware ta F ID apacity limit. pending on spe maximum of t	able entry cannot riables] v4 address and gr ables cifications of the he capacity limit	t be registered roup address of e cache applied	in the hardware tables. f the IPv4 multicast routing table entry that cannot be to the hardware, certain IP addresses do not allow the		
8	E4	IP	26000008	0600	IPv4 multicast routing information can't be deleted from hardware tables.		
	An IPv4 mult [Explanation None. [Action] Replace the S	ticast routing ta of message va Switch.	able entry cannot riables]	t be deleted fro	m the hardware tables.		

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text
				Descrij	otion
9	E4	IP	26000009	0600	IPv6 unicast routing information can't be registered at hardware tables. (<i><ipv6 prefix="">/<prefixlen></prefixlen></ipv6></i> [VRF <i><vrf id=""></vrf></i>])
	An IPv6 unic [Explanation < <i>ipv6 prefix</i> ? < <i>prefixlen</i> ?: < <i>vrf id</i> ?: VR [Action] Review the c However, dep setting to the	ast routing tabl of message va >: IPv6 unicast Prefix length o F ID apacity limit. bending on spec maximum of t	le entry cannot b riables] routing table en f the above IPv6 cifications of the he capacity limit	e registered in try that cannot 5 unicast routin cache applied	the hardware tables. be registered in the hardware tables g table entry to the hardware, certain IPv6 addresses do not allow the
10	E4	IP	2600000a	0600	IPv6 unicast routing information can't be deleted from hardware tables.
	An IPv6 unic [Explanation None. [Action] Replace the S	ast routing tab of message va Switch.	le entry cannot b riables]	e deleted from	the hardware tables.
11	E4	IP	2600000Ъ	0600	IPv6 multicast routing information can't be registered at hardware tables. (Source:< <i>ipv6 address</i> > Group:< <i>ipv6 address</i> > [VRF < <i>vrf id</i> >])
	An IPv6 multi [Explanation < <i>ipv6 addres</i> in the hardwa < <i>vrf id</i> >: VR [Action] Review the c However, dep setting to the	ticast routing ta of message va s>: Source add are tables F ID apacity limit. bending on spe- maximum of ta	ble entry cannot riables] ress and group a cifications of the he capacity limit	be registered ddress of the IF cache applied	in the hardware tables. W6 multicast routing table entry that cannot be registered to the hardware, certain IPv6 addresses do not allow the
12	E4	IP	2600000c	0600	IPv6 multicast routing information can't be deleted from hardware tables.
	An IPv6 multicast routing table entry cannot be deleted from the hardware tables. [Explanation of message variables] None. [Action] Replace the Switch.				
13	E4	IP	2600000d	0600	The IP configuration to VLAN ($\langle vlan id \rangle$) can't be registered at hardware tables.
	An IP config [Explanation < <i>vlan id</i> >: II [Action] 1. Change tl However capacity b	uration for a V of message va O of the VLAN he VLAN ID. he capacity lim , depending on limit might not	LAN (<i><vlan id=""></vlan></i> riables] for which an IP it. specifications of be available.) cannot be reg configuration f the cache app	visitered in the hardware tables. was set lied to the hardware, the setting to the maximum of the

#	Event level	Event location	Message ID	Added info Highest4 digits	Message text		
			L	Descri	ption		
14	E4	IP	50000003	0600	Duplication of IPv4 address <i><ipv4 address=""></ipv4></i> with the node of MAC address <i><mac address=""></mac></i> was detected.		
	The IPv4 add [Explanation < <i>ipv4 addres</i> [Action] 1. Change e 2. When us the value	dress <i><ipv4 add<="" i=""> of message va ss>: IPv4 addre ss>: MAC addre either this IPv4 ing VRRP, this of timers ad</ipv4></i>	<i>tress</i> > is being u riables] ss that is registe ess of the device address or the II message might l vertise for the	sed by the dev red for the inte for which the Pv4 address of VRRP configu	ice that has the MAC address <i><mac address=""></mac></i> . rface for the Switch duplicate IPv4 address was detected the device that has the MAC address <i><mac address=""></mac></i> . ently when the CPU load is heavy. In that case, increase irration between devices comprising the VRRP.		
15	E4	IP	50000006	0600	The number of pieces of the ARP entry exceeds the capacity of this system.		
	 The number of ARP table entries exceeds the capacity limit of the Switch. [Explanation of message variables] None. [Action] If this message is issued often, take the following action: 1. Delete unnecessary information from the arp configuration. 2. If unnecessary entries have been generated dynamically, delete them by using the clear arp-cache command while specifying the vrf all parameter. 3. Review the network system configuration, and change it to a new system configuration by reducing the number of ADP table parameter. 						
16	E4	IP	50000007	0600	Because the number of pieces of the ARP entry exceeds the capacity of <i><vrf></vrf></i> , the old entry was deleted and the new entry was added.		
	deleted and the new entry was added. The number of ARP table entries for <vrf> has exceeded the maximum value for each VRF. Old entries are deleted, and new entries are added. [Explanation of message variables] <vrf>: VRF that exceeds the maximum ARP • VRF <vrf id="">: VRF, the VRF ID of which is <vrf id=""> global network: Global network [Action] If this message is issued often, take the following action: 1. Delete unnecessary information from the ARP configuration. 2. If unnecessary entries have been generated dynamically, delete them by using the clear arp-cache command. 3. Review the network system configuration, and change it to a new system configuration by reducing the number of ADB to be provided and the following action:</vrf></vrf></vrf></vrf>						
17	E4	IP	50000013	0600	The number of pieces of the IPv4 unicast Routing entry exceeds the capacity of this system.		
	E4 IP 50000013 0600 The number of pieces of the IPv4 unicast Routing entry exceeds the capacity of this system. The number of IPv4 multicast routing information entries exceeds the capacity limit of the Switch. [Explanation of message variables] None. [Action] 1. Delete unnecessary information from the IPv4 multicast routing information. 2. Review the network system configuration, and change it to a new system configuration by reducing the IPv4 multicast routing information. 3. After implementing (1) or (2) specify wrf all * for the clear in route command						

#	Event level	Event location	Message ID	Added info Highest 4	Message text	
				digits		
			1	Descrip	otion	
18	E4	IP	51000006	0600	The number of pieces of the IPv4 Multicast Routing entry exceeds the capacity of this system.	
	The number of NDP table entries exceeds the capacity limit of the Switch. [Explanation of message variables] None. [Action] If this message is issued often, take the following action: 1. Delete unnecessary information from the IPv4 multicast routing information. 2. Review the network system configuration, and change it to a new system configuration by reducing the IPv4					
19	E4	IP	6000002	0600	The number of pieces of the NDP entry exceeds the capacity of this system.	
	 [Explanation] [Action] If this messar 1. Delete un 2. If unnece the clear 3. Review t of NDP to the the the the the the the the the the	of message va ge is issued often necessary info essary entries ha r ipv6 neigi he network sys able entries.	riables] en, take the follo rmation from the ave been generat hbors command tem configuratio	wing action: endp configura ed dynamically l. n, and change i	ation. y, delete them by specifying the vrf all parameter in it to a new system configuration by reducing the number	
20	E4	IP	6000003	0600	Duplication of IPv6 address < <i>ipv6 address</i> > with the node of MAC address < <i>mac address</i> > was detected.	
	Address Image: Construction of the organization of the organizatin the organization of the organizatin the organization					
21	E4	IP	60000004	0600	Because the number of pieces of the NDP entry exceeds the capacity of $< vrf >$, the old entry was deleted and the new entry was added.	

#	Event level	Event location	Message ID	Added info	Message text			
				Highest 4 digits				
				Descrij	otion			
	 The number of NDP table entries for <vrf> has exceeded the maximum value for each VRF. Old entries are deleted, and new entries are added.</vrf> [Explanation of message variables] <vrf>: VRF that exceeds the maximum NDP</vrf> VRF <vrf id="">: VRF, the VRF ID of which is <vrf id=""></vrf></vrf> global network: Global network [Action] If this message is issued often, take the following action: Delete unnecessary information from the ndp configuration. If unnecessary entries have been generated dynamically, delete them by executing the clear ipv6 neighbors command. Review the network system configuration, and change it to a new system configuration by reducing the number of NDP table entries. 							
22	E4	IP	6000008	0600	The number of pieces of the IPv6 unicast routing information exceeds the capacity of this system.			
	information exceeds the capacity of this system. The number of IPv6 unicast routing information entries exceed the capacity limit of the Switch. [Explanation of message variables] None. [Action] 1. Delete unnecessary information from the IPv6 unicast routing information. 2. Review the network system configuration, and change it to a new system configuration by reducing the IPv6 unicast routing information. 3. After implementing (1) or (2), execute the clear ipv6 route command while specifying the vrf all *							
23	E4	IP	61000005	0600	The number of pieces of the IPv6 Multicast Routing entry exceeds the capacity of this system.			
	The number of [Explanation None. [Action] 1. Delete ur 2. Review the multicast	Image: constraint of the system Image: constraint of the system The number of IPv6 multicast routing information entries exceed the capacity limit of the Switch. [Explanation of message variables] None. [Action] 1. Delete unnecessary information from the IPv6 multicast routing information. 2. Review the network system configuration, and change it to a new system configuration by reducing the IPv6 multicast routing information.						

3.4.2 Event location = VLAN

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

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text		
				Desc	cription		
1	E3	VLAN	20110002	0700	STP(<i><mode></mode></i>): This bridge becomes the Root Bridge.		
	The Switch [Explanation <mode>: Sp • single • PVST+:" [Action] None.</mode>	has become th n of message v panning Tree t <u>r</u> Single Spann VLAN <i>Vlan id</i>	e root bridge. ariables] ype ing Tree '>: PVST+ Spar	ning Tree Pro	tocol and VLAN ID		
2	E3	VLAN	20110003	0700	STP(<i><mode></mode></i>): This bridge becomes the Designated Bridge.		
	The Switch has become the designated bridge. [Explanation of message variables] <mode>: Spanning Tree type • single: Single Spanning Tree • PVST+: VLAN <vlan id="">: PVST+ Spanning Tree Protocol and VLAN ID [Action] None.</vlan></mode>						
3	E3	VLAN	20110006	0700	STP(< <i>mode</i> >): Topology change detected - BPDU Timeout detected on the root port(< <i>nif no.</i> >/< <i>port no.</i> >).		
	A BPDU tin [Explanation <mode>: Sp • single • PVST+: • CIST: M • MST Ins <nif no.="">/< [Action] Check the li</nif></mode>	neout was deten n of message v panning Tree ty Single Spann VLAN <i><vlan i="" id<=""> Jultiple Spanni Stance <i><mst i="" i<=""> <i>Cport no.</i>>: NI ne status.</mst></i></vlan></i>	ected on the root ariables] ype ing Tree >: PVST+ Spar ing Tree (CIST) <i>nstance id</i> >: Mu F number/port n	port. ning Tree Pro altiple Spannin number	tocol and VLAN ID ng Tree (MSTI) and MST instance ID		
4	E3	VLAN	20110007	0700	STP(<i><mode></mode></i>): Topology change detected - Topology Change Notification BPDU received on the port(<i><nif< i=""> no.>/<i><port< i=""> no.>).</port<></i></nif<></i>		
	no.>/ <port no.="">). A topology change BPDU has been received. [Explanation of message variables] <mode>: Spanning Tree type • single: Single Spanning Tree • PVST+: VLAN <vlan id="">: PVST+ Spanning Tree Protocol and VLAN ID • MST: Multiple Spanning Tree <nif no.="">/<port no.="">: NIF number/port number [Action] Check the line status.</port></nif></vlan></mode></port>						

Table 3-5: Device failure and event information when the event location is VLAN

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text				
	Description								
5	E3	VLAN	20110011	0700	STP(<i><mode></mode></i>): Spanning Tree Protocol enabled - BPDU received on the Port Fast(<i><nif no.="">/<port no.=""></port></nif></i>).				
	A port has become subject to the Spanning Tree Protocol because the port was set with the PortFast function and received a BPDU. [Explanation of message variables] <mode>: Spanning Tree type • single: Single Spanning Tree • PVST+: VLAN <vlan id="">: PVST+ Spanning Tree Protocol and VLAN ID • MST: Multiple Spanning Tree <nif no.="">/<port no.="">: NIF number/port number [Action] Check the line status</port></nif></vlan></mode>								
6	E3	VLAN	20110012	0700	STP (<i><mode></mode></i>) : Topology change detected - BPDU Timeout detected on the root port(ChGr: <i><channel group<="" i=""> <i>number></i>).</channel></i>				
	A BPDU timeout was detected on the root port. [Explanation of message variables] <mode>: Spanning Tree type • single: Single Spanning Tree • PVST+: VLAN <vlan id="">: PVST+ Spanning Tree Protocol and VLAN ID • CIST: Multiple Spanning Tree (CIST) • MST Instance <mst id="" instance="">: Multiple Spanning Tree (MSTI) and MST instance ID <channel group="" number="">: Channel group number [Action] Check the line status</channel></mst></vlan></mode>								
7	E3	VLAN	20110013	0700	STP (<i><mode></mode></i>) : Topology change detected - Topology Change Notification BPDU received on the port(ChGr: <i><channel group="" number=""></channel></i>).				
	A topology change BPDU has been received. [Explanation of message variables] <mode>: Spanning Tree type • single: Single Spanning Tree • PVST+: VLAN <vlan id="">: PVST+ Spanning Tree Protocol and VLAN ID • MST: Multiple Spanning Tree <channel group="" number="">: Channel group number [Action]</channel></vlan></mode>								
8	E3	VLAN	20110014	0700	STP (<i><mode></mode></i>): Spanning Tree Protocol enabled - BPDU received on the Port Fast(ChGr: <i><channel group="" number=""></channel></i>).				
	A port has become subject to the Spanning Tree Protocol because the port was set with the PortFast function and received a BPDU. [Explanation of message variables] <mode>: Spanning Tree type • single: Single Spanning Tree • PVST+: VLAN <vlan id="">: PVST+ Spanning Tree Protocol and VLAN ID • MST: Multiple Spanning Tree <channel group="" number="">: Channel group number [Action] Check the line status.</channel></vlan></mode>								

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text		
				Desc	ription		
9	E3	VLAN	20110022	0700	STP : Cleared MAC Address Table entry.		
	A MAC Address Table entry was cleared because a topology change BPDU was received. [Explanation of message variables] None. [Action] None.						
10	E3	VLAN	20110023	0700	STP(< <i>mode</i> >): Topology change detected - BPDU Timeout detected on the alternate port(< <i>nif no.</i> >/< <i>port no.</i> >).		
	A BPDU timeout was detected on the alternate port. [Explanation of message variables] <mode>: Spanning Tree type • single: Single Spanning Tree • PVST+: VLAN <vlan id="">: PVST+ Spanning Tree Protocol and VLAN ID • CIST: Multiple Spanning Tree (CIST) • MST Instance <mst id="" instance="">: Multiple Spanning Tree (MSTI) and MST instance ID <nif no.="">/<port no.="">: NIF number/port number [Action] Check the line status</port></nif></mst></vlan></mode>						
11	E3	VLAN	20110024	0700	STP(<i><mode></mode></i>): Topology change detected - BPDU Timeout detected on the backup port(<i><nif no.="">/<port< i=""> <i>no.></i>).</port<></nif></i>		
	A BPDU timeout was detected on the backup port. [Explanation of message variables] <mode>: Spanning Tree type • single: Single Spanning Tree • PVST+: VLAN <vlan id="">: PVST+ Spanning Tree Protocol and VLAN ID • CIST: Multiple Spanning Tree (CIST) • MST Instance <mst id="" instance="">: Multiple Spanning Tree (MSTI) and MST instance ID <nif no.="">/<port no.="">: NIF number/port number [Action] Check the line states</port></nif></mst></vlan></mode>						
12	E3	VLAN	20110025	0700	STP (<i><mode></mode></i>) : Topology change detected - BPDU Timeout detected on the alternate port(ChGr: <i><channel< i=""> <i>group number></i>).</channel<></i>		
	A BPDU timeout was detected on the alternate port. [Explanation of message variables] <mode>: Spanning Tree type • single: Single Spanning Tree • PVST+:VLAN <vlan id="">: PVST+ Spanning Tree Protocol and VLAN ID • CIST: Multiple Spanning Tree (CIST) • MST Instance <mst id="" instance="">: Multiple Spanning Tree (MSTI) and MST instance ID <channel group="" number="">: Channel group number [Action] Check the line status.</channel></mst></vlan></mode>						

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text			
	Description							
13	E3	VLAN	20110026	0700	STP (<i><mode></mode></i>): Topology change detected - BPDU Timeout detected on the backup port(ChGr: <i><channel< i=""> <i>group number></i>).</channel<></i>			
	A BPDU timeout was detected on the backup port. [Explanation of message variables] <mode>: Spanning Tree type • single: Single Spanning Tree • PVST+: VLAN <vlan id="">: PVST+ Spanning Tree Protocol and VLAN ID • CIST: Multiple Spanning Tree (CIST) • MST Instance <mst id="" instance="">: Multiple Spanning Tree (MSTI) and MST instance ID <channel group="" number="">: Channel group number [Action] Check the line status.</channel></mst></vlan></mode>							
14	E3	VLAN	20110027	0700	STP(MST): This bridge becomes the CIST Root Bridge.			
	The Switch [Explanation None. [Action] None.	has become th n of message v	e CIST root brid rariables]	lge.				
15	E3	VLAN	20110028	0700	STP(CIST): This bridge becomes the CIST Regional Root Bridge.			
	The Switch [Explanation None. [Action] None.	has become th n of message v	e CIST regional ariables]	l root bridge.				
16	E3	VLAN	20110029	0700	STP(MST Instance <i><mst id="" instance=""></mst></i>): This bridge becomes the MSTI Regional Root Bridge.			
	The Switch has become the MSTI regional root bridge. [Explanation of message variables] <i><mst id="" instance=""></mst></i> : MST instance ID [Action] None.							
17	E3	VLAN	20110031	0700	STP(CIST): This bridge becomes the CIST Regional Designated Bridge.			
	The Switch [Explanation None. [Action] None.	has become th n of message v	e CIST regional ariables]	designated br	idge.			

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text	
				Desc	cription	
18	E3	VLAN	20110032	0700	STP(MST Instance <i><mst id="" instance=""></mst></i>): This bridge becomes the MSTI Regional Designated Bridge.	
	The Switch [Explanation <i><mst i="" instanc<=""> [Action] None.</mst></i>	has become th 1 of message v <i>ce id</i> >: MST i	e MSTI regiona ariables] nstance ID	l designated b	ridge.	
19	E3	VLAN	21100001	0700	IGMP snooping: IGMP querier changed on VLAN < <i>vlan</i> <i>id</i> > - lost IGMP querier address < <i>ipv4 address</i> >.	
	 An advertisement (IGMPQuery) from the IGMP querier <<i>ipv4 address</i> >on a VLAN (<<i>vlan id</i>>) has disappeared. The IGMP querier information is deleted. The availability of the IPv4 multicast group member (recipient host) cannot be checked, and IPv4 multicast data forwarding is not properly executed. [Explanation of message variables] <i>vlan id</i>>: VLAN ID <i>ipv4 address</i>>: IPv4 address [Action] Check the connection with the IGMP querier <<i>ipv4 address</i>>. Check if the GMP querier change message (message ID is 21100002) was output. If the connection with the IGMP querier cannot be checked, execute the configuration command ip igmp snooping querier to enable the IGMP querier function of the Switch 					
20	E3	VLAN	21100002	0700	IGMP snooping: IGMP querier changed on VLAN <i><vlan< i=""> <i>id></i> - new IGMP querier address <i><ipv4 address=""></ipv4></i>.</vlan<></i>	
	An IGMP qu id>). [Explanation <vlan id="">: V <ipv4 addree<br="">[Action] None.</ipv4></vlan>	n of message v VLAN ID SSS>: IPv4 add	nged to <i><ipv4 ad<="" i=""> ariables] ress</ipv4></i>	<i>ddress</i> > becau	se a new IGMP querier was identified on the VLAN (<i><vlan< i=""></vlan<></i>	
21	E3	VLAN	21100003	0700	IGMP snooping: IPv4 address not defined on VLAN < <i>vlan id></i> ,IGMP querier function stopped.	
	An IGMP querier on the VLAN (<vlan id="">) was stopped because the IPv4 address is not set. [Explanation of message variables] <vlan id="">: VLAN ID [Action] 1. Set an IPv4 addresses for the appropriate VLAN. 2. Execute the show igmp-snooping command to check that the IPv4 address set for the appropriate VLAN is displayed</vlan></vlan>					
22	E3	VLAN	21100004	0700	IGMP snooping: The number of the IGMP snooping entry exceeded the capacity of this system.	
	The number [Explanation None. [Action] The number the number of	of learn entrie n of message v of entries exce of entries.	es used in IGMP ariables] eeds the capacity	snooping exc	ceeds the capacity limit (maximum: 500) of the switch.	

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text		
		1	1	Dese	cription		
23	E3	VLAN	20110042	0700	STP (<i><mode></mode></i>) : Topology change detected - BPDU Timeout detected on the root port(VLID: <i><link id=""/></i>).		
	A BPDU timeout was detected on the root port. [Explanation of message variables] <mode>: Spanning Tree type • single: Single Spanning Tree • PVST+: VLAN <vlan id="">: PVST+ Spanning Tree Protocol and VLAN ID • CIST: Multiple Spanning Tree (CIST) • MST Instance <mst id="" instance="">: Multiple Spanning Tree (MSTI) and MST instance ID Virtual link ID [Action] Check the line status</mst></vlan></mode>						
24	E3	VLAN	20110043	0700	STP (<i><mode></mode></i>) : Topology change detected - Topology Change Notification BPDU received on the port(VLID: <i><link id=""/></i>).		
	A topology change BPDU has been received. [Explanation of message variables] <mode>: Spanning Tree type • single: Single Spanning Tree • PVST+: VLAN <vlan id="">: PVST+ Spanning Tree Protocol and VLAN ID • CIST: Multiple Spanning Tree (CIST) • MST Instance <mst id="" instance="">: Multiple Spanning Tree (MSTI) and MST instance ID link id>: Virtual link ID [Action] Classical definition of the state of the state</mst></vlan></mode>						
25	E3	VLAN	20110044	0700	STP (<i><mode></mode></i>) : Topology change detected - BPDU Timeout detected on the alternate port(VLID: <i><link id=""/></i>).		
	A BPDU timeout was detected on the alternate port. [Explanation of message variables] <mode>: Spanning Tree type • single: Single Spanning Tree • PVST+: VLAN <vlan id="">: PVST+ Spanning Tree Protocol and VLAN ID • CIST: Multiple Spanning Tree (CIST) • MST Instance <mst id="" instance="">: Multiple Spanning Tree (MSTI) and MST instance ID (Ink id>: Virtual link ID [Action] Check the line status</mst></vlan></mode>						
26	E3	VLAN	20110045	0700	STP (<i><mode></mode></i>) : Topology change detected - BPDU Timeout detected on the backup port(VLID: <i><link id=""/></i>).		
	LS VLAN 20110043 0700 STP (<mode>): Topology change detected - BPDU Timeout detected on the backup port Timeout detected on the backup port(VLID:<link id=""/>). A BPDU timeout was detected on the backup port. [Explanation of message variables] <mode>: Spanning Tree type • single: Single Spanning Tree • PVST+: VLAN • PVST+: VLAN • CIST: Multiple Spanning Tree (CIST) • MST Instance • Sinstance id>: Multiple Spanning Tree (MSTI) and MST instance ID (Ink id>: Virtual link ID [Action] Check the line status.</mode></mode>						

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text			
	Description							
27	E3	VLAN	20130019	0700	MAC Address Table entry cleared, because flush request received on port <i><port list=""></port></i> , Source MAC address <i><mac address=""></mac></i> .			
	The MAC as [Explanation <port list="">: <mac addre<br="">[Action] None.</mac></port>	ddress table w 1 of message v Port range ss>: Device M	as cleared becau ariables] IAC address of	ise a Flush R	equest frame was received. ling source			
28	E3	VLAN	21200001	0700	MLD snooping: MLD querier changed on VLAN <i><vlan< i=""> <i>id></i> - lost MLD querier address <i><ipv6 address=""></ipv6></i>.</vlan<></i>			
	 The MLD querier information was deleted because an advertisement (MLD Query) from the MLD querier <<i>ipv6</i> address > on a VLAN (<<i>vlan id</i>>) disappeared. The IPv6 multicast data will not be properly relayed because the existence of the IPv6 multicast group listener (recipient host) cannot be checked. [Explanation of message variables] <<i>vlan id</i>>: VLAN ID <<i>ipv6 address</i>>: IPv6 address [Action] 1. Check the connection with the MLD querier at <<i>ipv6 address</i>>. 2. Check if the MLD querier change message (message ID is 21200002) was output. 3. If the connection with the MLD querier function of the Switch 							
29	E3	VLAN	21200002	0700	MLD snooping: MLD querier changed on VLAN <i><vlan< i=""> <i>id></i> - new MLD querier address <i><ipv6 address=""></ipv6></i>.</vlan<></i>			
	The MLD qu id>). [Explanation <vlan id="">: V <ipv6 addree<br="">[Action] None.</ipv6></vlan>	uerier was cha n of message v VLAN ID ess>: IPv6 add	nged to <i><ipv6 a<="" i="">. ariables] ress</ipv6></i>	<i>ddress></i> becau	ise a new MLD querier was identified on the VLAN (<i><vlan< i=""></vlan<></i>			
30	E3	VLAN	21200003	0700	MLD snooping: IPv6 address not defined on VLAN < <i>vlan id></i> , MLD querier function stopped.			
	 The MLD querier on VLAN (<i><vlan id=""></vlan></i>) was stopped because the IPv6 address was not set. [Explanation of message variables] <i><vlan id=""></vlan></i>: VLAN ID [Action] 1. Set the IPv6 address for the appropriate VLAN. 2. Execute the show mld-snooping command to check that the IPv6 address set for the appropriate VLAN is displayed. 							
31	E3	VLAN	21200004	0700	MLD snooping: The number of the MLD snooping entry exceeded the capacity of this system.			
	The number [Explanation None. [Action] The number the number	of learn entrie of message v of entries exce of entries.	es used in MLD s ariables] eeds the capacity	snooping exc	eeds the capacity limit (maximum: 500) of the switch.			

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text		
	Description						
32	E3	VLAN	2510001b	0700	Sum of number of VLAN on ports exceeded capacity.		
	 The total number of VLANs for each port exceed the capacity limit. [Explanation of message variables] None. [Action] Execute any of the following measures: Use the copy command to apply the configuration file, with the total number of VLANs for each port being within the capacity limit, to the running-config file. Change the total number of VLANs to within the capacity limit, and execute the restart vlan command. Change the total number of VLANs to within the capacity limit and restart the switch 						
33	E4	VLAN	20110008	0700	STP(< <i>mode</i> >): Port status becomes Forwarding on the port(< <i>nif no.</i> >/< <i>port no.</i> >).		
	The port was placed in the forwarding status. [Explanation of message variables] <mode>: Spanning Tree type • single: Single Spanning Tree • PVST+: VLAN <vlan id="">: PVST+ Spanning Tree Protocol and VLAN ID • CIST: Multiple Spanning Tree (CIST) • MST Instance <mst id="" instance="">: Multiple Spanning Tree (MSTI) and MST instance ID <nif no.="">/<port no.="">: NIF number/port number [Action] News</port></nif></mst></vlan></mode>						
34	E4	VLAN	20110009	0700	STP(< <i>mode</i> >): Port status becomes Blocking on the port(< <i>nif no.</i> >/< <i>port no.</i> >).		
	The port was placed in the blocking status. [Explanation of message variables] <mode>: Spanning Tree type • single: Single Spanning Tree • PVST+: VLAN <vlan id="">: PVST+ Spanning Tree Protocol and VLAN ID • CIST: Multiple Spanning Tree (CIST) • MST Instance <mst id="" instance="">: Multiple Spanning Tree (MSTI) and MST instance ID <nif no.="">/<port no.="">: NIF number/port number [Action] None</port></nif></mst></vlan></mode>						
35	E4	VLAN	20110010	0700	STP(< <i>mode</i> >): Port status becomes Down- BPDU received on the BPDU GUARD port(< <i>nif no.</i> >/< <i>port no.</i> >).		
	A port was placed in the down status because it was set with the BPDU guard function and received a BPDU. [Explanation of message variables] <mode>: Spanning Tree type • single: Single Spanning Tree • PVST+: VLAN <vlan id="">: PVST+ Spanning Tree Protocol and VLAN ID • MST: Multiple Spanning Tree <nif no.="">/<port no.="">: NIF number/port number [Action] Check the line status.</port></nif></vlan></mode>						

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text		
	Description						
36	E4	VLAN	20110015	0700	STP (<i><mode></mode></i>) : Port status becomes Forwarding on the port(ChGr: <i><channel group="" number=""></channel></i>).		
	The port was placed in the forwarding status. [Explanation of message variables] <mode>: Spanning Tree type • single: Single Spanning Tree • PVST+: VLAN <vlan id="">: PVST+ Spanning Tree Protocol and VLAN ID • CIST: Multiple Spanning Tree (CIST) • MST Instance <mst id="" instance="">: Multiple Spanning Tree (MSTI) and MST instance ID <channel group="" number="">: Channel group number [Action] None</channel></mst></vlan></mode>						
37	E4	VLAN	20110016	0700	STP (<i><mode></mode></i>) : Port status becomes Blocking on the port(ChGr: <i><channel group="" number=""></channel></i>).		
	The port wa [Explanation <mode>: Sp • single • PVST+: • CIST: M • MST Ins <channel gr<br="">[Action] None.</channel></mode>	s placed in the n of message v panning Tree t : Single Spann VLAN <i><vlan i="" id<=""> fultiple Spann stance <i><mst i="" i<=""> <i>oup number</i>></mst></i></vlan></i>	blocking status rariables] ype ing Tree />: PVST+ Spar ing Tree (CIST) <i>nstance id</i> >: Mi : Channel group	nning Tree Pro ultiple Spannin number	tocol and VLAN ID ng Tree (MSTI) and MST instance ID		
38	E4	VLAN	20110017	0700	STP (<i><mode></mode></i>) : Port status becomes Down- BPDU received on the BPDU GUARD port(ChGr: <i><channel group="" number=""></channel></i>).		
	group number>). A port was placed in the down status because it was set with the BPDU guard function and received a BPDU [Explanation of message variables] <mode>: Spanning Tree type • single: Single Spanning Tree • PVST+: VLAN <vlan id="">: PVST+ Spanning Tree Protocol and VLAN ID • MST: Multiple Spanning Tree <channel group="" number="">: Channel group number [Action] Check the line status.</channel></vlan></mode>						
39	E4	VLAN	20110037	0700	STP (<i><mode></mode></i>) : Port status becomes Blocking on the port(<i><nif no.="">/<port no.=""></port></nif></i>), because IEEE 802.1Q Tagged BPDU was received from the port which is not trunk port.		
	Image of Drow was received non-the port which is not trunk port. Even though there was a setting (using an Untagged frame) for an access port, protocol port, or 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. [Explanation of message variables] <mode>: Spanning Tree type • PVST+: VLAN • PVST+: VLAN * orif no.>/<port no.="">: NIF number/port number [Action] Check the settings of the remote device.</port></mode>						

#	Event level	Event location	Message ID	Added info	Message text			
				Highest 4 digits				
				Desc	ription			
40	E4	VLAN	20110038	0700	STP (<i><mode></mode></i>) : Port status becomes Blocking on the port(ChGr: <i><channel group="" number=""></channel></i>), because IEEE 802.1Q Tagged BPDU was received from the port which is not trunk port.			
	Even though received a B [Explanation <mode>: Sp • PVST+: <channel gr<br="">[Action] Check the se</channel></mode>	there was a se PDU with an of message w banning Tree to VLAN <i><vlan i="" ia<=""> <i>oup number></i> ettings of the r</vlan></i>	tting (using an U IEEE 802.1Q ta ariables] ype >: PVST+ Spar : Channel group emote device.	ntagged fram g attached. Be uning Tree Pro number	tocol and VLAN ID			
41	E4	VLAN	20110039	0700	STP : Exceeded the number of the maximum spanning tree.			
	The number [Explanation None. [Action] Either review	of trees excee of message v	ed the maximum ariables] configuration, c	capacity of th	e Spanning Tree Protocol. No more trees can be added. panning Tree or Multiple Spanning Tree.			
42	E4	VLAN	20110040	0700	STP(< <i>mode</i> >): Port status becomes Blocking - BPDU that priority is high was received on the ROOT GUARD port(< <i>nif no.</i> >/< <i>port no.</i> >).			
	A port was placed in the Blocking status because it was set with the route-guard function and received a high-priority BPDU. [Explanation of message variables] <mode>: Spanning Tree type • single: Single Spanning Tree • PVST+: VLAN <vlan id="">: PVST+ Spanning Tree Protocol and VLAN ID • CIST: Multiple Spanning Tree (CIST) • MST Instance <mst id="" instance="">: Multiple Spanning Tree (MSTI) and MST instance ID <nif no.="">/<port no.="">: NIF number/port number [Action] Check the settings of the remote device</port></nif></mst></vlan></mode>							
43	E4	VLAN	20110041	0700	STP(<i><mode></mode></i>): Port status becomes Blocking - BPDU that priority is high was received on the ROOT GUARD port(ChGr: <i><channel group="" number=""></channel></i>).			
	A port was placed in the Blocking status because it was set with the route-guard function and received a high-priority BPDU. [Explanation of message variables] <mode>: Spanning Tree type • single: Single Spanning Tree • PVST+: VLAN <vlan id="">: PVST+ Spanning Tree Protocol and VLAN ID • CIST: Multiple Spanning Tree (CIST) • MST Instance <mst id="" instance="">: Multiple Spanning Tree (MSTI) and MST instance ID <channel group="" number="">: Channel group number [Action] Check the settings of the remote device.</channel></mst></vlan></mode>							

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text		
	Description						
44	E4	VLAN	20110047	0700	STP (<i><mode></mode></i>) : Port status becomes Forwarding on the port(VLID: <i><link id=""/></i>).		
	The port was placed in the forwarding status. [Explanation of message variables] <mode>: Spanning Tree type • single: Single Spanning Tree • PVST+: VLAN <vlan id="">: PVST+ Spanning Tree Protocol and VLAN ID • CIST: Multiple Spanning Tree (CIST) • MST Instance <mst id="" instance="">: Multiple Spanning Tree (MSTI) and MST instance ID link id>: Virtual link ID [Action] None.</mst></vlan></mode>						
45	E4	VLAN	20110048	0700	STP (<i><mode></mode></i>) : Port status becomes Blocking on the port(VLID: <i><link id=""/></i>).		
	The port wa: [Explanation <mode>: Sp • single: • PVST+: • CIST: M • MST Ins <link id=""/>: V [Action] None.</mode>	s placed in the n of message v panning Tree t : Single Spann VLAN <i><vlan i="" ia<=""> fultiple Spann tance <i><mst i="" i<=""> Virtual link ID</mst></i></vlan></i>	blocking status variables] ype ling Tree l>: PVST+ Spar ing Tree (CIST) instance id>: M	nning Tree Pro ultiple Spannin	tocol and VLAN ID ng Tree (MSTI) and MST instance ID		
46	E4	VLAN	21100005	0700	The IGMP snooping entry can't be registered at hardware tables(VLAN:< <i>vlan id></i> MAC address:< <i>mac address></i>).		
	An IGMP snooping entry cannot be set in a hardware table. [Explanation of message variables] <vlan id="">: VLAN ID <mac address="">: MAC address [Action] Review the system configuration. However, depending on the hardware specification, the setting to the maximum of the capacity limit might not be</mac></vlan>						
47	E4	VLAN	21200005	0700	The MLD snooping entry can't be registered at hardware tables(VLAN:< <i>vlan id></i> MAC address:< <i>mac address></i>).		
	An MLD snooping entry cannot be set in a hardware table. [Explanation of message variables] <vlan id="">: VLAN ID <mac address="">: MAC address [Action] Review the system configuration. However, depending on the hardware specification, the setting to the maximum of the capacity limit might not be available.</mac></vlan>						

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text			
	Description							
48	E4	VLAN	25100001	0700	VLAN (< <i>vlan id</i> >) Status is Up.			
	The VLAN status is UP. [Explanation of message variables] < <i>vlan id</i> >: VLAN ID [Action] None.							
49	E4	VLAN	25100002	0700	VLAN (< <i>vlan id</i> >) Status is Down.			
	The VLAN [Explanation < <i>vlan id</i> >: ⁷ [Action] Each line sta	status is DOW n of message v VLAN ID atus check tha	/N. /ariables] t belongs to VL.	AN.				
50	E4	VLAN	25100005	0700	The mac-address-table static entry can't be registered at hardware tables(VLAN:< <i>vlan id></i> MAC address:< <i>mac address></i>).			
	A mac-add [Explanatio < <i>vlan id>:</i> ' <i>«mac addre</i> [Action] Review the However, de available.	n of message v VLAN ID ess>: MAC ad system config epending on th	variables] dress uration. he hardware spec	cification, the	setting to the maximum of the capacity limit might not be			
51	E4	VLAN	25100006	0700	The VLAN MAC Address entry can't be registered at hardware tables(VLAN:< <i>vlan id></i> MAC address:< <i>mac address></i>).			
	A VLAN MAC address entry cannot be set for hardware. [Explanation of message variables] <vlan id="">: VLAN ID <mac address="">: MAC address [Action] Review the system configuration. However, depending on the hardware specification, the setting to the maximum of the capacity limit might not be available.</mac></vlan>							
52	E4	VLAN	25100007	0700	Protocol based VLAN (<i><vlan id=""></vlan></i>) registration failed on the port(<i><switch no.="">/<nif no.="">/<port no.=""></port></nif></switch></i>).			
	A protocol VLAN could not be set up. You attempted to use a specification that duplicated another VLAN for which a protocol was already specified. [Explanation of message variables] <vlan id="">: VLAN ID <switch no.="">/<nif no.="">/<port no.="">: Switch number/NIF number/port number [Action] Review the system configuration.</port></nif></switch></vlan>							

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text			
		1		Desc	cription			
53	E4	VLAN	25100008	0700	VLAN (<vlan id="">) vlan-mac registration failed.</vlan>			
	The vlan-mac setting failed. The number of VLANs that can be set for vlan-mac exceed the capacity limit. [Explanation of message variables] <vlan id="">: VLAN ID [Action] Review the system configuration.</vlan>							
54	E4	VLAN	25100014	0700	The number of learning MAC addresses exceeded the configured number on the VLAN(<i><vlan id=""></vlan></i>).			
	The MAC at [Explanation < <i>vlan id></i> : V [Action] None.	ddress learning 1 of message v VLAN ID	g count exceeds ariables]	the maximum	value of the configuration.			
55	E4	VLAN	25100019	0700	The vlan mapping entry can't be registered at hardware tables(VLAN <i><vlan id=""></vlan></i> , port(<i><switch no.="">/<nif no.="">/</nif></switch> <port no.=""></port></i>)).			
	Tag translation information entries cannot be registered in the hardware tables. [Explanation of message variables] < <i>vlan id</i> >: VLAN ID < <i>switch no.</i> >/< <i>nif no.</i> >/< <i>port no.</i> >: Switch number/NIF number/port number [Action] Review the system configuration. However, depending on the hardware specification, setting the maximum canacity limit might not be surrected							
56	E4	VLAN	25100021	0700	The vlan-protocol <i><protocol name=""></protocol></i> registration failed on the VLAN <i><vlan id=""></vlan></i> .			
	The setting c already set f [Explanation <protocol m<br=""><vlan id="">: V [Action] Review the</vlan></protocol>	of a protocol fo for the port. n of message v <i>ame</i> >: Name ov VLAN ID	or the protocol V variables] of the protocol t uration.	LAN failed. Yo	ou attempted to use a specification that duplicated a protocol empting to add			
57	E4	VLAN	25100022	0700	Protocol <i><frame type=""/></i> registration failed on the vlan-protocol <i><protocol name=""></protocol></i> .			
	The setting of a protocol value used for the VLAN protocol failed. You attempted to use a specification that duplicated a protocol already set for the port. [Explanation of message variables] <frame type=""/> : Frame type of the protocol that you are attempting to add • ethertype <hex>: EtherType value of Ethernet V2-format frame • llc <hex>: LLC value (DSAP, SSAP) of 802.3-format frame • snap-ethertype <hex>: EtherType value of 802.3-format frame • snap-ethertype <hex>: EtherType value of 802.3-format frame • snap-ethertype <hex>: EtherType value of 802.3-format frame Review the system configuration.</hex></hex></hex></hex></hex>							

3.4.3 Event location = VLAN (Ring Protocol)

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

(Ring Protocol).

Table 3-6: Device failure and event information when the event location is VLAN (Ring Protocol)

#	Event level	Event location	Message ID	Added info Highest4	Message text			
	Description							
1	F2		20170001	Desc				
1	E3	VLAN	20170001	0700	AXRP < <i>ring id></i> : activated state monitoring.			
	Monitoring of initialization [Explanation < <i>ring id</i> >: R [Action] None.	of the Ring Pr is complete an of message va Ring ID	rotocol state s ad you set the op ariables]	tarted. The swi	tch outputs this message when Ring Protocol of the Ring Protocol configuration to the master mode.			
2	E3	VLAN	20170002	0700	AXRP < <i>ring id</i> > : detected fault recovery by receiving health check frames.			
	Monitoring of the Ring Protocol state detected a recovery from a failure. The switch outputs this message wher it receives a health-check frame at the master node and detects a recovery from a failure. [Explanation of message variables] < <i>ring id</i> >: Ring ID [Action] None.							
3	E3	VLAN	20170003	0700	AXRP < <i>ring id</i> > : cleared MAC address table by receiving flush request frames.			
	A flush contr it clears a M [Explanation < <i>ring id</i> >: R [Action] None.	rol frame was 1 AC address tal 1 of message va Ring ID	received, and the ble whose outpu ariables]	e MAC address t target is a rin	s table was cleared. The switch outputs this message when g port.			
4	E3	VLAN	20170005	0700	AXRP < <i>ring id</i> > : cleared MAC address table by timeout of forwarding-shift-timer.			
	A MAC address table was cleared due to a forwarding-shift-time timeout. The switch outputs this message whe forwarding-shift-time timeout is detected and the MAC address table is output. [Explanation of message variables] <ri>ring id>: cleared white address table of forwarding-shift-time.</ri>							
5	E3	VLAN	20170014	0700	AXRP(virtual-link < <i>link id</i> >) : cleared MAC address table by receiving flush frames.			
	A virtual linl This messag [Explanation < <i>link id</i> >: V [Action] None.	k flush control e is for the clea a of message va firtual link ID	frame was recei aring of MAC a ariables]	ived with Ring ddress table en	Protocol, and MAC address table entries were cleared. tries for learning at all ring ports.			

#	Event level	Event location	Message ID	Added info Highest4 digits	Message text
		<u> </u>	<u> </u>	Desci	ription
6	E3	VLAN	20170016	0700	AXRP < <i>ring id</i> > : detected fault recovery by receiving health check frames, but suspended the fault recovery process.
	Monitoring c switchback. ' [Explanation < <i>ring id</i> >: R [Action] Either wait for remove the p	of the Ring Pr The switch out of message va ing ID or the suppress ath switchback	cotocol state d puts this messa ariables] ion-time timeou c suppression st	etected a recov ge when it dete t specified by t ate with the co	very from a failure, but a setting suppresses a path sets a recovery from a failure at the master node. he configuration command preempt-delay, or manually mmand clear axrp preempt-delay.
7	E3	VLAN	20170017	0700	AXRP < <i>ring id></i> : canceled the suspension of the fault recovery process.
	Removal of F path switchb [Explanation < <i>ring id</i> >: R [Action] None.	Ring Protoc ack suppressio of message va ing ID	D1 path switchb n state is remov nriables]	ack suppressio ed during such	n was executed. The switch outputs this message when the a suppression at the master node.
8	E3	VLAN	20170018	0700	AXRP < <i>ring id</i> > : activated multi fault state monitoring.
	Multi-fault n [Explanation < <i>ring id></i> : R [Action] None.	nonitoring of R of message va ing ID	ing Protocol nriables]	started.	
9	E3	VLAN	20170019	0700	AXRP < <i>ring id</i> > : detected multi fault recovery by receiving multi fault detection frames.
	Multi-fault monitoring of Ring Protocol detected recovery from multiple faults. The switch outputs this message when it receives a multi-fault monitoring frame at a shared node and detects recovery from multiple faults. [Explanation of message variables] < <i>ring id</i> >: Ring ID [Action] None.				
10	E3	VLAN	20170021	0700	AXRP (multi-fault-detection <i><ring id=""></ring></i>) : cleared MAC address table by receiving flush frames.
	A multi-fault message who monitoring. [Explanation <i><ring id=""></ring></i> : R [Action] None.	t flush control en it clears the of message va ing ID	frame was recei MAC address ta ariables]	ved, and the M able of a ring p	IAC address table was cleared. The switch outputs this ort that supports the ring ID that applies multi-fault

#	Event Event Message Added Message text level location ID info Highest4 digits									
		Description								
11	E4	VLAN	20170004	0700	AXRP < <i>ring id</i> > : detected fault by health check timeout.					
	Monitoring of the Ring Protocol state detected a fault. The switch outputs this message when it detects a health-check timeout at the master node. [Explanation of message variables] < <i>ring id</i> >: Ring ID [Action] A fault may be occurring at the link or the node in a corresponding ring. Check the link and the node states.									
12	E4	VLAN	20170020	0700	AXRP <i><ring id=""></ring></i> : detected multi fault by multi fault detection timeout.					
	Multi-fault n multi-fault n [Explanation < <i>ring id</i> >: R [Action] Multiple fau	Multi-fault monitoring of Ring Protocol detected multiple faults. The switch outputs this message when the multi-fault monitoring function detects a timeout at the shared node. [Explanation of message variables] <ring id="">: Ring ID [Action] Multiple faults might be occurring in a corresponding ring. Check the link and the node states.</ring>								

3.4.4 Event location = VLAN (GSRP)

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

<i>Table 3-7</i> . Device failure and event information when the event location is vLAN (GSR)	Table	3-7:	Device failure ar	d event information	when the event	location is	VLAN (GSRP
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#	Event level	Event location	Message ID	Added info Highest4 digits	Message text			
	Description							
1	E3	VLAN	20130002	0700	GSRP < <i>gsrp group id</i> > VLAN group < <i>vlan group id</i> > : state transitioned to Backup.			
	The GSRP sibackup-loc while the GS [Explanation <gsrp group<br=""><vlan group<br="">[Action] None.</vlan></gsrp>	The GSRP state transitioned to Backup. The switch outputs this message when GSRP initialization is complete, backup-lock in the GSRP configuration is deleted, or the restart vlan command is executed in the Master state while the GSRP device has not identified the partner switch. [Explanation of message variables] <gsrp group="" id="">: GSRP group ID <vlan group="" id="">: VLAN group ID [Action] None</vlan></gsrp>						
2	E3	VLAN	20130003	0700	GSRP < gsrp group id > VLAN group < vlan group id > : state transitioned to Master, because the number of active ports was more than neighbor's.			
	The GSRP s [Explanation <gsrp group<br=""><vlan group<br="">[Action] None.</vlan></gsrp>	ports was more than neighbor's. The GSRP state transitioned to Master because the switch has more active ports than the neighboring GSRP switch. [Explanation of message variables] <gsrp group="" id="">: GSRP group ID <vlan group="" id="">: VLAN group ID [Action] None.</vlan></gsrp>						

#	Event level	Event location	Message ID	Added info Highest4 digits	Message text	
				Desc	ription	
3	E3	VLAN	20130004	0700	GSRP <i><gsrp group="" id=""></gsrp></i> VLAN group <i><vlan group="" id=""></vlan></i> : state transitioned to Master, because the priority was higher than neighbor's.	
	The GSRP si switch. [Explanatior <gsrp group<br=""><vlan group<br="">[Action] None.</vlan></gsrp>	tate transitione n of message v <i>id</i> >: GSRP g <i>id</i> >: VLAN g	d to Master beca ariables] roup ID roup ID	ause the priorit	y of the switch is higher than that of the neighboring GSRP	
4	E3	VLAN	20130005	0700	GSRP < <i>gsrp group id</i> > VLAN group < <i>vlan group id</i> > : state transitioned to Master, because the MAC address was larger than neighbor's.	
The GSRP state transitioned to Master because the MAC address of the switch is larger than that of t GSRP switch. [Explanation of message variables] <gsrp group="" id="">: GSRP group ID <vlan group="" id="">: VLAN group ID [Action] None.</vlan></gsrp>					address of the switch is larger than that of the neighboring	
5	E3	VLAN	20130008	0700	GSRP <i><gsrp group="" id=""></gsrp></i> VLAN group <i><vlan group="" id=""></vlan></i> : state transitioned from Master to Backup, because the number of active ports was less than neighbor's.	
	The GSRP state transitioned from Master to Backup because the switch has fewer active ports than the neighboring GSRP switch. [Explanation of message variables] <gsrp group="" id="">: GSRP group ID <vlan group="" id="">: VLAN group ID [Action] None</vlan></gsrp>					
6	E3	VLAN	20130009	0700	GSRP < <i>gsrp group id</i> > VLAN group < <i>vlan group id</i> > : state transitioned from Master to Backup, because the priority was lower than neighbor's.	
	The GSRP state transitioned from Master to Backup because the priority of the switch is lower than that for the neighboring GSRP switch. [Explanation of message variables] <gsrp group="" id="">: GSRP group ID <vlan group="" id="">: VLAN group ID [Action] None.</vlan></gsrp>					

#	Event level	Event location	Message ID	Added info Highest4 digits	Message text	
			1	Desc	ription	
7	E3	VLAN	20130010	0700	GSRP $<$ <i>gsrp group id</i> $>$ VLAN group $<$ <i>vlan group id</i> $>$: state transitioned from Master to Backup, because the MAC address was smaller than neighbor's.	
	The GSRP state transitioned from Master to Backup because the MAC address of the switch is smaller than that for the neighboring GSRP switch. [Explanation of message variables] <gsrp group="" id="">: GSRP group ID <vlan group="" id="">: VLAN group ID [Action] None</vlan></gsrp>					
8	E3	VLAN	20130013	0700	GSRP < <i>gsrp group id</i> > VLAN group < <i>vlan group id</i> > : advertise timeout detected on Master.	
	The timeout period for receiving GSRP Advertise frames is detected. The switch outputs this message only when the GSRP state is Master. [Explanation of message variables] <gsrp group="" id="">: GSRP group ID <vlan group="" id="">: VLAN group ID [Action] Check that the port for direct link was implemented correctly and is active. Also, check the current GSRP status by using the configuration and the operation command</vlan></gsrp>					
9	E3	VLAN	20130015	0700	GSRP aware : MAC Address Table entry cleared, because GSRP flush request received on port <i><port list=""></port></i> , GSRP <i><gsrp group="" id=""></gsrp></i> VLAN group <i><vlan group="" id=""></vlan></i> Source MAC address <i><mac address=""></mac></i> .	
	The GSRP Flush Request frame was received, and the MAC address table was cleared. [Explanation of message variables] <port list="">: Port range <gsrp group="" id="">: GSRP group ID <vlan group="" id="">: VLAN group ID <mac address="">: MAC address [Action] None</mac></vlan></gsrp></port>					
10	E3	VLAN	20130017	0700	GSRP < <i>gsrp group id</i> > VLAN group < <i>vlan group id</i> > VLAN id < <i>vlan id</i> > : removed from vlan-group, because configuration is a disagreement, Ring protocol and GSRP.	
	GSRP. While using the Ring Protocol there was a configuration mismatch between the Ring Protocol and GSRP, so the corresponding VLAN was no longer part of the vlan-group. [Explanation of message variables] <gsrp group="" id="">: GSRP group ID <vlan group="" id="">: VLAN group ID <vlan id="">: VLAN ID [Action] Change the configuration so that the contents of Ring Protocol vlan-mapping and GSRP vlan-group match.</vlan></vlan></gsrp>					

#	Event level	Event location	Message ID	Added info Highest4 digits	Message text	
				Desc	ription	
11	E4	VLAN	20130006	0700	GSRP < <i>gsrp group id</i> > VLAN group < <i>vlan group id</i> > : state transitioned to Master, because "set gsrp master" command was executed.	
	The GSRP si [Explanation <gsrp group<br=""><vlan group<br="">[Action] None.</vlan></gsrp>	tate transitione of message va <i>id</i> >: GSRP gr <i>id</i> >: VLAN g	rd to Master bec ariables] oup ID roup ID	ause the set o	gsrp master command was executed.	
12	E4	VLAN	20130007	0700	GSRP < <i>gsrp group id</i> > VLAN group < <i>vlan group id</i> > : state transitioned to Master, because the direct link failure was detected.	
	The GSRP si when the di GSRP state t state. [Explanation <gsrp group<br=""><vlan group<br="">[Action] None.</vlan></gsrp>	tate transitione rect - down pa ransitioned to l of message va <i>id</i> >: GSRP gr <i>id</i> >: VLAN g	ed to Master bec arameter is set ir Master because ariables] roup ID roup ID	ause a direct li 1 the GSRP con a direct link do	nk failure was detected. The switch outputs this message nfiguration command no-neighbor-to-master, and wn was detected while in the Backup (neighbor unknown)	
13	E4	VLAN	20130011	0700	GSRP < <i>gsrp group id</i> > VLAN group < <i>vlan group id</i> > : state transitioned to Backup(No Neighbor).	
	The GSRP si [Explanation <gsrp group<br=""><vlan group<br="">[Action] Check that th using the con</vlan></gsrp>	tate transitione of message va <i>id</i> >: GSRP gr <i>id</i> >: VLAN g ne port for dire nfiguration and	ed to Backup (ne ariables] roup ID roup ID roup ID ect link was impl the operation c	lemented corre	vn). ctly and is active. Also, check the current GSRP status by	
14	E4	VLAN	20130012	0700	GSRP < <i>gsrp group id</i> > VLAN group < <i>vlan group id</i> > : state transitioned from Backup(No Neighbor) to Backup.	
	The GSRP state transitioned from Backup (neighbor unknown) to Backup. [Explanation of message variables] <gsrp group="" id="">: GSRP group ID <vlan group="" id="">: VLAN group ID [Action] None</vlan></gsrp>					
15	E4	VLAN	20130014	0700	GSRP < <i>gsrp group id</i> > VLAN group < <i>vlan group id</i> > : advertise timeout detected on Backup(Lock).	
	E4 VLAN 20150014 0700 GSRP <gsrp group="" id=""> VLAN group <vlan group="" id=""> : advertise timeout detected on Backup(Lock). The timeout period for receiving GSRP Advertise frames is detected. The switch outputs this message only when the GSRP state is Backup (Lock). [Explanation of message variables] <gsrp group="" id="">: GSRP group ID <vlan group="" id="">: VLAN group ID <vlan group="" id="">: VLAN group ID [Action] Check that the port for direct link was implemented correctly and is active. Also, check the current GSRP status by using the configuration and the operation command</vlan></vlan></gsrp></vlan></gsrp>					

#	Event level	Event location	Message ID	Added info Highest4 digits	Message text					
	Description									
16	E4	VLAN	20130016	0700	GSRP < <i>gsrp group id</i> > VLAN group < <i>vlan group id</i> > : state transitioned from Master to Backup, because the double Master detected.					
	The GSRP s [Explanation <gsrp group<br=""><vlan group<br="">[Action] Check that th the operation</vlan></gsrp>	The GSRP state of the switch and neighboring machine are both Master, so both transitioned to Backup. [Explanation of message variables] <gsrp group="" id="">: GSRP group ID <vlan group="" id="">: VLAN group ID [Action] Check that the direct link port operates normally. Also, check the current GSRP status by using the configuration and the operation command.</vlan></gsrp>								
17	E4	VLAN	20130018	0700	GSRP < <i>gsrp group id</i> > VLAN group < <i>vlan group id</i> > : state transitioned to Master, because forced shift time was expired.					
	The GSRP s [Explanation <gsrp group<br=""><vlan group<br="">[Action] None.</vlan></gsrp>	tate transitione of message va <i>id</i> >: GSRP gr <i>id</i> >: VLAN g	ed to Master due ariables] roup ID roup ID	e to elapsing of	the time set for the automatic master transition wait time.					

3.4.5 Event location = VLAN (L2 loop detection)

The following table describes device failure and event information when the event location is v_{LAN} (L2 loop detection).

Table 3-8: Device failure and event information when the event location is VLAN (L2 loop detection)

#	Event level	Event location	Message ID	Added info Highest4 digits	Message text				
	Description								
1	1 E4 VLAN 20800001 0700 L2LD : Port(<switch no.="">/<nif no.="">/<port no.="">) inactivated because of loop detection from port(<no.>/<port no.="">).</port></no.></port></nif></switch>								
	The active port has been blocked because a loop failure was detected. [Explanation of message variables] <switch no.="">/<nif no.="">/<port no.="">: Switch number/NIF number/port number [Action] Check the network configuration</port></nif></switch>								

#	Event level	Event location	Message ID	Added info Highest4	Message text	
				aigits	rintion	
2	E4	VLAN	20800002	0700	L2LD : Port(<i><switch i="" no.<="">>/<i><nif i="" no.<="">>/<i><port i="" no.<="">>) inactivated because of loop detection from ChGr(<i><channel group="" i="" number<="">>).</channel></i></port></i></nif></i></switch></i>	
	The active per [Explanation < <i>switch no.</i> > < <i>channel gre</i> [Action] Check the ne	ort has been bl of message va >/ <nif no.="">/< oup number>:</nif>	ocked because a ariables] < <i>port no.</i> >: Swi Channel group ration.	a loop failure w tch number/NI number	/as detected. F number/port number	
3	E4	VLAN	20800003	0700	L2LD : ChGr(<i><channel group="" number=""></channel></i>) inactivated because of loop detection from port(<i><switch no.="">/<nif no.="">/<port no.=""></port></nif></switch></i>).	
	The active port has been blocked because a loop failure was detected. [Explanation of message variables] <i><channel group="" number=""></channel></i> : Channel group number <i><switch no.="">/<nif no.="">/<port no.=""></port></nif></switch></i> : Switch number/NIF number/port number [Action] Check the network configuration					
4	E4	VLAN	20800004	0700	L2LD : ChGr(<i><channel group="" number=""></channel></i>) inactivated because of loop detection from ChGr(<i><channel group="" number=""></channel></i>).	
	The active per [Explanation <i><channel gre<="" i=""> [Action] Check the net</channel></i>	ort has been bl of message va oup number>: etwork configu	ocked because a ariables] Channel group ration.	a loop failure w	vas detected.	
5	E4	VLAN	20800005	0700	L2LD : Port(< <i>switch no.</i> >/< <i>nif no.</i> >/< <i>port no.</i> >) loop detection from port(< <i>switch no.</i> >/< <i>nif no.</i> >/< <i>port no.</i> >).	
	A loop failure was detected. [Explanation of message variables] <switch no.="">/<nif no.="">/<port no.="">: Switch number/NIF number/port number [Action] Check the network configuration.</port></nif></switch>					
6	E4	VLAN	20800006	0700	L2LD : Port(<i><switch i="" no.<="">>/<i><nif i="" no.<="">>/<i><port i="" no.<="">>) loop detection from ChGr(<i><channel group="" i="" number<="">>).</channel></i></port></i></nif></i></switch></i>	
	A loop failure was detected. [Explanation of message variables] <switch no.="">/<nif no.="">/<port no.="">: Switch number/NIF number/port number <channel group="" number="">: Channel group number [Action] Check the network configuration</channel></port></nif></switch>					

#	Event level	Event location	Message ID	Added info Highest4	Message text	
				digits		
				Desc	ription	
7	E4	VLAN	20800007	0700	L2LD : ChGr(<i><channel group="" number=""></channel></i>) loop detection from port(<i><switch no.="">/<nif no.="">/<port no.=""></port></nif></switch></i>).	
	A loop failur [Explanation < <i>channel gro</i> < <i>switch no.</i> > [Action] Check the no	re was detected of message va oup number>: >/ <nif no.="">/<</nif>	I. ariables] Channel group < <i>port no.</i> >: Swi iration.	number tch number/NI	F number/port number	
8	E4	VLAN	20800008	0700	L2LD : ChGr(<i><channel group="" number=""></channel></i>) loop detection from ChGr(<i><channel group="" number=""></channel></i>).	
	A loop failur [Explanation <i><channel gre<="" i=""> [Action] Check the ne</channel></i>	re was detected of message va oup number>: etwork configu	l. ariables] Channel group ıration.	number		
9	E4	VLAN	20800009	0700	L2LD : Port(<i><switch i="" no.<="">>/<i><nif i="" no.<="">>/<i><port i="" no.<="">>) activate by automatic restoration of the L2loop detection function.</port></i></nif></i></switch></i>	
	The port stat [Explanation < <i>switch no.</i> > [Action] None.	e inactive w of message va >/ <nif no.="">/<</nif>	/as cleared due ariables] <i>port no.</i> >: Swit	to automatic re	F number/port number	
10	E4	VLAN	20800010	0700	L2LD : ChGr(<i><channel group="" number=""></channel></i>) activate by automatic restoration of the L2loop detection function.	
	The port state inactive was cleared due to automatic recovery of the L2 loop detection function. [Explanation of message variables] <channel group="" number="">: Channel group number [Action] None.</channel>					
11	E4	VLAN	20800011	0700	L2LD : L2loop detection frame cannot be sent in the port where capacity was exceeded.	
	where capacity was exceeded. The number of ports that can send L2 loop detection frames exceed the capacity limit. Ports exceeding the capacity limit cannot send L2 loop detection frames. [Explanation of message variables] None. [Action] Decrease the number of ports sending L2 loop detection frames.					

3.4.6 Event location = VLAN (CFM)

The following table describes device failure and event information when the event location is v_{LAN} (CFM).

#	Event level	Event location	Message ID	Added info Highest4 digits	Message text			
	Description							
1	E4	VLAN	20900003	0700	MD Level < <i>level</i> > MA < <i>no.</i> >: detected on fault of OtherCCM in MEP < <i>mepid</i> >.			
	The relevant MEP detected a fault (OtherCCM). [Explanation of message variables] < <i>level</i> >: Domain level < <i>no.</i> >: MA identification number < <i>mepid</i> >: MEP ID [Action] A partner switch is not recognized as the same MA. Check that the domain level MA ID, domain name, and MA name match the partner switches							
2	E4	VLAN	20900004	0700	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). [Explanation of message variables] <level>: Domain level <no.>: MA identification number <mepid>: 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) matches that of the partner switch</mepid></no.></level>							
3	E4	VLAN	20900005	0700	MD Level < <i>level</i> > MA < <i>no</i> .>: detected on fault of Timeout in MEP < <i>mepid</i> >.			
	The relevant MEP detected a fault (Timeout). [Explanation of message variables] < <i>level</i> >: Domain level < <i>no.</i> >: MA identification number < <i>mepid</i> >: MEP ID [Action] The switch is not receiving CCM from partner switches. Check the network status							
4	E4	VLAN	20900006	0700	MD Level < <i>level</i> > MA < <i>no.</i> >: detected on fault of PortState in MEP < <i>mepid</i> >.			
	The relevant MEP detected a fault (PortState). [Explanation of message variables] <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>							

Table 3-9: Device failure and event information when the event location is VLAN (CFM)

#	Event level	Event location	Message ID	Added info Highest4 digits	Message text		
				Desc	ription		
5	E4	VLAN	20900007	0700	MD Level < <i>level</i> > MA < <i>no</i> .>: detected on fault of RDI in MEP < <i>mepid</i> >.		
	The relevant MEP detected a fault (RDI). [Explanation of message variables] <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>						
6	E4	VLAN	20900008	0700	Exceeded the number of the maximum port.		
	The number of ports exceeds the number for which MEP and MIP can be set. [Explanation of message variables] None. [Action] Check the number of settings.						

3.4.7 Event location = MAC

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

#	Event level	Event location	Message ID	Added info Highest4 digits	Message text			
	Description							
1	E3	MAC	20120005	0800	Channel Group(<i><channel group="" number=""></channel></i>) disabled administratively.			
	A channel group was designated as disabled by the configuration. [Explanation of message variables] <i><channel group="" number=""></channel></i> : Channel group number [Action] None.							
2	E3	MAC	20120006	0800	Channel Group(<i><channel group="" number=""></channel></i>) enabled administratively.			
	A channel group was released from the disabled state by the configuration. [Explanation of message variables] <i><channel group="" number=""></channel></i> : Channel group number [Action] None.							

Table	3-10:	Device	failure a	and eve	ent in	formation	when	the ever	nt location i	s MAC
laore	5 10.	Device	iunaie (/110 111	lonnation	***		it location i	5 1011 10

#	Event level	Event location	Message ID	Added info	Message text			
				digits				
	Description							
3	E3	MAC	20120007	0800	Port(<i><switch i="" no.<="">>/<i><nif i="" no.<="">>/<i><port i="" no.<="">>) detached from Channel Group(<i><channel group="" i="" number<="">>) - Different Partner System ID is detected.</channel></i></port></i></nif></i></switch></i>			
	The system ID of a partner switch does not match between the ports for LACP mode link aggregation, and the port was detached from the channel group. [Explanation of message variables] < <i>switch no.</i> >/< <i>nif no.</i> >/< <i>port no.</i> >: Switch number/NIF number/port number < <i>channel group number</i> >: Channel group number [Action] Check the following: 1. Is the connection with the partner switch correct? 2. Is the system ID setting of the partner switch correct?							
4	E3	MAC	20120008	0800	Port(<i><switch i="" no.<="">>/<i><nif i="" no.<="">>/<i><port i="" no.<="">>) detached from Channel Group(<i><channel group="" i="" number<="">>) - Different Partner Key is detected.</channel></i></port></i></nif></i></switch></i>			
	The key of a partner switch does not match between the ports for LACP mode link aggregation, and the port was detached from the channel group. [Explanation of message variables] <switch no.="">/<nif no.="">/<port no.="">: Switch number/NIF number/port number <channel group="" number="">: Channel group number [Action] Check the following: 1. Is the connection with the partner switch correct? 2. Is the key setting of the partner switch correct?</channel></port></nif></switch>							
5	E3	MAC	20120009	0800	Port(<i><switch i="" no.<="">>/<i><nif i="" no.<="">>/<i><port i="" no.<="">>) removed from Channel Group(<i><channel group="" i="" number<="">>).</channel></i></port></i></nif></i></switch></i>			
	A port was detached from the channel group because of a configuration link deletion. [Explanation of message variables] <switch no.="">/<nif no.="">/<port no.="">: Switch number/NIF number/port number <channel group="" number="">: Channel group number [Action] None.</channel></port></nif></switch>							
6	E3	MAC	20120010	0800	Port(<i><switch i="" no.<="">>/<i><nif i="" no.<="">>/<i><port i="" no.<="">>) detached from Channel Group(<i><channel group="" i="" number<="">>) - Port down.</channel></i></port></i></nif></i></switch></i>			
	A line is down, and the port was detached from the channel group. [Explanation of message variables] <switch no.="">/<nif no.="">/<port no.="">: Switch number/NIF number/port number <channel group="" number="">: Channel group number [Action] Check the line status.</channel></port></nif></switch>							

#	Event level	Event location	Message ID	Added info Highest4 digits	Message text			
	Description							
7	E3	MAC	20120011	0800	Port(<i><switch i="" no.<="">>/<i><nif i="" no.<="">>/<i><port i="" no.<="">>) detached from Channel Group(<i><channel group="" i="" number<="">>) - Different Port data rate.</channel></i></port></i></nif></i></switch></i>			
	Lines that ha from the cha [Explanatior < <i>switch no.</i> ? < <i>channel gr</i> [Action] For detached	Lines that have different data rates (speeds) exist in the channel group. Lines that have low data rates were detached from the channel group. [Explanation of message variables] <switch no.="">/<nif no.="">/<port no.="">: Switch number/NIF number/port number <channel group="" number="">: Channel group number [Action] For detached lines, check the settings of the Switch and partner switches.</channel></port></nif></switch>						
8	E3	MAC	20120012	0800	Port(<i><switch i="" no.<="">>/<i><nif i="" no.<="">>/<i><port i="" no.<="">>) detached from Channel Group(<i><channel group="" i="" number<="">>) - Half-duplex port.</channel></i></port></i></nif></i></switch></i>			
	Lines operating in half-duplex mode were detached from the channel group. [Explanation of message variables] <switch no.="">/<nif no.="">/<port no.="">: Switch number/NIF number/port number <channel group="" number="">: Channel group number [Action] For detached lines, check the settings of the Switch and partner switches.</channel></port></nif></switch>							
9	E3	MAC	20120013	0800	Port(<i><switch i="" no.<="">>/<i><nif i="" no.<="">>/<i><port i="" no.<="">>) detached from Channel Group(<i><channel group="" i="" number<="">>) - Denied by the LACP partner.</channel></i></port></i></nif></i></switch></i>			
	In LACP mode link aggregation, a connection from the partner switch was denied due to LACP, and the port was detached from the channel group. [Explanation of message variables] <switch no.="">/<nif no.="">/<port no.="">: Switch number/NIF number/port number <channel group="" number="">: Channel group number [Action] Check the partner switch status.</channel></port></nif></switch>							
10	E3	MAC	20120014	0800	Port(<i><switch i="" no.<="">>/<i><nif i="" no.<="">>/<i><port i="" no.<="">>) detached from Channel Group(<i><channel group="" i="" number<="">>) - LACPDU timeout.</channel></i></port></i></nif></i></switch></i>			
	In LACP mode link aggregation, the port did not receive an LACPDU from the partner switch, and the port was detached from the channel group because of a timeout. [Explanation of message variables] <switch no.="">/<nif no.="">/<port no.="">: Switch number/NIF number/port number <channel group="" number="">: Channel group number [Action] Check the partner switch status, which is active.</channel></port></nif></switch>							
11	E3	MAC	20120015	0800	Port(<i><switch i="" no.<="">>/<i><nif i="" no.<="">>/<i><port i="" no.<="">>) detached from Channel Group(<i><channel group="" i="" number<="">>) - Configuration is changed.</channel></i></port></i></nif></i></switch></i>			
	A port was detached from the channel group because of a configuration change. [Explanation of message variables] <switch no.="">/<nif no.="">/<port no.="">: Switch number/NIF number/port number <channel group="" number="">: Channel group number [Action] None.</channel></port></nif></switch>							
#	Event level	Event location	Message ID	Added info Highest4 digits	Message text			
--	---	---	--	--	---	--	--	
				Desc	ription			
12	E3	MAC	20120016	0800	Port(<i><switch i="" no.<="">>/<i><nif i="" no.<="">>/<i><port i="" no.<="">>) detached from Channel Group(<i><channel group="" i="" number<="">>) - Port moved is detected.</channel></i></port></i></nif></i></switch></i>			
	A port was d [Explanation < <i>switch no.</i> > < <i>channel gre</i> [Action] None.	etached from the of message value of message value of <i>nois nois of nois of nois of the outpathere of the outpather</i> and the outpather of the outpather outpather of the outpather of the outpather of the outpather of the outpather	the channel grou ariables] <port no.="">: Swi Channel group</port>	ip because the tch number/NI number	port was moved in the channel group. F number/port number			
13	E3	MAC	20120017	0800	Port(<i><switch i="" no.<="">>/<i><nif i="" no.<="">>/<i><port i="" no.<="">>) detached from Channel Group(<i><channel group="" i="" number<="">>) - Partner Aggregation bit is FALSE.</channel></i></port></i></nif></i></switch></i>			
The application bit of the partner switch in the LACP mode was false, and the port was detached from t group. [Explanation of message variables] <switch no.="">/<nif no.="">/<port no.="">: Switch number/NIF number/port number <channel group="" number="">: Channel group number [Action] None.</channel></port></nif></switch>				de was false, and the port was detached from the channel F number/port number				
14	E3	MAC	20120018	0800	Port(<i><switch i="" no.<="">>/<i><nif i="" no.<="">>/<i><port i="" no.<="">>) detached from Channel Group(<i><channel group="" i="" number<="">>) - Partner Port number is changed.</channel></i></port></i></nif></i></switch></i>			
	The port number of the partner switch was changed, and the port was detached from the channel group. [Explanation of message variables] <switch no.="">/<nif no.="">/<port no.="">: Switch number/NIF number/port number <channel group="" number="">: Channel group number [Action] None.</channel></port></nif></switch>							
15	E3	MAC	20120019	0800	Port(<i><switch i="" no.<="">>/<i><nif i="" no.<="">>/<i><port i="" no.<="">>) detached from Channel Group(<i><channel group="" i="" number<="">>) - Partner Port priority is changed.</channel></i></port></i></nif></i></switch></i>			
	The port priority value of the partner switch was changed, and the port was detached from the channel group. [Explanation of message variables] <switch no.="">/<nif no.="">/<port no.="">: Switch number/NIF number/port number <channel group="" number="">: Channel group number [Action] None</channel></port></nif></switch>							
16	E3	MAC	20120020	0800	Port(<i><switch i="" no.<="">>/<i><nif i="" no.<="">>/<i><port i="" no.<="">>) detached from Channel Group(<i><channel group="" i="" number<="">>) - Operation of detach port limit.</channel></i></port></i></nif></i></switch></i>			
A port was detached from the channel group because of a detach port limit. [Explanation of message variables] <switch no.="">/<nif no.="">/<port no.="">: Switch number/NIF number/port number <channel group="" number="">: Channel group number [Action] None.</channel></port></nif></switch>					detach port limit. F number/port number			

#	Event level	Event location	Message ID	Added info Highest4 digits	Message text			
	Description							
17	E3	MAC	20120021	0800	Port(<i><switch i="" no.<="">>/<i><nif i="" no.<="">>/<i><port i="" no.<="">>) added to Channel Group(<i><channel group="" i="" number<="">>).</channel></i></port></i></nif></i></switch></i>			
	A port was added to the channel group. [Explanation of message variables] <switch no.="">/<nif no.="">/<port no.="">: Switch number/NIF number/port number <channel group="" number="">: Channel group number [Action] None</channel></port></nif></switch>							
18	E3	MAC	20120022	0800	Port(<i><switch i="" no.<="">>/<i><nif i="" no.<="">>/<i><port i="" no.<="">>) attached to Channel Group(<i><channel group="" i="" number<="">>).</channel></i></port></i></nif></i></switch></i>			
	A port was aggregated to the channel group. [Explanation of message variables] < <i>nif no.</i> >/< <i>port no.</i> >: NIF number/port number < <i>channel group number</i> >: Channel group number [Action] None.							
19	E3	MAC	20120023	0800	Port(<i><switch i="" no.<="">>/<i><nif i="" no.<="">>/<i><port i="" no.<="">>) attached to Channel Group(<i><channel group="" i="" number<="">>) - A standby port became active.</channel></i></port></i></nif></i></switch></i>			
	Operation by a standby link has started. [Explanation of message variables] <switch no.="">/<nif no.="">/<port no.="">: Switch number/NIF number/port number <channel group="" number="">: Channel group number [Action] None</channel></port></nif></switch>							
20	E3	MAC	20120024	0800	Port(<i><switch i="" no.<="">>/<i><nif i="" no.<="">>/<i><port i="" no.<="">>) detached from Channel Group(<i><channel group="" i="" number<="">>) - This port became a standby port.</channel></i></port></i></nif></i></switch></i>			
	Operation by a standby link has started. [Explanation of message variables] <switch no.="">/<nif no.="">/<port no.="">: Switch number/NIF number/port number <channel group="" number="">: Channel group number [Action] None.</channel></port></nif></switch>							
21	E4	MAC	20120002	0800	Channel Group(< <i>channel group number</i> >) is Up.			
	The channel group status is Up. Channel group number>: Channel group number [Action] None.							

#	Event level	Event location	Message ID	Added info Highest4 digits	Message text			
				Desc	ription			
22	E4	MAC	20120003	0800	Channel Group(< <i>channel group number</i> >) is Down - All port detached.			
	 All ports in the channel group are detached, and the channel group status is Down. [Explanation of message variables] <<i>channel group number</i>>: Channel group number [Action] For line connection status with partner switches: Check whether the line is down. Check whether the line is half-duplex. Check that the partner switch LACP setting and line statuses are normal. 							
23	E4	MAC	20120004	0800	Channel Group(<i><channel group="" number=""></channel></i>) is Down - The number of the detached port exceeded the configured number.			
	configured number. The number of detached ports in the channel group exceeds the set limit, and the channel group status is Down. [Explanation of message variables] <channel group="" number="">: Channel group number [Action] For line connection status with partner switches: 1. Check whether the line is down. 2. Check whether the line is half-duplex. 3. Check that the partner switch LACP setting and line statuses are normal.</channel>							

3.5 Switch parts

3.5.1 Event location = SOFTWARE

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

Table 3-11: Device failure and event information when the event location is SOFTWARE

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text				
	Description								
1	E3	SOFTWARE	00003001	1000	System restarted due to abort reset operation.				
	The device was res [Explanation of me None. [Action] None.	tarted because the R essage variables]	ESET button was	s pressed.					
2	E3	SOFTWARE	00003002	1000	System restarted due to default reset operation.				
	The device was restarted because the default switch was pressed. [Explanation of message variables] None. [Action] None.								
3	E3	SOFTWARE	00003003	1000	System restarted due to fatal error detected by software.				
	The software detected a fatal error and restarted the system. [Explanation of message variables] None. [Action] Check the log by executing the show logging command. If another problem is indicated in the log, take appropriate action according to the error message								
4	E3	SOFTWARE	00003004	1000	System restarted due to user operation.				
	The device was restarted because of the reload command. [Explanation of message variables] None. [Action] None.								
5	E3	SOFTWARE	00003005	1000	System restarted due to fatal error detected by kernel.				
	The kernel detected [Explanation of me None. [Action] Check the log by ex action according to	d a fatal error and resease variables] escuting the show lo the error message.	started the system	ı. . If another probl	em is indicated in the log, take appropriate				

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text				
	Description								
6	E3	SOFTWARE	00003006	1000	System restarted due to WDT timeout.				
	The device was restarted because of a WDT (watchdog timer) timeout. [Explanation of message variables] None. [Action] Check the log by executing the show logging command. If another problem is indicated in the log, take appropriate action according to the error message.								
7	E3	SOFTWARE	00003007	1000	System restarted due to hardware error detected by kernel.				
	The device was restarted because of a hardware failure. [Explanation of message variables] None. [Action] Replace the Switch.								
8	E3	SOFTWARE	00003008	1000	System restarted due to hardware error detected.				
	The device was restarted because of a hardware failure. [Explanation of message variables] None. [Action] Replace the Switch								
9	E3	SOFTWARE	00003301	1000	CPU congestion detected.				
	 Packet congestion in CPU processing was detected. [Explanation of message variables] None. [Action] If any messages that indicate another error or event (for example, indicating an error or event related to the Layer 2 protocol or IPv4/IPv6 routing protocols) are issued along with this message, carry out the action appropriate for those messages. This message is occasionally output if the switch receives a large quantity of packets for the local device (such as for ping or telnet), in a broadcast, or in a multicast. The CPU can process broadcast and multicast packets while the hardware is relaying them. If there is too much access from the network management device, limit the amount of access to the minimum necessary. If (3) above does not start the recovery, see the <i>Troubleshooting Guide</i> description of the case in which congestion of packets being processed by the CPU does not recover, and carry out the indicated action 								
10	E3	SOFTWARE	00003302	1000	CPU has recovered from congestion.				
	The CPU has recov [Explanation of mo None. [Action] None.	vered from congestic essage variables]	n.		·				

#	Event level	Event location	Message ID	Added info Highest 4	Message text	
			Desc	aigits cription		
11	E3	SOFTWARE	00003303	1000	Received many packets and loaded into the queue to CPU.	
	Numerous received packets have accumulated in CPU queues. [Explanation of message variables] None. [Action] None. If this message is output frequently, check the following. 1. Check if the switch has received a large quantity of packets for the local device (such as for ping or telnet), in a broadcast, or in a multicast. If there is too much access from the network management device, limit the amount of access to the minimum necessary. 2. The network configuration may be too complex. Review the network configuration					
12	E3	SOFTWARE	00003304	1000	Processed the packets in the queue to CPU.	
	Packets that had be [Explanation of me None. [Action] None.	een accumulating in essage variables]	CPU queues have	e been processed.		
13	E3	SOFTWARE	00008601	1001	NTP lost synchronization with <i><ip< i=""> <i>address></i>[on VRF <i><vrf id=""></vrf></i>].</ip<></i>	
	Synchronization w [Explanation of me < <i>ip address</i> >: IPv < <i>vrf id</i> >: VRF ID [Action] Use the show ntp If the non-synchron of communication.	as lost with the NTP essage variables] 4 address of NTP ser associations co nized state continues	r server at <i><ip ad<="" i=""> ver mmand to check , check the NTP o</ip></i>	dress>. the NTP status. configuration, NT	TP server operation status, and availability	
14	E3	SOFTWARE	00008602	1001	NTP detected an invalid packet from < <i>ip address</i> >[on VRF < <i>vrf id</i> >].	
	An invalid packet from the NTP server at <i><ip address=""></ip></i> was detected. [Explanation of message variables] <i><ip address=""></ip></i> : IPv4 address of NTP server <i><vrf id=""></vrf></i> : VRF ID [Action] Check the NTP server					
15	E3	SOFTWARE	00008603	1001	NTP could not find the server which synchronize with.	
There is no NTP server for which synchronization is possible. synchronize with. [Explanation of message variables] None. [Action] Check the NTP configuration, NTP server operation status, and availability of communication.					ity of communication.	

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text		
	Description						
16	E3	SOFTWARE	01200187	1001	The temperature logging file can't be written.		
	 Writing of temperature logging information failed. [Explanation of message variables] None. [Action] 1. Check the user area of the internal flash memory. 2. If the free space is lacking, delete unnecessary files to ensure free space (approximately 8 KB). 						
17	E3	SOFTWARE	01700501	1001	Statistics table initialized.		
	The switch time ha [Explanation of me None. [Action] None.	is been changed, and essage variables]	the statistics tab	le that holds the G	CPU usage statistics has been initialized.		
18	Е3	SOFTWARE	01700502	1001	CPU overloaded. There is the possibility of software failure in responding to user command input or sending notification to SNMP agent.		
	The response to a user-entered command might have failed or a notification to an SNMP agent might have failed. The CPU might be overloaded. [Explanation of message variables] None. [Action] If necessary reenter command or retrieve MIB						
19	E3	SOFTWARE	01700503	1001	There is the possibility of software failure in responding to user command input or sending notification to SNMP agent.		
	The response to a u [Explanation of me None. [Action] If necessary, reente	iser-entered commar essage variables] er command or retrie	nd might have fai ve MIB.	led or a notificati	on to an SNMP agent might have failed.		
20	E3	SOFTWARE	01900250	1001	Software started up.		
	The software has started. This log data is collected in UTC time. [Explanation of message variables] None. [Action] None.						
21	E3	SOFTWARE	01910201	1001	System started collecting new "error.log".		
	The system has sta [Explanation of me None. [Action] None.	rted collecting data i essage variables]	nto a new referer	nce log.	I		

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text			
	Description							
22	E3	SOFTWARE	01910202	1001	System restarted by user operation.			
	The system was res [Explanation of me None. [Action] None.	started by a user ope essage variables]	ration.					
23	E3	SOFTWARE	01910203	1001	System restarted after hardware reset.			
	The system was restarted by the RESET button. [Explanation of message variables] None. [Action] None.							
24	E3	SOFTWARE	01910303	1001	System woke up by scheduled time.			
	Device sleep mode is deactivated upon entering the normal time range. [Explanation of message variables] None. [Action] None.							
25	E3	SOFTWARE	01910304	1001	System woke up by reset switch.			
	The RESET button [Explanation of me None. [Action] None.	is pressed for a long essage variables]	g time, and devic	ce sleep mode is d	leactivated.			
26	E3	SOFTWARE	01910403	1001	System slept by scheduled time.			
	Device sleep mode is activated upon entering the scheduled time range. [Explanation of message variables] None. [Action] None							
27	E3	SOFTWARE	01910405	1001	System is going to sleep soon.			
	The device is about to enter sleep mode. [Explanation of message variables] None. [Action] None.							
28	E3	SOFTWARE	02002010	1001	System failed switching to admin mode.			
	The change to the a [Explanation of me None. [Action] Another administra users.	admin mode during essage variables] ator has become adm	MIB setup has f	ailed. Now sessions CC	ommand, check the login users and admin			

#	Event	Event	Message	Added info Highest 4	Message text				
		location		digits					
	Description								
29	E3	SOFTWARE	02002012	1001	Specified MIB doesn't exist, or it does not have read/write attribute.				
	Either the set MIB does not exist, or the MIB does not have read and write attributes. [Explanation of message variables] None. [Action] See the manual <i>MIB Reference For Version 11.10</i> , and make sure that the set MIB has read and write attributes.								
30	E3	SOFTWARE	02002013	1001	Incorrect instance value specified.				
	The instance value set during MIB setup is not correct. [Explanation of message variables] None. [Action] Check and set the instance value.								
31	E3	SOFTWARE	02002014	1001	MIB value specified was out of range.				
	[Explanation of me None. [Action] For details on the N Version 11.10.	vises a find (and seessage variables] MIB value range, see	e 35. SNMP in the	e manual <i>Configu</i>	uration Command Reference Vol. 1 For				
32	E3	SOFTWARE	02002015	1001	Data length of the MIB value was too long.				
	The entry for the M [Explanation of me None. [Action] For details on the n <i>Command Reference</i>	AIB value set during essage variables] number of characters <i>ce Vol. 1 For Versior</i>	MIB setup is too that can be set for 11.10.	o long. or a MIB value, so	ee 35. SNMP in the manual Configuration				
33	E3	SOFTWARE	02002016	1001	MIB Set failed due to the lack of necessary MIBs.				
	MIB setup was not possible because the MIBs required for setting are insufficient. [Explanation of message variables] None. [Action] See the manual MIB Reference For Version 11,10, and check that items required for setting are sufficient								
34	E3	SOFTWARE	02002017	1001	Illegal character used in MIB setting.				
	You are attempting [Explanation of me None. [Action] Check the characte <i>Version 11.10</i> , and	to set up the MIB u essage variables] r code list in <i>1. Read</i> set up the MIB.	sing invalid char ing the Manual in	acters. 1 the manual <i>Con</i>	figuration Command Reference Vol. 1 For				

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text		
			Desc	cription			
35	E3	SOFTWARE	02002018	1001	MIB Set failed to configured the configuration file because the preliminary configuration file is under editing.		
	Setting of a MIB in edited. [Explanation of me None. [Action] Stop editing of the	nto the startup config essage variables] backup configuratio	guration file was s	not possible beca	use the backup configuration file is being		
36	E3	SOFTWARE	02002019	1001	Failed in contact the configuration file while setting up MIB.		
	Access to the startup configuration file for MIB settings failed. [Explanation of message variables] None. [Action] Eliminate the cause of the access failure, and try again.						
37	E3	SOFTWARE	02002020	1001	MIB value has failed to establish. Errors occurred in the "config" command.		
	An error occurred y [Explanation of me None. [Action] For details on configurat	while editing the cor essage variables] iguration errors, see ion Command Refer	figuration at MI Error Messages I ence.	B setup, and the P Displayed When I	MIB could not be set. <i>Editing the Configuration messages</i> in the		
38	E3	SOFTWARE	02002021	1001	Not all MIB configured.		
	MIB setup failed, and only some of the MIB values were set. [Explanation of message variables] None. [Action] Try setup again. If the retry still does not work, log in (for example, by using telnet) and set the MIB values.						
39	E3	SOFTWARE	02002023	1001	System failed to save the configuration while processing MIB settings.		
	While setting up M [Explanation of me None. [Action] The configuration	IIB from an SNMP r essage variables] has not been saved. S	nanager, an error Save it (for exam	occurred during	processing to save the configuration.		

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text		
	Description						
40	E3	SOFTWARE	02002024	1001	<pre><object name=""> set as <mib value=""> at the request of <ip address=""> [on VRF <vrf id="">].</vrf></ip></mib></object></pre>		
	<pre><object name=""> was set to <mib value=""> because of a request from <ip address="">. [Explanation of message variables] <object name="">: MIB object mnemonic <mib value="">: MIB value <ip address="">: IPv4 or IPv6 address of the SNMP manager <vrf id="">: VRF ID [Action] None.</vrf></ip></mib></object></ip></mib></object></pre>						
41	E3	SOFTWARE	02002025	1001	SNMP: MAC address table entry cleared at the request of <i><ip address=""></ip></i> [on VRF <i><vrf id=""></vrf></i>].		
42	The MAC address table was cleared due to a MAC address table clear request from the SNMP manager at <i><ip< i=""> address>. [Explanation of message variables] <i><ip address=""></ip></i>: IPv4 or IPv6 address of the SNMP manager <i><vrf id=""></vrf></i>: VRF ID [Action] None.</ip<></i>						
42		SOFTWARE	05001010	1001	by the configuration is different from the maximum value when this system starts.		
	 The maximum multi-path count that was set at configuration differs from the maximum value during startup of this Switch. [Explanation of message variables] None. [Action] 1. Using the show system command, check the maximum multi-path count (4, 8, or 6 for AX3800S, and 2, 4, 8, or 16 for AX3650S) displayed in Current selected unicast multipath number. 2. To change the value of 1 to configure a multi-path, for all protocols that you want to use multi-path with, set and save the maximum multi-path count in the configuration used to restart the switch. After restarting the switch, you can operate the system with the maximum multi-path count that you set in the configuration. 3. If you do not change the value of 1, return the setting of the maximum multi-path count that you set at the configuration back to the original value. 						
43	E3	SOFTWARE	0d10b002	1001	The not used IP address which a dhcp_server can lease out is not a subnet <i><subnet address=""></subnet></i> .		
	An unused IP addre [Explanation of me <i><subnet address=""></subnet></i> : [Action] Examine the maxim	ess lent by dhcp_ser essage variables] Allocation range su num number of clier	ver is not in the s bnet address. hts for the subnet	subnet <i><subnet ac<="" i=""></subnet></i>	ddress>.		

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text			
	Description							
44	E3	SOFTWARE	0d10b003	1001	The dhcp_server reused the abandoned IP address < <i>ip address</i> >.			
	dhcp_server reused the discarded IP address. [Explanation of message variables] <ip address="">: Allocation IP address. [Action] None.</ip>							
45	E3	SOFTWARE	0d10b004	1001	The IP address < <i>ip address</i> > which the dhcp_server schedule to lease out is already used by others.			
	<ip address=""> that [Explanation of me <ip address="">: IP a [Action] Check whether the</ip></ip>	dhcp_server attempt essage variables] ddress to be allocate range of lent-out IP	ed to lend has be d addresses and fi	en used already i xed allocated IP a	n other locations. addresses overlap each other.			
46	E3	SOFTWARE	0d10b005	1001	Failed in NS UPDATE by dhcp_server. : <map></map>			
	NS UPDATE proce [Explanation of me <map>: Map when [Action] Check the zone set If you are using an correct.</map>	essing by dhcp_serve essage variables] re the error occurred ting of the Switch au authentication key,	er has failed. uthentication key make sure that ti	setting, and DNS me information fo	S-server setting. or both the Switch and DNS server are			
47	E3	SOFTWARE	0d10b0e4	1001	dhcp_server: Invalid network address.			
	The DHCP server of [Explanation of me None. [Action] Delete the previous	detected an invalid c essage variables] sly-entered setting, a	onfiguration. An	invalid network	address was specified.			
48	E3	SOFTWARE	0d10b0ec	1001	dhcp_server: Invalid key.(ip dhcp key secret-hmac-md5)			
	The DHCP server detected an invalid configuration. There is an invalid key. [Explanation of message variables] None. [Action] Delete the previously-entered setting, and re-specify the setting using a correct key.							
49	E3	SOFTWARE	0d10b0ee	1001	dhcp_server: Invalid IP address. (ip dhcp excluded-address)			
	The DHCP server of [Explanation of me None. [Action] Delete the previous	detected an invalid c essage variables] sly-entered setting, a	onfiguration. An	invalid exclusion	n address range was specified. orrect exclusion address range.			

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text			
	Description							
50	E3	SOFTWARE	0e008001	1000	Virtual router <i><vrid></vrid></i> of <i><interface< i=""> <i>name></i> state has transitioned to <i><state></state></i>.</interface<></i>			
	The virtual router a [Explanation of me < <i>vrid</i> >: Virtual rou < <i>interface name</i> >: < <i>state</i> >: Virtual rou [Action] None.	active state transition essage variables] uter ID Name of interface o puter state	ed to <i><state></state></i> .	s configured				
51	E3	SOFTWARE	0e008002	1000	Virtual router <i><vrid></vrid></i> of <i><interface< i=""> <i>name></i> received VRRP packet with IP TTL not equal to 255.</interface<></i>			
	The virtual router r not 255. [Explanation of me <i><vrid></vrid></i> : Virtual rou <i><interface name=""></interface></i> : [Action] Check the remote c	received a VRRP AE essage variables] uter ID Name of interface of devices that make up	OVERTISEMEN ⁷ on which VRRP i the same virtual	Γ packet whose Τ s configured router.	TL (Time-to-Live) in the IP header was			
52	E3	SOFTWARE	0e008003	1000	Virtual router <i><vrid></vrid></i> of <i><interface< i=""> <i>name></i> received VRRP packet that length less than the length of the VRRP header.</interface<></i>			
	The virtual router r [Explanation of me <i><vrid></vrid></i> : Virtual rou <i><interface name=""></interface></i> : [Action] Check the remote of	received a VRRP AE essage variables] uter ID Name of interface of devices that make up	DVERTISEMENT on which VRRP i the same virtual	Γ packet that had s configured router.	an invalid length.			
53	E3	SOFTWARE	0e008004	1000	Virtual router <i><vrid></vrid></i> of <i><interface< i=""> <i>name></i> received VRRP packet that does not pass the authentication check.</interface<></i>			
	Authentication of a [Explanation of me < <i>vrid</i> >: Virtual rou < <i>interface name</i> >: [Action] Check the passwor	a received VRRP AD essage variables] uter ID Name of interface o d settings for the Sw	DVERTISEMENT on which VRRP i itch and the parti	Γ packet failed. s configured ner switch that m	ake up the same virtual router.			

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text		
			Desc	cription			
54	E3	SOFTWARE	0e008005	1000	Virtual router <i><vrid></vrid></i> of <i><interface< i=""> <i>name></i> received VRRP packet for which the address list does not match the locally configured list for the virtual router.</interface<></i>		
	The IP address of a settings of the Swit [Explanation of me < <i>vrid</i> >: Virtual rou < <i>interface name</i> >: [Action] Check the IP addres router.	a virtual router speci tch. essage variables] uter ID Name of interface of ss settings of virtual i	fied in a received on which VRRP i routers for the Sw	I VRRP ADVER	TISEMENT packet does not match the artner switch that make up the same virtual		
55	E3	SOFTWARE	0e008006	1000	Virtual router <i><vrid></vrid></i> of <i><interface< i=""> <i>name></i> received VRRP packet for which the advertisement interval is different than the one configured for local virtual router.</interface<></i>		
	The transmission in the Switch. [Explanation of me < <i>vrid</i> >: Virtual rou < <i>interface name</i> >: [Action] Check the transmission	nterval specified in a essage variables] uter ID Name of interface o ssion intervals for the	received VRRP on which VRRP i e Switch and the	ADVERTISEMI	ENT packet does not match the settings of at make up the same virtual router.		
56	E3	SOFTWARE	0e008007	1000	VRRP packet received with unsupported version number.		
	The VRRP version specified in a received VRRP ADVERTISEMENT packet does not match the VRRP v the Switch. [Explanation of message variables] None. [Action] When constructing the Switch with a virtual router, set the VRRP version of the partner switch to 2 for IP- for IPv6 respectively.						
57	E3	SOFTWARE	0e008008	1000	Virtual router <i><vrid></vrid></i> of <i><interface< i=""> <i>name></i> priority was changed to <i><priority></priority></i>.</interface<></i>		
	name > priority was changed to The VRRP priority was changed to <priority>. [Explanation of message variables] <vrid>: Virtual router ID <interface name="">: Name of interface on which VRRP is configured <priority>: Virtual router priority [Action] Name</priority></interface></vrid></priority>						

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text			
	Description							
58	E3	SOFTWARE	0e008012	1000	Virtual router <i><vrid></vrid></i> of <i><interface< i=""> <i>name></i> was finished.</interface<></i>			
	The virtual router of [Explanation of me <i><vrid></vrid></i> : Virtual rou <i><interface name=""></interface></i> : [Action] None.	ended. essage variables] uter ID Name of interface of	on which VRRP i	s configured				
59	E3	SOFTWARE	0e008015	1000	Virtual router <i><vrid></vrid></i> of <i><interface< i=""> <i>name></i> received VRRP packet with IP HopLimit not equal to 255.</interface<></i>			
	The virtual router r [Explanation of me < <i>vrid</i> >: Virtual rou < <i>interface name</i> >: [Action] Check the remote of	received a VRRP AE essage variables] uter ID Name of interface of levices that make up	OVERTISEMEN' on which VRRP i the same virtual	Г packet whose F s configured router.	IopLimit in the IP header was not 255.			
60	E3	SOFTWARE	0e008016	1000	Virtual router <i><vrid></vrid></i> of <i><interface< i=""> <i>name></i> priority changed to <i><priority></priority></i>, because error detected on line by vrrp-polling.</interface<></i>			
	VRRP polling dete [Explanation of me < <i>vrid</i> >: Virtual rou < <i>interface name</i> >: < <i>priority</i> >: Virtua [Action] If switching occurs	ected a line fault, and essage variables] ater ID Name of interface of l router priority s frequently, adjustin	the VRRP prior on which VRRP i g the configuration	ity was changed t s configured on might solve th	o < <i>priority>.</i> e problem.			
61	E3	SOFTWARE	0e008017	1000	<interface name=""> assigned virtual router <vrid> is down because of error detected by track.</vrid></interface>			
	The interface in which VRRP is set is down because the tracking functionality detected a fault. [Explanation of message variables] <interface name="">: Name of interface on which VRRP is configured <vrid>: Virtual router ID [Action] If exvitching occurs frequently, adjusting the configuration might solve the problem</vrid></interface>							
62	E3	SOFTWARE	0e008018	1000	<interface name=""> assigned virtual router <vrid> is up because of recovery detected by track.</vrid></interface>			
	detected by track. The interface in which VRRP is set was brought up because the tracking functionality detected recovery from a fault. [Explanation of message variables] <interface name="">: Name of interface on which VRRP is configured <vrid>: Virtual router ID [Action] None.</vrid></interface>							

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text				
			Des	cription					
63	E3	SOFTWARE	0e008019	1000	Critical interface of <i><interface name=""></interface></i> is down.				
	A fault-monitoring [Explanation of mo <i><interface name=""></interface></i> [Action] None.	g interface is down. essage variables] E Interface name of a	fault-monitorinț	g target.					
64	E3	SOFTWARE	0e008020	1000	Critical interface of <i>< interface name></i> is up.				
	A fault-monitoring [Explanation of mo <i><interface name=""></interface></i> [Action] None.	A fault-monitoring interface is up. [Explanation of message variables] < <i>interface name</i> >: Interface name of a fault-monitoring target. [Action] None.							
65	E3	SOFTWARE	0e008025	1000	Critical interface of <i><interface type=""></interface></i> <i><interface number=""></interface></i> is down.				
	A fault-monitoring [Explanation of me <interface type="">:: • gigabitethe • tengigabite • fortygigabi • port-channe <interface number<br="">• <nif no.="">/<pre>portfortygigabiteth • <channel grout<br="">[Action] None.</channel></pre></nif></interface></interface>	g interface is down. essage variables] Interface that is spec rnet: 10BASE-T/10 thernet: 10GBASJ tethernet: 40GBA 1: channel-group r>: Interface number prt no.>: NIF number ernet) pnumber>: Channe	ified as the fault 00BASE-TX/100 E-R ASE-R specified for the r/port number (F l group number (-monitoring inter 00BASE-T, 100B e failure monitorin for gigabitetherne (For port-channel	face. ASE-FX, 1000BASE-X ng interface et, tengigabitethernet, or)				
66	E3	SOFTWARE	0e008026	1000	Critical interface of <i><interface type=""></interface></i> <i><interface number=""></interface></i> is up.				
	E3 SOFTWARE 0e008026 1000 Critical interface of <interface type=""> A fault-monitoring interface is up. [Explanation of message variables] <interface type="">: Interface that is specified as the fault-monitoring interface. • gigabitethernet: 10BASE-T/100BASE-TX/1000BASE-T, 100BASE-FX, 1000BASE-X • tengigabitethernet: 10GBASE-R • fortygigabitethernet: 10GBASE-R • fortygigabitethernet: 40GBASE-R • port-channel: channel-group <interface number="">: Interface number specified for the failure monitoring interface • <nif no.="">/<port no.="">: NIF number/port number (For gigabitethernet, tengigabitethernet) • <channel group="" number="">: Channel group number (For port-channel) [Action] None</channel></port></nif></interface></interface></interface>								

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text		
			Desc	ription	I		
67	E3	SOFTWARE	0e008027	1000	Critical interface of <i><interface< i=""> <i>number></i> is up. But priority not changed because of different interface type.</interface<></i>		
	A fault-monitoring [Explanation of me <i><interface i="" number<=""> • <i><nif no.="">/<pc< i=""> [Action] None.</pc<></nif></i></interface></i>	interface is up at mi essage variables] >: Interface number ort no.>: NIF numbe	xed speeds. The specified for the r/port number	priority did not c failure monitorii	hange. ng interface		
68	E3	SOFTWARE	0f306003 0f406003	1001	The multicast routing program will restart, because the multicast (PIM) max-interfaces configuration changed.		
	IP multicast routing was changed by the [Explanation of me None. [Action] None.	g program will resta e configuration com ssage variables]	rt because the IP nand ip pim ma	multicast (PIM) ax-interface.	information of the running configuration		
69	E3	SOFTWARE	0f406004	1001	IPv4 multicast routing entry had exceeded maximum value <i><number></number></i> for limit, entry has discarded[on VRF <i><vrf id=""></vrf></i>].		
	 An entry was discarded because the items of IPv4 multicast routing information exceed the limit maximum value of <<i>number></i> [Explanation of message variables] <i>number></i>: Maximum number of items of IPv4 multicast routing information <i>vrf id></i>: VRF ID [Action] Unauthorized access might have been occurred. Check if more than the expected number of additional requests for multicast routing information were generated. The number of items of multicast routing information exceeds the limit maximum value. Check the configuration (ip pim mroute-limit command). Check the network configuration and recombined the configuration of the Switch 						
70	E3	SOFTWARE	0f406005	1001	IPv4 multicast routing entry has recovered from the state of discard[on VRF < <i>vrf id</i> >].		
	IPv4 multicast rout [Explanation of me < <i>vrf id</i> >: VRF ID [Action] None.	ing information has essage variables]	recovered from t	he state in which	entries were discarded.		

#	Event level	Event location	Message ID	Added info Highest 4	Message text		
				digits			
			Desc	cription			
71	E3	SOFTWARE	0f406006	1001	IGMP source-limit <i><number></number></i> has been exceeded on interface <i><interface< i=""> <i>name></i> [of VRF <i><vrf id=""></vrf></i>] due to over-request. Request have been discarded.</interface<></i>		
	A request was disc: limit value of <i><nui< i=""> [Explanation of me <i><number></number></i>: IGMP <i><interface name=""></interface></i>: <i><vrf id=""></vrf></i>: VRF ID [Action] Unauthorized acce: IGMP group. Check if more IGMP group.</nui<></i>	arded because the int <i>nber</i> >. essage variables] group limit value Interface name ss might have been of than the expected nu figuration (ip igmp york configuration an	erface <i><interface< i=""> occurred. umber of addition source-limit nd reconsider the</interface<></i>	e name> received al requests were command). configuration of	d a request that exceeded the IGMP source generated for sources belonging to the `the Switch.		
72	E3	SOFTWARE	0f406007	1001	IGMP source-limit on requests on interface <i><interface name=""></interface></i> [of VRF <i><vrf id=""></vrf></i>] has recovered from state of discard.		
	The interface <i><inte< i=""> discarded. [Explanation of me <i><interface name=""></interface></i>: <i><vrf id=""></vrf></i>: VRF ID [Action] None.</inte<></i>	erface name> has red essage variables] Interface name	te in which sourc	es belonging to IGMP group were			
73	E3	SOFTWARE	0f406008	1001	IGMP group-limit <i><number></number></i> has been exceeded on interface <i><interface< i=""> <i>name></i> [of VRF <i><vrf id=""></vrf></i>] due to over-request. Request have been discarded.</interface<></i>		
	 The interface <i><interface name=""></interface></i> received a request that exceeded the IGMP group limit value of <i><number></number></i>. A request was discarded. [Explanation of message variables] <i><number></number></i>: IGMP group limit value <i><interface name=""></interface></i>: Interface name <i><vrf id=""></vrf></i>: VRF ID [Action] Unauthorized access might have been occurred. Check if more than the expected number of additional requests for the IGMP group were generated. Check the configuration (ip igmp group-limit command). Check the network configuration and reconsider the configuration of the Switch. 						

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text			
			Desc	cription				
74	E3	SOFTWARE	0f406009	1001	IGMP group-limit on requests on interface <i><interface name=""></interface></i> [of VRF <i><vrf id=""></vrf></i>] has recovered from state of discard.			
	The interface <i><inte< i=""> [Explanation of me <i><interface name=""></interface></i>: <i><vrf id=""></vrf></i>: VRF ID [Action] None.</inte<></i>	erface name> has red essage variables] Interface name	covered from the	state in which IC	GMP groups were discarded.			
75	E3	SOFTWARE	0f40600a	1001	IPv4 multicast forwarding entry had exceeded maximum value <i><number></number></i> for limit, entry has discarded[on VRF <i><vrf id=""></vrf></i>].			
	<number>. [Explanation of me <number>: Maxim <vrf id="">: VRF ID [Action] An unauthorized ad • Check if more of • Check if a nega • Check the conf • Check the netw</vrf></number></number>	essage variables] num number of IPv4 ccess might have occ than the expected nu multicast forwardin ative cache is genera iguration (ip pim p ork configuration and	multicast forwar curred. mber of additiona g entry items exc ted, due to recep mcache-limit nd reconsider the	ding entry items al requests for mu ceeds the maximu tion of multicast command). configuration of	ulticast forwarding entries were generated. Im value. packets that are not forwarded. The Switch.			
76	E3	SOFTWARE	0f40600b	1001	IPv4 multicast forwarding entry has recovered from the state of discard[on VRF < <i>vrf id</i> >].			
	IPv4 multicast forwarding entries have recovered from the discard state. [Explanation of message variables] <vrf id="">: VRF ID [Action] None.</vrf>							
77	E3	SOFTWARE	11010001	1001	The list number <i><policy list="" no.=""></policy></i> of the policy base routing changed to the sequence number <i><sequence></sequence></i> .			
	The route with price [Explanation of me <i><policy list="" no.=""></policy></i> : <i><sequence></sequence></i> : Prior [Action] None.	ority <i><sequence></sequence></i> was essage variables] the list number of th ity of routing inform	as selected in the e policy-based ro nation in the list	list number <i><pol< i=""> outing</pol<></i>	<i>licy list no.</i> > of the policy-based routing.			

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text	
			Desc	cription	·	
78	E3	SOFTWARE	11010002	1001	The list number <i><policy list="" no.=""></policy></i> of the policy base routing changed to the default operation.	
	The default was see [Explanation of me <i><policy list="" no.=""></policy></i> : t [Action] None.	lected in the list num ssage variables] he list number of the	ber <i><policy i="" i<="" list=""></policy></i>	no.> of the policy	y-based routing.	
79	E3	SOFTWARE	1920a003	1001	The multicast routing program will restart, because the multicast (PIM6) max-interfaces configuration changed.	
	The IPv6 multicast routing program will restart because the IPv6 multicast (PIM6) information of the run configuration was changed by the configuration command ipv6 pim max-interface. [Explanation of message variables] None. [Action] None.					
80	E3	SOFTWARE	1920a005	1001	IPv6 multicast routing entry had exceeded maximum value <i><number></number></i> for limit, entry has discarded[on VRF <i><vrf id=""></vrf></i>].	
	 An entry was discarded because the IPv6 multicast routing information exceeds the limit maximum value of <<i>number></i> [Explanation of message variables] <i>number></i>: Maximum number of items of IPv6 multicast routing information <i>vrf id></i>: VRF ID [Action] Unauthorized access might have been occurred. Check if more than the expected number of additional requests for multicast routing information were generated. The number of items of multicast routing information exceeds the limit maximum value. Check the configuration (ipv6 pim mroute-limit command). 					
81	E3	SOFTWARE	1920a006	1001	IPv6 multicast routing entry has recovered from the state of discard[on VRF < <i>vrf id</i> >].	
	IPv6 multicast rout [Explanation of me <i><vrf id=""></vrf></i> : VRF ID [Action] None.	ing information has ssage variables]	recovered from s	state in which ent	ries were discarded.	

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text			
	Description							
82	E3	SOFTWARE	1920a007	1001	IPv6 multicast forwarding entry had exceeded maximum value <i><number></number></i> for limit, entry has discarded[on VRF <i><vrf id=""></vrf></i>].			
	 An entry was discarded because the IPv6 multicast forwarding entry items exceeded the maximum value <<i>number</i>> [Explanation of message variables] <<i>number</i>>: Maximum number of IPv6 multicast forwarding entry items <<i>vrf id</i>>: VRF ID [Action] An unauthorized access might have occurred. Check if more than the expected number of additional requests for multicast forwarding entries were generated The number of multicast forwarding entry items exceeds the maximum value. Check if a negative cache is generated, due to reception of multicast packets that were not forwarded. Check the configuration (ipv6 pim mcache-limit command). Check the network configuration and reconsider the configuration of the Switch. 							
83	E3	SOFTWARE	1920a008	1001	IPv6 multicast forwarding entry has recovered from the state of discard[on VRF < <i>vrf id</i> >].			
	IPv6 multicast forw [Explanation of me < <i>vrf id</i> >: VRF ID [Action] None.	varding entries have essage variables]	recovered from t	the discard state.				
84	E3	SOFTWARE	1f01b024	1001	IPv6 DHCP packet discarded by relay agent, because prefix entry exceeded the maximum.			
	 The relay agent discarded IPv6 DHCP packets because the number of prefix entries exceeded the maximum number. After output of this message, output of the same message is suppressed for the next five minutes. [Explanation of message variables] None. [Action] 1. Use the show ipv6 dhcp relay binding command to check the capacity client count. 2. If the capacity client count for the Switch exceeds the capacity limit, reexamine and then change the capacity client count. If you want to check the number of IPv6 DHCP packets that have actually been discarded, execute the show ipv6 dhcp relay binding command to check the items in lacest prefer prefe							
85	E3	SOFTWARE	1f01b025	1001	IPv6 DHCP relay information defined by the configuration file is ignored, since IPv6 DHCP relay function license is not given.			
	The IPv6 DHCP re [Explanation of me None. [Action] If you are using an the switch.	elay information set i essage variables] IPv6 DHCP relay, se	n the startup con t the option licen	figuration file is se OP-DH6R wit	invalid because a license was not granted.			

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text			
			Desc	cription				
86	E3	SOFTWARE	25090003	1001	System changes to the schedule power control because it became schedule time.			
	The time for the po [Explanation of mo None. [Action] None.	ower-control schedul essage variables]	e has started, and	the scheduled p	ower control is enabled.			
87	E3	SOFTWARE	25090004	1001	System changes from the schedule power control because it ended schedule time.			
	The time for the po [Explanation of me None. [Action] None.	ower-control schedul essage variables]	e has ended, and	the scheduled po	ower control is disabled.			
88	E3	SOFTWARE	25090005	1001	The schedule power control is enable because it is schedule time.			
	The device is in the [Explanation of me None. [Action] None.	e scheduled time ran essage variables]	ge, and the schec	luled power conti	rol is enabled.			
89	E3	SOFTWARE	25090006	1001	The schedule power control is disable because it is not schedule time.			
	The device is in the normal time range, and the scheduled power control is disabled. [Explanation of message variables] None. [Action] None.							
90	E3	SOFTWARE	25090007	1001	The schedule power control is disable because system started by reset switch on schedule time.			
	Even though the sy and the scheduled [Explanation of me None. [Action] None.	stem is within the sc power control is disa essage variables]	heduled time ran ibled.	ge, the system ha	s been started by using the RESET button,			

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text	
		I	Desc	cription	1	
91	E3	SOFTWARE	25090008	1001	The schedule power control continues disable because set power-control-schedule disable executed.	
	The scheduled time the schedule-disab [Explanation of me None. [Action] None.	e for power control h led mode was set by essage variables]	as been reached. using the power-	The scheduled po control-schedule	wer control mode is still disabled because command.	
92	E3	SOFTWARE	25090009	1001	System changes to the schedule power control by set power-control-schedule command.	
	The scheduled pow power-control- [Explanation of me None. [Action] None.	ver control has been schedule. essage variables]	started by using t	he configuration	command set	
93	E3	SOFTWARE	2509000a	1001	System changes from the schedule power control by set power-control-schedule command.	
	The scheduled pow power-control- [Explanation of me None. [Action] None.	ver control has been schedule. essage variables]	stopped by using	the configuration	n command set	
94	E3	SOFTWARE	2509000b	1001	The schedule power control is disable because set power-control-schedule disable executed.	
	The scheduled time has been reached. The scheduled power control is disabled because the schedule-disabled was set by using the set power-control-schedule command. [Explanation of message variables] None. [Action] None.					
95	E3	SOFTWARE	3000b042	1001	Discard of packets occurred by a reception rate limit of DHCP packets and ARP packets.	
	Packets were disca [Explanation of me None. [Action] None.	rded due to the recepessage variables]	ption rate limit fo	r DHCP packets	and ARP packets.	

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text	
			Desc	cription		
96	E3	SOFTWARE	3000b043	1001	Failed in binding database generate by binding entry exceeded(<i><mac< i=""> address>/<i><vlan id="">/<ip address=""></ip></vlan></i>).</mac<></i>	
	Generation of the binding database failed because of insufficient database entries. [Explanation of message variables] <mac address="">/<vlan id="">/<ip address="">: DHCP client terminal information • <mac address="">: MAC address • <vlan id="">: VLAN ID • <ip address="">: IP address [Action] The capacity limit of the switch was exceeded. Review the system configuration. If this message is displayed dure address of a static entry delate the relevant static entry</ip></vlan></mac></ip></vlan></mac>					
97	E3	SOFTWARE	3000b044	1001	The binding database can't be restored(<i><reason></reason></i>).	
	The binding databa [Explanation of me < <i>reason</i> >: Reason • File is not foun • May be broken • The data is not [Action] Check the storage of	ase could not be restonces essage variables] for the failure ad. (A file was not fo a. (The binding datab saved. (There is no destination of the bin	ored. ound.) pase might be cor restorable data.) nding database.	rupted.)		
98	E3	SOFTWARE	3000b045	1001	The binding database can't be stored(<i><reason></reason></i>).	
	The binding database could not be stored. [Explanation of message variables] < <i>reason</i> >: Reason for the failure • File is not writing. (Writing to the file is not possible.) [Action] Check the storage destination of the binding database					
99	E3	SOFTWARE	3000b046	1001	The binding database was restored from <i><url></url></i> .	
	The binding database could not be restored. [Explanation of message variables] <url>: The binding database being read • previous process: The process before the restart • flash: Internal flash memory • mc: MC [Action]</url>					

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text			
	Description							
100	E3	SOFTWARE	3000b047	1001	Failed in source guard setting by DHCP snooping (<i><mac address<="" i="">>/<i><vlan i="" id<="">>/ <i><ip address<="" i="">>/<i><nif i="" no.<="">>/<i><port i="" no.<="">>).</port></i></nif></i></ip></i></vlan></i></mac></i>			
The terminal filter setting failed. [Explanation of message variables] <mac address="">/<vlan id="">/<ip address="">/<nif no.="">/<port no.="">: Terminal filter setting information • <mac address="">: MAC address • <vlan id="">: VLAN ID • <ip address="">: IP address • <nif no.="">: NIF number • <port no.="">: Port number [Action] The capacity limit of the switch was exceeded. Review the system configuration.</port></nif></ip></vlan></mac></port></nif></ip></vlan></mac>								
101	E4	SOFTWARE	0e008021	1000	The VRRP virtual MAC address entry can't be registered at hardware tables.			
	The virtual MAC address of VRRP could not be set for the hardware. [Explanation of message variables] None. [Action] 1. Change the virtual router ID to a different value. 2. Change the VLAN ID of the VLAN for setting the virtual router to a different value.							
102	E4	SOFTWARE	20160002	1001	The MAC-VLAN MAC Address entry can't be registered at hardware tables.			
	The MAC address that was set with the MAC VLAN configuration command could not be set for the hardw [Explanation of message variables] None. [Action] Review the capacity limit. However, depending on the hardware specification, the setting to the maximum of the capacity limit might available							
103	E4	SOFTWARE	20400003	1001	The 802.1X Supplicant MAC address can't be registered at hardware tables.			
	Can't be registered at hardware ta Can't be registered at hardware ta The MAC address of a terminal, which had been successfully authenticated with IEEE 802.1X, could not be the hardware table. [Explanation of message variables] None. [Action] Review the capacity limit. However, depending on the hardware specification, the setting to the maximum of the capacity limit might available.							

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text			
		<u> </u>	Dese	cription				
104	E4	SOFTWARE	20400004	1001	The 802.1X Supplicant MAC address of MAC VLAN can't be registered at hardware tables.			
	The MAC address could not be set in [Explanation of me None. [Action] Review the capacit However, dependin available.	of a terminal, which the hardware table. essage variables] ey limit. ng on the hardware s	had been succes	sfully authenticat	ted at a MAC VLAN with IEEE 802.1X,			
105	E4	SOFTWARE	20420002	1001	The wad MAC Address entry can't be registered at hardware tables.			
	Using the Web authentication function, the MAC address of a terminal could not be set in the hardware table. [Explanation of message variables] None. [Action] Review the capacity limit. However, depending on the hardware specification, the setting to the maximum of the capacity limit might not be available.							
106	E4	SOFTWARE	20420003	1001	The wad MAC Address entry failed in the deletion.			
	Using the Web auth hardware table. [Explanation of me None. [Action] Restart L2MAC m	hentication function, essage variables] anager program (L2)	the MAC addres	ss of a registered	terminal could not be deleted from the			
107	E4	SOFTWARE	20430002	1001	The macauthd MAC address entry can't be registered at hardware tables.			
	Using MAC authentication, the MAC address of a terminal could not be set in the hardware table. [Explanation of message variables] None. [Action] Review the capacity limit. However, depending on the hardware specification, the setting to the maximum of the capacity limit might not be available							
108	E4	SOFTWARE	20430003	1001	The macauthd MAC address entry failed in the deletion.			
	Using MAC authentication, the MAC address of a registered terminal could not be deleted from the hardware table. [Explanation of message variables] None. [Action] Restart L2MacManager.							

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text		
			Desc	ription			
109	E4	SOFTWARE	27000013	0000	System accounting failed (<i><number></number></i> times).		
	 Accounting for the login and logout commands failed. This message appears at intervals when accounting fails. If accounting succeeds even once or no failure occurs one hour, the failure count is cleared. [Explanation of message variables] <number>: Count of consecutive failures</number> [Action] 1. Check if the configurations for RADIUS server or TACACS+ have been set. 2. Check the configurations to make sure that the IP address for RADIUS server or TACACS+ server is correct. 3. Check the configurations to make sure that the port number for RADIUS server or TACACS+ server is correct. 						
110	E7	SOFTWARE	00003101	1000	Memory exhausted. Possibly too many users logged in, or too many sessions(via ftp,http,) established.		
	 There is not enough CPU memory. [Explanation of message variables] None. [Action] 1. If many users are logged in, log out all but the most essential users. 2. If there is a lot of use from ftp, disconnect all but the most essential connections. 3. If there is too much access from the network management device, limit the amount of access to the minimum necessary. 4. If the system does not recover after any one of three methods above, the capacity limit of the Switch might not be satisfied. See <i>3.2 Capacity limit</i> in the manual <i>Configuration Guide Vol. 1 For Version 11.10</i> and review the network configuration 						
111	E7	SOFTWARE	01100001 01200001 01300001 01400001 01600001 01700001 01900001 01910001 03000001 04000001 06100001 06200001 06300001 06400001 06500001 09100001 09200001 09300001 09500001 09500001 09700001	1001	Software failure occurred during operation.		

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text					
		Description								
	 An error occurred in the software during operation. [Explanation of message variables] None. [Action] Normal operation might not be possible. Take the following actions: 1. Check the log by executing the show logging command. If another problem is indicated in the log, take appropriate action according to the error message. 2. Use the reload command to restart the device. 3. After you use the reload command to restart the system, if the same problem occurs, replace the device. 									
112	Ε7	SOFTWARE	01100002 01200002 01300002 01400002 01600002 01700002 01900002 01900002 04000002 05000002 06100002 06200002 06300002 06400002 06500002 07000002 09100002 09200002 09300002 09400002 09500002	1001	Software failure occurred during operation.					
	An error occurred i [Explanation of me None. [Action] Normal operation r 1. Check the log b appropriate act	in the software durin essage variables] night not be possible by executing the sho ion according to the	g operation. e. Take the follow w logging com error message.	ving actions: mand. If another	problem is indicated in the log, take					
	 Use the reload After you use the second second	d command to restar he reload comman	t the device. d to restart the sy	stem, if the same	e problem occurs, replace the device.					

#	Event level	Event location	Message ID	Added info Highest 4	Message text			
				digits				
			Desc	ription				
113	E7	SOFTWARE	01100004 01200004 01300004 01400004 01600004 01700004 01800004 01900004 01910004 03000004 04000004 06200004 06200004 06300004 06500004 06500004 07000004 09100004 09200004 09300004 09500004	1001	Software failure occurred during operation.			
	O9600004 An error occurred in the software during operation. [Explanation of message variables] None. [Action] Normal operation might not be possible. Take the following actions: 1. Check the log by executing the show logging command. If another problem is indicated in the log, take appropriate action according to the error message. 2. Use the reload command to restart the device. 3. After you use the reload command to restart the system, if the same problem occurs, replace the device.							
114	E7	SOFTWARE	02002001	1001	snmpd aborted.			
The SNMP agent program (snmpd) was forced to stop. [Explanation of message variables] None. [Action] Collect the error save information (snmpd.core file under /usr/var/core), log information, and the configuration of the SNMP agent program. For details about how to collect the information, see the <i>Troubles. Guide</i> . The SNMP agent program should restart automatically. If it does not restart or if restarts occur frequently, resswitch.					ore), log information, and the et the information, see the <i>Troubleshooting</i> rt or if restarts occur frequently, restart the			

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text		
		1	Desc	cription			
115	E7	SOFTWARE	02002003	1001	rmon aborted.		
	The RMON program (rmon) was forced to stop. [Explanation of message variables] None. [Action] Collect the error save information (rmon.core file under /usr/var/core), log information, and the configuration of the RMON program. For details about how to collect the information, see the <i>Troubleshooting Guide</i> . The RMON program should restart automatically. If it does not restart or if restarts occur frequently, restart the switch.						
116	E7	SOFTWARE	05001001	1001	Rtm aborted [:< <i>error string</i> >].		
	 The unicast routing program (rtm) was forced to stop. [Explanation of message variables] <error string="">: Error cause</error> Cannot allocate memory: The program was forced to stop because of lack of memory. Blank: The program was forced to stop because of other causes. [Action] If he cause of the forced stop is lack of memory: The reason is that the memory area is full. Check whether the system has exceeded the usage limit (see 3.2 Capacity limit in the manual Configuration Guide Vol. 1 For Version 11.10). If the usage is within the limit, carry out the action for when the cause of the forced stop is something other than lack of memory: If the cause of the forced stop is something other than lack of memory: (1) Check whether other log messages related to unicast routing protocol (Log type: RTM) have been issued. Then, carry out the appropriate actions. (2) The unicast routing program should restart automatically. If it does not restart or if restarts occur frequently, restart the switch 						
117	E7	SOFTWARE	0d00b001	1001	dhcpd aborted.		
	The DHCP relay pr memory, aborted th [Explanation of me None. [Action] The DHCP relay pr switch.	rogram (dhcpd) was te operation, and for essage variables] rogram should restar	forced to stop. T ced the program t automatically. I	The DHCP relay of to stop.	letected an anomaly such as a lack of rt or if restarts occur frequently, restart the		
118	Е7	SOFTWARE	0d10b001	1001	dhcp_server aborted.		
	The DHCP server program (dhcp_server) was forced to stop. The DHCP server detected an anomaly such as a lack of memory, aborted the operation, and forced the program to stop. [Explanation of message variables] None. [Action] The DHCP server program should restart automatically. If it does not restart or if restarts occur frequently, restart the switch.						
119	E7	SOFTWARE	0e008014	1000	vrrpd aborted.		
	The VRRP program [Explanation of me None. [Action] The VRRP program switch.	n (vrrpd) was forced essage variables] n should restart auto	to stop.	bes not restart or	if restarts occur frequently, restart the		

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text		
		L	Desc	ription			
120	E7	SOFTWARE	0f406001	1001	mrp aborted.		
	 The IP multicast routing program was forced to stop. [Explanation of message variables] None. [Action] 1. Check whether other log messages related to the IP multicast routing program (log type: MRP) were issued. Then, carry out the appropriate actions. 2. The IP multicast routing program should restart automatically. If it does not restart or if restarts occur frequently, restart the switch. 						
121	E7	SOFTWARE	11109901	1001	policyd aborted.		
	The policy-based program (policyd) was forced to stop. [Explanation of message variables] None. [Action] Collect the error save information (policyd.core file under /usr/var/core), log information, and the configuration of the policy-based program. For details about how to collect the information, see the <i>Troubleshooting</i> <i>Guide</i> . The policy-based program should restart automatically. If it does not restart or if restarts occur frequently, restart the switch.						
122	E7	SOFTWARE	1920a002	1001	mr6 aborted.		
	 IPv6 multicast rout [Explanation of me None. [Action] 1. Check whether Then, carry out 2. The IPv6 multi frequently, rest 	ing program was for essage variables] other log messages the appropriate acti cast routing program art the switch.	related to stop. related to the IPv ons. a should restart a	76 multicast routi utomatically. If it	ng program (log type: MR6) were issued. does not restart or if restarts occur		
123	E7	SOFTWARE	1e001000	1001	flowd aborted.		
	Dr For Function Fourier Fourier Fourier The flow statistics agent program (flowd) was forced to stop. [Explanation of message variables] None. [Action] The flow statistics agent program should restart automatically. If it does not restart or if restarts occur frequently, restart the switch.						
124	E7	SOFTWARE	1f00b011	1001	dhcp6_server aborted.		
	The IPv6 DHCP se The IPv6 DHCP se to stop. [Explanation of me None. [Action] The IPv6 DHCP se restart the switch.	erver program (dhepo rver detected an anor essage variables] erver program should	6_server) was for naly such as a lac l restart automati	ced to stop. k of memory, abo cally. If it does no	rted the operation, and forced the program		

#	Event level	Event location	Message ID	Added info Highest 4	Message text		
			Deer	digits			
		~ ~ ~ ~ ~ ~ ~	Desc				
125	E7	SOFTWARE	1f01b021	1001	dhcp6_relay aborted.		
	The IPv6 DHCP relay program (dhcp6_relay) was forced to stop. The IPv6 DHCP relay detected an anomaly such as a lack of memory, aborted the operation, and forced the program to stop. [Explanation of message variables] None. [Action] The IPv6 DHCP relay program should restart automatically. If it does not restart or if restarts occur frequently, restart the switch						
126	E7	SOFTWARE	20110000	1001	stpd aborted		
	The Spanning Tree program (STPd) was forced to stop. [Explanation of message variables] None. [Action] Collect the error save information (stpd.core file under /usr/var/core), log information, and the configuration of the Spanning Tree program. For details about how to collect the information, see the <i>Troubleshooting Guide</i> . The Spanning Tree program should restart automatically. If it does not restart or if restarts occur frequently, restart the switch.						
127	E7	SOFTWARE	20120001	1001	LAd aborted		
	The link aggregation program (LAd) was forced to stop. [Explanation of message variables] None. [Action] Collect the error save information (LAd. core file under /usr/var/core), log information, and the configuration of the link aggregation program. For details about how to collect the information, see the <i>Troubleshooting Guide</i> . The link aggregation program should restart automatically. If it does not restart or if restarts occur frequently, restart the switch						
128	E7	SOFTWARE	20130001	1001	gsrpd aborted.		
	The GSRP program (gsrpd) was forced to stop. [Explanation of message variables] None. [Action] Collect the error save information (gsrpd.core file under /usr/var/core), log information, and the configuration of the GSRP program. For details about how to collect the information, see the <i>Troubleshooting Guide</i> . The GSRP program should restart automatically. If it does not restart or if restarts occur frequently restart the switch						
129	E7	SOFTWARE	20140001	1001	lldpd aborted.		
	The LLDP program (lldpd) was forced to stop. [Explanation of message variables] None. [Action] The LLDP program should restart automatically. If it does not restart or if restarts occur frequently, restart the switch.						
130	E7	SOFTWARE	20150001	1001	oadpd aborted.		
	Dr Sof Twikke 20150001 Tool output aborted. The OADP program (oadpd) was forced to stop. [Explanation of message variables] None. [Action] The OADP program should restart automatically. If it does not restart or if restarts occur frequently, restart the switch						

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text		
	Description						
131	E7	SOFTWARE	20160001	1001	L2MacManager aborted.		
	L2MAC manager program (L2MacManager) was forced to stop. [Explanation of message variables] None. [Action] The L2MAC manager program should restart automatically. If it does not restart or if restarts occur frequently, restart the switch.						
132	E7	SOFTWARE	20170001	1001	axrpd aborted.		
	The Ring Protocol program (axrpd) was forced to stop. [Explanation of message variables] None. [Action] Collect the error save information (axrpd.core file under /usr/var/core), log information, and the configuration of the Ring Protocol program. For details about how to collect the information, see the <i>Troubleshooting Guide</i> . The Ring Protocol program should restart automatically. If it does not restart or if restarts occur frequently, restart the switch.						
133	E7	SOFTWARE	20400001	1001	dot1xd aborted		
	The IEEE 802.1X program (dot1xd) was forced to stop. [Explanation of message variables] None. [Action] The IEEE 802.1X program should restart automatically. If it does not restart or if restarts occur frequently, restart the switch.						
134	E7	SOFTWARE	20420001	1001	wad aborted.		
	The Web authentication program (wad) was forced to stop. [Explanation of message variables] None. [Action] The Web authentication program should restart automatically. If it does not restart or if restarts occur frequently, restart the switch						
135	E7	SOFTWARE	20430001	1001	macauthd aborted.		
	The MAC authentication program was forced to stop. [Explanation of message variables] None. [Action] The MAC authentication program should restart automatically. If it does not restart or if restarts occur frequently, restart the switch						
136	E7	SOFTWARE	20700001	1001	efmoamd aborted.		
	E/ SOFTWARE 20/00001 1001 etmoamd aborted. The IEEE 802.3ah/OAM program (efmoamd) was forced to stop. [Explanation of message variables] None. [Action] The IEEE 802.3ah/OAM program should restart automatically. If it does not restart if restarts occur frequently, restart the switch.						

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text			
	Description							
137	E7	SOFTWARE	20800001	1001	121dd aborted.			
	The L2 loop detection program (l2ldd) was forced to stop. [Explanation of message variables] None. [Action] The L2 loop detection manager program should restart automatically. If it does not restart or if restarts occur frequently, restart the switch.							
138	E7	SOFTWARE	20900001	1001	cfmd aborted.			
	The CFM program (cfmd) was forced to stop. [Explanation of message variables] None. [Action] Collect the error save information (cfmd.core file under /usr/var/core), log information, and the configuration of the CFM program. For details about how to collect the information, see the <i>Troubleshooting Guide</i> . The CFM program should restart automatically. If it does not restart or if restarts occur frequently, restart the switch.							
139	E7	SOFTWARE	21000001	1001	snoopd aborted.			
	The IGMP snooping/MLD snooping program (snoopd) was forced to stop. [Explanation of message variables] None. [Action] The IGMP snooping/MLD snooping program should restart automatically. If it does not restart or if restarts occur frequently, restart the switch							
140	E7	SOFTWARE	25300000	1001	nimd aborted.			
	The network interface manager program (nimd) was forced to stop. [Explanation of message variables] None. [Action] The network interface manager program should restart automatically. If it does not restart or if restarts occur frequently restart the switch							
141	E7	SOFTWARE	27000001	0000	accountingd aborted.			
	E7 SOFTWARE 27000001 0000 accountingd aborted. The accounting program (accountingd) was forced to stop. [Explanation of message variables] None. [Action] Collect the error save information (acctd.core file under /usr/var/core), log information, and the configuration of the accounting program. For details about how to collect the information, see the <i>Troubleshooting Guide</i> . The accounting program should restart automatically. If it does not restart or if restarts occur frequently, restart the switch							

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text		
Description							
142	E7	SOFTWARE	27000011	0000	System accounting temporary stopped because accounting event congestion detected.		
	 Accounting event transmission is congested, and accounting of the login and logout commands was stopped temporarily. [Explanation of message variables] None. [Action] Using the show accounting command, make sure that the RADIUS server or TACACS+ server is not issuing errors. Check the configuration settings for the RADIUS server or TACACS+ server that is issuing errors. Additionally, make sure that the configurations on the RADIUS server or TACACS+ server side are correct. The congested state will be resolved when any of the following occur: 1. When the number of transmission queue accounting events decreases to 256, after transmission with the RADIUS server or TACACS+ server or TACACS+ server of the show accounting command. 2. When the restart accounting command is executed. 3. When the accounting-related configuration is changed as follows: aaa accounting exec, aaa accounting commands, commands related to radius-server, commands related to tacacs-server, IP address of the interface loopback mode 						
143	E7	SOFTWARE	2a001000	1001	httpd aborted.		
	The HTTP program [Explanation of me None. [Action] The HTTP program	n (httpd) was forced essage variables] n should restart auton	to stop. natically. If it doe	s not restart or if i	restarts occur frequently, restart the switch.		
144	E7	SOFTWARE	3000b041	1001	dhcp_snoopingd aborted.		
	The DHCP snooping program (dhcp_snoopingd) was forced to stop. DHCP snooping detected an anomaly such as a lack of memory, aborted the operation, and forced the program to stop. [Explanation of message variables] None. [Action] The DHCP snooping program should restart automatically. If it does not restart or if restarts occur frequently, restart the switch						
145	E7	SOFTWARE	32001001	1001	trackobjd aborted.		
	The track object pr [Explanation of me None. [Action] The track object pr switch.	ogram (trackobjd) w essage variables] ogram should restart	as forced to stop	it does not restar	t or if restarts occur frequently, restart the		

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text		
			Desc	cription			
146	Е9	SOFTWARE	01100003 01200003 01300003 01400003 01600003 01700003 01800003 01900003 01910003 03000003 04000003 06100003 06200003 06300003 06400003 06500003 07000003 09100003 09200003 09200003 09200003 09500003	1001	System restarted due to software failure occurred during initialization.		
	An error occurred i [Explanation of me None. [Action] Check the log by ex action according to	in the software durin essage variables] eccuting the show lo	g initialization, a	nd the switch res	tarted. em is indicated in the log, take appropriate		
#	Event	Event	Message	Added info	Message text		
-----	--	--	---	---------------------	--	--	--
	level	location	ID	Highest 4 digits			
	Description						
147	Е9	SOFTWARE	01100005 0120005 0130005 0140005 0160005 0170005 0190005 0190005 0191005 0300005 0400005 0620005 0620005 0640005 0640005 0650005 0700005 0910005 0920005 0920005 0930005 0950005 0950005 0970005 0970005 0980005	1001	System restarted due to software failure occurred during operation.		
	An error occurred [Explanation of me None. [Action] Check the log by ex action according to	in the software durin essage variables] eccuting the show lo the error message.	g operation, and gging command	the switch restart	ted. em is indicated in the log, take appropriate		
148	E9	SOFTWARE	34000010	1001	Switch <i><switch no.=""></switch></i> restarted because stackd aborted.		
	The switch was restarted because the stack management program (stackd) was forcibly ended. [Explanation of message variables] <switch no.="">: Switch number Note, however, that 0 is displayed if the switch number cannot be acquired. [Action] If this message is repeatedly output, replace the device</switch>						
149	R7	SOFTWARE	00003101	1000	Recovered from memory exhaustion.		
	The CPU has recovered to the CPU has recovered to the contract of the contract	vered from a lack of essage variables]	memory.				

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text			
	Description							
150	150R7SOFTWARE020020011001snmpd restarted.							
	The SNMP agent program (snmpd) has restarted. The switch outputs this message after the SNMP agent program is forced to stop and is then restarted automatically. [Explanation of message variables] None. [Action] Collect the error save information (snmpd.core file under /usr/var/core), log information, and the configuration of the SNMP agent program. For details about how to collect the information, see the <i>Troubleshooting</i> <i>Guide</i> . The SNMP agent program should restart automatically. If it does not restart or if restarts occur frequently, restart the switch.							
151	R7	SOFTWARE	02002003	1001	rmon restarted.			
	The RMON program (rmon) has restarted. The switch outputs this message after the RMON program is forced to stop and is then restarted automatically. [Explanation of message variables] None. [Action] Collect the error save information (rmon.core file under /usr/var/core), log information, and the configuration of the RMON program. For details about how to collect the information, see the <i>Troubleshooting Guide</i> . The RMON program should restart automatically. If it does not restart or if restarts occur frequently, restart the switch							
152	R7	SOFTWARE	05001001	1001	Rtm restarted.			
	The unicast routing The switch outputs restart unicas [Explanation of me None. [Action] None.	g program (rtm) has i s this message when t command. essage variables]	restarted. the unicast routir	ng program restar	ts automatically, or is restarted by the			
153	R7	SOFTWARE	0d00b001	1001	dhcpd restarted.			
153 K/ SOFTWARE 0000001 1001 dhcpd restarted. The DHCP relay program (dhcpd) has restarted. The switch outputs this message when the DHCP relay program restarts automatically. [Explanation of message variables] None. [Action] None.								
154	R7	SOFTWARE	0d10b001	1001	dhcp_server restarted.			
	The DHCP server j The switch outputs [Explanation of me None. [Action] None.	program (dhcp_serve this message when essage variables]	er) has restarted. the DHCP server	r program restarts	automatically.			

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text			
	Description							
155	R7	SOFTWARE	0e008014	1000	vrrpd restarted.			
	The VRRP program (vrrpd) has restarted. The switch outputs this message when the VRRP program restarts automatically. [Explanation of message variables] None. [Action] None.							
156	R7	SOFTWARE	0f406001	1001	mrp restarted.			
	The IP multicast routing program has restarted. The switch outputs this message when the IP multicast routing program restarts automatically or a restart is requested by the restart IPv4-multicast command. [Explanation of message variables] None. [Action] None.							
157	R7	SOFTWARE	11109901	1001	policyd restarted.			
	The switch outputs the restart poli [Explanation of me None. [Action] None.	this message when .cy command. .ssage variables]	the policy-based	program restarts	automatically or a restart is requested by			
158	R7	SOFTWARE	1920a002	1001	mr6 restarted.			
	The IPv6 multicast The switch outputs requested by the re [Explanation of me None. [Action] None.	routing program has this message when estart ipv6-mult ssage variables]	s restarted. the IPv6 multicas icast command	st routing prograr d.	n restarts automatically or a restart is			
159	R7	SOFTWARE	1e001000	1001	flowd restarted.			
	The flow statistics agent program (flowd) has restarted. The switch outputs this message when the flow statistics agent program restarts automatically or a restart is requested by the restart sflow command. [Explanation of message variables] None. [Action] None.							
160	R7	SOFTWARE	1f00b011	1001	dhcp6_server restarted.			
	The IPv6 DHCP se The switch outputs [Explanation of me None. [Action] None.	rver program (dhcp6 this message when ssage variables]	5_server) has rest the IPv6 DHCP s	tarted. server program re	starts automatically.			

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text			
	Description							
161	R7	SOFTWARE	1f01b021	1001	dhcp6_relay restarted.			
	The IPv6 DHCP relay program (dhcp6_relay) has restarted. The switch outputs this message when the IPv6 DHCP relay program restarts automatically or a restart is requested by the restart ipv6-dhcp relay command. [Explanation of message variables] None. [Action] None.							
162	R7	SOFTWARE	20110001	1001	stpd restarted			
	The Spanning Tree program (stpd) has restarted. The switch outputs this message when the Spanning Tree program restarts automatically or a restart is requested by the restart spanning-tree command. [Explanation of message variables] None. [Action] None.							
163	R7	SOFTWARE	20120001	1001	LAd restarted.			
	The switch outputs by the restart 1 [Explanation of me None. [Action] None.	this message when ink-aggregation	the link aggregat	ion program resta	arts automatically or a restart is requested			
164	R7	SOFTWARE	20130002	1001	gsrpd restarted.			
	The GSRP program The switch outputs restart gsrp co [Explanation of me None. [Action] None.	n (gsrpd) has restarte this message when mmand. essage variables]	ed. the GSRP progra	am restarts autom	atically or a restart is requested by the			
165	R7	SOFTWARE	20140001	1001	lldpd restarted.			
	The LLDP program (lldpd) has restarted. The switch outputs this message when the LLDP program restarts automatically or a restart is requested by the restart lldp command. [Explanation of message variables] None. [Action] None							
166	R7	SOFTWARE	20150001	1001	oadpd restarted.			
	The OADP program The switch outputs restart oadp co [Explanation of me None. [Action] None.	m (oadpd) has restart this message when mmand. essage variables]	ted. the OADP progr	am restarts auton	natically or a restart is requested by the			

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text		
			Desc	ription			
167	R7	SOFTWARE	20160001	1001	L2MacManager restarted.		
	The L2MAC manager program (L2MacManager) has restarted. The switch outputs this message when the L2MAC manager program restarts automatically or a restart is requested by the restart vlan command. [Explanation of message variables] None. [Action] None.						
168	R7	SOFTWARE	20170001	1001	axrpd restarted.		
	The Ring Protocol program (axrpd) has restarted. The switch outputs this message when the Ring Protocol program restarts automatically or a restart is requested by the restart axrp command. [Explanation of message variables] None. [Action] None.						
169	R7	SOFTWARE	20400001	1001	dot1xd restarted.		
	IEEE 802.1X program (dot1xd) has restarted. The switch outputs this message when the IEEE 802.1X program restarts automatically or a restart is requested by the restart dot1x command. [Explanation of message variables] None. [Action] None.						
170	R7	SOFTWARE	20420001	1001	wad restarted.		
	The Web authentic The switch outputs by the restart w [Explanation of me None. [Action] Perform authentica	ation program (wad) this message when the eb-authenticatio essage variables] tion again on the aut	has restarted. ne Web authentica on command. hentication clien	ation program res	tarts automatically or a restart is requested		
171	R7	SOFTWARE	20430001	1001	macauthd restarted.		
	The MAC authentication program has restarted. The switch outputs this message when the MAC authentication program restarts automatically or a restart is requested by the restart mac-authentication command. [Explanation of message variables] None. [Action] Perform authentication again on the authentication client side						
172	R7	SOFTWARE	20700001	1001	efmoamd restarted.		
	The IEEE 802.3ah/ The switch outputs requested by the re [Explanation of me None. [Action] None.	OAM program (efm this message when estart efmoam con essage variables]	oamd) has restar the IEEE 802.3ał nmand.	ted. h/OAM program	restarts automatically or a restart is		

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text		
	Description						
173	R7	SOFTWARE	20800001	1001	121dd restarted.		
	The L2 loop detection program (l2ldd) has restarted. The switch outputs this message when the L2 loop detection program restarts automatically or a restart is requested by the restart loop-detection command. [Explanation of message variables] None. [Action] None.						
174	R7	SOFTWARE	20900001	1001	cfmd restarted.		
	The CFM program (cfmd) has restarted. The switch outputs this message when the CFM program restarts automatically or a restart is requested by the restart cfm command. [Explanation of message variables] None. [Action] None.						
175	R7	SOFTWARE	21000001	1001	snoopd restarted.		
	The IGMP snooping/MLD snooping program (snoopd) has restarted. The switch outputs this message when the IGMP snooping/MLD snooping program restarts automatically or a restart is requested by the restart snooping command. [Explanation of message variables] None. [Action] None.						
176	R7	SOFTWARE	25300000	1001	nimd restarted.		
	The network interf The switch outputs requested by the re [Explanation of me None. [Action] None.	ace manager program this message when estart vlan comn essage variables]	n (nimd) has rest the network inter nand.	arted. face manager pro	ogram restarts automatically or a restart is		
177	R7	SOFTWARE	27000001	0000	accountingd restarted.		
	N/ SOFTWARE 2700001 0000 accounting restarted. The accounting program (accountingd) has restarted. The switch outputs this message when the accounting program restarts automatically or a restart is requested by the restart accounting command. [Explanation of message variables] None. [Action] None. [Action]						
178	R7	SOFTWARE	27000011	0000	System accounting recovered from congestion.		
	The accounting event transmission has recovered from congestion, and accounting of login and logout commands resumed. [Explanation of message variables] None. [Action] None						

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text		
			Desc	ription			
179	R7	SOFTWARE	2a001000	1001	httpd restarted.		
	The HTTP program (httpd) has restarted. The switch outputs this message when the HTTP program restarts automatically or restarts of HTTP program and NETCONF program are requested by the restart netconf command. [Explanation of message variables] None. [Action] None.						
180	R7	SOFTWARE	3000b041	1001	dhcp_snoopingd restarted.		
	The DHCP snoopin The switch outputs [Explanation of me None. [Action] None.	ng program (dhcp_sr this message when t essage variables]	noopingd) has res the DHCP snoop	tarted. ing program resta	arts automatically.		
181	R7	SOFTWARE	32001001	1001	trackobjd restarted.		
	The track object pr The switch outputs [Explanation of me None. [Action] None.	ogram (trackobjd) ha this message after tl essage variables]	as restarted. he track object pr	ogram is restarte	d automatically.		

3.5.2 Event location = SOFTWARE (Authentication VLAN) [OP-VAA]

The following table describes device failure and event information when the event location is SOFTWARE (Authentication VLAN).

Table 3-12: Device failure and event information when the event location is SOFTWARE (Authentication VLAN)

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text
				Description	
1	E3	SOFTWARE	20410002	1001	vaad connection closed <i><ipv4 address=""></ipv4></i> .
	The connection The switch out disconnected [Explanation < <i>ipv4 address</i> [Action] If VAA is alreed	on between VAA a utputs this message for any reason, or of message variabl s>: IPv4 address o eady running, the c	nd the authenticat when the TCP co when VAA stops. es] f an authenticatio onnection is reest	ion server < <i>ipv4</i> onnection between n server ablished automati	<i>address</i> > has been disconnected. n VAA and an authentication server is ically.

#	# Event Event Message Ad level location ID H		Added info Highest 4 digits	Message text			
				Description			
2	E3	SOFTWARE	20410003	1001	vaad connection was established <i><ipv4< i=""> <i>address></i>.</ipv4<></i>		
	VAA connected to the authentication server <i><ipv4 address=""></ipv4></i> . The switch outputs this message when a TCP connection between VAA and an authentication server is established [Explanation of message variables] <i><ipv4 address=""></ipv4></i> : IPv4 address of an authentication server [Action] None.						
3	E3	SOFTWARE	20410004	1001	vaad Server protocol version is not supported.		
	VAA does not support the version of the authentication server protocol. The switch outputs this message when the authentication server protocol version is other than 1.0. [Explanation of message variables] None. [Action] Change the version of the authentication server protocol to 1.0.						
4	E3	SOFTWARE	20410005	1001	vaad Since L2MacManager restarted, all MAC was deleted.		
	All authentica [Explanation None. [Action] Perform author	ation-registered MA of message variabl entication again on	AC addresses wer es] the authenticatio	e deleted because n client side.	L2MacManager closed a socket with VAA.		
5	E3	SOFTWARE	20410006	1001	vaad all MAC address were cleared.		
	All authentica authentication [Explanation None. [Action] Make sure the	ation-registered MA 1 servers were not of of message variabl ere is no network-r	AC addresses wer established withir es] elated problem be	e deleted because a the set number o etween the Switch	all the TCP connections between VAA and of retries.		
6	E3	SOFTWARE	20410007	1001	vaad The socket with L2MacManager was closed.		
	The socket be [Explanation None. [Action] If this error of	etween VAA and L of message variabl ccurs frequently, re	2MacManager wa es] estart L2MacMan	as closed. ager.			
7	E3	SOFTWARE	20410012	1001	VAA information defined by the configuration file is ignored, since VAA function license is not given.		
	VAA informa [Explanation None. [Action] Set the option	tion set in the start of message variabl n license OP-VAA 1	up configuration es] by using the set	file is invalid beca license comma	ause a license was not granted.		

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text			
	Description							
8	E4	SOFTWARE	20410008	1001	The vaad MAC Address entry can't be registered at hardware tables.			
	Using the VAA function, the MAC address of a terminal could not be set in the hardware table. [Explanation of message variables] None. [Action] Review the capacity limit. However, depending on the hardware specification, the setting to the maximum of the capacity limit might not be available.							
9	E4	SOFTWARE	20410009	1001	vaad failed to get configuration data.			
	Retrieval of VAA function configuration data inside a switch failed. [Explanation of message variables] None. [Action] Delete the configuration of the VAA functionality, and then reset the VAA configuration.							
10	E4	SOFTWARE	20410010	1001	vaad failed to make temporary file.			
	Creation of a [Explanation None. [Action] Delete the con	VAA-function tem of message variabl nfiguration of the V	porary file inside es] /AA functionality	a switch failed.	e VAA configuration.			
11	E4	SOFTWARE	20410011	1001	vaad was not able to get enough memory.			
	Sufficient VA [Explanation None. [Action] Delete the con	A memory failed t of message variabl nfiguration of the V	o be reserved bec es] /AA functionality	ause switch memory	ory capacity is insufficient.			
12	E7	SOFTWARE	20410001	1001	vaad aborted.			
	The VAA pro [Explanation None. [Action] The VAA pro	gram (vaad) was fo of message variabl gram should restart	orced to stop. es]	it does not restart	or if restarts occur frequently, restart the switch.			
13	R7	SOFTWARE	20410001	1001	vaad restarted.			
	The VAA pro The switch ou restart va. [Explanation None. [Action] Perform author	gram (vaad) has re itputs this message a command. of message variabl entication again on	started. when the VAA p es] the authenticatio	rogram restarts at n client side.	utomatically or a restart is requested by the			

3.6 Port

3.6.1 Event location = PORT

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

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text		
				Descr	iption		
1	E3	PORT	25011000	1350	Port enabled administratively.		
	The port was released from the disabled state by using the configuration commands no shutdown or no schedule-power-control shutdown. [Explanation of message variables] None. [Action] None.						
2	E3	PORT	25011006	1350	Port activated administratively.		
	The port was [Explanation None. [Action] None.	s released from of message va	the inactive sta ariables]	te by using the	activate command.		
3	E3	PORT	25011100	1350	Port disabled administratively.		
	The port was schedule-p [Explanation None. [Action] None.	s placed in the power-contr a of message va	disabled state by ol shutdown. ariables]	y using the con	figuration commands shutdown or		
4	E3	PORT	25011106	1350	Port inactivated administratively.		
	The port was placed in the inactive state by using the inactivate command. [Explanation of message variables] None. [Action] None.						
5	E3	PORT	25230000	1350	Unable to use traffic-shape rate feature because value exceeding setting range was specified.		
	The port ban [Explanation None. [Action] Change the b description i	dwidth contro a of message va bandwidth to in n <i>traffic-shape</i>	l is not available ariables] nside the setting <i>rate</i> in the man	because a value range. For dett	ue outside the valid setting range was specified. ails about the valid setting range, see the rate parameter <i>ion Command Reference Vol. 1 For Version 11.10.</i>		

Table 3-13: Device failure and event information when the event location is PORT

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text		
				Descr	iption		
6	E3	PORT	25230001	1350	Unable to use traffic-shape rate feature because its setting unit was an unjust value.		
	The port bandwidth control is not available because the units of the setting are invalid. [Explanation of message variables] None. [Action] Change the units to specifiable units. For details on specifiable setting units, see the rate parameter description in traffic-shape rate in the manual Configuration Command Reference Vol. 1 For Version 11 10						
7	E3	PORT	25230002	1350	Port half duplex does not support traffic-shape rate feature.		
	 Port bandwidth control is not available for half-duplex lines. [Explanation of message variables] None. [Action] Do either of the following: 1. If port bandwidth control is to be used, switch to a full-duplex line. 2. If a half-duplex line is to be used, delete port bandwidth control by using the configuration command no 						
8	E3	PORT	25230003	1350	Unable to use WFQ feature because minimum rate exceeding setting range was specified for queue < <i>queue no.</i> >.		
	The schedult <queue no.=""> [Explanation <queue no.=""> [Action] Change the r valid setting: Vol. 1 For Va</queue></queue>	ing mode that is outside the of message v : Queue numb ninimum guar s, see the wfq p ersion 11.10.	includes WFQ is range of valid s ariables] per anteed bandwidt parameter descrip	not available ettings. h to a value ins ption in <i>qos-qu</i>	because the minimum guaranteed bandwidth specified in side the range of valid settings. For details on the range of <i>eue-list</i> in the manual <i>Configuration Command Reference</i>		
9	E3	PORT	25230004	1350	Unable to use WFQ feature because unit of the minimum rate specified for queue <i><queue no.=""></queue></i> was unjustified.		
	The scheduling mode that includes WFQ is not available because the units used in the setting of the minimum guaranteed bandwidths specified in <queue no.=""> are invalid. [Explanation of message variables] <queue no.="">: Queue number [Action] Change the units to specifiable units. For details on the specifiable setting range, see the wfq parameter description</queue></queue>						
10	E3	PORT	25230005	1350	Unable to use WFQ feature because total value of minimum rate exceeding the maximum rate of the port.		
	minimum rate exceeding the maximum rate of the port. The scheduling mode that includes WFQ is not available because the total value of the minimum guaranteed bandwidths exceeds the maximum send bandwidth. [Explanation of message variables] None. [Action] Using the configuration command qos-queue-list, adjust the total value of the minimum guaranteed bandwidths so that the total is within the maximum send bandwidth.						

#	Event	Event	Message	Added info	Message text	
	level	location		Highest 4 digits		
		I	I	Descr	iption	
11	E3	PORT	25230006	1350	Port half duplex does not support WFQ feature.	
	 The scheduling mode that includes WFQ is not available for half-duplex lines. [Explanation of message variables] None. [Action] Do either of the following: 1. If WFQ is to be used in the scheduling mode, switch to a full-duplex line. 2. If a half-duplex line is to be used, switch to a scheduling mode that does not include WFQ by using the configuration commands gos-gueue-group and gos-gueue-list 					
12	E4	PORT	25011001	1350	Port up.	
	The port is up. [Explanation of message variables] None. [Action] None.					
13	E4	PORT	25011002	1350	Transceiver connected.	
	A transceive [Explanation None. [Action] None.	r insertion was of message va	s detected. ariables]			
14	E4	PORT	25011101	1350	Error detected on the port.	
	 Errors were detected at the ports. [Explanation of message variables] None. [Action] For 10BASE-T, 100BASE-TX, or 1000BASE-T: 1. Make sure that the specified cables are properly connected. 2. Make sure that startup of the partner switch has completed. 3. Execute the test interfaces command, and make sure that the switches and cables have no problem. For 100BASE-FX, 100BASE-X, 10GBASE-R, or 40GBASE-R: 1. Make sure that the specified cables are properly connected. Make sure that the end sections of the cables are clean. If they are dirty, clean them. 2. If you are using an optical attenuator, check the attenuation value. 3. Make sure that startup of the partner switch has completed. 4. Execute the test interfaces command, and make sure that the switches and cables have no problem 					
15	E4	PORT	25011102	1350	Transceiver notconnected.	
	A transceive [Explanation None. [Action] Insert the tra	r removal was a of message va nsceiver prope	detected. ariables] erly.	1	1	

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text	
				Descr	iption	
16	E4	PORT	25011103	1350	Auto negotiation failed.	
	Auto negotia [Explanation None. [Action] • Check th • Execute • If the de	ntion has failed of message v ne auto negotia the test int vices and the c	l. ariables] tion status. erfaces comm ables are norma	and, and make I, check the de	e sure that the cables have no problem. stination devices.	
17	E4	PORT	25011104	1350	Many failures occurred in receiving frames to the targeted port due to the port troubles. Execute the Line tests to check the port condition.	
	Frame recep [Explanation None. [Action] • Execute • If the de	tion at the com of message v the test int vices and the c	responding port ariables] erfaces comm ables are norma	failed multiple and, and make l, check the de	times because of errors such as from noise. e sure that the cables have no problem. stination devices.	
18	E4	PORT	25011105	1350	Many failures occurred in sending frames to the targeted port due to the port troubles. Execute the Line tests to check the port condition.	
	Frame transmission at the corresponding port failed multiple times because of errors such as from noise. [Explanation of message variables] None. [Action] • Execute the test interfaces command, and make sure that the switches and cables have no error.					
19	E4	PORT	25011500	1350	Transceiver not supported.	
	An unsuppo [Explanatior None. [Action] See the SFP correspondin	rted transceive a of message v <i>List</i> and <i>XFP</i> ng port numbe	r was detected. ariables] <i>List</i> in the <i>Hard</i>	ware Instructic	on Manual. Insert a supported transceiver into the	
20	E4	PORT	25011501	1350	This transceiver is not supported in stackport.	
	A transceiver whose type is unsupported was detected in the stack port. [Explanation of message variables] None. [Action] If SFP/SFP+ ports are used as stack ports, only SFP+ is supported. See the <i>SFP</i> + <i>List</i> in the <i>Hardware Instruction Manual</i> . Insert a supported transceiver into the corresponding port number.					
21	E4	PORT	25100009	1350	Inactivated because of broadcast storm detection.	
	A port was c [Explanation None. [Action] After recove	leactivated bec of message v ring from the	cause a broadcas ariables] storm, use the ac	t storm was de	nand to change the port status to active.	

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text	
				Descr	iption	
22	E4	PORT	2510000a	1350	Broadcast storm detected.	
	A broadcast [Explanation None. [Action] None.	storm was deta of message v	ected. ariables]			
23	E4	PORT	2510000b	1350	Broadcast storm recovered.	
	The system I [Explanation None. [Action] None.	nas recovered of message v	from a broadcast ariables]	t storm.		
24	E4	PORT	2510000c	1350	Inactivated because of multicast storm detection.	
	A port was deactivated because a multicast storm was detected. [Explanation of message variables] None. [Action] After recovering from the storm, use the activate command to change the port status to active.					
25	E4	PORT	2510000d	1350	Multicast storm detected.	
	A multicast s [Explanation None. [Action] None.	storm was dete of message v	ected. ariables]			
26	E4	PORT	2510000e	1350	Multicast storm recovered.	
	The system I [Explanation None. [Action] None.	nas recovered	from a multicast ariables]	storm.		
27	E4	PORT	2510000f	1350	Inactivated because of unicast storm detection.	
	A port was deactivated because a unicast storm was detected. [Explanation of message variables] None. [Action] After recovering from the storm, use the activate command to change the port status to active.					
28	E4	PORT	25100010	1350	Unicast storm detected.	
	A unicast sto [Explanation None. [Action] None.	orm was detect	ed. ariables]			

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text	
				Descr	iption	
29	E4	PORT	25100011	1350	Unicast storm recovered.	
	The system has recovered from a unicast storm. [Explanation of message variables] None. [Action] None.					
30	E4	PORT	25100012	1350	Inactivated because of uni-directional link detection.	
	 A port was deactivated because a unidirectional link failure was detected. [Explanation of message variables] None. [Action] Make sure that the IEEE 802.3ah/OAM function is valid at the connection target. Execute the test interfaces command, and make sure that the switches and cables have no error. If the devices and the cables are normal, check the destination devices. After the above, activate the port by using the activate command. 					
31	E4	PORT	25100013	1350	Inactivated because of loop detection.	
	A port was c [Explanation None. [Action] Check the ne	leactivated bec n of message va etwork configu	ause a loop was ariables] ration.	detected.		
32	E8	PORT	25020201	1350	Port restarted because of its hardware failure.	
	A port was restarted because a hardware failure occurred at the port. [Explanation of message variables] None. [Action] Check subsequent fault recovery log entries or fault recovery failure log entries. If the system has recovered from the fault, operations can resume. If the recovery failed, switch to an unused port. If you want to reuse the failed port, replace the device. If a transceiver is implemented make sure that it is firmly installed					
33	E8	PORT	25020202	1350	Port stopped because of its hardware failure.	
	A port was stopped because a hardware failure occurred at the port. [Explanation of message variables] None. [Action] Switch to an unused port. If you want to reuse the failed port, replace the device.					

#	Event level	Event location	Message ID	Added info Highest 4 digits	Message text
				Descr	iption
34	E8	PORT	25020401	1350	Port restarted, but not recovered from hardware failure.
	 A port restar [Explanation None. [Action] When using 1. After exa and exec 2. The syst inactiv 3. If the rec device. When not us Switch to an 	ted, but the po a of message va- a transceiver: ecuting the in- cute the activ em may not re vate command covery failed at ing a transceiv unused port. I	rt has not recover ariables] activate comm ate command. cover by executing d, and then exec fiter steps 1 or 2, ver: f you want to re	ered from a har nand at a corre ing step 1. In th ute the active switch to an ur use the failed p	rdware failure. esponding port, reinsert a transceiver after unplugging it, hat case, change the transceiver after executing the ate command. nused port. If you want to reuse the failed port, replace the port, replace the device.
35	R8	PORT	25020201	1350	Port recovered from hardware failure.
	A port has re [Explanation None. [Action] None.	ecovered from a of message va	a hardware failu ariables]	ire.	

3.6.2 Event location = ULR

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

Table 3-14:]	Device failure and	event information	when the event	location is ULR
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#	Event level	Event location	Message ID	Added info Highest4 digits	Message text		
				Desc	ription		
1	E4	ULR	20a00001	2400	ULR:Active port is switched to secondary port(< <i>nif</i> no.>/ <port no.="">) from primary port(<<i>nif</i> no.>/<port no.="">).</port></port>		
	The active p [Explanation < <i>nif no.</i> >/< [Action] Check the fa	ort was switch of message va <i>port no</i> .>: NII ilure in the pri	ed to the second ariables] F number/port n mary port.	lary port becau umber	se an error occurred in the primary port.		
2	E4	ULR	20a00002	2400	ULR:Active port is switched to primary port(< <i>nif no.</i> >/ <port no.="">) from secondary port(<<i>nif no.</i>>/<<i>port no.</i>>).</port>		
	<port no.="">) from secondary port(<nif no.="">/<port no.="">). The active port was switched to the primary port because an error occurred in the secondary port. [Explanation of message variables] <nif no.="">/<port no.="">: NIF number/port number [Action] Check the failure in the secondary port.</port></nif></port></nif></port>						

#	Event level	Event location	Message ID	Added info Highest4 digits	Message text
				Desci	ription
3	E4	ULR	20a00003	2400	ULR:Active port is switched to secondary port(<i><nif< i=""> no.>/<i><port i="" no.<="">>) from primary port(ChGr:<i><channel group="" number=""></channel></i>).</port></i></nif<></i>
	The active per [Explanation < <i>nif</i> no.>/< < <i>channel</i> gro [Action] Check the fa	ort was switche of message va <i>port no.</i> >: NII <i>oup number</i> >: ilure in the pri	ed to the second ariables] F number/port n Channel group mary port.	ary port becau umber number	se an error occurred in the primary port.
4	E4	ULR	20a00004	2400	ULR:Active port is switched to primary port(< <i>nif no.</i> >/ < <i>port no.</i> >) from secondary port(ChGr:< <i>channel group number</i> >).
	The active port was switched to the primary port because an error occurred in the secondary port. [Explanation of message variables] <nif no.="">/<port no.="">: NIF number/port number <channel group="" number="">: Channel group number [Action] Check the failure in the secondary port.</channel></port></nif>				
5	E4	ULR	20a00005	2400	ULR:Active port is switched to secondary port(ChGr:< <i>channel group number</i> >) from primary port(< <i>nif no.</i> >/< <i>port no.</i> >).
The active port was switched to the secondary port because an error occurred in the primary port. [Explanation of message variables] <channel group="" number="">: Channel group number <nif no.="">/<port no.="">: NIF number/port number [Action] Check the failure in the primary port</port></nif></channel>					se an error occurred in the primary port.
6	E4	ULR	20a00006	2400	ULR:Active port is switched to primary port(ChGr:< <i>channel group number</i> >) from secondary port(< <i>nif no.</i> >/< <i>port no.</i> >).
	The active port was switched to the primary port because an error occurred in the secondary port. [Explanation of message variables] <i><channel group="" number=""></channel></i> : Channel group number <i><nif no.="">/<port no.=""></port></nif></i> : NIF number/port number [Action] Check the failure in the secondary port				
7	E4	ULR	20a00007	2400	ULR:Active port is switched to secondary port(ChGr:< <i>channel group number</i> >) from primary port(ChGr:< <i>channel group number</i> >).
	The active pe [Explanation <i><channel gro<="" i=""> [Action] Check the fa</channel></i>	ort was switche of message va oup number>: ilure in the pri	ed to the second ariables] Channel group mary port.	ary port becau number	se an error occurred in the primary port.

#	Event level	Event location	Message ID	Added info Highest4 digits	Message text				
				Desc	ription				
8	E4	ULR	20a00008	2400	ULR:Active port is switched to primary port(ChGr:< <i>channel group number</i> >) from secondary port(ChGr:< <i>channel group number</i> >).				
	The active p [Explanation < <i>channel gr</i> [Action] Check the fa	ort was switch a of message very oup number>: illure in the sec	ed to the primar ariables] Channel group condary port.	ry port because number	an error occurred in the secondary port.				
9	E4	ULR	20a00009	2400	ULR:Active port is switched to secondary port(<i><nif< i=""> <i>no.>/<port no.=""></port></i>) from primary port(<i><nif no.="">/<port no.=""></port></nif></i>), because command execution.</nif<></i>				
	The active p active com [Explanation < <i>nif no.</i> >/< [Action] None.	ort was switch mand was exe of message v <i>port no.</i> >: NII	ed from the princuted. ariables] F number/port n	nary port to the	e secondary port because the set switchport-backup				
10	E4	ULR	20a00010	2400	ULR:Active port is switched to primary port(< <i>nif no.</i> >/ < <i>port no.</i> >) from secondary port(< <i>nif no.</i> >/< <i>port no.</i> >), because command execution.				
	The active port was switched back from the secondary port to the primary port because the set switchport-backup active command was executed. [Explanation of message variables] < <i>nif no.</i> >/< <i>port no.</i> >: NIF number/port number [Action] None.								
11	E4	ULR	20a00011	2400	ULR:Active port is switched to secondary port(<i><nif< i=""> no.<i>></i>/<i><port< i=""> no.<i>></i>) from primary port(ChGr:<i><channel< i=""> group number>), because command execution.</channel<></i></port<></i></nif<></i>				
	The active port was switched from the primary port to the secondary port because the set switchport-backup active command was executed. [Explanation of message variables] < <i>nif no.</i> >/< <i>port no.</i> >: NIF number/port number < <i>channel group number</i> >: Channel group number [Action] None								
12	E4	ULR	20a00012	2400	ULR:Active port is switched to primary port(<i><nif no.="">/</nif></i> <i><port no.=""></port></i>) from secondary port(ChGr: <i><channel group<="" i=""> <i>number></i>), because command execution.</channel></i>				
	The active p switchport [Explanation < <i>nif no.</i> >/< < <i>channel gr</i> [Action] None.	ort was switch t-backup act n of message v. <i>cport no.</i> >: NII oup number>:	ed back from th ive command ariables] F number/port n Channel group	was executed. number number	ort to the primary port because the set				

#	Event level	Event location	Message ID	Added info Highest4 digits	Message text	
				Desc	ription	
13	E4	ULR	20a00013	2400	ULR:Active port is switched to secondary port(ChGr:< <i>channel group number</i> >) from primary port(< <i>nif no.</i> >/< <i>port no.</i> >), because command execution.	
	The active pr active com [Explanation < <i>channel gr</i> < <i>nif no.</i> >/< [Action] None.	ort was switch mand was exe of message va oup number>: port no.>: NII	ed from the prin cuted. ariables] Channel group F number/port n	nary port to the number umber	e secondary port because the set switchport-backup	
14	E4	ULR	20a00014	2400	ULR:Active port is switched to primary port(ChGr:< <i>channel group number</i> >) from secondary port(< <i>nif no.</i> >/< <i>port no.</i> >), because command execution.	
	The active port was switched back from the secondary port to the primary port because the set switchport-backup active command was executed. [Explanation of message variables] <channel group="" number="">: Channel group number <nif no.="">/<port no.="">: NIF number/port number [Action] None</port></nif></channel>					
15	E4	ULR	20a00015	2400	ULR:Active port is switched to secondary port(ChGr:< <i>channel group number</i> >) from primary port(ChGr:< <i>channel group number</i> >), because command execution.	
	The active pe active com [Explanation < <i>channel gre</i> [Action] None.	ort was switch mand was exe of message va oup number>:	ed from the prin ceuted. ariables] Channel group	nary port to the	e secondary port because the set switchport-backup	
16	E4	ULR	20a00016	2400	ULR:Active port is switched to primary ChGr(<i><channel< i=""> group number>) from secondary ChGr(<i><channel< i=""> group number>), because command execution.</channel<></i></channel<></i>	
	The active port was switched back from the secondary port to the primary port because the set switchport-backup active command was executed. [Explanation of message variables] <channel group="" number="">: Channel group number [Action] None.</channel>					
17	E4	ULR	20a00017	2400	ULR:Primary port(< <i>nif no</i> .>/< <i>port no</i> .>) became the active port.	
	The primary [Explanation < <i>nif no.</i> >/< [Action] None.	port has becon of message va <i>port no</i> .>: NII	ne the active po ariables] F number/port n	rt. umber		

#	Event level	Event location	Message ID	Added info Highest4 digits	Message text		
		·		Desc	ription		
18	E4	ULR	20a00018	2400	ULR:Primary port(ChGr:< <i>channel group number</i> >), became the active port.		
	The primary [Explanation < <i>channel gre</i> [Action] None.	port has becon a of message va oup number>:	ne the active po ariables] Channel group	number	1		
19	E4	ULR	20a00019	2400	ULR:Secondary port(<i><nif no.="">/<port no.=""></port></nif></i>) became the active port.		
	The seconda [Explanation < <i>nif no.</i> >/< [Action] None.	ry port has been of message va <i>port no</i> .>: NII	come the active ariables] F number/port n	port. umber			
20	E4	ULR	20a00020	2400	ULR:Secondary port(ChGr:< <i>channel group number</i> >) became the active port.		
The secondary port has become the active port. [Explanation of message variables] <i><channel group="" number=""></channel></i> : Channel group number [Action] None.							
21	E4	ULR	20a00021	2400	ULR:Both uplink redundant port(< <i>nif no.</i> >/< <i>port no.</i> >) and port(< <i>nif no.</i> >/port no.>) are down.		
	Both the prin [Explanation < <i>nif no.</i> >/< [Action] Make sure th	mary port and to of message va <i>port no</i> .>: NII nat no error occ	he secondary po ariables] 7 number/port n curred between	ort have gone o umber the primary an	down. d secondary port.		
22	E4	ULR	20a00022	2400	ULR:Both uplink redundant port(<i><nif no.="">/<port no.=""></port></nif></i>) and port(ChGr: <i><channel group="" number=""></channel></i>) are down.		
	Both the primary port and the secondary port have gone down. [Explanation of message variables] < <i>nif no.</i> >/< <i>port no.</i> >: NIF number/port number < <i>channel group number</i> >: Channel group number [Action] Make sure that no error occurred between the primary and secondary port						
23	E4	ULR	20a00023	2400	ULR:Both uplink redundant port(ChGr:< <i>channel group number</i> >) and port(<i><nif i="" no.<="">>/<i><port i="" no.<="">>) are down.</port></i></nif></i>		
	Both the primary port and the secondary port have gone down. [Explanation of message variables] <channel group="" number="">: Channel group number <nif no.="">/<port no.="">: NIF number/port number [Action] Make sure that no error occurred between the primary and secondary port.</port></nif></channel>						

#	Event level	Event location	Message ID	Added info Highest4 digits	Message text		
				Desc	ription		
24	E4	ULR	20a00024	2400	ULR:Both uplink redundant port(ChGr:< <i>channel group number</i> >) and port(ChGr:< <i>channel group number</i> >) are down.		
	Both the prir [Explanation < <i>channel gro</i> [Action] Make sure th	mary port and to of message va oup number>: nat no error occ	the secondary po ariables] Channel group curred between t	ort have gone c number the primary and	lown. d secondary port.		
25	E4	ULR	20a00025	2400	ULR:Active port is switched to primary port(< <i>nif no.</i> >/ < <i>port no.</i> >) from secondary port(< <i>nif no.</i> >/< <i>port no.</i> >), because preemption execution.		
	The active period of the executed. [Explanation <i><nif i="" no.<="">>/<i><</i> [Action] None.</nif></i>	ort was switch of message va <i>port no</i> .>: NII	ed from the seco ariables] F number/port n	ondary port to t	the primary port because automatic preemption was		
26	E4	ULR	20a00026	2400	ULR:Active port is switched to primary port(< <i>nif no.</i> >/ < <i>port no.</i> >) from secondary port(ChGr:< <i>channel group number</i> >), because preemption execution.		
	The active prevented. [Explanation <nif no.="">/< <channel grading<br="">[Action] None.</channel></nif>	of message va port no.>: NII poup number>:	ed from the seco ariables] F number/port n Channel group	umber number	the primary port because automatic preemption was		
27	E4	ULR	20a00027	2400	ULR:Active port is switched to primary port(ChGr:< <i>channel group number</i> >) from secondary port(< <i>nif no.</i> >/< <i>port no.</i> >), because preemption execution.		
	The active port was switched from the secondary port to the primary port because automatic preemption was executed. [Explanation of message variables] <channel group="" number="">: Channel group number <nif no.="">/<port no.="">: NIF number/port number [Action] None</port></nif></channel>						
28	E4	ULR	20a00028	2400	ULR:Active port is switched to primary port(ChGr:< <i>channel group number</i> >) from secondary port(ChGr:< <i>channel group number</i> >), because preemption execution.		
	The active port was switched from the secondary port to the primary port because automatic preemption was executed. [Explanation of message variables] <channel group="" number="">: Channel group number [Action] None.</channel>						

#	Event level	Event location	Message ID	Added info Highest4 digits	Message text	
				Desc	ription	
29	E4	ULR	20a00029	2400	ULR:Exceeded the number of MAC Address Table entry update request to uplink-switch from active port(<i><nif< i=""> no.<i>></i>/<i><port< i=""> no.<i>></i>).</port<></i></nif<></i>	
	The number switch excee [Explanation < <i>nif no.</i> >/< [Action] None.	The number of MAC address table entry update requests from an uplink port of the Switch to an upstream uplink switch exceeded the limit. [Explanation of message variables] <nif no.="">/<port no.="">: NIF number/port number [Action] None.</port></nif>				
30	E4	ULR	20a00030	2400	ULR:Exceeded the number of MAC Address Table entry update request to uplink-switch from active port(ChGr:< <i>channel group number</i> >).	
	The number of MAC address table entry update requests from an uplink port of the Switch to an upstream uplink switch exceeded the limit. [Explanation of message variables] <channel group="" number="">: Channel group number [Action] None.</channel>					

3.7 Optional module

3.7.1 Event location = PS

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

#	Event level	Event location	Message ID	Added info Highest4 digits	Message text	
				Desci	ription	
1	E3	PS	00000003	2200	Failed in accumulated running time access to <i><ps></ps></i> .	
	Access to the total operating time for the power supply unit failed. <ps> displays the power supply unit (either PS1 or PS2) for which access to the total operating time failed. [Explanation of message variables] <ps>: PS1 or PS2 [Action] This event does not affect communication and usual operation. However, you cannot use the total operating time management function. If you want to use this function, replace the power supply unit.</ps></ps>					
2	E8	PS	00000002	2200	< <i>ps</i> > is power off.	
	 The displayed power supply unit is turned off. <ps> displays a power supply unit (either PS1 or PS2) that is turned off.</ps> [Explanation of message variables] <ps>: PS1 or PS2</ps> [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. If the power supply unit has failed replace it 					
3	E8	PS	00000006	2200	<i><ps></ps></i> is unknown.	
	 The power supply unit is unknown. <ps> displays a power supply unit (either PS1 or PS2) that is unknown.</ps> [Explanation of message variables] <ps>: PS1 or PS2 [Action] The power supply unit might not be fully inserted. Insert the power supply unit properly. The software of this version does not support the power supply unit. Check the type of the power supply unit and the software version. Either change the power supply unit, or update the software. The Switch does not support the power supply unit. Replace the power supply unit.</ps>					
4	E8	PS	0000007	2200	The direction of the fan of $< ps >$ is mismatch.	
	E8PS00000072200The direction of the fan of $< ps >$ is mismatch.The direction of the fan does not match between the fan unit and the power supply unit. $< ps >$ displays a power supply unit (either PS1 or PS2) that has a different fan direction.[Explanation of message variables] $< ps >$: PS1 or PS2[Action]Replace the power supply unit or the fan unit to match the airflow between them.					

Table 3-15: Device failure and event information when the event location is PS

#	Event level	Event location	Message ID	Added info Highest4 digits	Message text
		<u> </u>		Desc	ription
5	E8	PS	00000102	2200	Power unit isn't redundantly mounted.
	The power u [Explanation None. [Action] Check the in configuration	nit is not in a r of message van plementation n, set no powe	redundant config ariables] status of the power redundancy	guration. wer supply uni y-mode by the	t. If the power unit is not implemented in a redundant configuration command.
6	R8	PS	00000002	2200	< <i>ps</i> > is normal.
	 The displayed power supply unit is in a normal state. <ps> displays a power supply unit (either PS1 or PS2) that is in a normal state. This message appears when the following conditions are met: When the power supply unit state changes from an anomalous state to a normal state, or from an unimplemented state to a normal state, the power supply unit in the normal state is displayed. When either one of the power supply units in a redundant configuration is removed, the power supply unit in the normal state is displayed. [Explanation of message variables] <ps>: PS1 or PS2 [Action] None</ps></ps>				
7	R8	PS	00000006	2200	Unknown < <i>ps</i> > was removed.
	An unknown power supply unit was removed. This message appears when an unknown power supply unit is removed after the log <i>PS</i> is unknown. appears. <i><ps></ps></i> displays the power unit (either PS1 or PS2) that was removed. [Explanation of message variables] <i><ps></ps></i> : PS1 or PS2 [Action] None.				
8	R8	PS	0000007	2200	The direction of the fan of $< ps >$ is normal.
	The direction of the fan matches between the fan unit and the power supply unit. <pre><pre><pre><pre>displays a power supply unit (either PS1 or PS2) that has a matching fan direction. [Explanation of message variables]</pre><pre><pre><pre><pre><pre><pre><pre><</pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>				
9	R8	PS	00000102	2200	Power unit is mounted redundantly or mode changed.
	The power u [Explanation None. [Action] None.	nit is in a redu 1 of message va	ndant configura ariables]	tion. The operation	ation mode was changed.

3.7.2 Event location = EQUIPMENT

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

#	Event level	Event location	Message ID	Added info Highest4	Message text	
	digits					
1	E3	EQUIPM ENT	00000003	2101	Failed in accumulated running time access to main.	
	Access to the [Explanation None. [Action] This event do management	e total operatir of message v pes not affect o function. If y	ng time for the s ariables] communication ou want to use t	witch failed. and usual oper his function, re	ration. However, you cannot use the total operating time place the device.	
2	E3	EQUIPM ENT	00020106	2101	The temperature of hardware reached the warning level (<i><temperature></temperature></i> degree).	
	The hardware has reached the temperature that is set with the system temperature-warning-level configuration command. [Explanation of message variables] <temperature>: Intake air temperature of the device (in Celsius). [Action] The temperature of the device has reached the specified temperature. Check the environment surrounding the device (condition of the fan, ventilation, existence of the heat sources, etc.).</temperature>					
3	E3	EQUIPM ENT	00020107	2101	The temperature of hardware came down from the warning level.	
	The hardware temperature has been 3 degrees Celsius or more lower than the temperature that is set with the system temperature-warning-level configuration command. [Explanation of message variables] None. [Action] None.					
4	E3	EQUIPM ENT	25040b01	2101	Layer-2 hardware table entry can't be registered. Change to recommended l2-table mode <i><mode></mode></i> .	
	An entry could not be registered in the Layer 2 hardware table. Change the search method for the Layer 2 hard table to <i><mode></mode></i> . [Explanation of message variables] <i><mode></mode></i> : Search method of the Layer 2 hardware table after the change [Action] None.				table. Change the search method for the Layer 2 hardware fter the change	
5	E3	EQUIPM ENT	25040b02	2101	Layer-2 hardware table entry can't be registered. The recommended l2-table mode is <i><mode></mode></i> .	
	An entry could not be registered in the Layer 2 hardware table. The search method for the most optimal Layer 2 hardware table is <mode>. [Explanation of message variables] <mode>: Search method of the most optimal Layer 2 hardware table [Action] When using the search method displayed in this message, change the configuration command system 12-table mode, and execute the restart vlan command.</mode></mode>					

Table 3-16: Device failure and event information when the event location is EQUIPMENT

#	Event level	Event location	Message ID	Added info Highest4 digits	Message text
				Desc	ription
6	E3	EQUIPM ENT	25040b03	2101	The recommended l2-table mode can't be selected.
	The search n [Explanation None. [Action] Review the s	nethod for the n of message v system configu	most optimal L ariables] ıration.	ayer 2 hardwar	e table could not be selected.
7	E3	EQUIPM ENT	25040c01	2101	Corrected memory soft errors.
	The system has recovered from a memory software error. Some frames may be discarded because of the software error. [Explanation of message variables] None. [Action] None. This indicates that the memory data bits inside a switch processor might have been abruptly altered (for example by cosmic rays from a solar flare) and a software error is issued temporarily. This is not a hardware failure.				
8	E7	EQUIPM ENT	00020102	2101	Hardware exceeded tolerance level of low temperature(<i><temperature></temperature></i> degree). Check room temperature.
	The hardware temperature went below the permissible temperature range (<temperature> degrees Celsius or lower [Explanation of message variables] <temperature>: -10 [Action] 1. Check and, if necessary, improve the environment such as the room temperature around the switches. 2. Check and, if necessary, replace the fan.</temperature></temperature>				
9	E7	EQUIPM ENT	00020103	2101	Hardware exceeded tolerance level of high temperature (<i><temperature></temperature></i> degree). Check that room temperature and the fan is operating normally.
	The hardware temperature rose above the permissible temperature range (<temperature> degrees Celsius or higher). [Explanation of message variables] For AX3800S: <temperature>: 50 (equipped with FAN-04) <temperature>: 45 (equipped with FAN-04R) For AX3650S: <temperature>: 50 [Action] 1. Check and improve the environment such as ventilation and heat sources around the switches. 2. Check and, if necessary, replace the fan.</temperature></temperature></temperature></temperature>				
10	E8	EQUIPM ENT	25040201	2101	Hardware restarted because of its failure.
	ENT The switch was restarted because a hardware failure occurred at the switch. [Explanation of message variables] None. [Action] Check subsequent fault recovery log entries or fault recovery failure log entries. If the recovery was successful, operations can resume. If the recovery failed, replace the device.				

#	Event level	Event location	Message ID	Added info Highest4 digits	Message text
		I	I	Desc	ription
11	E8	EQUIPM ENT	25040400	2101	Hardware restarted, but not recovered.
	The device re [Explanation None. [Action] Replace the S	estarted, but it of message v Switch.	has not recover ariables]	red from a harc	lware failure.
12	Е9	EQUIPM ENT	00020105	2101	Hardware is becoming high temperature which give damage to this system. (<i><temperature></temperature></i> degree).
	The hardware temperature has reached a temperature (<temperature> degrees Celsius or higher) that is likely to critically damage device operation. [Explanation of message variables] <temperature> Detected temperature (60 degrees Celsius or higher) [Action] 1. Check and improve the environment such as ventilation and heat sources around the switches. 2. Check and, if necessary, replace the fan.</temperature></temperature>				
13	R7	EQUIPM ENT	00020102	2101	The temperature of hardware returned to normal level (<i><temperature></temperature></i> degree).
	The hardware temperature returned to normal (<i><temperature></temperature></i> degrees Celsius). [Explanation of message variables] <i><temperature></temperature></i> : -7 [Action] None				
14	R7	EQUIPM ENT	00020103	2101	The temperature of hardware returned to normal level (<i><temperature></temperature></i> degree).
	The hardware temperature returned to normal (<i><temperature></temperature></i> degrees Celsius). [Explanation of message variables] For AX3800S: <i><temperature></temperature></i> : 47 (equipped with FAN-04) <i><temperature></temperature></i> : 42 (equipped with FAN-04R) For AX3650S: <i><temperature></temperature></i> : 47 [Action] None.				
15	R8	EQUIPM ENT	25040200	2101	Hardware initialized.
	The hardwar [Explanation None. [Action] None.	e has been init	tialized. ariables]	1	1

#	Event level	Event location	Message ID	Added info Highest4 digits	Message text
				Desc	ription
16	R8	EQUIPM ENT	25040201	2101	Hardware recovered.
	The switch recovered from a hardware failure. [Explanation of message variables] None. [Action] None.				

3.7.3 Event location = FAN

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

#	Event level	Event location	Message ID	Added info	Message text
				digits	
				Desc	ription
1	E3	FAN	00000003	1800	Failed in accumulated running time access to <i><fan></fan></i> .
	Access to the total operating time for the fan unit failed. <fan> displays a fan unit (either FAN1 or FAN2) for which access to the total operating time has failed. [Explanation of message variables] <fan>: FAN1 or FAN2 [Action] This event does not affect communication and usual operation. However, you cannot use the total operating time management function. If you want to use this function, replace the fan unit.</fan></fan>				
2	E3	FAN	00000004	1800	Failed in accumulated running time access to the fan unit.
	Access to the total operating time for the fan unit failed. [Explanation of message variables] None. [Action] This event does not affect communication and usual operation. However, you cannot use the total operating time management function. If you want to use this function, replace the fan unit.				
3	E3	FAN	0000007	1800	The direction of the fan changed to <i><airflow></airflow></i> .
	The fan direction of the fan unit was changed. <airflow> displays the direction of the fan in the replaced fan unit. [Explanation of message variables] <airflow>: Fan direction of the fan unit • F-to-R: Intake air at the front and exhaust air at the rear • R-to-F: Intake air at the rear and exhaust air at the front [Action] None.</airflow></airflow>				

Table 3-17: Device failure and event information when the event location is FAN

#	Event level	Event location	Message ID	Added info Highest4 digits	Message text
				Desci	ription
4	E8	FAN	00000002	1800	<fan> stopped.</fan>
	 The displayed fan has stopped or is not implemented. <fan> displays a fan that has stopped or is not implemented.</fan> [Explanation of message variables] Any of FAN1(1), FAN2(1), FAN3(2), FAN3(3), or FAN3(4) [Action] 1. Check the implementation status of the power supply unit or fan unit. Check the implementation status either visually or by using the show system command. 2. If the power supply unit or fan unit has failed, replace it. 				
5	E8	FAN	00000006	1800	Fan unit is unknown.
	 The fan unit is unknown. [Explanation of message variables] None. [Action] 1. The fan unit might not be fully inserted. Insert the fan unit properly. 2. The software of this version does not support the fan unit. Check the type of the fan unit and the software version. Either change the fan unit, or update the software. 3. The Switch does not support the fan unit. Replace the fan unit. 				
6	R8	FAN	00000002	1800	<i><fan></fan></i> is normal.
	The displayed fan is in a normal state. <fan> displays a fan in a normal state. [Explanation of message variables] Any of FAN1(1), FAN2(1), FAN3(1), FAN3(2), FAN3(3), or FAN3(4) [Action] None.</fan>				
7	R8	FAN	00000006	1800	Unknown fan unit was removed.
	An unknown This messag [Explanation None. [Action] None.	R8 FAN 0000006 1800 Unknown fan unit was removed. An unknown fan unit was removed. This message is displayed when an unknown fan unit is removed after the log Fan unit is unknown. appears. [Explanation of message variables] None. [Action] None			

Chapter 4. Tracking Object Log [OS-L3SA]

This chapter describes the log data output by the tracking functionality of the policy-based routing.

4.1 Tracking object log

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The following table describes the tracking object log.

Table 4-1: Tracking object log

#	Message text	Description
1	Track object < <i>track object id</i> > is up.	Event (local device)
	(type ICMF, address < <i>destination</i> address> [VRF < <i>vrf</i> id>])	The tracking status of the policy-based routing has transitioned from Down to Up. [Explanation of message variables] <track id="" object=""/> : Tracking ID of the policy-based routing <destination address="">: Polling destination address <vrf id="">: VRF ID [Action] None.</vrf></destination>
2	Track object < <i>track object id</i> > is down.	Event (local device)
	address> [VRF <vrf id="">])</vrf>	The tracking status of the policy-based routing has transitioned from Up to Down. [Explanation of message variables] <track id="" object=""/> : Tracking ID of the policy-based routing <destination address="">: Polling destination address <vrf id="">: VRF ID [Action] None.</vrf></destination>

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