AX6700S/AX6600S/AX6300S Software Manual

# Message and Log Reference For Version 11.7

AX63S-S008X-C0



#### ■ Relevant products

This manual applies to the models in the AX6700S, AX6600S, and AX6300S series of switches. It also describes the functionality of version 11.7 of the software for the AX6700S, AX6600S, and AX6300S series switches. The described functionality is that supported by the OS-S/OS-SE basic software and optional licenses.

#### **■** Export Restrictions

In the event that any or all ALAXALA products (including technologies, programs and services) described or contained herein are controlled under any of applicable export control laws and regulations (including the Foreign Exchange and Foreign Trade Law of Japan and United States export control laws and regulations), such products shall not be exported without obtaining the required export licenses from the authorities concerned in accordance with the above laws.

#### **■** Trademarks

Cisco is a registered trademark of Cisco Systems, Inc. in the United States and other countries.

Ethernet is a registered trademark of Xerox Corporation.

Internet Explorer is either a registered trademark or trademark of Microsoft Corporation in the United States and other countries.

IPX is a trademark of Novell, Inc.

Microsoft is either a registered trademark or trademark of Microsoft Corporation in the United States and other countries.

Octpower is a registered trademark of NEC Corporation.

sFlow is a registered trademark of InMon Corporation in the United States and other countries.

UNIX is a registered trademark of The Open Group in the United States and other countries.

VitalQIP and VitalQIP Registration Manager are trademarks of Lucent Technologies.

VLANaccessClient is a trademark of NEC Soft, Ltd.

VLANaccessController and VLANaccessAgent are trademarks of NEC Corporation.

Windows is a registered trademark of Microsoft Corporation in the United States and other countries.

Other company and product names in this document are trademarks or registered trademarks of their respective owners.

#### ■ 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.

#### ■ Note

Information in this document is subject to change without notice.

#### **■** Edition history

January 2012 (Edition 13) AX63S-S008X-C0

#### ■ Copyright

All Rights Reserved, Copyright(C), 2006, 2012, ALAXALA Networks, Corp.

# **History of Amendments**

# [For Version 11.7]

#### Summary of amendments

Location and title	Changes
1.2 Checking logs	A description of the tracking object log was added.
2.4.1 PIM-SM/PIM-DM	Log messages related to the IPv4 PIM-SM relay-forwarding functionality during a system switchover were added.
3.4.1 Event location = SOFTWARE	<ul> <li>Log messages related to policy-based routing and policy-based switching were added.</li> <li>Log messages related to the policy-based routing tracking functionality were added.</li> </ul>
5 Tracking Object Log	This chapter was added.

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

# [For Version 11.5]

#### Summary of amendments

Item	Changes
Log type	Notes were added to Table 1-4 Features of the operation log and reference log.
PIM-SM/PIM-DM	A description related to PIM-DM was added.
Event location = SOFTWARE	<ul> <li>Log messages related to managing the switch were added.</li> <li>A description of the tracking functionality was changed.</li> <li>Log messages related to IPv4 multicast routing were added.</li> </ul>
Event location = BCU	Log messages related to managing the switch were added.
Event location = CSU	Log messages related to managing the switch were added.
Event location = MSU	Log messages related to managing the switch were added.

# [For Version 11.4]

#### Summary of amendments

Item	Changes
Event location = ACCESS	A description of VRF was added.
Event location = SOFTWARE	<ul> <li>A description of VRF was added to log messages related to SNMP.</li> <li>Log messages related to IPv6 DHCP relays were added.</li> <li>Log messages related to the traffic-based power saving functionality were added.</li> <li>Descriptions of traffic-based power saving were added to log messages related to the traffic-based power saving functionality.</li> <li>Log messages related to DHCP snooping were added.</li> </ul>
Event location = NIF	Log messages related to NIF redundancy were added.

#### [For Version 11.3]

#### Summary of amendments

Item	Changes
Checking the log	A description of the access list log was added.

Item	Changes
IPv6 multicast routing information (MR6)	Log messages related to VRF were added.
Event location = SOFTWARE	<ul> <li>A description of VRF was added to log messages related to IPv6 multicasts.</li> <li>Log messages related to IPv6 multicasts were added.</li> <li>Log messages related to access list logging were added.</li> </ul>
Access list log	This chapter was added.

# [For Version 11.2]

# Summary of amendments

Item	Changes
BGP4+	A description of VRF was added.
Common to IPv6 unicast routing protocols	Log messages related to VRF were added.
Event location = VLAN (Ring Protocol)	Log messages related to path switch-back suppression functionality were added.
Event location = SOFTWARE	<ul> <li>A description of VRF was added to log messages related to NTP.</li> <li>Log messages related to VRRP tracking functionality were added.</li> </ul>
Event location = BCU	Log messages related to health checks were added.
Event location = CSU	Log messages related to health checks were added.
Event location = MSU	Log messages related to health checks were added.

# [For Version 11.1]

#### Summary of amendments

Item	Changes
RIP	Log messages related to authentication were added.
Event location = VLAN (CFM)	This subsection was added.
Event location = SOFTWARE	Log messages related to the power saving functionality were added.
Event location = PS	A description of CSU was added.
Control and switching unit	This section was added.
Event location = MSU	Log messages related to unknown MSU boards were added.
Log information for the system operation panel (KEY)	A description of the AX6600S series switches was added.
Log information for the system operation panel (RSP)	A description of the AX6600S series switches was added.

# [For Version 11.0]

#### Summary of amendments

Item	Changes
RIP	A description of VRF was added.
OSPF	A description of VRF was added.
BGP4	A description of VRF was added.

Item	Changes
Common to IPv4 unicast routing protocols	Log messages related to VRF were added.
PIM-SM	A description of VRF was added.
Event location = VLAN	Log messages for clearing the MAC address table by receiving ordinary Flush Request frames were added.
Event location = VLAN (GSRP)	Log messages for when the automatic master wait time elapsed were added.
Event location = SOFTWARE	<ul> <li>Log messages related to the VRRP group switchover functionality were added.</li> <li>Log messages related to multicasts were added.</li> <li>A description of VRF was added to log messages related to multicasts.</li> <li>Log messages were added in regards to supporting the option license OP-NPAR.</li> </ul>
Event location = NIF	Log messages related to the layering shaper were added.
Event location = PORT	<ul> <li>Log messages indicating that the half duplex mode is unsupported were added.</li> <li>Log messages related to the layering shaper were added.</li> </ul>
Event location = NK1GS-8M	This subsection was added.
Event location = NH1GS-6M	This subsection was added.

# [For Version 10.7]

# Summary of amendments

Item	Changes
BGP4	Log messages related to BGP4 were added.
BGP4+	Log messages related to BGP4+ were added.
PIM-SM	Log messages related to registering packets were changed.
Event location = VLAN	The descriptions related to running the Ring Protocol and Multiple Spanning Tree together were changed.
Event location = VLAN (GSRP)	The descriptions related to running the Ring Protocol and GSRP together were changed.
Event location = VLAN (detecting L2 loops)	This subsection was added.
Event location = SOFTWARE	Log messages related to detecting L2 loops were added.

# [For Version 10.6]

# Summary of amendments

Item	Changes
Event location = CONFIG	Log messages indicating configurations corresponding to NIF boards were added.
Event location = SOFTWARE	Log messages related to MAC-based authentication were added.
Event location = BSU	Log messages were added because the BSU's fixed mode is now available.

# [For Version 10.5]

# Summary of amendments

Item	Changes
Common to IPv4 unicast routing protocols	A new log message (item number 2) was added.

# [For Version 10.4]

# Summary of amendments

Item	Changes
Event location = VLAN (Ring Protocol)	This subsection was added.
Event location = SOFTWARE	Log messages related to the Ring Protocol were added.

# [For Version 10.3]

#### Summary of amendments

Item	Changes
OSPF	New log messages (item numbers 13 to 16) were added.
BGP4	New log messages (item numbers 103 to 105) were added.
OSPFv3	New log messages (item numbers 13 to 16) were added.
BGP4+	New log messages (item numbers 100 to 102) were added.
IPv6 PIM-SM	New log messages (item numbers 23 to 24) were added.
Event location = ACCESS	<ul> <li>Log messages related to local command authentication were added.</li> <li>Log messages related to dial-up connections were added.</li> </ul>
Event location = VLAN	Log messages related to IGMP snooping and MLD snooping were added.
Event location = SOFTWARE	<ul> <li>Log messages related to IEEE802.3ah/UDLD were added.</li> <li>Log messages related to Web authentication were added.</li> <li>Log messages related to IGMP snooping and MLD snooping were added.</li> <li>Log messages related to sFlow were added.</li> </ul>
Event location = BSU	This subsection was added.
Event location = PORT	<ul> <li>Log messages related to IEEE802.3ah/UDLD were added.</li> <li>Log messages related to storm control were added.</li> </ul>
Event location = BCU	This subsection was added.
Basic switching unit	This section was added.
AX6700S series network interface board	This section was added.
AX6300S series network interface board	<ul> <li>The following items were added:</li> <li>Event location = NH1G-24T</li> <li>Event location = NH1G-24S</li> <li>Event location = NH10G-4RX</li> <li>Event location = NH10G-8RX</li> </ul>

# **Preface**

#### Applicable products and software versions

This manual applies to the models in the AX6700S, AX6600S, and AX6300S series of switches. The manual describes the functionality in software version 11.7 for the AX6700S, AX6600S, and AX6300S series switches that is supported by the OS-S/OS-SE basic software and 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 functionality applicable to AX6700S, AX6600S, and AX6300S series switches. Functionality specific to a model is indicated as follows:

#### [AX6700S]:

The description applies to the AX6700S series.

#### [AX6600S]:

The description applies to the AX6600S series.

#### [AX6300S]:

The description applies to the AX6300S series.

Unless otherwise noted, this manual describes functionality applicable to the basic software OS-S/OS-SE. Functionality specific to an optional license is indicated as follows:

#### [OP-BGP]:

The description applies to optional license OP-BGP.

#### [OP-DH6R]:

The description applies to the optional license OP-DH6R.

#### [OP-MBSE]:

The description applies to the optional license OP-MBSE.

#### [OP-NPAR]:

The description applies to optional license OP-NPAR.

#### [OP-VAA]:

The description applies to the optional license OP-VAA.

#### 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

AX6700S
Quick Start Guide
(AX67S-Q001X)

AX6600S
Quick Start Guide
(AX66S-Q001X)

AX6300S
Quick Start Guide
(AX63S-Q001X)

Determining the hardware setup requirements and how to handle the hardware

AX6700S
Hardware Instruction Manual
(AX67S-H001X)

AX6600S
Hardware Instruction Manual
(AX66S-H001X)

AX6300S
Hardware Instruction Manual
(AX66S-H001X)

#### • Understanding the software functions, configuration settings, and operation commands

 $\nabla$  First, see the following guides to check the functions and device capacities.

- Device capacities Filtering and QoS IPv4 and IPv6 packet
- Basic operations, such as Layer 2 authentication logging in High-reliability functionality
- forwarding
  ality IPv4 and IPv6 routing
  protocols

Configuration Guide Vol. 1 (AX63S-S001X) Configuration Guide Vol. 2 (AX63S-S002X) (AX63S-S003X)

 $\ensuremath{\nabla}$  If necessary, see the following references.

- VLANs and Spanning Tree

**Protocols** 

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

Configuration
Command Reference Vol. 1
(AX63S-S004X)

Configuration
Command Reference Vol. 2
(AX63S-S010X)

Command Reference Vol. 3
(AX63S-S010X)

Command Reference Vol. 3
(AX63S-S005X)

Operation Command Reference
Vol. 1

(AX63S-S006X)
Operation Command Reference
Vol. 2

(AX63S-S011X)
Operation Command Reference
Vol. 3

(AX63S-S007X)

- Understanding messages and logs

Message and Log Reference
(AX63S-S008X)

- Understanding MIBs

MIB Reference (AX63S-S009X)

How to troubleshoot when a problem occurs

Troubleshooting Guide
(AX36S-T001X)

#### Conventions: The terms "Switch" and "switch"

The term Switch (upper-case "S") is an abbreviation for any or all of the following models: AX6700S series switch

#### AX6600S series switch

#### AX6300S 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

ICMPv6 ID

IEC

Identifier

ΔC Alternating Current ACK ACKnowledge Asymmetric Digital Subscriber Line ADSL ALG Application Level Gateway ANSI American National Standards Institute Address Resolution Protocol ARP Autonomous System AS Auxiliary AUX BCU Basic Control Unit Border Gateway Protocol BGP BGP4 Border Gateway Protocol - version 4 BGP4+ Multiprotocol Extensions for Border Gateway Protocol - version 4 bits per second (can also appear as bps) bit/s BPDU Bridge Protocol Data Unit Basic Rate Interface BRI Basic Switching Unit BSU Continuity Check CC CDP Cisco Discovery Protocol Connectivity Fault Management CFM 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 Cyclic Redundancy Check CRC CKC CSMA/CD Carrier Sense Multiple Access with Collision Detection CSNP Complete Sequence Numbers PDU CST Common Spanning Tree CSU Control and Switching Unit Destination Address DA Direct Current DC Data Circuit terminating Equipment DCE Dynamic Host Configuration Protocol DHCP Draft International Standard/Designated Intermediate System DIS DNS Domain Name System DR Designated Router Destination Service Access Point DSAP DSCP Differentiated Services Code Point Data Terminal Equipment DTE DVMRP Distance Vector Multicast Routing Protocol E-Mail Electronic Mail Extensible Authentication Protocol EAPOL EAP Over LAN EFM Ethernet in the First Mile ES End System Fan Unit FAN Frame Check Sequence FCS Filtering DataBase FDB FTTH Fiber To The Home GBIC GigaBit Interface Converter GSRP Gigabit Switch Redundancy Protocol HMAC Keyed-Hashing for Message Authentication TANA Internet Assigned Numbers Authority ICMP Internet Control Message Protocol

Internet Control Message Protocol version 6

International Electrotechnical Commission

Institute of Electrical and Electronics Engineers, Inc. TEEE

the Internet Engineering Task Force TETE TGMP Internet Group Management Protocol

ΤP Internet Protocol IPCP IP Control Protocol

IPv4 Internet Protocol version 4 IPv6 Internet Protocol version 6 TPV6CP IP Version 6 Control Protocol IPX Internetwork Packet Exchange

International Organization for Standardization ISO

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 Low Latency Priority Queueing LLPO

LLQ+3WFQ Low Latency Queueing + 3 Weighted Fair Queueing

LLRLQ Low Latency Rate Limited Queueing

LSP Label Switched Path LSP Link State PDU

LSR Label Switched Router Maintenance Association MA MAC Media Access Control MC Memory Card Message Digest 5 MD5

MDI

Medium Dependent Interface

MDI-X Medium Dependent Interface crossover Maintenance association End Point MEP

MIB Management Information Base

MIP Maintenance domain Intermediate Point

Maximum Receive Unit MRU

Multiple Spanning Tree Instance MSTI MSTP Multiple Spanning Tree Protocol MSU Management and Switching Unit

MTU Maximum Transfer Unit NAK Not AcKnowledge NAS Network Access Server NAT Network Address Translation NCP Network Control Protocol NDP Neighbor Discovery Protocol NET Network Entity Title

NIF Network Interface

NLA ID Next-Level Aggregation Identifier

NPDU Network Protocol Data Unit NSAP Network Service Access Point

Not So Stubby Area NSSA Network Time Protocol NTP

OADP Octpower Auto Discovery Protocol

OAM Operations, Administration, and Maintenance

OSPF Open Shortest Path First

Organizationally Unique Identifier OUI

packet/s packets per second (can also appear as pps)

PAD PADding

Port Access Entity PAE PCPersonal Computer

Protocol Control Information PCT

Protocol Data Unit PDU

PICS Protocol Implementation Conformance Statement

PTD Protocol IDentifier

PTMProtocol Independent Multicast

PIM-DM Protocol Independent Multicast-Dense Mode Protocol Independent Multicast-Sparse Mode PTM-SM

PIM-SSM Protocol Independent Multicast-Source Specific Multicast

PRI Primary Rate Interface PS Power Supply

PSNP Partial Sequence Numbers PDU PSP Packet Switching Processor

QoS Quality of Service RA Router Advertisement

RADIUS Remote Authentication Dial In User Service

RDI Remote Defect Indication

REJ REJect

RFC Request For Comments
RGQ Rate Guaranteed Queueing
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
SMTP Simple Mail Transfer Protocol
SNAP Sub-Network Access Protocol
SNMP Simple Network Management Protocol

SNP Sequence Numbers PDU

SNPA Subnetwork Point of Attachment

SOP System Operational Panel
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

uRPF unicast Reverse Path Forwarding

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
WGQ Weighted Guaranteed Queueing
WRED Weighted Random Early Detection

WS Work Station
WWW World-Wide Web

XFP 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 1024<sup>2</sup> bytes. 1 GB (gigabyte) is 1024<sup>3</sup> bytes. 1 TB (terabyte) is 1024<sup>4</sup> bytes.

# Contents

Preface	
Applicable products and software versions	
Corrections to the manual	
Intended readers	
Manual URL	i
Reading sequence of the manuals	i
Conventions: The terms "Switch" and "switch"	i
Abbreviations used in the manual	
Conventions: KB, MB, GB, and TB	V
1. Operation Messages and Logs	1
1.1 Checking operation messages	
1.1.1 Message types	
1.1.2 Contents of operation messages	2
1.1.3 Format of operation messages	
1.1.4 Outputting operation messages	3
1.2 Checking logs	
1.2.1 Log type	
1.2.2 Log contents	5
1.2.3 Format of operation logs	
1.2.4 Format of the reference log	
1.2.5 Code information for logs	8
1.2.6 Automatically saving and viewing logs	11
2. Routing Event Information	13
2.1 IPv4 routing protocol information (RTM)	12
2.1.1 RIP	
2.1.2 OSPF	18
2.1.3 BGP4 [OP-BGP]	23
2.1.4 Event information common to the IPv4 unicast routing protocol.	45
2.2 IPv6 routing protocol information (RTM)	47
2.2.1 RIPng	
2.2.2 OSPFv3	
2.2.3 BGP4+ [OP-BGP]	53
2.2.4 Event information common to the IPv6 unicast routing protocols	
2.3 IPv6 routing information (RTM)	
2.3.1 RA	
2.4 IPv4 multicast routing information (MRP)	
2.4.1 PIM-SM/PIM-DM	
2.5.1 IPv6 PIM-SM	
3. Switch Failure and Event Information	93
3.1 Configuration	
3.1.1 Event location = CONFIG	
3.2 Access	
3.2.1 Event location = ACCESS	
3.3 Protocol	
3.3.1 Event location = IP	
3.3.2 Event location = VLAN	100

3.3.3 Event location = VLAN (Ring Protocol)	
3.3.4 Event location = VLAN (GSRP)	
3.3.5 Event location = VLAN (L2 loop detection)	132
3.3.6 Event location = VLAN (CFM)	134
3.3.7 Event location = MAC	135
3.4 Switch parts	
3.4.1 Event location = SOFTWARE	
3.4.2 Event location = SOFTWARE (authentication VLAN) [OP-VAA]	
3.4.3 Event location = BSU [AX6700S]	
3.4.4 Event location = NIF	
3.5 Port	
3.5.1 Event location = PORT	
3.6 Optional modules	
3.6.1 Event location = FAN	
3.6.2 Event location = PS	
3.7 Basic control unit [AX6700S]	
3.7.1 Event location = BCU	
3.8 Basic switching unit [AX6700S]	
3.8.1 Event location = BSU-LA	
3.8.2 Event location = BSU-LB	
3.9 Control and switching unit [AX6600S]	
3.9.1 Event location = CSU	
3.10 Management switching unit [AX6300S]	
3.10.1 Event location = MSU	
3.11 AX6700S and AX6600S series network interface unit [AX6700S] [AX6600S]	
3.11.1 Event location = NK1G-24T	
3.11.2 Event location = NK1G-245	
3.11.3 Event location = NK1GS-8M	
3.11.4 Event location = NK10G-4RX	
3.11.5 Event location = NK10G-8RX	
3.12 AX6300S series network interface unit [AX6300S]	
3.12.1 Event location = NH1G-16S	
3.12.2 Event location = NH1G-24T	
3.12.3 Event location = NH1G-24S	
3.12.4 Event location = NH1G-48T	
3.12.5 Event location = NH1GS-6M	
3.12.6 Event location = NH10G-1RX	
3.12.7 Event location = NH10G-4RX	
3.12.8 Event location = NH10G-8RX	279
4. Access List Logs	281
4.1 Access list log	282
5. Tracking Object Log	285
5.1 Tracking object log	286
6. System Operation Panel Operation Log Information	287
6.1 Operation log information for the system operation panel (KEY) [AX6700S]	288
6.2 Operation log information for the system operation panel (KEY) [AX6600S]	200
[AX6300S]	
6.3 Operation log information for the system operation panel (RSP) [AX6700S]	
6.4 Operation log information for the system operation panel (RSP) [AX6600S] [AX6	_
Index	303

# Chapter

# 1. Operation Messages and Logs

This chapter explains the operation messages and logs, which are used in the event of a failure to identify where errors have occurred.

- 1.1 Checking operation messages
- 1.2 Checking logs

#### 1.1 Checking operation messages

The Switch outputs to an operation terminal as operation messages changes in the operating status, failure information, and other kinds of information for the administrator. As well as being output to the terminal, operation messages are stored internally as an operation log. 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. Of these messages, those containing routing protocol event information and the failure and event information output by the Switch are called *operation messages*.

Table 1-1: Message types and references

Message type	Description	Reference
Configuration error message	Messages output by the Switch related to input of a configuration command	Error Messages on Configuration Editing in the Configuration Command Reference
Command response messages	Messages output by the Switch for command input	Response Messages section of each command in the Operation Command Reference
Operation message	Event information for routing protocols	2. Routing Event Information
	Device failure information and event information	3. Switch Failure and Event Information

#### 1.1.2 Contents of operation messages

Event information for routing protocols includes both functional items output by the Switch 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.

Table 1-2: Support status of operation messages

Category	Function item	Operation message
Event information for routing	IPv4 routing information	Yes
protocols	IPv4 multicast routing information	No
	IPv6 routing information	Yes
	IPv6 multicast routing information	No
Switch failure and event	Error information for a switch event location	Yes
information	Event information for a switch event location	Yes

#### Legend:

Yes: Messages are displayed.

No: Messages are not displayed.

#### 1.1.3 Format of operation messages

#### (1) Event information for routing protocols

The following figure shows the format of the event information for routing protocols.

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) Switch failure and event information

The following figure shows the format of the switch failure and event information.

Figure 1-2: Format of switch failure and event information

- 1. Time: Displays the date and time when the event indicated in the message occurred.
- 2. Event level
- 3. Event location or functionality
- 4. Event interface ID. Whether this information is displayed depends on the event location.
- 5. Message identifier
- 6. Additional information
- 7. Message text

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

#### 1.1.4 Outputting operation messages

#### (1) Event information for routing protocols

Routing protocol event information reports the operating status of the 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.

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

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

Legend: --: Not applicable.

# (2) Switch failure and event information

All switch failure and event information messages are output to the operation terminal window. Depending on the error severity or the 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 logs

#### 1.2.1 Log type

The Switch acquires two types of logs: an operation log and a reference log. The operation log acquires entered commands, 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 statistical information for device failure and event information within the operation message.

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

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

Item	Operation log	Reference log
Log contents	Events that occurred are acquired in chronological order.#1,#2	Statistical information is recorded for each event, such as the time of the first and last occurrences, and the total number of occurrences.
Maintenance information that is acquired	<ul> <li>Entered commands</li> <li>Command response messages</li> <li>Event information for routing protocols</li> <li>Switch failure and event information</li> <li>Access list log</li> </ul>	Switch failure and event information
Number of acquired entries	<ul> <li>10000 entries can be acquired. Within those, the first 5000 log entries are saved chronologically.</li> <li>The remaining 5000 entries consist of older entries whose log type is KEY, RSP, ERR, or EVT.</li> <li>One entry contains 80 characters. If an acquired entry contains 100 characters, it is divided between two entries.</li> </ul>	500 entries can be acquired.     If the number of log entries exceeds 500, entries that have a lower event level will be deleted, and new entries are acquired.
Overflow processing when the log size is exceeded	<ul> <li>If the number of log entries exceeds 5000, whether old entries are deleted or saved depends on the log type.</li> <li>Excess old entries whose log type is not KEY, RSP, ERR, or EVT are deleted.</li> <li>Excess old entries whose log type is KEY, RSP, ERR, or EVT are saved as entries 5001 to 10000. If the number of log entries exceeds 10000, old log entries are deleted.</li> </ul>	If the number of log entries exceeds 500 entries, entries that have a lower event level are deleted, and new entries are acquired.

#1: Log messages indicating the reason the switch is rebooted are collected after log messages indicating that the switch started, even though the timestamps of log messages indicating the reason the switch rebooted come before the timestamps of log messages indicating that the switch started.

#2: If a log message related to a switch failure and a log message containing event information are generated at the same time, events with the same time might not be displayed in the chronological order that the events occurred in, or log messages might be displayed in reverse chronological order when log messages related to switch failures and log messages containing event information occur at the same time as other types of log messages.

#### 1.2.2 Log contents

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

Category	Description	Operatio n log	Referenc e log	Reference	
Entered commands	Commands entered from the operation terminal by operators	Yes	No		
Command response messages	Messages output by switches to respond to entered commands	Yes	No	Response Messages section of each command in the Operation Command Reference	
Event information for routing	Routing protocol event information	Yes	No	2. Routing Event Information	
protocols	IPv4 multicast routing information	Yes	No		
	IPv6 routing protocol information	Yes	No		
	IPv6 multicast routing information	Yes	No		
Switch failure and event information	Error information for a switch event location	Yes	Yes	3. Switch Failure and Event Information	
	Event information for a switch event location	Yes	Yes		

Yes

Yes

No

No

4. Access List Logs

5. Tracking Object Log

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

#### Legend:

Access list log

Tracking object

Yes: Messages are displayed or log data is acquired.

Information output by

Information about the

policy-based routing tracking functionality

filter

access list logging about the packets discarded by a

No: Messages are not displayed, log data is not acquired.

--: Not applicable.

### 1.2.3 Format of operation logs

Current messages are saved on the device as operation log data. When log data is stored, it is formatted with a *log type* for output as operation messages to the window.

#### (1) Event information for routing protocols

The following figure shows the format of the event information for entered commands, command response messages, and routing protocols.

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

 $\frac{\text{kkk}}{1} \quad \frac{\text{mm/dd hh:mm:ss}}{2} \quad \frac{\text{ttttttttttt-tttttttttt}}{3}$ 

- 1. Log type: A three-letter identification code assigned to each provided functionality.
  - · KEY: Operational information selected by entered commands

- RSP: Event information related to command response messages.
- RTM, MRP, and MR6: Event information for a routing protocol
- 2. Time: Date and time that the event occurred
- Message text

#### (2) Switch failure and event information

The following figure shows the format of the switch failure and event information.

Figure 1-4: Format of switch failure and event information

- 1. Log type: A three-letter identification code assigned to 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. Event level
- 4. Event location or functionality
- 5. Event interface ID. Whether this information is displayed depends on the event location.
- 6. Message identifier
- 7. Additional information
- 8. Message text

#### (3) Access list log

The following figure shows the format of the access list log.

Figure 1-5: Format of the access list log

$$\frac{kkk}{1} \qquad \frac{mm/dd \ hh:mm:ss}{2} \qquad \frac{ttttttttttttttttttttttt}{3}$$

- 1. Log type: A three-letter identification code assigned to each provided functionality.
  - ACL: Access list log
- 2. Time: Date and time that the event occurred
- Message text

#### (4) Tracking object log

The following figure shows the format of the tracking object log.

Figure 1-6: Format of the tracking object log

$$\frac{\text{kkk}}{1} \quad \frac{\text{mm/dd hh:mm:ss}}{2} \quad \frac{\text{tttttttttttttttttttt}}{3}$$

- 1. Log type: A three-letter identification code assigned to each provided functionality.
  - TRO: Event information about the policy-based routing tracking functionality
- 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 log data in the order the error or event occurs, and are also saved as reference log data. A reference log categorizes information by message ID, and then records the time of the first and last occurrences of an event and the total number of occurrences.

The following figure shows the format of a reference log entry.

Figure 1-7: Format of a reference log entry

- 1. Event level (E9 to E3)
- 2. Event location or functionality
- 3. Event interface ID. Whether this information is displayed depends on the event location.
- 4. Message identifier
- 5. Additional information
- 6. Date and time of the last occurrence of the applicable error
- 7. Date and time of the first occurrence of the 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 assigned to the operation log entries:

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

The table below describes the correspondence between the information acquired as log entries and log entry type. An event level is assigned to switch failure and event information in an operation log and to a reference log.

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 information	RTM	IPv4 or IPv6 routing information	
mormation	MRP	IPv4 multicast routing information	
	MR6	IPv6 multicast routing information	

Information to be acquired	Log type	Description	Event level
Switch failure and event information	ERR	Error information for a switch event location	E9 to E5
event information	EVT	Event information for a switch event location	E4, E3, R8 to R5
Access list log	ACL	Information output by access list logging about the packets discarded by a filter	
Layer 2 authentication information	AUT	Information collected by a Layer 2 authentication function program. This information is displayed by the corresponding operation command.  • show dot1x logging  • show web-authentication logging  • show mac-authentication logging	
DHCP snooping information	DSN	Information collected by DHCP snooping. This information is displayed by the corresponding operation command.  • show ip dhcp snooping logging	
Tracking object log	TRO	Information about the policy-based routing tracking functionality	

Legend: --: Not applicable.

# (2) Event levels

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

*Table 1-7:* Event levels and their contents

Event level	Display contents (type)	Description
9	E9 (fatal error)	This failure stops the entire Switch. (The system might be restarted or operation might stop.)
8	E8 (critical error) R8 (recover from critical error)	This error stops a fan, the power supply, or a part of the switch.  • If this error is due to a hardware error, the applicable hardware is restarted.
7	E7 (software error) R7 (recover from software error)	This error stops part of the software.
6	E6 (partial failure) R6 (recover from partial failure)	This failure stops some of the switch components (including an NIF).
5	E5 (error in the other system) R5 (recovery from an error in the other system)	This error is a redundancy error (switching is disabled).
4	E4 (network error)	This error is information related to lines (LAN).
3	E3 (warning)	This error is a warning.

Note that on recovery from an error whose event level is from E5 to E9, a relevant operation message whose event level is from R5 toR8 is output. Also, when an error from E5 to E9 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 locations

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

Table 1-8: Event locations

#	ID	Event location or functionality
1	CONFIG	Configuration
2	ACCESS	Switch access permissions control
3	IP	IP control functionality
4	VLAN	VLAN control functionality
5	MAC	MAC control functionality
6	SOFTWARE	Software control functionality
7	BSU	BSU control functionality
8	NIF	NIF control functionality
9	PORT	Port control functionality
10	FAN	Fan unit control functionality
11	PS	Power supply control functionality
12	BCU	Basic control unit
13	BSU-LA	Basic switching unit BSU-LA
14	BSU-LB	Basic switching unit BSU-LB
15	CSU	Control switching unit
16	MSU	Management and switching unit
17	NK1G-24T	24 10BASE-T, 100BASE-TX, or 1000BASE-T lines
18	NK1G-24S	24 1000BASE-X (SFP) lines
19	NK1GS-8M	Four 10BASE-T, 100BASE-TX, 1000BASE-T, or 1000BASE-X SFP lines (user selectable) with the hierarchical shaper and four 1000BASE-X SFP lines with the hierarchical shaper
20	NK10G-4RX	Four 10GBASE-R (XFP) lines
21	NK10G-8RX	Eight 10GBASE-R (XFP) lines
22	NH1G-16S	16 1000BASE-X (SFP) lines
23	NH1G-24T	24 10BASE-T, 100BASE-TX, or 1000BASE-T lines
24	NH1G-24S	24 1000BASE-X (SFP) lines
25	NH1G-48T	48 10BASE-T, 100BASE-TX, or 1000BASE-T lines
26	NH1GS-6M	Four 10BASE-T, 100BASE-TX, or 1000BASE-T lines with the hierarchical shaper and two 1000BASE-X SFP lines with the hierarchical shaper
27	NH10G-1RX	One 10GBASE-R (XFP) line
28	NH10G-4RX	Four 10GBASE-R (XFP) lines
29	NH10G-8RX	Eight 10GBASE-R (XFP) lines

#### (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
BSU: bsu no.>	BSU part
NIF: <nif no.=""></nif>	NIF part
GigabitEthernet <nif no.="">/<port no.=""></port></nif>	An Ethernet interface with a maximum line speed of 1000 Mbit/s
TenGigabitEthernet < nif no. > / < port no. >	An Ethernet interface with a maximum line speed of 10 Gbit/s
MGMT 0	Management port

#### Legend:

<br/>
<br/>
bsu no.>: BSU number

<nif no.>: NIF number

<port no.>: Port number

#### (5) Message identifier and additional information

This information contains a code that indicates the contents of the event that occurred. For details about this information, see 3. Switch Failure and Event Information.

#### (6) First and last time of 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 times the applicable event occurs if there are multiple occurrences. The total is the number of event occurrences counting from the start of log acquisition to the present. If the applicable event occurs 255 times or more, the number of occurrences will be indicated as 255.

#### 1.2.6 Automatically saving and viewing logs

#### (1) Saving logs automatically

The following describes the occasions when the operation logs and reference logs are automatically saved to internal flash memory. The table below describes where the logs are saved. Note that if the configuration command no logging syslog-dump 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 E5 to E9 occurs
- 3. When the Switch is restarted by using the reload 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 switch

Table 1-10: Location of saved logs

Log type	Location of internal memory
Operation 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 viewed by using the show logging command. These logs can also be acquired 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 where the created files are stored when redirection is specified for a command.

Table 1-11: Storage directory

Item	Storage directory	Remarks
Home directory for the user	/usr/home/< <i>user-account-name</i> >/	Files are stored in internal memory.
Temporary directory	/tmp/	When the switch stops due to a loss of power or execution of the reload command, stored files are 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 the *logging facility* in the manual *Configuration Command Reference Vol. 2 For Version 11.7*.

#### (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 the email functionality, a transmission error occurs.

For details about the email functionality, see *logging email-from* in the manual *Configuration Command Reference Vol. 2 For Version 11.7* or *logging email-server* in the manual *Configuration Command Reference Vol. 2 For Version 11.7*.

# Chapter

# 2. Routing Event Information

This chapter explains the contents of routing event information. Routing protocol event information reports the operating status of the 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 the event information for the IPv4 routing protocol.

#### 2.1.1 RIP

The following table describes the event information of the IPv4 routing protocol information (RTM).

Table 2-1: IPv4 routing protocol (RIP) event information

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

#	Message text	Description
5	rip_recv:	Error (local device or remote device)
	Ignoring RIP < rip command> packet from < source address> [(VRF < vrf id>)] - authentication failure [(Key-ID < key id>)]	A received RIP packet is ignored because of an authentication error.  Output of this operation message is as follows:  1. For the first 16 events, the message is output for each event.  2. For the 17th and subsequent events, the message is output once every 256 events.  3. If events occur three or more minutes after the last event has occurred, the message is output as described in 1 and 2 above.  Note that the counting described above includes the number of times the following messages are output:  rip_recv: Ignoring RIP < rip command> packet from < source address> [(VRF < vrf id>)] - illegal authentication type  rip_recv: Ignoring RIP < rip command> packet from < source address> [(VRF < vrf id>)] - illegal authentication key identifier (Key-ID < key id>)  rip_recv: Ignoring RIP < rip command> packet from < source address> [(VRF < vrf id>)] - illegal authentication sequence number (Key-ID < key id>)  [Explanation of message variables] <rr> <rr> <riprommand>: Received message type   Invalid, Request, Response, TraceOn, TraceOff, Poll, PollEntry   <source address=""/>: Source gateway   <vrf id="">: VRF ID   <key id="">: Key ID   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.</key></vrf></riprommand></rr></rr>
6	rip_recv: Ignoring RIP < rip command> packet from < source address> [(VRF < vrf id>)] - TRACE packets not supported	Warning (remote device)  A received RIP packet is ignored because TRACE packets are not supported.  [Explanation of message variables] <ri>rip command&gt;: Received message type  TraceOn, TraceOff  <source address=""/>: Source gateway  <ri>rid&gt;: VRF ID  [Action]  Check the specifications of the unicast routing program (RIP) for the source gateway.</ri></ri>
7	rip_init:	Error (local device)
	Old copy of rtm is running	The unicast routing program might already be running. The unicast routing program will be restarted automatically. [Explanation of message variables] None. [Action] Take action in response to the rtm aborted log entry.

#	Message text	Description
8	RIP:	Error (local device)
	The total number of RIP targets is more than the maximum permitted	The total number of RIP targets (neighboring) exceeds the maximum number permitted.  [Explanation of message variables]  None.  [Action]  Check and revise the RIP settings so that the maximum number of neighboring routers does not exceed the capacity limits.
9	rip_recv:	Error (remote device)
	Ignoring RIP < rip command> packet from < source address> [(VRF < vrf id>)] - illegal authentication type	A received RIP packet is ignored because the authentication type of authentication information is invalid.  Output of this operation message is as follows:  1. For the first 16 events, the message is output for each event.  2. For the 17th and subsequent events, the message is output once every 256 events.  3. If events occur three or more minutes after the last event has occurred, the message is output as described in 1 and 2 above.  Note that the counting described above includes the number of times the following messages are output:  rip_recv: Ignoring RIP <rip command=""> packet from <source address=""/> [(VRF <vrf id="">)] - authentication failure [(Key-ID <key id="">)]  rip_recv: Ignoring RIP <rip command=""> packet from <source address=""/> [(VRF <vrf id="">)] - illegal authentication key identifier (Key-ID <key id="">)  rip_recv: Ignoring RIP <rip command=""> packet from <source address=""/> [(VRF <vrf id="">)] - illegal authentication sequence number (Key-ID <key id="">)  ip_recv: Ignoring RIP <rip command=""> packet from <source address=""/> [(VRF <vrf id="">)] - illegal authentication sequence number (Key-ID <key id="">)</key></vrf></rip></key></vrf></rip></key></vrf></rip></key></vrf></rip>
		[Explanation of message variables] <pre> <rip command="">: Received message type  • Invalid, Request, Response, TraceOn, TraceOff, Poll,</rip></pre>

Message text	Description
rip_recv:	Error (local device or remote device)
rip_recv: Ignoring RIP < rip command > packet from < source address > [(VRF < vrf id >)] - illegal authentication key identifier (Key-ID < key id >)	A received RIP packet is ignored because the key identifier of authentication information is invalid.  Output of this operation message is as follows:  1. For the first 16 events, the message is output for each event.  2. For the 17th and subsequent events, the message is output once every 256 events.  3. If events occur three or more minutes after the last event has occurred, the message is output as described in 1 and 2 above.  Note that the counting described above includes the number of times the following messages are output:  rip_recv: Ignoring RIP <rip command=""> packet from <source address=""/> [(VRF <vrf id="">)] - authentication failure [(Key-ID <key id="">)]  rip_recv: Ignoring RIP <rip command=""> packet from <source address=""/> [(VRF <vrf id="">)] - illegal authentication type rip_recv: Ignoring RIP <rip command=""> packet from <source address=""/> [(VRF <vrf id="">)] - illegal authentication sequence number (Key-ID <key id="">)  [Explanation of message variables]  <ri>rip command&gt;: Received message type  Invalid, Request, Response, TraceOn, TraceOff, Poll, PollEntry  <source address=""/>: Source gateway  <vrf id="">: VRF ID  <key id="">: Key ID  [Action]  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.</key></vrf></ri></key></vrf></rip></vrf></rip></key></vrf></rip>
	rip_recv: Ignoring RIP < rip command> packet from < source address> [(VRF < vrf id>)] - illegal authentication key identifier (Key-ID

#	Message text	Description
11	rip_recv:	Error (remote device)
	Ignoring RIP < rip command> packet from < source address> [(VRF < vrf id>)] - illegal authentication sequence number (Key-ID < key id>)	A received RIP packet is ignored because the sequence number of authentication information is invalid.  Output of this operation message is as follows:  1. For the first 16 events, the message is output for each event.  2. For the 17th and subsequent events, the message is output once every 256 events.  3. If events occur three or more minutes after the last event has occurred, the message is output as described in 1 and 2 above.  Note that the counting described above includes the number of times the
		following messages are output:  rip_recv: Ignoring RIP < rip command > packet from < source address > [(VRF < vrf id >)] - authentication failure [(Key-ID < key id >)]  rip_recv: Ignoring RIP < rip command > packet from < source address > [(VRF < vrf id >)] - illegal authentication type rip_recv: Ignoring RIP < rip command > packet from < source address > [(VRF < vrf id >)] - illegal authentication key identifier (Key-ID < key id >)]
		<pre>[Explanation of message variables] <rip command="">: Received message type • Invalid, Request, Response, TraceOn, TraceOff, Poll,     PollEntry <source address=""/>: Source gateway <vrfid>: VRF ID <key id="">: Key ID [Action] Check the unicast routing program (RIP) of the source gateway.</key></vrfid></rip></pre>

#### 2.1.2 **OSPF**

The following table describes the event information of the IPv4 routing protocol information (RTM).

Table 2-2: IPv4 routing protocol (OSPF) event information

#	Message text	Description
1	OSPF SENT <source address=""/> -> <destination address=""> [(VRF <vrf id="">)] : <error string=""></error></vrf></destination>	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  <vrfid>: VRF ID  <error string="">: Error cause  [Action]</error></vrfid></destination>
		If this error occurs frequently, check the cause of the error.

#	Message text	Description
2	OSPF:	Information (remote device)
	Helper to adjacency < <i>router id&gt;</i> address < <i>address&gt;</i> [(VRF < <i>vrf id&gt;</i> )] failed because restart time is up.	The helper router operations stopped because the waiting time for restart elapsed.  [Explanation of message variables] <router id="">: Router ID of the neighboring router  <address>: IPv4 address of the neighboring router  <vrf id="">: VRF ID  [Action]  Check if the neighboring router has stopped the restart operation. If the operation has not stopped, adjust the restart time of the neighboring router.</vrf></address></router>
3	OSPF:	Warning (local device or network)
	Helper to adjacency < router id > address < address > [(VRF < vrf id >)] failed because network topology is changed.	The helper router operations stopped because the topology was changed.  [Explanation of message variables] <router id="">: Router ID of the neighboring router  <address>: IPv4 address of the neighboring router  <vrf id="">: VRF ID  [Action]  None.</vrf></address></router>
4	OSPF RECV [Area < area id>]	Warning (local device or remote device)
	<pre><source address=""/> -&gt; <destination address=""> [(VRF <vrfid>)] : <log type="">.</log></vrfid></destination></pre>	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 being logged.  [Explanation of message variables] <area id=""/> : Area ID <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a id="" rea="">: Area ID  <a< td=""></a<></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a>
		<ul> <li>OSPF: bad authentication type</li> <li>OSPF: bad authentication key</li> <li>OSPF: interface down</li> <li>HELLO: netmask mismatch</li> <li>HELLO: hello timer mismatch</li> <li>HELLO: dead timer mismatch</li> <li>HELLO: NBMA neighbor unknown</li> </ul>

#	Message text	Description
		<ul> <li>HELLO: extern option mismatch</li> <li>DD: extern option mismatch</li> <li>HELLO: router id confusion</li> <li>DD: router id confusion</li> </ul>
		<ul> <li>LS ACK: Unknown LSA type</li> <li>LS REQ: empty request</li> <li>LS REQ: bad request</li> <li>LS UPD: LSA checksum bad</li> </ul>
		[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>
		<ul> <li>IP: bad protocol</li> <li>IP: received my own packet</li> <li>OSPF: bad packet type</li> <li>OSPF: bad version</li> <li>OSPF: bad checksum</li> <li>OSPF: packet too small</li> <li>OSPF: packet size &gt; ip length</li> <li>OSPF: bad area id  A neighboring router has sent invalid packets. Check the unicast routing program (OSPF) of the new neighboring router.</li> <li>OSPF: unknown neighbor  Non-Hello packets were received from a neighboring router that is not recognized by Hello, but no action is required.</li> </ul>
		<ul> <li>OSPF: area mismatch</li> <li>OSPF: bad virtual link</li> <li>If packets are received from the new neighboring router, modify the area settings. In other cases, no action is required.</li> </ul>
		<ul> <li>OSPF: bad authentication type</li> <li>OSPF: bad authentication key Modify the authentication settings.</li> </ul>
		OSPF: interface down None.
		<ul> <li>HELLO: netmask mismatch</li> <li>HELLO: hello timer mismatch</li> <li>HELLO: dead timer mismatch</li> <li>HELLO: NBMA neighbor unknown Modify the OSPF interface settings.</li> </ul>
		<ul> <li>HELLO: extern option mismatch</li> <li>DD: extern option mismatch Modify the stub area settings.</li> </ul>
		<ul> <li>HELLO: router id confusion</li> <li>DD: router id confusion Modify the router ID settings.</li> </ul>

#	Message text	Description
		<ul> <li>LS ACK: Unknown LSA type</li> <li>LS REQ: empty request</li> <li>LS REQ: bad request</li> <li>LS UPD: LSA checksum bad A neighboring router has sent invalid packets. Check the unicast routing program (OSPF) of the new neighboring router.</li> </ul>
5	OSPF:	Error (local device)
	Abort due to <address> mask <mask1> advertisement was blocked by LSA <lsid> mask <mask2> Age <age>.</age></mask2></lsid></mask1></address>	There is a conflict between LSDB < lsid> and the route.  The unicast routing program will be restarted automatically.  [Explanation of message variables] <address>: Destination address for the route information  <a style="color: blue;">mask1&gt;: Route information network mask</a> <li>lsid&gt;: LSA LSID  <a style="color: blue;">mask2&gt;: LSA network mask</a> <a style="color: blue;">aborted log entry.</a>  Take action in response to the rtm aborted log entry.</li></address>
6	OSPF: Lost adjacency < router id > address < address > ( <interface name="">) due to sequence mismatch (<sequence1> versus &lt; sequence2&gt;)</sequence1></interface>	Warning (local device or remote device)
		A neighboring router was lost due to a sequence mismatch.  [Explanation of message variables] <router id="">: Router ID of the neighboring router  <address>: IPv4 address of the neighboring router  <interface name="">: Interface name  <sequence1>: Sequence number in the 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 < router id> address < address> (< interface name>) because no Hello received recently.	Adjacency was terminated because Hello packets that should be sent periodically from the neighboring router were not received during a given interval. This occurs when the neighboring router is deactivated, or if a problem occurs in communication between this device and neighboring router.  [Explanation of message variables] <router id="">: Router ID of the neighboring router  <address>: IPv4 address of the neighboring router  <interface name="">: Interface name  [Action]  If this warning occurs frequently, reduce the interval for sending Hello packets (hellointerval) and extend the maximum interval for receiving Hello packets (routerdeadinterval).</interface></address></router>

#	Message text	Description
8	OSPF: Lost adjacency < router id > address < address > (< interface name >) because neighbor didn't receive my Hello recently.	Warning (remote device or network)
		Adjacency was terminated because the neighboring router no longer recognizes this device. This occurs when the neighboring router is restarted or Hello packets sent by this device are not properly received by the neighboring router.  [Explanation of message variables] <router id="">: Router ID of the neighboring router  <address>: IPv4 address of the neighboring router  <interface name="">: Interface name  [Action]  If this warning occurs frequently, reduce the interval for sending Hello packets (hellointerval) and extend the maximum interval for receiving Hello packets (routerdeadinterval).</interface></address></router>
9	OSPF: Lost adjacency < router id1> address	Error (remote device)
	<address>(<interface name="">) due to bad LS Request (<lsid> <router id2=""> <ls type="">).</ls></router></lsid></interface></address>	A neighboring router was lost due to an invalid LS request.  [Explanation of message variables] <router id1="">: Router ID of the neighboring router  <address>: IPv4 address of the neighboring router  <interface name="">: Interface name  <lsid>: LSA LSID  <router id2="">: LSA advertising router ID  <ls type="">: LSA LS type code  [Action]  Check the unicast routing program (OSPF) of the new neighboring router.</ls></router></lsid></interface></address></router>
10	OSPF: Adjacency < router id > address < address > (< interface name > ) is established.	Information (local device or remote device)
		A connection with the OSPF neighboring router was successfully established.  [Explanation of message variables] <router id="">: Router ID of the neighboring router  <address>: IPv4 address of the neighboring router  <interface name="">: Interface name  [Action]  None.</interface></address></router>
11	OSPF: Checksum failed at LSA type < ls 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>].	Error (local device)
		LSDB checksum is invalid. The unicast routing program will be restarted automatically.  [Explanation of message variables] <li>ls type&gt;: LSA LS type code <lsid>: LSA LSID : LSA advertising router ID <area id=""/>: LSA area ID <domain id="">: LSA domain ID   <ur> vrf id&gt;: VRF ID   [Action]   Take action in response to the rtm aborted log entry.</ur></domain></lsid></li>
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] <vrfid>: VRF ID  <domain id="">: OSPF domain ID  [Action]  None.</domain></vrfid>

#	Message text	Description
13	OSPF: Graceful restart failed (in [(VRF < vrf id>)] domain < domain id>) because adjacency < router id> address < address> doesn't help me.	Warning (remote device or network)
		Graceful restart has failed because the neighboring router was not operating as the helper router.  [Explanation of message variables]  < vrf id>: VRF ID  < domain id>: OSPF domain ID  < router id>: Router ID of the neighboring router  < address>: IPv4 address of the neighboring router  [Action]  Check the configuration of graceful restart for the neighboring router.
14	OSPF:	Warning (remote device or network)
	Graceful restart failed (in [(VRF < vrf id>)] domain < domain id>) because adjacency < router id> address < address> gives up me	Graceful restart has failed because the neighboring router stopped helper router operations.  [Explanation of message variables]  < vrf id>: VRF ID  < domain id>: OSPF domain ID  < router id>: Router ID of the neighboring router  < address>: IPv4 address of the neighboring router  [Action]  If this warning occurs frequently, check the OSPF status of the neighboring router and the cause of helper functionality termination.
15	OSPF:	Warning (local device)
	Graceful restart failed (in [(VRF < vrf id>)] domain < domain id>) because restart time is up.	Graceful restart failed because all neighboring routers that were connected before the restart cannot be reconnected and LSA synchronization cannot be completed within the restart time.  [Explanation of message variables]  < vrf id>: VRF ID  < domain id>: OSPF domain ID  [Action]  Check the configuration of the restart time.
16	OSPF:	Information (local device)
	Graceful restart finished successfully (in [(VRF < vrf id >)] domain < domain id >).	Graceful restart was completed successfully.  [Explanation of message variables]  < vrf id>: VRF ID  < domain id>: OSPF domain ID  [Action]  None.

# 2.1.3 BGP4 [OP-BGP]

The following table describes the event information of the IPv4 routing protocol information (RTM).

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

#	Message text	Description
1	bgp_check_auth:	Error (remote device)
	Synchronization failure with BGP task <task name=""></task>	The value of the header marker of the message received by BGP4 task is invalid.  [Explanation of message variables]  < task name>: BGP4 task name  [Action]  Check the unicast routing program (BGP4) on the peer.

#	Message text	Description
2	bgp_trace: Unsupported BGP version < version >!!!	Error (local device)
		The BGP version number in the control data is invalid. The unicast routing program will be restarted automatically.  [Explanation of message variables] <version>: BGP version number in the control data  [Action]  Take action in response to the rtm aborted log entry.</version>
3	bgp_log_notify:	Error (remote device)
	Notify message received from name> [( <description>)] is truncated (length <length>)</length></description>	The length of the NOTIFICATION message received from the relevant peer is invalid.  [Explanation of message variables]  bgp name>: Source peer name <description>: Source peer description name  <length>: Received message length  [Action]  Check the unicast routing program (BGP4) on the peer.</length></description>
4	bgp_send:	Warning (local device)
	Sending < length> bytes to < bgp name> [(< description>)] blocked (no spooling requested): < error string>	An attempt to send a message to the relevant peer failed because the socket buffer was full.  [Explanation of message variables]               An attempt to send a message to the relevant peer failed because the socket buffer was full.  [Explanation of message variables]                                                                                                                                                                                                                                                                                           
5	bgp_send:	Warning (local device)
	Sending < length > bytes to < bgp name > [(< description >)] failed: < error string >	An attempt to send a message to the relevant peer failed.  [Explanation of message variables]    
6	bgp_send:	Warning (local device, remote device, or network)
	Sending < length > bytes to < bgp name > [(< description >)]: connection closed	An attempt to send a message to the relevant peer failed due to a disconnection.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                                 <b< td=""></b<>

#	Message text	Description
7	bgp_send: Sending to <bgp name=""> [(<description>)] looping: <error string=""></error></description></bgp>	Warning (local device)
		The retry count was exceeded during sending of a message to the relevant peer.  [Explanation of message variables] <a bases="" bgp="" expression.org="" href="https://docs.org/best-ex-red-red-red-red-red-red-red-red-red-red&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;8&lt;/td&gt;&lt;td&gt;bgp_send_open:&lt;/td&gt;&lt;td&gt;Error (local device)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Internal error! peer &lt;i&gt;&lt; bgp name &gt;&lt;/i&gt; [(&lt;i&gt;&lt; description &gt;&lt;/i&gt;)], version &lt;i&gt;&lt; version &gt;&lt;/i&gt;&lt;/td&gt;&lt;td&gt;The BGP version number of the OPEN message to be sent to the relevant peer is invalid. The unicast routing program will be restarted automatically.  [Explanation of message variables]  &lt;br/&gt; &lt;br/&gt; bgp name&gt;: Destination peer name  &lt;br/&gt; description&gt;: Destination peer description name  &lt;version&gt;: BGP version number in the send message  [Action]  Take action in response to the rtm aborted log entry.&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;9&lt;/td&gt;&lt;td&gt;bgp_path_attr_error from &lt; routine &gt;:&lt;/td&gt;&lt;td&gt;Error (remote device)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Update error subcode &lt;code&gt; (&lt;error string&gt;) for peer &lt;bgp name&gt; [(&lt;description&gt;)] detected. &lt;length&gt; bytes error data - 1st five:&lt;error data&gt;&lt;/td&gt;&lt;td&gt;An error was detected in the UPDATE message received from the relevant peer.  [Explanation of message variables]  &lt;routine&gt;: Internal routine name  &lt;code&gt; (&lt;error string&gt;): Error cause  &lt;bgp name&gt;: Source peer name  &lt;description&gt;: Source peer description name  &lt;length&gt;: Error data length  &lt;error data&gt;: First five bytes of error data  [Action]  Check the unicast routing program (BGP4) on the peer.&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;10&lt;/td&gt;&lt;td&gt;bgp_recv:&lt;/td&gt;&lt;td&gt;Warning (local device)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Read from peer &lt; bgp name&gt; [(&lt;description&gt;)] failed: &lt;error string&gt;&lt;/td&gt;&lt;td&gt;An attempt to receive a message from the relevant peer failed.  [Explanation of message variables]  &lt;br/&gt; An attempt to receive a message from the relevant peer failed. &lt;br/&gt; [Explanation of message variables] &lt;br/&gt; &lt;br/&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;11&lt;/td&gt;&lt;td&gt;bgp_recv:&lt;/td&gt;&lt;td&gt;Warning (local device, remote device, or network)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Peer &lt; bgp name &gt; [(&lt; description &gt;)]: Received unexpected EOF&lt;/td&gt;&lt;td&gt;An attempt to receive a message from the relevant peer failed due to a disconnection.  [Explanation of message variables]  &lt;a href=" mailto:="" name"="">/expression.org/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/base</a>

#	Message text	Description
12	bgp_read_message: Peer Peer logp name> [( <description>)]: <message type=""> message arrived with length <length></length></message></description>	Error (remote device)
		An invalid-length message was received from the relevant peer.  [Explanation of message variables] <a href="mailto:speech"><a href="mailto:speech"><a< td=""></a<></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a>
13	bgp_read_message:	Error (remote device)
	Peer **psi name > [( <description>)]:  **message type1 &gt; arrived, expected  **message type2 &gt; [or <message type2="">  ]</message></description>	A message whose message type is inappropriate for the current state was received from the relevant peer.  [Explanation of message variables] <a href="mailto:bgp name"><a hre<="" td=""></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a>
14	bgp_get_open: Peer Peer logp_name> [( <description>)]: received short version   message (<length> octets)</length></description>	Error (remote device)
		An invalid-length OPEN message was received from the relevant peer.  [Explanation of message variables] <a href="mailto:space-name"><a href="mailto:space-name"><b style="mailto:space-name"><a href="mailto:space-name"><a href="&lt;/td"></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></b></a></a>
15	bgp_get_open:	Warning (remote device)
	Received unsupported version < version > message from peer < bgp name > [(< description >)]	An OPEN message whose BGP version is unsupported was received from the relevant peer.  [Explanation of message variables] <pre> <version>: BGP version number in the received message   Action] </version></pre> Make sure that the peer supports the BGP version 4.
16	bgp_get_open:	Error (remote device)
	Peer < bgp name > [(< description >)]: hold time too small (< holdtime >)	An OPEN message whose hold time is less than three seconds was received from the relevant peer.  [Explanation of message variables] <a href="mailto:bgp name">bgp name</a> : Source peer name <a href="mailto:description">description</a> : Source peer description name <a href="mailto:holdtime">holdtime</a> : Hold time in the received message  [Action]  Check the configuration of the peer.

#	Message text	Description
17	bgp_get_open: Peer bgp_name> [( <description>)]:</description>	Error (remote device)
	reer < ogp name > [(< description > )]: invalid BGP identifier < router id >	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>: Source peer description name  <router id="">: BGP identifier in the received message  [Action]  Check the unicast routing program (BGP4) on the peer.</router></description>
18	bgp_get_open:	Error (remote device)
	Peer bgp name> [( <description>)]:  Unsupported optional parameter  <option></option></description>	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>: Source peer description name <option>: Option code in the received message  [Action]  Check the unicast routing program (BGP4) on the peer.</option>
19	bgp_recv_open:	Warning (local device or remote device)
	Peer bgp name> [( <description>)] claims AS <as1>, <as2> configured</as2></as1></description>	An OPEN message that has a different AS number than the configured AS number was received from the relevant peer.  [Explanation of message variables] <a href="mailto:space"><a href="mailto:space"></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a>

#	Message text	Description
22	bgp_pp_recv:	Warning (remote device or network)
	Rejecting connection from   ( <description>)], peer in state &lt;<state></state></description>	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>: Source peer description name <state>: Peer state   Idle, OpenConfirm, Established [Action] The connection is unstable. If this error occurs frequently, check the cause of the instability.</state>
23	bgp_pp_recv:	Warning (remote device)
	Dropping <i><bgpp name=""></bgpp></i> version <i><version></version></i> , <i><bgp name=""></bgp></i> [( <i><description></description></i> )] wants version 4	An OPEN message whose BGP version is unsupported was received from the relevant peer.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                                <br< td=""></br<>
24	bgp_pp_recv:	Error (remote device)
	Peer bgp name> [( description>)] 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>: Source peer description name  [Action]  Check the unicast routing program (BGP4) on the peer.</description>
25	bgp_check_capability_match:	Warning (remote device)
	Capability of peer <i><bgp name=""></bgp></i> [( <i><description></description></i> )] is unmatched	The capability settings specified for this device are not specified for the relevant peer.  [Explanation of message variables] <a href="mailto:specified"><a href="mailto:specified">&lt;</a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a>
26	bgp_write_flush:	Warning (local device)
	Sending < length1 > (sent < length2 >) bytes to < bgp name > [(< description >)] failed: < error string >	An attempt to send a message to the relevant peer failed.  [Explanation of message variables] <length1>: Length of the data requested to be sent  <length2>: Length of the sent data  <bgp name="">: Destination peer name  <description>: Destination peer description name  <error string="">: Error cause  [Action]  If this error occurs frequently, check the cause of the error.</error></description></bgp></length2></length1>

#	Message text	Description
27	bgp_write_flush: Sending < length1> (sent < length2>) bytes to < bgp name> [(< description>)]: Connection closed	Warning (local device, remote device, or network)
		An attempt to send a message to the relevant peer failed due to a disconnection.  [Explanation of message variables] <length1>: Length of the data requested to be sent  <length2>: Length of the sent data    <br <="" td=""/></length2></length1>
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 string=""></error></i>	The retry count was exceeded during sending of a message to the relevant peer.  [Explanation of message variables] <a href="https://docs.org/best-nation-peer">https://docs.org/best-nation-peer name</a> <a href="https://docs.org/december-10.25">description-peer name</a> <a href="https://docs.org/december-10.25">description-peer description name</a> <a href="https://docs.org/december-10.25">description-peer description-peer descr</a>
29	bgp_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	bgp_connect_start: Peer bgp name> [( description>)] local address <ipv4 address=""> unavailable, connection failed</ipv4>	Warning (local device)  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]                                                                                                                                                                                                                                                                                                                <
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] <a href="mailto:bgp name">bgp name</a> : Connection destination peer name <a href="mailto:description">description</a> : Connection destination peer description name  [Action]  Check the unicast routing program (BGP4) on the peer.

#	Message text	Description
32		Warning (local device)
	Error sending KEEPALIVE to name> [( <description>)]: <error </error  string&gt;</description>	An attempt to send a KEEPALIVE message to the relevant peer failed.  [Explanation of message variables]               An attempt to send a KEEPALIVE message to the relevant peer failed.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                   
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 occurs frequently, check 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 process that establishes a connection will terminate.  [Explanation of message variables]  None.  [Action]  If the error occurs frequently, check the unicast routing program (BGP4) on 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 will be restarted automatically.  [Explanation of message variables]  None.  [Action]  Take action in response to the rtm aborted log entry.
36	bgp_listen_start:	Error (local device)
	listen: <error string=""></error>	Preparation for accepting a connection failed. The unicast routing program will be restarted automatically.  [Explanation of message variables] <ul> <li>error string&gt;: Error cause</li> </ul> [Action]  Take action in response to the rtm aborted log entry.
37	bgp_set_peer_if: BGP peer [( <description>)] interface not found. Leaving peer idled</description>	Warning (local device)
		The interface connected to the relevant peer was not found.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                                     

#	Message text	Description
38	bgp_set_peer_if: BGP peer [( <description>)] local address <ipv4 </ipv4  address&gt; not on shared net. Leaving peer idled</description>	Warning (local device)
		The local address used for establishing a connection to the relevant peer is not on the same network.  [Explanation of message variables] <a href="mailto:bgp name">bgp name</a> : Connection destination peer name <a href="mailto:description">description</a> >: Connection destination peer description name <a href="mailto:ipv4">ipv4 address</a> : Local address used for establishing a connection  [Action]  Check the configuration.
39	bgp_pp_timeout:	Warning (remote device or network)
	Peer < bgpp name > timed out waiting for OPEN	The timer for waiting for an OPEN message from the relevant peer timed out.  [Explanation of message variables] <a href="mailto:bgpp name">bgpp name</a> : Connection destination peer name  [Action]  Check the unicast routing program (BGP4) on the peer.
40	bgp_peer_init:	Warning (local device)
	BGP peer < bgp name> [( <description>)] local address &lt; ipv4 address&gt; not found. Leaving peer idled</description>	The interface for the local address used for establishing a connection to the relevant peer is not found.  [Explanation of message variables] <a href="mailto:bgp name">bgp name</a> : Connection destination peer name <a href="mailto:description">description</a> >: Connection destination peer description name <a href="mailto:ipv4">ipv4 address</a> : Local address used for establishing a connection  [Action]  Check the configuration.
41	bgp_recv_v4_update:	Error (remote device)
	Peer < bgp name > [(< description >)]: Strange message header length < length >	The message length in the message header of a message received from the relevant peer is invalid.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                              <br< td=""></br<>
42	bgp_recv_v4_update: Peer Peer logp name > [( description >)] unrecognized message type type >	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>: Source peer description name  <type>: Message type  [Action]  Check the unicast routing program (BGP4) on the peer.</type></description>

#	Message text	Description
43	bgp_recv_v4_update: Received OPEN message from <bgp name=""> [(<description>)], state is ESTABLISHED</description></bgp>	Warning (remote device or network)
		An OPEN message was received from the relevant peer in the ESTABLISHED state.  [Explanation of message variables]  bgp name>: Source peer name <description>: Source peer description name  [Action]  The connection is unstable. If this error occurs frequently, check the cause of the instability.</description>
44	bgp_recv_v4_update:	Error (remote device)
	Peer < bgp name > [(< description >)] UPDATE length < length > too small	The length of the UPDATE message from the relevant peer is too short.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                                   <
45	bgp_recv_v4_update: Peer Peer logp name> [( <description>)] UPDATE unreachable prefix length   length1&gt; exceeds packet length <length2></length2></description>	Error (remote device)  The prefix length of unreachable route information of the UPDATE message from the relevant peer exceeds the packet length.  [Explanation of message variables] <a href="mailto:space"></a>
46	bgp_recv_v4_update:	Error (remote device)
	Peer < bgp name> [(< description>)] UPDATE zero attribute length followed by < length> 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]                                                                                                                                                                                                                                                                                                                              
47	bgp_recv_v4_update:	Error (remote device)
	Peer Peer log name > [( log description >)] 	The path attribute length of the UPDATE message from the relevant peer is too long when compared with the actual path attribute length.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                        <

#	Message text	Description
48	bgp_recv_v4_update:	Error (remote device)
	Peer bgp name> [( <description>)]  UPDATE no next hop found</description>	The next-hop attribute is not found in the UPDATE message from the relevant peer.  [Explanation of message variables] <a href="https://docs.org/bey/by-name">by-name</a> : Source peer name <a href="https://deck.org/description">description</a> >: Source peer description name  [Action]  Check the unicast routing program (BGP4) on the peer.
49	bgp_recv_v4_update:	Error (remote device)
	External peer < bgp name > [(< description >)] UPDATE included LOCALPREF attribute	The LOCALPREF attribute is included in the UPDATE message from the relevant external peer.  [Explanation of message variables] <a href="https://docs.org/bey/by-name">by-name</a> : Source peer name <a href="https://description">description</a> >: Source peer description name  [Action]  Check the unicast routing program (BGP4) on the peer.
50	bgp_recv_v4_update:	Error (remote device)
	Peer bgp name> [( <description>)]  UPDATE no LOCALPREF attribute found</description>	The LOCALPREF attribute is not found in the UPDATE message from the relevant internal peer.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                               <br< td=""></br<>
51	bgp_recv_v4_update:	Error (remote device)
	Peer Peer Peer   ( description   )   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] <a href="https://docs.org/bgp.name">bgp name</a> : Source peer name <a href="https://description">description</a> : Source peer description name  [Action]  Check the unicast routing program (BGP4) on the peer.
52	bgp_recv_v4_unreach:	Error (remote device)
	Peer Peer log pame   [( description >)] UPDATE: Invalid unreachable prefix length length >	The prefix length of the unreachable route information in the UPDATE message received from the relevant peer is invalid.  [Explanation of message variables] <a href="mailto:bgp name"><a href="mailto:bgp name"><b a="" name<="" peer="" source=""> <a href="mailto:description"><a href="mailto:bgp name"><a href="mailto:bgp name"></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></b></a></a>

#	Message text	Description
53	bgp_recv_v4_unreach: Peer < bgp name > [(< description >)] UPDATE: Prefix length < length! > exceeds unreachable prefix data remaining (< length2 > bytes)	Error (remote device)
		The prefix length of the unreachable route information in the UPDATE message received from the relevant peer exceeds the prefix data of the unreachable route information.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                  <b< td=""></b<>
54	bgp_recv_v4_unreach:	Warning (remote device)
	Peer < bgp name > [(< description >)] UPDATE: Ignoring unreachable route with two or more labels (< length1 > of < length2 >)	The routes of unreachable route information that has multiple labels in the UPDATE message received from the relevant peer will be ignored.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                       <br< td=""></br<>
55	bgp_recv_v4_unreach:	Error (remote device)
	Peer < bgp name > [(< description >)] UPDATE: Ignoring unreachable route with RD 0 prefix (< length1 > of < length2 >)	The routes of unreachable route information that has RD 0 of the UPDATE message received from the relevant peer will be ignored. [Explanation of message variables] <a href="mailto:specifican: beginning-right"><a href="mailto:specifican: beginning-right">beginning-right</a>. Source peer name  <a href="mailto:specifican: beginning-right"><a href="mailto:specifican: beginning-right">beginning-right</a>. Source peer description name  <a href="mailto:specifican: beginning-right"><a href="mailto:specifican: beginning-right">beginning-right</a>. Location of the invalid information in the message  [Action]  Check the unicast routing program (BGP4) on the peer.</a></a></a>
56	bgp_recv_v4_unreach:	Error (remote device)
	Peer < bgp name > [( <description>)] UPDATE: Ignoring invalid unreachable route &lt; ipv4 address &gt; /<mask> (<length1> of <length2>)</length2></length1></mask></description>	Invalid routes of unreachable route information of the UPDATE message received from the relevant peer will be ignored.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                           

#	Message text	Description
57	bgp_recv_v4_reach: Peer <bgr></bgr> bgp name> [( <description>)] AS <as1> received path with first AS <as2></as2></as1></description>	Error (remote device)
		The AS path whose next-hop AS number is <as2> was received from the peer whose AS number is <as1>.  [Explanation of message variables]  <a href="https://docs.org/bey/by-name"><ab href="https://docs.org/bey/by-name"><ab href="https://docs.org/bey/by-name"><as1>: AS number of the source peer (as2): Next-hop AS number in the received message [Action]  Check the unicast routing program (BGP4) on the peer.</as1></ab></ab></a></as1></as2>
58	bgp_recv_v4_reach:	Error (remote device)
	Peer Peer log pame   ((description))   UPDATE: Invalid prefix length   length >	The prefix length of the UPDATE message received from the relevant peer is invalid.  [Explanation of message variables] <a href="mailto:bgp name">bgp name</a> : Source peer name <a href="mailto:description">description</a> : Source peer description name <a href="mailto:length">length</a> : Prefix length in the received message  [Action]  Check the unicast routing program (BGP4) on the peer.
59	bgp_recv_v4_reach:	Error (remote device)
	Peer Peer log name   ( log ( log name   ( <br< td=""><td>The prefix length of the UPDATE message received from the relevant peer exceeds the actual prefix length.  [Explanation of message variables]  <a href="https://docs.org/bey/by-name">bey/by-name</a>: Source peer name  <a href="https://description">description</a>&gt;: Source peer description name  <a href="https://description.org/bey/by-name">description</a>&gt;: Source peer description name  <a href="https://description.org/bey/by-name">description</a>&gt;: Prefix length in the received message  <a href="https://description.org/bey/by-name">description.org/bey/by-name</a>&gt;: Actual prefix length  [Action]  Check the unicast routing program (BGP4) on the peer.</td></br<>	The prefix length of the UPDATE message received from the relevant peer exceeds the actual prefix length.  [Explanation of message variables] <a href="https://docs.org/bey/by-name">bey/by-name</a> : Source peer name <a href="https://description">description</a> >: Source peer description name <a href="https://description.org/bey/by-name">description</a> >: Source peer description name <a href="https://description.org/bey/by-name">description</a> >: Prefix length in the received message <a href="https://description.org/bey/by-name">description.org/bey/by-name</a> >: Actual prefix length  [Action]  Check the unicast routing program (BGP4) on the peer.
60	bgp_recv_v4_reach: Peer < bgp name> [( <description>)] UPDATE: Ignoring route with two or more labels (<length1> of <length2>)</length2></length1></description>	Warning (remote device)  Routes that have multiple labels of the UPDATE message received from the relevant peer are ignored.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                          
61	bgp_recv_v4_reach:	Error (remote device)
	Peer Peer log prefix ( log pref	Routes that have RD 0 of the UPDATE message received from the relevant peer are ignored.  [Explanation of message variables] <a href="mailto:speech"><a href="mailto:bgp name"><a href="mailto:bgp name"></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a>

#	Message text	Description
62	bgp_recv_v4_reach:	Error (remote device)
	Peer log name > [( <le>description &gt;)]  UPDATE:Included invalid route <ipv4 </ipv4  address &gt; /<mask> (<length1> of  <length2>)</length2></length1></mask></le>	The UPDATE message received from the relevant peer includes invalid routes.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                                  <
63	bgp_recv_v4_reach:	Warning (remote device)
	Ignoring network 0 route <ipv4 address&gt;/<mask> from peer <bgp name&gt; [(<description>)] (<length1> of <length2>)</length2></length1></description></bgp </mask></ipv4 	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>: Source peer description name  <length1> of <length2>: Location of the invalid information in the received message  [Action]  Check the unicast routing program (BGP4) on the peer.</length2></length1></description></bgp></mask></ipv4>
64	bgp_recv_v4_reach: Ignoring loopback route from peer < bgp	Warning (remote device)
	name>[( <description>)](<length1> of <length2>)</length2></length1></description>	Loopback routes from the relevant peer are ignored.  [Explanation of message variables]  bgp name>: Source peer name <description>: Source peer description name  <length1> of <length2>: Location of the invalid information in the received message  [Action]  Check the unicast routing program (BGP4) on the peer.</length2></length1></description>
65	bgp_recv_mp_unreach:	Error (remote device)
	Peer Peer Invalid length of MP_UNREACH_NLRI attribute( <length>) : No address family</length>	The length of the MP_UNREACH_NLRI attribute for the UPDATE message received from the relevant peer is invalid. No address family exists.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                        
66	bgp_recv_mp_unreach:	Error (remote device)
	Peer Peer log name > [( log description >)] UPDATE: Invalid address family ( <address family="">) in  MP_UNREACH_NLRI attribute</address>	The address family of the MP_UNREACH_NLRI attribute for the UPDATE message received from the relevant peer is invalid.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                           

#	Message text	Description
67	bgp_recv_mp_reach: Peer <bg></bg> Peer <bg></bg> log name > [( <description>)] UPDATE: Invalid length of MP_REACH_NLRI attribute(<length>): No address family</length></description>	Error (remote device)
		The length of the MP_REACH_NLRI attribute for the UPDATE message received from the relevant peer is invalid. No address family exists.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                        <b< td=""></b<>
68	bgp_recv_mp_reach:	Error (remote device)
	Peer < bgp 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] <a href="mailto:speer"><a hre<="" td=""></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a>
69	bgp_recv_mp_reach: Peer <bgr></bgr> bgp name> [( <description>)] UPDATE: Invalid length of MP_REACH_NLRI attribute(<length>): No nexthop length</length></description>	Error (remote device)
		The length of the MP_REACH_NLRI attribute for the UPDATE message received from the relevant peer is invalid. No next-hop length exists. [Explanation of message variables]                                                                                                                                                                                                                                                                                                                        <b< td=""></b<>
70	bgp_recv_mp_reach: Peer <bgp name=""> [(<description>)] UPDATE: Invalid nexthop length(<length>) in MP_REACH_NLRI attribute</length></description></bgp>	Error (remote device)
		The next-hop length of the MP_REACH_NLRI attribute for the UPDATE message received from the relevant peer is invalid.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                           <
71	bgp_recv_mp_reach:	Error (remote device)
	Peer < bgp name> [( <description>)] UPDATE: Invalid length of MP_REACH_NLRI attribute(<length>): No nexthop</length></description>	The length of the MP_REACH_NLRI attribute for the UPDATE message received from the relevant peer is invalid. No next hop exists.  [Explanation of message variables] <a href="mailto:speer"></a>

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

#	Message text	Description
78	bgp_terminate: Peer <bgp name=""> [(<description>)]: Closed connection by terminating bgp</description></bgp>	Information (local device)
		A BGP4 connection was closed due to the termination of a BGP4 task.  [Explanation of message variables] <a href="mailto:bgp name">bgp name</a> : Connection destination peer name <a href="mailto:description">description</a> : Connection destination peer description name  [Action]  Check the cause of the termination of BGP4 task.
79	bgp_peer_delete:	Information (local device)
	Peer < bgp name > [(< description >)]: 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] <a href="mailto:bgp name">bgp name</a> : Connection destination peer name <a href="mailto:description">description</a> : Connection destination peer description name  [Action]  None.
80	bgp_init:	Information (local device)
	Peer bgp name> [( <description>)]:  Closed connection by changing configuration</description>	A BGP4 connection was closed due to a change in the configuration.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                                    
81	bgp_peer_clear:	Information (local device)
	Peer < bgp name > [(< description >)]: Closed connection by clearing peer	A BGP4 connection was closed by entering the clear ip bgp command.  [Explanation of message variables] <a href="mailto:bgp"></a>
82	bgp_pp_recv:	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	The peer that performed graceful restart could not save the forwarding routes. All the routes that had been learned have been deleted from the relevant peer.  [Explanation of message variables] <a href="mailto:cbgp name">cbgp name</a> : Connection destination peer name  [Action]  Check the unicast routing program (BGP4) on the peer.
83	bgp_recv_open: Peer < bgp name > in graceful-restart failed to retain stale routes, deleting all the stale routes from the peer	Error (remote device)
		The peer that performed graceful restart could not save the forwarding routes. All the routes that had been learned have been deleted from the relevant peer.  [Explanation of message variables] <a href="mailto:speep"><a href="mailto:speep"><a href="mailto:speep">speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;speep"&gt;spee</a></a></a>

#	Message text	Description
84	bgp_restart_timeout:	Error (local device or remote device)
	Peer < bgp name > [(< description >)]: Timed out waiting for reconnect.	Graceful restart failed. A connection with the peer router could not be established within the restart time specified by the peer router.  [Explanation of message variables] <a href="mailto:bgp name">bgp name</a> : Connection destination peer name <a href="mailto:description">description</a> >: Connection destination peer description name  [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.
85	bgp_restart_timeout:	Error (remote device)
	Peer < bgp name > [(< description >)]: Timed out waiting for End-Of-RIB marker from restart router.	Graceful restart failed. End-Of-RIB could not be received from the peer router.  [Explanation of message variables]  cype name>: Connection destination peer name description>: Connection destination peer description name  [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 device or remote device)
	Peer < bgp name > [(< description >)] connection established with graceful restart.	A BGP connection with the relevant peer was re-established.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                                     
87	bgp_receive_End-Of-RIB: End-Of-RIB marker received from < bgp name> [( <description>)].</description>	Information (local device)  End-Of-RIB was received.  [Explanation of message variables]  bgp name>: Source peer name <description>: Source peer description name  [Action]  None.</description>
88	bgp_send_End-Of-RIB:	Information (local device)
	End-Of-RIB marker sent to <i>spp name</i> . [( <i>description</i> )].	End-Of-RIB was sent.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                                           <b< td=""></b<>
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]                                                                                                                                                                                                                                                                                                                                      

#	Message text	Description
		1. Error code 1 (Message Header Error) - Error subcode 2 (bad length) - Error subcode 3 (bad message type) 2. Error code 2 (Open Message Error) - 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 6 (unacceptable holdtime) 3. Error code 3 (Update Message Error) - 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 5 (bad attribute length) - Error subcode 6 (bad ORIGIN attribute) - Error subcode 9 (error with optional attribute) - Error subcode 10 (bad address/prefix field) - Error subcode 11 (AS path attribute problem) 4. Error code 4 (Hold Timer Expired Error) 5. Error code 5 (Finite State Machine Error) 6. Error code 6 (Cease) - If the <code> value is invalid, <code string=""> displays invalid. If the <subcode> value is invalid, <subcode string=""> displays unknown <value> or <data> indicates information about the data field of the NOTIFICATION message. <value>: Decimal notation <data> : Hexadecimal notation </data> Hexadecimal notation</value></data></value></subcode></subcode></code></code>
		Check the network configuration and the peer configuration. If there is no problem with the configurations, check the unicast routing program (BGP4) on the peer.
90	BGP:	Warning (local device)
	NOTIFICATION received from name> [( <description>)]: code <code>  (<code string="">) [subcode <subcode>  (<subcode string="">)] [value <value>]  [data <data>]</data></value></subcode></subcode></code></code></description>	A NOTIFICATION message was received from the relevant peer.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                                     

#	Message text	Description
		1. Error code 1 (Message Header Error) - Error subcode 2 (bad length) - Error subcode 3 (bad message type) 2. Error code 2 (Open Message Error) - Error subcode 0 (unspecified 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 6 (unacceptable holdtime) - Error subcode 7 (unsupported capability) 3. Error code 3 (Update Message Error) - 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 5 (bad attribute length) - Error subcode 6 (bad ORIGIN attribute) - Error subcode 6 (bad ORIGIN attribute) - Error subcode 9 (error with optional attribute) - Error subcode 9 (error with optional attribute) - Error subcode 10 (bad address/prefix field) - Error subcode 11 (AS path attribute problem) 4. Error code 4 (Hold Timer Expired Error) 5. Error code 5 (Finite State Machine Error) 6. Error code 6 (Cease) - If the <code> value is invalid, <code string=""> displays invalid. If the <subcode> value is invalid, <subcode string=""> displays unknown <value> or <data> indicates information about the data field of the NOTIFICATION message. <value>: Decimal notation <data>: Hexadecimal notation <data>: Hexadecimal notation <data>: Hexadecimal notation <data> thexadecimal notation </data></data></data></data></value></data></value></subcode></subcode></code></code>
91	BGP:	Warning (remote device)

#	Message text	Description
	No MD5 digest from <source ipv4=""/> + <port no.=""> to <destination ipv4="">+<port no.=""> [VRF <vrf id="">]</vrf></port></destination></port>	The MD5 authentication option is not set for the TCP segment received by BGP4 connection.  Output of this operation message is as follows:  1. For the first 16 events, the message is output for each event.  2. For the 17th and subsequent events, the message is output once every 256 events.  3. If events occur three or more minutes after the last event has occurred, the message is output as described in 1 and 2 above.  Note that the counting described above includes the number of times the BGP: Invalid MD5 digest from <source ipv4=""/> + <port no.=""> to <destination ipv4=""> + <port no.=""> message is output.  [Explanation of message variables]  <source ipv4=""/>: Source IPv4 address <port no.="">: TCP port number <destination ipv4="">: Destination IPv4 address <pvrf id="">: VRF ID [Action]  Check whether the MD5 authentication is set in BGP4 of the remote system.  If it is not set, set the MD5 authentication so that it matches.  If the setting matches, check whether TCP segments are sent from a peer other than the source BGP4 peer.</pvrf></destination></port></port></destination></port>
92	BGP:  Invalid MD5 digest from <source ipv4=""/> + <port no.=""> to <destination ipv4="">+<port no.=""> [VRF <vrf id="">]</vrf></port></destination></port>	Warning (local device or remote device)  The MD5 authentication option for TCP segments received by BGP4 connection is invalid. Output of this operation message is as follows:  1. For the first 16 events, the message is output for each event. 2. For the 17th and subsequent events, the message is output once every 256 events. 3. If events occur three or more minutes after the last event has occurred, the message is output as described in 1 and 2 above. Note that the counting described above includes the number of times the BGP: No MD5 digest from <source ipv4=""/> + <port no.=""> to <destination ipv4=""> + <port no.=""> message is output. [Explanation of message variables] <source ipv4=""/>: Source IPv4 address <destination ipv4="">: Destination IPv4 address <port no.="">: TCP port number <vrf id="">: VRF ID [Action] Check if the MD5 authentication keys match in BGP4 of the local and remote systems. If the MD5 authentication keys do not match, set them so that they do match. If the MD5 authentication keys match, check if TCP segments are sent from a peer other than the source BGP4 peer.</vrf></port></destination></port></destination></port>
93	BGP:	Warning (remote device)

#	Message text	Description
	Number of prefix received from name> [( <description>)]: reached  <routesi>, limit <routes2></routes2></routesi></description>	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>: Source peer description name  <routes1>: Number of paths learned from the peer  <routes2>: Maximum number of paths that can be learned from the peer  [Action]  If the number of paths learned from the relevant peer further increases, check the number of the paths advertised by the peer.</routes2></routes1></description>
94	BGP:	Warning (remote device)
	Number of prefix received from name> [( <description>)]: <routes1>  exceed limit <routes2></routes2></routes1></description>	The number of paths (active paths and inactive paths) learned from the relevant peer exceeded the maximum value.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                            
95	BGP:	Information (remote device)
	Peer < bgp name > [(< description >)]: 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 destination peer name description>: Connection destination peer description name  [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.
96	bgp_pp_recv:	Warning (remote device)
	Peer < bgp name > as receiving-speaker failed to retain stale routes, the packets forwarded to the peer may be discarded.	The peer running as the receiving router could not save the forwarding routes. The packets forwarded to the relevant peer might have been discarded.  [Explanation of message variables] bgp name>: Connection destination peer name  [Action]  During negotiation of the graceful restart functionality, it was reported that forwarding was disabled. Make sure that the peer router has not failed.
97	bgp_recv_open:	Warning (remote device)
	Peer < bgp name > as receiving-speaker failed to retain stale routes, the packets forwarded to the peer may be discarded.	The peer running as the receiving router could not save the forwarding routes. The packets forwarded to the relevant peer might have been discarded.  [Explanation of message variables] bgp name>: Connection destination peer name  [Action]  During negotiation of the graceful restart functionality, it was reported that forwarding was disabled. Make sure that the peer router has not failed.
98	BGP:	Information (local device)

#	Message text	Description
	Completed the learning from receiving-speakers	Learning of route information from the receiving router has been completed.  [Explanation of message variables]  None.  [Action]  None.
99	BGP:	Information (local device)
	Start advertisement, giving up learning from several receiving-speakers	Route advertisement will start, interrupting the learning of route information from some receiving routers.  [Explanation of message variables]  None.  [Action]  None.
100	BGP:	Warning (remote device)
	Peer bgp name> [( <description>)]  UPDATE included attribute type code  (0) [- AS Path (<as number="">):  <aspath>]</aspath></as></description>	An update message including a path attribute with 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] <a href="https://bxp.name">byperation name</a> <a href="https://bxp.name">assage variables</a> <a href="https://bxp.name">byperation name</a> <a href="https://bxp.name">assage variables</a> <a href="https://bxp.name">byperation name</a> <a href="https://bxp.name">assage variables</a> <a href="https://bxp.name">byperation name</a> <a href="https://bxp.name">assage name</a>

# 2.1.4 Event information common to the IPv4 unicast routing protocol

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

Table 2-4: Event information common to the IPv4 unicast routing protocols

#	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. Check the capacity limits.

#	Message text	Description
2	Rtm: Graceful Restart terminated because this system failed to retain the routes.	Warning (local device)
		Graceful Restart failed because the routes could not be retained.  [Explanation of message variables]  None.  [Action]  Make sure that a system switchover was not performed again or that the unicast routing program was not restarted during graceful restart.
3	The number of IPv4 unicast routes on global network exceeded the limit.	Warning (local device)
	global network exceeded the mint.	The number of IPv4 unicast routes on the global network exceeded the maximum number of routes.  [Explanation of message variables]  None.  [Action]  1. Delete unnecessary routes.  2. Check the maximum number of routes specified in the configuration.
4	The number of IPv4 unicast routes on VRF < <i>vrf id</i> > exceeded the limit.	Warning (local device)
		The number of IPv4 unicast routes on the VRF < <i>vrf id&gt;</i> exceeded the maximum number of routes.  [Explanation of message variables]  < <i>vrf id&gt;</i> : VRF ID  [Action]  1. Delete unnecessary routes.  2. Check the maximum number of routes specified in the configuration.
5	The number of IPv4 unicast routes on global network exceeded the warning threshold.	Information (local device)
		The number of IPv4 unicast routes on the global network exceeded the warning threshold.  [Explanation of message variables]  None.  [Action]  When adding routes, make sure that the maximum number of routes is not exceeded.
6	The number of IPv4 unicast routes on	Information (local device)
	VRF < vrf id> exceeded the warning threshold.	The number of IPv4 unicast routes on the VRF < <i>vrf id&gt;</i> exceeded the warning threshold.  [Explanation of message variables]  < <i>vrf id&gt;</i> : VRF ID  [Action]  When adding routes, make sure that the maximum number of routes is not exceeded.

# 2.2 IPv6 routing protocol information (RTM)

This section explains the event information for the IPv6 routing protocol.

### 2.2.1 RIPng

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

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

#	Message text	Description
1	ripng_recv:	Error (remote device)
	Bad metric ( <metric>) for net <pre>prefix&gt; from <source address=""/></pre></metric>	Route information that has an invalid metric value (0, or 17 or larger) was received.  [Explanation of message variables] <metric>: Metric value of the route information  <pre>prefix&gt;: Route information destination prefix  <source address=""/>: Source gateway address [Action]  Check the unicast routing program (RIPng) of the source gateway.</pre></metric>
2	ripng_recv:	Error (remote device)
	Bad prefixlen ( <pre>sprefix</pre> ) for net <pre>sprefix</pre> from <source address<="" pre=""/>	Route information that has an invalid prefix length was received.  [Explanation of message variables] <pre> <pre>cprefixlen&gt;: Prefix length of the route information <pre>cprefix&gt;: Route information destination <source address=""/>: Source gateway address [Action] Check the unicast routing program (RIPng) of the source gateway.</pre></pre></pre>
3	ripng_recv:	Error (remote device)
	Ignoring RIPng <ripng command=""> packet from <source address=""/> - ignoring invalid version packet</ripng>	A received RIPng packet was ignored because the version field was invalid.  [Explanation of message variables] <ri>ripng command&gt;: Received message type  • Request, Response  <source address=""/>: Source gateway address  [Action]  Check the unicast routing program (RIPng) of the source gateway.</ri>
4	ripng_recv:	Error (remote device)
	Packet hoplimit is < hoplimit > hop limit must be 255.	A received RIPng packet was ignored because the hop limit was invalid.  [Explanation of message variables] <hoplimit>: Received hop-limit  [Action]  Check the unicast routing program (RIPng) of the source gateway.</hoplimit>
5	ripng_init:	Error (local device)
	Old copy of rtm is running	The unicast routing program might already be running. The unicast routing program will be restarted automatically.  [Explanation of message variables]  None.  [Action]  Take action in response to the rtm aborted log entry.

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

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

### 2.2.2 OSPFv3

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

Table 2-6: IPv6 routing protocol (OSPFv3) event information

#	Message text	Description
1	1 OSPFv3 SENT <source address=""/> ( <interface name="">) -&gt; <destination address="">: <error string=""></error></destination></interface>	Warning (local device)
		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 occurs frequently, check the cause of the error.</error></destination></interface>
2	OSPFv3:	Warning (local device or network)
	Helper to adjacency < router id> [(VRF < vrf id>)] failed because network topology is changed.	The helper router operations stopped because the topology was changed.  [Explanation of message variables] <router id="">: Router ID of the neighboring router  <vrf id="">: VRF ID  [Action]  None.</vrf></router>
3	OSPFv3:	Information (remote device)
	Helper to adjacency < router id> [(VRF < vrf id>)] failed because restart time is up.	The helper router operations stopped because the waiting time for restart elapsed.  [Explanation of message variables] <router id="">: Router ID of the neighboring router  <vrf id="">: VRF ID  [Action]  Check if the neighboring router has stopped the restart operation. If the operation has not stopped, adjust the restart time of the neighboring router.</vrf></router>
4	OSPFv3 RECV [Area <area id=""/> ]	Warning (local device or remote device)
	RouterID <source id=""/> [( <interface name="">)] -&gt; <destination address="">: <log type=""></log></destination></interface>	A received OSPFv3 packet is invalid.  However, multicast packets received from broadcast-type interfaces that have not been set as OSPFv3 interfaces are discarded without being logged.
		[Explanation of message variables] <area id=""/> : Area ID <asource id="">: Source router ID <interface name="">: Interface name <aestination address="">: Destination IPv6 address <log type="">: One of the following log types:</log></aestination></interface></asource>

#	Message text	Description
		<ul> <li>IP: received my own packet</li> <li>bad packet type</li> <li>bad version</li> <li>bad checksum</li> <li>packet too small</li> <li>packet size &gt; ip length</li> <li>unknown neighbor</li> </ul>
		<ul><li> area mismatch</li><li> bad virtual link</li><li> interface down</li></ul>
		<ul> <li>HELLO: hello timer mismatch</li> <li>HELLO: dead timer mismatch</li> <li>HELLO: extern option mismatch</li> <li>DD: extern option mismatch</li> <li>HELLO: router id confusion</li> <li>DD: router id confusion</li> <li>DD: MTU mismatch</li> </ul>
		<ul> <li>LS ACK: Unknown LSA type</li> <li>LS REQ: empty request</li> <li>LS REQ: bad request</li> <li>LS UPD: LSA checksum bad</li> <li>LS UPD: Unknown LSA type</li> </ul>
		[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  A neighboring router has sent invalid packets. Check the unicast routing program (OSPFv3) for the new neighboring router.  • unknown neighbor  Non-Hello packets were received from a neighboring router that is not recognized by Hello, but no action is required.
		<ul> <li>area mismatch</li> <li>bad virtual link</li> <li>If packets are received from the new neighboring router, modify the area settings. In other cases, no action is required.</li> </ul>
		• interface down None.
		<ul> <li>HELLO: hello timer mismatch</li> <li>HELLO: dead timer mismatch Modify the OSPFv3 interface settings.</li> </ul>
		<ul> <li>HELLO: extern option mismatch</li> <li>DD: extern option mismatch Modify the stub area settings.</li> </ul>
		<ul> <li>HELLO: router id confusion</li> <li>DD: router id confusion Modify the router ID settings.</li> </ul>

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

#	Message text	Description
8	OSPFv3: Lost adjacency < router id1> with interfaceID < id> ( <interface name="">) due to bad LS Request (<lsid> &lt; router id2&gt; &lt; ls type&gt;).</lsid></interface>	Error (remote device)
		A neighboring router was lost due to an invalid LS request.  [Explanation of message variables] <router id1="">: Router ID of the neighboring router  <id>: Interface ID of the neighboring router  <interface name="">: Interface name  <lsid>: LSA LSID  <router id2="">: LSA advertising router ID  <ls type="">: LSA LS type code  [Action]  Check the unicast routing program (OSPFv3) for the new neighboring router.</ls></router></lsid></interface></id></router>
9	OSPFv3:	Warning (local device or remote device)
	Lost adjacency <router id=""> with interfaceID <id> (<interface name="">) due to sequence mismatch (<sequence1> versus <sequence2>)</sequence2></sequence1></interface></id></router>	A neighboring router was lost due to a sequence (or option) mismatch.  [Explanation of message variables] <router id="">: Router ID of the neighboring router  <id>: Interface ID of the neighboring router  <interface name="">: Interface name  <sequence1>: Sequence number in the 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 device or remote device)
	Adjacency < router id > interface < interface name > is established.	A connection with the OSPFv3 neighboring router was successfully established.  [Explanation of message variables] <router id="">: Router ID of the neighboring router  <interface name="">: Interface name  [Action]  None.</interface></router>
11	OSPFv3:	Error (local device)
	Checksum failed at LSA type < ls 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>].	LSDB checksum is invalid. The unicast routing program will be restarted automatically.  [Explanation of message variables] <li>ls type&gt;: LSA LS type code <lsid>: LSA LSID : LSA advertising router ID <area id=""/>: LSA area ID <domain id="">: LSA Domain ID   <ur> vrf id&gt;: VRF ID   [Action]   Take action in response to the rtm aborted log entry.</ur></domain></lsid></li>
12	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.

#	Message text	Description
13	0.222.01	Warning (remote device or network)
	Graceful restart failed (in [(VRF < vrf id>)] domain < domain id>) because adjacency < router id> doesn't help me.	Graceful restart has failed because the neighboring router was not operating as the helper router.  [Explanation of message variables]  < vrf id>: VRF ID  < domain id>: OSPFv3 domain ID  < router id>: Router ID of the neighboring router  [Action]  Check the configuration of graceful restart for the neighboring router.
14	OSPFv3:	Warning (remote device or network)
	Graceful restart failed (in [(VRF < vrf id>)] domain < domain id>) because adjacency < router id> gives up me.	Graceful restart has failed because the neighboring router stopped helper router operations.  [Explanation of message variables]  < vrf id>: VRF ID  < domain id>: OSPFv3 domain ID  < router id>: Router ID of the neighboring router  [Action]  If this warning occurs frequently, check the OSPF status of the neighboring router and the cause of helper functionality termination.
15	OSPFv3:	Warning (local device)
	Graceful restart failed (in [(VRF < vrf id>)] domain < domain id>) because restart time is up.	Graceful restart failed because all neighboring routers that were connected before the restart cannot be reconnected and LSA synchronization cannot be completed within the restart time.  [Explanation of message variables]  < vrf id>: VRF ID  < domain id>: OSPFv3 domain ID  [Action]  Check the configuration of the restart time.
16	OSPFv3:	Information (local device)
	Graceful restart finished successfully (in [(VRF < vrfid >)] domain < domain id >).	Graceful restart was completed successfully.  [Explanation of message variables]  < vrf id>: VRF ID  < domain id>: OSPFv3 domain ID  [Action]  None.

# 2.2.3 BGP4+ [OP-BGP]

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

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

#	Message text	Description
1	bgp4+_check_auth:	Error (remote device)
	Synchronization failure with BGP task < task name>	The value of the header marker of the message received by BGP4+ task is invalid.  [Explanation of message variables] <task name="">: BGP4+ task name  [Action]  Check the unicast routing program (BGP4+) on the peer.</task>

#	Message text	Description
2	bgp4+_trace: Unsupported BGP version <version>!!!</version>	Error (local device)
		The BGP version number in the control data is invalid. The unicast routing program will be restarted automatically.  [Explanation of message variables] <version>: BGP version number in the control data  [Action]  Take action in response to the rtm aborted log entry.</version>
3	bgp4+_log_notify:	Error (remote device)
	Notify message received from https://example.com/bgp name > [(< description >)] is truncated (length < length >)	The length of the NOTIFICATION message received from the relevant peer is invalid.  [Explanation of message variables] <a href="https://docume.com/be/sep-name">begin name</a> : Source peer name

#	Message text	Description
7	bgp4+_send: sending to <bgp name=""> [(<description>)] looping: <error string=""></error></description></bgp>	Warning (local device)
		The retry count was exceeded during sending of a message to the relevant peer.  [Explanation of message variables] <a href="mailto:begp name">begin name</a> : Destination peer name <a href="mailto:description">description</a> : Destination peer description name <a href="mailto:error string">error string</a> : Error cause  [Action]  If this error occurs frequently, check the cause of the error.
8	bgp4+_send_open:	Error (local device)
	Internal error! peer < bgp name> [( <description>)], version &lt; version&gt;</description>	The BGP version number of the OPEN message to be sent to the relevant peer is invalid. The unicast routing program will be restarted automatically.  [Explanation of message variables]

#	Message text	Description
12	bgp4+_read_message: Peer Peer length < length > [(< description >)]: <message type=""> message arrived with length &lt; length &gt;</message>	Error (remote device)  An invalid-length message was received from the relevant peer.  [Explanation of message variables]               An invalid-length message was received from the relevant peer.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                 
13	bgp4+_read_message: Peer Peer Peer sage type1> arrived, expected <message type2=""> [or <message 2="" type=""> ]</message></message>	Error (remote device)  A message whose message type is inappropriate for the current state was received from the relevant peer.  [Explanation of message variables] <a href="https://docs.org/bey/by-name">https://docs.org/bey/by-name</a> : Source peer name <a href="https://docs.org/bey/by-name">https://docs.org/bey/bey/bey/bey/bey/bey/bey/bey/bey/bey</a>
14	bgp4+_get_open: Peer Peer Received short version <version> message (<length> octets)</length></version>	Error (remote device)  An invalid-length OPEN message was received from the relevant peer.  [Explanation of message variables]  bgp name>: Source peer name description>: Source peer description name <version>: BGP version number in the received message  <length>: Received message length  [Action]  Check the unicast routing program (BGP4+) on the peer.</length></version>
15	bgp4+_get_open: Received unsupported version <version> message from peer <bgr></bgr>hgp name&gt; [(<description>)]</description></version>	Warning (remote device)  An OPEN message whose BGP version is unsupported was received from the relevant peer.  [Explanation of message variables] <pre> <version>: BGP version number in the received message   <b< td=""></b<></version></pre>
16	bgp4+_get_open: Peer Peer Hold time too small ( <holdtime>)</holdtime>	Error (remote device)  An OPEN message whose hold time is less than three seconds was received from the relevant peer.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                           

#	Message text	Description
17	bgp4+_get_open: Peer Peer Bgp name > [( <description>)]: Invalid BGP4+ identifier &lt;<router id=""></router></description>	Error (remote device)
		An OPEN message that has an invalid BGP4+ identifier was received from the relevant peer.  [Explanation of message variables] <a href="mailto:bgp name"><a href="mailto:bgp name"><a href="mailto:bgp name"><b a="" name<="" peer="" source=""> <a href="mailto:description"><a href="mailto:bgp name"><a be="" by-name"="" docs.org="" href="mailto:bgp&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;18&lt;/td&gt;&lt;td rowspan=2&gt;bgp4+_get_open: Peer &lt;br/&gt; Peer &lt;br/&gt;   (&lt;description&gt;)]: Unsupported optional parameter   &lt;option&gt;&lt;/td&gt;&lt;td&gt;Error (remote device)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;An OPEN message that contains an invalid option code was received from the relevant peer.  [Explanation of message variables]  &lt;a href=" https:="">by-name</a>: Source peer name  <a href="https://docs.org/deceleration.org/be/deceleration.org/be/by-name">description</a>: Source peer description name  <a href="https://docs.org/deceleration.org/be/by-name">option</a>: Option code in the received message  [Action]  Check the unicast routing program (BGP4+) on the peer.</a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></b></a></a></a>
19	bgp4+_recv_open: Peer bgp name> [( <description>)] claims AS <as1>, <as2> configured</as2></as1></description>	Warning (local device or remote device)
		An OPEN message that has a different AS number than the configured AS number was received from the relevant peer.  [Explanation of message variables] <a href="mailto:speer"></a>
20	bgp4+_recv_open: Peer <bgr></bgr> bgp name> [( <description>)] accepted mismatched versions: Peer   <version1> this system <version2></version2></version1></description>	Warning (remote device)  A KEEPALIVE message that has a mismatched BGP version number was received from the relevant peer.  [Explanation of message variables] <a href="https://docs.org/bey/by-name">bey/by-name</a> : Source peer name <a href="https://description">description</a> >: Source peer description name <a href="https://www.new.number.org/bey/by-name">version1</a> ): Remote BGP version number <a href="https://www.number.org/by-name">version2</a> ): Local BGP version number  [Action]  Make sure that the peer supports BGP4+.
21	bgp4+_pp_recv: No group for bgpp name> found, dropping peer	Warning (local device or remote device)
		An OPEN message was received from a peer that was not set.  [Explanation of message variables]         Check the configuration.

#	Message text	Description
22	bgp4+_pp_recv: Rejecting connection from <bgp name=""> [(<description>)], peer in state <state></state></description></bgp>	Warning (remote device or network)
		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>: Source peer description name <state>: Peer state   Idle, OpenConfirm, Established [Action] The connection is unstable. If this error occurs frequently, check the cause of the instability.</state>
23	bgp4+_pp_recv:	Warning (remote device)
	Dropping                                                                                                                                                                                                                                                                                                                                                   <br< td=""><td>An OPEN message whose BGP version is unsupported was received from the relevant peer.  [Explanation of message variables]    <br< td=""></br<></td></br<>	An OPEN message whose BGP version is unsupported was received from the relevant peer.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                                <br< td=""></br<>
24	bgp4+_pp_recv:	Error (remote device)
	Peer bgp name> [( <description>)]  sent unexpected extra data, probably insane</description>	Unnecessary data is appended to the message from the relevant peer.  [Explanation of message variables]  bgp name>: Source peer name <description>: Source peer description name  [Action]  Check the unicast routing program (BGP4+) on the peer.</description>
25	bgp4+_check_capability_match:	Warning (remote device)
	Capability of peer < bgp name > [(< description >)] is unmatched	The capability settings specified for this device are not specified for the relevant peer.  [Explanation of message variables] <a href="mailto:bgp name">bgp name</a> : Source peer name <a href="mailto:description">description</a> : Source peer description name  [Action]  Check the configuration.
26	bgp4+_write_flush: Sending <length1> (sent <length2>) bytes to <bgp name=""> [(<description>)] failed: <error string=""></error></description></bgp></length2></length1>	Warning (local device)
		An attempt to send a message to the relevant peer failed.  [Explanation of message variables] <length1>: Length of the data requested to be sent  <length2>: Length of the sent data    <br< td=""></br<></length2></length1>

#	Message text	Description
27	bgp4+_write_flush: Sending <length1> (sent <length2>) bytes to  bgp name&gt; [(<description>)]: Connection closed</description></length2></length1>	Warning (local device, remote device, or network)
		An attempt to send a message to the relevant peer failed due to a disconnection.  [Explanation of message variables] <length1>: Length of the data requested to be sent  <length2>: Length of the sent data    <br <="" td=""/></length2></length1>
28	bgp4+_write_flush:	Warning (local device)
	Sending to Sending to   (sent < length1>, < length2> remain[s]) looping: <   string>	The retry count was exceeded during sending of a message to the relevant peer.  [Explanation of message variables] <a href="https://docs.org/but/but/but/but/but/but/but/but/but/but&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;29&lt;/td&gt;&lt;td&gt;bgp4+_peer_connected:&lt;/td&gt;&lt;td&gt;Warning (local device)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;task_get_addr_local(&lt;br/&gt;bgp name&gt; [(&lt;description&gt;)]): &lt;error string&gt;&lt;/td&gt;&lt;td&gt;Extraction of the local address used for establishing a connection to the relevant peer failed.  [Explanation of message variables]  &lt;a href=" mailto:bgp="" name"="">bgp name</a> : Connection destination peer name <a href="mailto:description">description</a> : Connection destination peer description name <a href="mailto:error string">error string</a> : Error cause  [Action]  If this error occurs frequently, check the cause of the error.
30	bgp4+_connect_start: Peer <bgr></bgr> bgp name> [( <description>)] local address <ipv6 address=""> unavailable, connection failed</ipv6></description>	Warning (local device)  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] <a href="mailto:begp name">begp name</a> : Connection destination peer name <a href="mailto:description">description</a> : Connection destination peer description name <a href="mailto:ipv6">ipv6 address</a> : Local address used for peering  [Action]  If this error occurs frequently, check the cause of the error.
31	bgp4+_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] <a href="https://docs.org/burs/burs/burs/4/"></a>

#	Message text	Description
32	bgp4+_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]           An attempt to send a KEEPALIVE message to the relevant peer failed.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                       
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 occurs frequently, check the cause of the error.</error></socket>
34	bgp4+_listen_accept: bgp4+_get_peer_if() failed,	Error (local device)
	terminating!!	Extraction of the link local address used for establishing a connection failed. The process that establishes a connection will terminate.  [Explanation of message variables]  None.  [Action]  If the error occurs frequently, check the unicast routing program (BGP4+) on the peer.
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 process that establishes a connection will terminate.  [Explanation of message variables]  None.  [Action]  If the error occurs frequently, check the unicast routing program (BGP4+) on the peer.
36	bgp4+_listen_start: Couldn't get BGP listen socket!!	Error (local device)
		An attempt to create a socket for establishing a connection failed. The unicast routing program will be restarted automatically.  [Explanation of message variables]  None.  [Action]  Take action in response to the rtm aborted log entry.
37	bgp4+_listen_start:	Error (local device)
	listen: <error string=""></error>	Preparation for accepting a connection failed. The unicast routing program will be restarted automatically.  [Explanation of message variables] <error string="">: Error cause [Action]  Take action in response to the rtm aborted log entry.</error>

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

#	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 received from the relevant peer in the ESTABLISHED state.  [Explanation of message variables]  bgp name>: Source peer name description>: Source peer description name  [Action]  The connection is unstable. If this error occurs frequently, check the cause of the instability.
45	bgp4+_recv _update:	Error (remote device)
	Peer < bgp name> [(< description>)] UPDATE length < length> too small	The length of the UPDATE message from the relevant peer is too short.  [Explanation of message variables] <a be="" by-name"="" docs.org="" href="https://docs.org/bg/background-color: blue-new-color: blue&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;46&lt;/td&gt;&lt;td&gt;bgp4+_recv_update: Peer &lt;br/&gt; Peer &lt;br/&gt; Pep name&gt; [(&lt;description&gt;)] UPDATE unreachable prefix length &lt;br/&gt; &lt;length1&gt; exceeds packet length &lt;length2&gt;&lt;/td&gt;&lt;td&gt;Error (remote device)  The prefix length of unreachable route information of the UPDATE message from the relevant peer exceeds the packet length.  [Explanation of message variables]  &lt;a href=" https:="">https://docs.org/be/by-name</a> <a href="https://docs.org/be/by-name">https://docs.org/be/by-name</a> <a "="" bases="" docume.com="" href="https://&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;47&lt;/td&gt;&lt;td&gt;bgp4+_recv_update:&lt;/td&gt;&lt;td&gt;Error (remote device)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Peer &lt;br/&gt; log name &gt; [(&lt; description &gt;)]&lt;br/&gt; UPDATE unreachable prefix length &lt;br/&gt; length &gt; too long&lt;/td&gt;&lt;td&gt;The prefix length of the unreachable route information of the UPDATE message from the relevant peer exceeds 128 bits.  [Explanation of message variables]  &lt;a href=" https:="" speer="">bgp name</a> : Source peer name <a href="https://description/speer/bases/">description</a> >: Source peer description name <a href="https://description.com/speer/bases/">length</a> >: Prefix length in the received message  [Action]  Check the unicast routing program (BGP4+) on the peer.
48	bgp4+_recv_update:	Error (remote device)
	Peer by name > [( description>)] UPDATE prefix length exceeds unreachable prefix data remaining ( length2> bytes)	The prefix length of unreachable route information of the UPDATE message from the relevant peer exceeds the prefix data of unreachable route information.  [Explanation of message variables] <a href="https://docs.org/bg/back-name">bg/bg/bg/bg/bg/bg/bg/bg/bg/bg/bg/bg/bg/b</a>

#	Message text	Description
49	bgp4+_recv_update: Peer Peer lupdate   (( description>)]   UPDATE zero attribute length   followed by < length> 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]                                                                                                                                                                                                                                                                                                                              
50	bgp4+_recv_update:	Error (remote device)
	Peer Peer log paname > [( <description>)]  UPDATE path attribute length   length l &gt; too large (<length 2=""> bytes remaining)</length></br></description>	The path attribute length of the UPDATE message from the relevant peer is too long when compared with the actual path attribute length.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                        <
51	bgp4+_recv_update:	Error (remote device)
	Peer bgp name> [( <description>)]  UPDATE no next hop found</description>	The next-hop attribute is not found in the UPDATE message from the relevant peer.  [Explanation of message variables]  cbgp name>: Source peer name <description>: Source peer description name  [Action]  Check the unicast routing program (BGP4+) on the peer.</description>
52	bgp4+_recv_update:	Error (remote device)
	External peer < bgp name > [(< description >)] UPDATE included LOCALPREF attribute	The LOCALPREF attribute is included in the UPDATE message from the relevant external peer.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                                
53	bgp4+_recv_update:	Error (remote device)
	Peer bgp name> [( <description>)]  UPDATE no LOCALPREF attribute found</description>	The LOCALPREF attribute is not found in the UPDATE message from the relevant internal peer.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                               <br< td=""></br<>
54	- Or	Error (remote device)
	Peer bgp name> [( <description>)]  UPDATE has path attributes but no reachable prefixes!</description>	The UPDATE message from the relevant peer has path attributes but does not have the corresponding route information.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                           <b< td=""></b<>

#	Message text	Description
55	bgp4+_recv_update:	Error (remote device)
	Peer Beer AS <as1> received path with first AS <as2></as2></as1>	The AS path whose next-hop AS number is <as2> was received from the peer whose AS number is <as1>. [Explanation of message variables]   <br <="" td=""/></as1></as2>
56	bgp4+_recv_update:	Warning (remote device)
	Ignores prefix from peer < bgp name> [( <description>)] in RFC-1771's NLRI field</description>	Route information in a format that complies with RFC1771 instead of RFC2858 is ignored.  [Explanation of message variables] <a href="mailto:bgp name">bgp name</a> : Source peer name <a href="mailto:description">description</a> >: Source peer description name  [Action]  Check the unicast routing program (BGP4+) on the peer.
57	bgp4+_recv_reach:	Error (remote device)
	Peer < bgp name > [(< description >)] UPDATE: Invalid length of MP_REACH_NLRI attribute(< length >): No address family	The length of the MP_REACH_NLRI attribute for the UPDATE message from the relevant peer is invalid. No address family exists.  [Explanation of message variables] <a href="mailto:speer"></a>
	bgp4+_recv_reach:	Error (remote device)
	Peer Peer log name > [( log description >)] 	The length of the MP_REACH_NLRI attribute for the UPDATE message from the relevant peer is invalid. No next-hop length exists.  [Explanation of message variables] <a href="mailto:speer"><a href="mailto:spe&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;59&lt;/td&gt;&lt;td&gt;bgp4+_recv_reach:&lt;/td&gt;&lt;td&gt;Error (remote device)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Peer &lt;br/&gt; Peer &lt;br/&gt; log name &gt; [(&lt;br/&gt; log description &gt;)]&lt;br/&gt; UPDATE: Invalid length of&lt;br/&gt; MP_REACH_NLRI&lt;br/&gt; attribute(&lt;&lt;br/&gt; length &gt;): No nexthop&lt;/td&gt;&lt;td&gt;The length of the MP_REACH_NLRI attribute for the UPDATE message from the relevant peer is invalid. No next hop exists.  [Explanation of message variables]  &lt;a href=" mailto:speer"=""><a href="mailto:speer"><a href="mailto:speer"><a< td=""></a<></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a>

#	Message text	Description
60	bgp4+_recv_reach: Peer <bgp name=""> [(<description>)] UPDATE: Invalid length of MP_REACH_NLRI attribute(<length>): No reserved</length></description></bgp>	Error (remote device)
		The length of the MP_REACH_NLRI attribute for the UPDATE message from the relevant peer is invalid. No reserved field exists.  [Explanation of message variables] <a href="mailto:speer"></a>
61	bgp4+_recv_reach:	Error (remote device)
	Peer Peer log name > [( log description >)] UPDATE: Invalid length of MP_REACH_NLRI attribute(< length >): No snpa length	The length of the MP_REACH_NLRI attribute for the UPDATE message from the relevant peer is invalid. No SNPA length exists.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                          <b< td=""></b<>
62	bgp4+_recv_reach:	Error (remote device)
	Peer Peer   VPDATE: Invalid length of MP_REACH_NLRI attribute(   length >) : No snpa	The length of the MP_REACH_NLRI attribute for the UPDATE message from the relevant peer is invalid. No SNPA exists.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                           <br< td=""></br<>
63	bgp4+_recv_reach:	Error (remote device)
	Peer Peer log pame > [( log description >)] UPDATE multi-protocol prefix length log log log log log log log log log log	The prefix length of the route of the UPDATE message from the relevant peer is too long when compared with the remaining data.  [Explanation of message variables] <a href="https://docs.org/bey/bases/">bey name</a> : Source peer name <a href="https://description/bey/bases/">description/bey/bases/bey/bases/bey/bases/bey/bases/bey/bases/bey/bases/bey/bases/bey/bases/bey/bases/bey/bases/bey/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases/bases</a>
64	bgp4+_recv_reach: Peer <bgp name=""> [(<description>)] UPDATE multi-protocol prefix length <length> too long</length></description></bgp>	Error (remote device)
		The prefix length of the route of the UPDATE message from the relevant peer exceeds 128 bits.  [Explanation of message variables] <a href="mailto:bgp name"><a href="mailto:bgp name"></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a>

#	Message text	Description
65	bgp4+_recv_reach: Peer bgp name> [( <description>)] bad next hop address length <length></length></description>	Error (remote device)
		The next-hop address length of the route from the relevant peer is invalid.  [Explanation of message variables] <a href="mailto:specification-"><a href="mail&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;66&lt;/td&gt;&lt;td&gt;bgp4+_recv_reach:&lt;/td&gt;&lt;td&gt;Error (remote device)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Peer &lt;br/&gt; bgp name&gt; [(&lt;description&gt;)]&lt;br/&gt; next hop &lt;ipv6 address&gt; improper,&lt;br/&gt; ignoring routes in this update&lt;/td&gt;&lt;td&gt;The next-hop address of the route from the relevant peer is not on the same network.  [Explanation of message variables]  &lt;br/&gt; &lt;br/&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;67&lt;/td&gt;&lt;td&gt;bgp4+_recv_reach:&lt;/td&gt;&lt;td&gt;Error (remote device)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Peer &lt;br/&gt; bgp name&gt; [(&lt;description&gt;)]&lt;br/&gt; unknown family/subfamily &lt;family&gt;/&lt;br/&gt; &lt;subfamily&gt;&lt;/td&gt;&lt;td&gt;Route information other than IPv6 unicast was received from the relevant peer.  [Explanation of message variables]  &lt;br/&gt; &lt;br/&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;68&lt;/td&gt;&lt;td rowspan=2&gt;bgp4+_recv_unreach: Peer &lt;br/&gt;bgp name&gt; [(&lt;description&gt;)] UPDATE: Invalid length of MP_UNREACH_NLRI attribute(&lt;length&gt;): No address family&lt;/td&gt;&lt;td&gt;Error (remote device)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;The length of the MP_UNREACH_NLRI attribute for the UPDATE message received from the relevant peer is invalid. No address family exists.  [Explanation of message variables]  &lt;br/&gt; &lt;br/&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;69&lt;/td&gt;&lt;td&gt;bgp4+_recv_unreach:&lt;/td&gt;&lt;td&gt;Error (remote device)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Peer &lt;br/&gt; Peer &lt;br/&gt; Peer &lt;br/&gt; Peer &lt;br/&gt; Peer &lt;br/&gt; Peer &lt;br/&gt; Per &lt;br/&gt; Peer &lt;br/&gt; P&lt;/td&gt;&lt;td&gt;The prefix length of the unreachable route information of the UPDATE message from the relevant peer exceeds the data length of remaining unreachable route information.  [Explanation of message variables]  &lt;a href=" mailto:spaper-size:="" spape<="" spaper-size:="" td=""></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a>

#	Message text	Description
70	bgp4+_recv_unreach: Peer <bg></bg> bgp name> [( <description>)] UPDATE unreachable multi-protocol prefix length &lt;<err>length</err></description>	Error (remote device)  The prefix length of the unreachable route information of the UPDATE message from the relevant peer exceeds 128 bits.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                       <b< td=""></b<>
71	bgp4+_recv_unreach: Peer <bg></bg> Peer <bg></bg> bgp name> [( description>)] unknown family/subfamily <family>/ <subfamily></subfamily></family>	Unreachable route information other than IPv6 unicast was received from the relevant peer.  [Explanation of message variables] <a href="https://docs.org/be/sep-12"></a>
72	bgp4+_peer_established: Peer <bgp name=""> [(<description>)] connection established</description></bgp>	Information (local device or remote device)  A BGP4+ connection was established with the relevant peer.  [Explanation of message variables] <a href="mailto:bgp name">bgp name</a> : Connection destination peer name <a href="mailto:description">description</a> : Connection destination peer description name  [Action]  None.
73	bgp4+_ifachange: Peer bgp name> [( <description>)]: Closed connection by changing interface state</description>	Information (local device or remote device)  A BGP4+ connection was closed due to a change in the interface state.  [Explanation of message variables] <a href="mailto:bgp name">bgp name</a> : Connection destination peer name <a href="mailto:description">description</a> >: Connection destination peer description name  [Action]  Check the cause of the change in the interface state.
74	bgp4+_terminate: Peer bgp name> [( <description>)]: Closed connection by terminating bgp4+</description>	Information (local device)  A BGP4+ connection was closed due to the termination of a BGP4+ task.  [Explanation of message variables] <a href="mailto:bgp name">bgp name</a> : Connection destination peer name <a href="mailto:description">description</a> : Connection destination peer description name  [Action]  Check the cause of the termination of BGP4+ task.
75	bgp4+_peer_delete: Peer bgp name> [( <description>)]: Closed connection by changing configuration</description>	Information (local device)  A BGP4+ connection was closed due to a change in the configuration (deletion of peer information).  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                          

#	Message text	Description
76	bgp4+_init: Peer Peer Closed connection by changing configuration	Information (local device)  A BGP4+ connection was closed due to a change in the configuration.  [Explanation of message variables] <a href="https://docs.org/bgp.name">bgp name</a> : Connection destination peer name <a href="https://docs.org/description">description</a> >: Connection destination peer description name  [Action]  None.
77	bgp4+_peer_clear: Peer Peer Closed connection by clearing peer	Information (local device)  A BGP4+ connection was closed by entering the clear ipv6 bgp command.  [Explanation of message variables] <a href="mailto:bgp name">bgp name</a> : Connection destination peer name <a href="mailto:description">description</a> : Connection destination peer description name  [Action]  None.
78	bgp4+_pp_recv: Peer Peer bgp name > in graceful-restart failed to retain stale routes, deleting all the stale routes from the peer	Error (remote device)  The peer that performed graceful restart could not save the forwarding routes. All the routes that had been learned have been deleted from the relevant peer.  [Explanation of message variables] <a href="https://docs.org/be/by/99/99/99/99/99/99/99/99/99/99/99/99/99&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;79&lt;/td&gt;&lt;td&gt;bgp4+_recv_open: Peer &lt;br/&gt; bgp name&gt; in graceful-restart failed to retain stale routes, deleting all the stale routes from the peer&lt;/td&gt;&lt;td&gt;Error (remote device)  The peer that performed graceful restart could not save the forwarding routes. All the routes that had been learned have been deleted from the relevant peer.  [Explanation of message variables]  &lt;a href=" mailto:bgp="" name"="">bgp name</a> : Connection destination peer name  [Action]  Check the unicast routing program (BGP4+) on the peer.
80	bgp4+_restarttimeout: Peer bgp name> [( <description>)]: Timed out waiting for reconnect.</description>	Error (local device or remote device)  Graceful restart failed. A connection with the peer router could not be established within the restart time specified by the peer router.  [Explanation of message variables] <a href="https://docs.org/burne-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-route-&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;81&lt;/td&gt;&lt;td&gt;bgp4+_restart_ timeout: Peer &lt;br/&gt; bgp name&gt; [(&lt;br/&gt; description&gt;)]: Timed out waiting for End-Of-RIB marker from restart router.&lt;/td&gt;&lt;td&gt;Error (remote device)  Graceful restart failed. End-Of-RIB could not be received from the peer router.  [Explanation of message variables]  &lt;a href=" mailto:bgp="" name"="">bgp name</a> : Connection destination peer name <a href="mailto:description">description</a> : Connection destination peer description name  [Action]  Check if BGP4+ is running on the relevant peer router. If it is running, increase the stalepath-time value.

#	Message text	Description
82	bgp4+_peer_established: Peer bgp name> [( description>)] connection established with graceful restart.	Information (local device or remote device)
		A BGP connection with the relevant peer was re-established.  [Explanation of message variables] <a href="mailto:sepp name"><a hr<="" td=""></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a>
83	bgp4+_receive_End-Of-RIB: End-Of-RIB marker received from	Information (local device)
	<pre>end-OI-RIB marker received from <bgp name=""> [(<description>)].</description></bgp></pre>	End-Of-RIB was received.  [Explanation of message variables]   cbgp name>: Source peer name 
84	bgp4+_send_End-Of-RIB:	Information (local device)
	End-Of-RIB marker sent to <i><bgp< i=""> <i>name&gt;</i> [(<i><description></description></i>)].</bgp<></i>	End-Of-RIB was sent.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                                           <b< td=""></b<>
85	BGP4+:	Warning (remote device)
	NOTIFICATION sent to [( <description>)]:  code <code> (<code string="">)  [subcode <subcode <br=""></subcode> string&gt;)] [value <value>] [data <data>]</data></value></code></code></description>	A NOTIFICATION message was sent to the relevant peer.  [Explanation of message variables] <a href="mailto:subcode"></a>

#	Message text	Description
		1. Error code 1 (Message Header Error) - Error subcode 2 (bad length) - Error subcode 3 (bad message type) 2. Error code 2 (Open Message Error) - 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 6 (unacceptable holdtime) 3. Error code 3 (Update Message Error) - 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 5 (bad attribute length) - Error subcode 6 (bad ORIGIN attribute) - Error subcode 9 (error with optional attribute) - Error subcode 10 (bad address/prefix field) - Error subcode 11 (AS path attribute problem) 4. Error code 4 (Hold Timer Expired Error) 5. Error code 5 (Finite State Machine Error) 6. Error code 6 (Cease) - If the <code> value is invalid, <code string=""> displays invalid. If the <subcode> value is invalid, <subcode string=""> displays invalid. If the <subcode> value is invalid, <subcode string=""> displays invalid. If the <subcode> value&gt; indicates information about the data field of the NOTIFICATION message.  <ul> <li><value>: Decimal notation</value></li> <li><data>: Hexadecimal notation</data></li> </ul> <li>[Action] Check the network configuration and the peer configuration. If there is no problem with the configurations, check the unicast routing program (BGP4+) on the peer.</li> </subcode></subcode></subcode></subcode></subcode></code></code>
86	BGP4+:	Warning (local device)
	NOTIFICATION received from name> [( <description>)]:  code <code> (<code string="">)  [subcode <subcode> (<subcode </subcode  string&gt;)] [value <value>] [data  <data>]</data></value></subcode></code></code></description>	A NOTIFICATION message was received from the relevant peer.  [Explanation of message variables] <a href="mailto:speer"></a>

#	Message text	Description
		1. Error subcode 1 (lost connection synchronization) - Error subcode 2 (bad length) - Error subcode 3 (bad message type) 2. Error subcode 0 (unspecified 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 optional parameter) - Error subcode 6 (unacceptable holdtime) - Error subcode 7 (unsupported capability) 3. Error code 3 (Update Message Error) - 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 5 (bad attribute length) - Error subcode 6 (bad ORIGIN attribute) - Error subcode 8 (invalid NEXT_HOP) - Error subcode 9 (error with optional attribute) - Error subcode 9 (error with optional attribute) - Error subcode 10 (bad address/prefix field) - Error subcode 11 (AS path attribute problem) 4. Error code 4 (Hold Timer Expired Error) 5. Error code 5 (Finite State Machine Error) 6. Error code 6 (Cease) - If the <code> value is invalid, <code string=""> displays invalid. If the <subcode> value is invalid, <subcode string=""> displays unknown <value> or <data> indicates information about the data field of the NOTIFICATION message. <value>: Decimal notation <data>: Hexadecimal notation   Check the network configuration and other configurations.</data></value></data></value></subcode></subcode></code></code>
87	BGP4+:	Warning (remote device)
	No MD5 digest from <source ipv6=""/> + <port no.=""> to <destination ipv6="">+<port no.=""> [VRF <vrf id="">]</vrf></port></destination></port>	The MD5 authentication option is not set for the TCP segment received by BGP4+ connection.  Output of this operation message is as follows:  1. For the first 16 events, the message is output for each event.  2. For the 17th and subsequent events, the message is output once every 256 events.  3. If events occur three or more minutes after the last event has occurred, the message is output as described in 1 and 2 above.  Note that the counting described above includes the number of times the BGP4+: Invalid MD5 digest from <source ipv6=""/> + <port no.=""> to <destination ipv6=""> + <port no.=""> message is output.</port></destination></port>

#	Message text	Description
		[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 MD5 authentication is set in BGP4+ of the remote system.  If it is not set, set the MD5 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>
88	BGP4+:	Warning (local device or remote device)
	Invalid MD5 digest from <source ipv6=""/> + <port no.=""> to <destination ipv6="">+<port no.=""> [VRF <vrf id="">]</vrf></port></destination></port>	The MD5 authentication option for TCP segments received by BGP4+ connection is invalid.  Output of this operation message is as follows:  1. For the first 16 events, the message is output for each event.  2. For the 17th and subsequent events, the message is output once every 256 events.  3. If events occur three or more minutes after the last event has occurred, the message is output as described in 1 and 2 above.  Note that the counting described above includes the number of times the BGP4+: No MD5 digest from <source ipv6=""/> + <port no.=""> to <destination ipv6=""> + <port no.=""> message is output.  [Explanation of message variables]  <source ipv6=""/>: Source IPv6 address <port no.="">: TCP port number <destination ipv6="">: Destination IPv6 address <pre><vrf id="">: VRF ID [Action] Check if the MD5 authentication keys match in BGP4+ of the local and remote systems.  If the MD5 authentication keys do not match, set them so that they do match.  If the MD5 authentication keys match, check if TCP segments are being sent from a peer other than the source BGP4+ peer.</vrf></pre></destination></port></port></destination></port>
89	BGP4+:	Warning (remote device)
	Number of prefix received from <i><bgp< i=""> name&gt; [(<i><description></description></i>)]: reached <i><routes1></routes1></i>, limit <i><routes2></routes2></i></bgp<></i>	The number of paths (active paths and inactive paths) learned from the relevant peer exceeded the threshold.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                             
90	BGP4+:	Warning (remote device)

#	Message text	Description
	Number of prefix received from name> [( <description>)]: <routes i=""> exceed limit <routes 2=""></routes></routes></description>	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 bgp name> [( <description>)]: Closed connection by maximum-prefix</description>	BGP4+ connection was closed due to the limitation on the number of learned paths.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                                 <
92	bgp4+_pp_recv:	Warning (remote device)
	Peer < bgp name > as receiving-speaker failed to retain stale routes, the packets forwarded to the peer may be discarded.	The peer running as the receiving router could not save the forwarding routes. The packets forwarded to the relevant peer might have been discarded.  [Explanation of message variables] <a href="mailto:speechase"><a href="mailto:speechas&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;93&lt;/td&gt;&lt;td&gt;bgp4+_recv_open:&lt;/td&gt;&lt;td&gt;Warning (remote device)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Peer &lt; bgp name &gt; as receiving-speaker failed to retain stale routes, the packets forwarded to the peer may be discarded.&lt;/td&gt;&lt;td&gt;The peer running as the receiving router could not save the forwarding routes. The packets forwarded to the relevant peer might have been discarded.  [Explanation of message variables]  &lt;a href=" mailto:bgp="" name"="">bgp name</a>: Connection destination peer name  [Action]  During negotiation of the graceful restart functionality, it was reported that forwarding was disabled. Make sure that the peer router has not failed.</a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a>
94	BGP4+:	Information (local device)
	Completed the learning from receiving-speakers	Learning of route information from the receiving router has been completed.  [Explanation of message variables]  None.  [Action]  None.
95	BGP4+:	Information (local device)

#	Message text	Description
	Start advertisement, giving up learning from several receiving-speakers	Route advertisement will start, interrupting the learning of route information from some receiving routers.  [Explanation of message variables]  None.  [Action]  None.
96	BGP4+:	Warning (remote device)
	Peer bgp name> [( <description>)]  UPDATE included attribute type code  (0) [- AS Path (<as number="">):  <aspath>]</aspath></as></description>	An update message including a path attribute with 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] <a href="https://bww.nc.nc/bw.nc.2">bww.nc.nc.nc.nc.nc.nc.nc.nc.nc.nc.nc.nc.nc.</a>

### 2.2.4 Event information common to the IPv6 unicast routing protocols

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

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

#	Message text	Description
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. Check the capacity limits.
2	Rtm: Graceful Restart terminated because this system failed to retain the routes.	Warning (local device)  Graceful Restart failed because the routes could not be retained. [Explanation of message variables] None. [Action]  Make sure that a system switchover was not performed again or that the unicast routing program was not restarted during graceful restart.

#	Message text	Description
3	The number of IPv6 unicast routes on global network exceeded the limit.	Warning (local device)
	global network exceeded the limit.	The number of IPv6 unicast routes on the global network exceeded the maximum number of routes.  [Explanation of message variables]  None.  [Action]  1. Delete unnecessary routes.  2. Check the maximum number of routes specified in the configuration.
4	The number of IPv6 unicast routes on VRF < <i>vrf id</i> > exceeded the limit.	Warning (local device)
	VKF \vij ta> exceeded the fillill.	The number of IPv6 unicast routes on the VRF < <i>vrf id&gt;</i> exceeded the maximum number of routes.  [Explanation of message variables]  < <i>vrf id&gt;</i> : VRF ID  [Action]  1. Delete unnecessary routes.  2. Check the maximum number of routes specified in the configuration.
5	The number of IPv6 unicast routes on	Information (local device)
	global network exceeded the warning threshold.	The number of IPv6 unicast routes on the global network exceeded the warning threshold.  [Explanation of message variables]  None.  [Action]  When adding routes, make sure that the maximum number of routes is not exceeded.
6	The number of IPv6 unicast routes on	Information (local device)
	VRF < <i>vrf id</i> > exceeded the warning threshold.	The number of IPv6 unicast routes on the VRF < <i>vrf id&gt;</i> exceeded the warning threshold.  [Explanation of message variables]  < <i>vrf id&gt;</i> : VRF ID  [Action]  When adding routes, make sure that the maximum number of routes is not exceeded.

# 2.3 IPv6 routing information (RTM)

#### 2.3.1 RA

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

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

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

#	Message text	Description
5	rs_input:	Error
	RS with invalid hop limit ( <hoplimit>) received from <address> on <interface name=""></interface></address></hoplimit>	The router solicitation is ignored because the hop limit of the received router solicitation packet is not the correct value (255).  [Explanation of message variables] <hoplimit>: Hop limit value of the received router solicitation message <address>: Router solicitation sender address  <interface name="">: Name of the interface that receives the router solicitation  [Action]  Check the settings of the router that sends router solicitations.</interface></address></hoplimit>
6	rs_input:	Error
	RS with invalid ICMP6 code( <code>) received from <address> on <interface name=""></interface></address></code>	The router solicitation is ignored because the ICMP6 code of the received router solicitation packet is not the correct value (0).  [Explanation of message variables] <code>: ICMP6 code value of the received router solicitation message  <address>: Router solicitation sender address  <interface name="">: Name of the interface that receives the router solicitation  [Action]  Check the settings of the router that sends router solicitations.</interface></address></code>
7	rs_input:	Error
	RS from <address> on <interface name=""> does not have enough length (len = <length>)</length></interface></address>	The router solicitation is ignored because the received router solicitation packet is too short.  [Explanation of message variables] <address>: Router solicitation sender address  <interface name="">: Name of the interface that receives the router solicitation  <length>: Length of the received router solicitation packet  [Action]  Check the settings of the router that sends router solicitations.</length></interface></address>
8		Error (remote device)
	bad ND option length(0) (type = <type>)</type>	The length of the ND option is invalid.  [Explanation of message variables] <type>: Received ND option type number  [Action]  Take action for the rs_input and ra_input errors that were output together.</type>
9	ra_output:	Error (local device)
	Cannot send RA for I/F <interface name=""> (lack of active linklocal addr)</interface>	Router advertisements cannot be sent because there is no valid link local address in the relevant interface.  [Explanation of message variables] <interface name="">: Name of the router advertisement sending interface [Action]  If this error frequently occurs, check the status of the interface.</interface>
10	ra_output: Cannot send RA for I/F < interface name>	Error (local device)
		Router advertisements cannot be sent from the relevant interface.  [Explanation of message variables] <interface name="">: Name of the router advertisement sending interface [Action]  If this error frequently occurs, check the status of the interface.</interface>

#### 2. Routing Event Information

#	Message text	Description
11	ra_output: not send RA for I/F < interface name >	Warning (local device)
	(linkmtu < value own> is greater than the physical interface MTU < phymtu>)	Router advertisements are not output because the specified value exceeds the MTU length of the relevant interface.
		[Explanation of message variables] <interface name="">: Name of the router advertisement sending interface</interface>
		<pre><value own="">: MTU option value of the local system</value></pre>
		<pre><phymtu>: Physical MTU length of the interface [Action]</phymtu></pre>
		Check the settings of the router that sends router advertisements.

# 2.4 IPv4 multicast routing information (MRP)

#### 2.4.1 PIM-SM/PIM-DM

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

Table 2-10: IPv4 multicast routing (PIM-SM/PIM-DM) event information

#	Message text	Description
1	IGMP:	Error (remote device)
	received packet too short ( <length> bytes) for IP header [on VRF <vrf id="">]</vrf></length>	A packet smaller than the IP header was received.  [Explanation of message variables] <length>: Received packet size  <vrf id="">: VRF ID  [Action]  The remote device has sent invalid packets.  Check the IPv4 multicast communication program of the remote device.</vrf></length>
2	IGMP:	Error (remote device)
	received packet ( <length1> bytes) from <source address=""/> shorter than header + data length (<length2> + <length3> bytes) [on VRF <vrf id="">]</vrf></length3></length2></length1>	A packet smaller than the data length specified in the IP header was received.  [Explanation of message variables] <length1>: Size of the received packet  <source address=""/>: Source IPv4 address  <length2>: Received IP header size  <length3>: Size of the received IP packet data  <vrf id="">: VRF ID  [Action]  The remote device has sent invalid packets.  Check the IPv4 multicast communication program of the remote device.</vrf></length3></length2></length1>
3	IGMP:	Error (remote device)
	received IP data field too short ( <length> bytes) for IGMP header, from <source address=""/> to <destination address=""> [on VRF <vrf id="">]</vrf></destination></length>	A packet smaller than an IGMP header length (8) was received.  [Explanation of message variables] <li>length&gt;: Size of the received IP packet data  <source address=""/>: Source IPv4 address  <destination address="">: Destination IPv4 address  <vrf id="">: VRF ID  [Action]  The remote device has sent invalid packets.  Check the IPv4 multicast communication program of the remote device.</vrf></destination></li>
4	IGMP: ignoring packet from <source address=""/> to <destination address=""> [on VRF &lt; vrf id&gt;] - invalid igmp header checksum (data '<data>', length '<length>')</length></data></destination>	Error (remote device)  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]  The remote device has sent invalid packets.  Check the IPv4 multicast communication program of the remote device.</length></data></vrf></destination>

#	Message text	Description
5	IGMP: ignoring <packet> from <source address=""/> to <destination address=""> [on VRF <vrf id="">] - invalid group address '<group address="">'</group></vrf></destination></packet>	Error (remote device)  A received IGMP packet was ignored because the group address in the packet was invalid.  [Explanation of message variables] <pre></pre>
6	IGMP: Querier was changed on interface <interface name=""> [of VRF <vrfid>] - new querier <querier address="" ip=""> (was <old address="" ip="" querier="">)</old></querier></vrfid></interface>	Event (local device)  The querier router changed on the interface.  [Explanation of message variables] <interface name="">: Interface name  <vrf id="">: VRF ID  <querier address="" ip="">: Querier IPv4 address  <old address="" ip="" querier="">: Previous querier IPv4 address  [Action]  None.</old></querier></vrf></interface>
7	PIM: received packet too short ( <length> bytes) for IP header [on VRF <vrf id="">]</vrf></length>	Error (remote device)  A packet smaller than the IP header was received.  [Explanation of message variables] <length>: Received packet size  <vrfid>: VRF ID  [Action]  The remote device has sent invalid packets.  Check the IPv4 multicast routing program (PIM-SM or PIM-DM) of the remote device.</vrfid></length>
8	PIM: received packet ( <length1> bytes) from <source address=""/> shorter than header + data length (<length2> + <length3> bytes) [on VRF &lt; vrf id&gt;]</length3></length2></length1>	Error (remote device)  A packet smaller than the data length specified in the IP header was received.  [Explanation of message variables] <length1>: Size of the received packet  <source address=""/>: Source IPv4 address  <length2>: Received IP header size  <length3>: Size of the received IP packet data  <vrf id="">: VRF ID  [Action]  The remote device has sent invalid packets.  Check the IPv4 multicast routing program (PIM-SM or PIM-DM) of the remote device.</vrf></length3></length2></length1>

#	Message text	Description
9	PIM: received IP data field too short ( <length> bytes) for PIM header, from <source address=""/> to <destination address=""> [on VRF <vrf id="">]</vrf></destination></length>	Error (remote device)
		A packet smaller than the PIM header length (4) was received.  [Explanation of message variables] <le>length&gt;: Size of the received IP packet data : Source IPv4 address : Destination IPv4 address  <ul> <li>verf id&gt;: VRF ID</li> </ul>  [Action]  The remote device has sent invalid packets.  Check the IPv4 multicast routing program (PIM-SM or PIM-DM) of the remote device.  </le>
10	PIM:	Error (remote device)
	ignoring packet from <source address=""/> to <destination address=""> [on VRF <vrf id="">] - invalid pim header checksum (data '<data>', length '<length>')</length></data></vrf></destination>	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 received PIM data  <length>: Length of the received PIM data  [Action]  The remote device has sent invalid packets.  Check the IPv4 multicast routing program (PIM-SM or PIM-DM) of the remote device.</length></data></vrf></destination>
11	PIM:	Error (remote device)
	ignoring <pre></pre>	A received PIM packet was ignored because the packet size was smaller than the minimum packet length.  [Explanation of message variables] <pre></pre>

#	Message text	Description
12	PIM:	Error (remote device)
	ignoring <packet> message from <source address=""/> to <destination address=""> [on VRF <vrf id="">] - invalid encoded unicast address (<cause>)</cause></vrf></destination></packet>	A received PIM packet was invalid.  [Explanation of message variables] <pre> <pre> <pre></pre></pre></pre>
13	PIM: ignoring <packet> message from</packet>	Error (remote device)
	<pre><source address=""/> to <destination address=""> [on VRF &lt; vrf id&gt;] - invalid encoded source address (<cause>)</cause></destination></pre>	A received PIM packet was ignored because the encoding sender IPv4 address in the packet was invalid.  [Explanation of message variables] <pre></pre>

#	Message text	Description	
14	PIM:	Error (remote device)	
	ignoring <pre></pre>	A received PIM packet was ignored because the encoding group address in the packet was invalid.  [Explanation of message variables] <pre></pre>	
15	PIM: ignoring Hello message from <source< td=""><td colspan="2">Error (remote device)</td></source<>	Error (remote device)	
	address> [on VRF < vrf id>] - invalid holdtime option length (< length>)	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]  The remote device has sent invalid packets.  Check the IPv4 multicast routing program (PIM-SM or PIM-DM) of the remote device.</length></vrf>	
16	PIM:	Error (remote device)	
	ignoring Hello message from <i><source< i=""> address&gt; [on VRF <i><vrf id=""></vrf></i>] - no holdtime option</source<></i>	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]  The remote device has sent invalid packets.  Check the IPv4 multicast routing program (PIM-SM or PIM-DM) of the remote device.</vrf>	

#	Message text	Description
17	PIM: ignoring Register message from <source address=""/> to <destination address=""> [on VRF <vrf id="">] - invalid inner source address '<inner address="" source="">'</inner></vrf></destination>	Error (remote device)
		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  <vrfid>: VRF ID  <inner address="" source="">: Encapsulated source IPv4 address  [Action]  The multicast data sender has sent invalid packets.  Check the IPv4 multicast communication program of the multicast data sender.</inner></vrfid></destination>
18	PIM:	Error (remote device)
	ignoring Register message from <source address=""/> to <destination address=""> [on VRF <vrf id="">] - invalid inner group address '<inner address="" group="">'</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  <vrfid>: VRF ID  <inner address="" group="">: Encapsulated group address  [Action]  The multicast data sender has sent invalid packets.  Check the IPv4 multicast communication program of the multicast data sender.  If the encapsulated group address is in the range from PIM to SSM, check the PIM-SSM setting of the remote device.</inner></vrfid></destination>
19	PIM:	Error (remote device)
	ignoring Bootstrap message from <source address=""/> to <destination address&gt; [on VRF <vrf id="">] - invalid hash mask length '<value>'</value></vrf></destination 	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  <vrfid>: VRF ID  <value>: Hash mask length specified for the received packet [Action]  The remote device has sent invalid packets.  Check the IPv4 multicast routing program (PIM-SM) of the remote device.</value></vrfid></destination>
20	PIM:  PSP information was abanged for VPF	Warning (remote device)
	BSR information was changed [on VRF < vrf id>] - lost BSR information	BSR information was cleared because advertisements from the bootstrap router were lost.  [Explanation of message variables] <pre> </pre> <pre> </pre> <pre> </pre> <pre> <pre> <pre> <pre> <pre></pre></pre></pre></pre></pre>

#	Message text	Description
21	PIM:	Event (local device)
	BSR information was changed [on VRF <vrf id="">] - new BSR address <ip address&gt;</ip </vrf>	BSR address was changed.  [Explanation of message variables]  < vrf id>: VRF ID  < ip address>: BSR address  If the BSR address is this device, (this system) is displayed after the IPv4 address.  [Action]  None.
22	PIM: started learning IPv4 multicast routing entries due to a system change (learning time is about <i><time></time></i> seconds)	Event (local device)  A switchover from the standby system to the active system caused the learning of IPv4 multicast route information to be started. (The learning time is about <time> seconds.) [Explanation of message variables] <time> Re-learning time [Action] None.</time></time>
23	PIM: completed learning IPv4 multicast	Event (local device)
	routing entries after the system change	A switchover from the standby system to the active system caused the learning of IPv4 multicast route information to be finished.  [Explanation of message variables]  None.  [Action]  None.

# 2.5 IPv6 multicast routing information (MR6)

#### 2.5.1 IPv6 PIM-SM

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

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

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

#	Message text	Description
4	PIM: ignoring <packet> message from <source address=""/> [on VRF <vrf id="">] - packet too short (<length> bytes)</length></vrf></packet>	Error (remote device)
		A received PIM packet was ignored because the packet size was smaller than the minimum packet length.  [Explanation of message variables] <pre></pre>
5	PIM:	Error (remote device)
	ignoring <pre>/packet&gt; message from <source address=""/> [on VRF <vrfid>] - invalid encoded unicast address (<cause>)</cause></vrfid></pre>	A received PIM packet was ignored because the encoding unicast address in the packet was invalid.  [Explanation of message variables] <pre></pre>
6	PIM:	Error (remote device)
	ignoring <pre>/packet&gt; message from <source address=""/> [on VRF <vrf id="">] - invalid encoded source address (<cause>)</cause></vrf></pre>	A received PIM packet was ignored because the encoding source address was invalid.  [Explanation of message variables] <pre>packet&gt;: Packet type     Join/Prune     source address&gt;: Source IPv6 address     vrf id&gt;: VRF ID     cause&gt;: 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).  [Action] The remote device has sent invalid packets. Check the IPv6 multicast routing program (IPv6 PIM-SM) of the remote device.</value></value></value></value></pre>

#	Message text	Description
7	PIM:	Error (remote device)
	ignoring <pre>/packet&gt; message from <source address=""/> [on VRF <vrf id="">] - invalid encoded group address (<cause>)</cause></vrf></pre>	A received PIM packet was ignored because the encoding group address in the packet was invalid.  [Explanation of message variables] <pre></pre>
8	PIM:	invalid (not in the range from 8 to 128).  • group address ' <address>': The group address <address> is invalid.  [Action]  The remote device has sent invalid packets.  Check the IPv6 multicast routing program (IPv6 PIM-SM) of the remote device.</address></address>
8	ignoring Hello message from <i>source</i> address [on VRF <i>source</i> ] - invalid holdtime option length ( <i>source</i> )	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]  The remote device has sent invalid packets.  Check the IPv6 multicast routing program (IPv6 PIM-SM) of the remote device.</length></vrf>
9	PIM:	Error (remote device)
	ignoring Hello message from <i><source< i=""> address&gt; [on VRF <i><vrf id=""></vrf></i>] - no holdtime option</source<></i>	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 <vrfid>: VRF ID  [Action]  The remote device has sent invalid packets.  Check the IPv6 multicast routing program (IPv6 PIM-SM) of the remote device.</vrfid>
10	PIM:	Error (remote device)
	ignoring Register message from <source address=""/> [on VRF < vrf id>] - invalid inner source address ' <inner address="" source="">'</inner>	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 <vrfid>: VRF ID  <inner address="" source="">: Encapsulated source address  [Action]  The multicast data sender has sent invalid packets.  Check the IPv6 multicast communication program of the multicast data sender.</inner></vrfid>

#	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 <vrfid>: VRF ID  <inner address="" source="">: Encapsulated source address  [Action]  The multicast data sender has sent invalid packets.  Check the IPv6 multicast communication program of the multicast data sender.</inner></vrfid>
12	PIM:	Error (remote device)
	ignoring Register message from <source address=""/> [on VRF <vrf id="">] - invalid inner group address '<inner address="" group="">'</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 <vrfid>: VRF ID  <inner address="" group="">: Encapsulated group address  [Action]  The multicast data sender has sent invalid packets.  Check the IPv6 multicast communication program of the multicast data sender.</inner></vrfid>
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 multicast data sender has sent invalid packets.  Check the IPv6 multicast communication program of the multicast data sender.</inner></vrf>
14	PIM:	Error (remote device)
	ignoring Register message from <source address=""/> [on VRF <vrf id="">] - invalid inner IP version '<version>'</version></vrf>	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 multicast data sender has sent invalid packets.  Check the IPv6 multicast communication program of the multicast data sender.</version></vrf>

#	Message text	Description
15	PIM: ignoring Bootstrap message from <source address=""/> [on VRF <vrf id="">] - invalid hash mask length '<value>'</value></vrf>	Error (remote device)
		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]  The remote device has sent invalid packets.  Check the IPv6 multicast routing program (IPv6 PIM-SM) of the remote device.</value></vrf>
16	PIM:	Error (remote device)
	ignoring Bootstrap message from <source address=""/> [on VRF <vrf id="">] - invalid BSR address '<ipv6 address="">'</ipv6></vrf>	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 <vrfid>: VRF ID  <ipv6 address="">: BSR address  [Action]  The remote device has sent invalid packets.  Check the IPv6 multicast routing program (IPv6 PIM-SM) of the remote device.</ipv6></vrfid>
17	PIM:	Warning (local device)
	ignoring Bootstrap message from <source address=""/> [on VRF <vrf id="">] - cannot find a route to the BSR(<ipv6 address&gt;)</ipv6 </vrf>	A received PIM packet was ignored because the unicast route to the BSR address in the bootstrap was not found.  [Explanation of message variables] <source address=""/> : Source IPv6 address <vrf id="">: VRF ID  <ipv6 address="">: BSR address  [Action]  Make sure that the route to the BSR address in the Bootstrap packet exists.</ipv6></vrf>
18	PIM:	Error (remote device)
	ignoring Candidate-RP-Advertisement message from <source address=""/> [on VRF <vrf id="">] - non global address(<ipv6 address="">) as RP</ipv6></vrf>	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 <vrfid>: VRF ID  <ipv6 address="">: Rendezvous point address  [Action]  The remote device has sent invalid packets.  Check the IPv6 multicast routing program (IPv6 PIM-SM) of the remote device.</ipv6></vrfid>
19	PIM:	Warning (remote device)
	BSR information was changed [on VRF < vrf id > ] - lost BSR information	BSR information was cleared because advertisements from the bootstrap router were lost.  [Explanation of message variables] <vrfid>: VRF ID  [Action]  Investigate why advertisements from the bootstrap router were lost.</vrfid>

#	Message text	Description
20	PIM: BSR information was changed [on VRF < vrf id>] - new BSR address < ipv6 address>	Event (local device)  BSR address was changed.  [Explanation of message variables]  < vrf id>: VRF ID  < ipv6 address>: BSR address  If the BSR address is this device, (this system) is displayed after the IPv6 address.  [Action]  None.
21	PIM: Add interface <interface name=""> [of VRF &lt; vrf id &gt; ] to the output interface list of (S,G)=(<source address=""/> , &lt; group address &gt; )</interface>	Event (local device)  The interface <interface name=""> was added to the output interface list of the multicast routing cache (S, G) (this message is output to the syslog interface only when the output of event information specific to syslog is enabled). Use the debug protocols ipv6-multicast command to enable the event information specific to syslog).  [Explanation of message variables] <interface name="">: Interface name <vrf id="">: VRF ID <source address=""/>: Source IPv6 address <group address="">: IPv6 group address [Action] None.</group></vrf></interface></interface>
22	PIM: Delete interface <interface name=""> [of VRF &lt; vrfid &gt; ] from the output interface list of (S,G)=(<source address=""/> , &lt; group address &gt; )</interface>	Event (local device)  The interface <interface name=""> was deleted from the output interface list of the multicast routing cache (S, G) (this message is output to the syslog interface only when the output of event information specific to syslog is enabled). Use the debug protocols ipv6-multicast command to enable the event information specific to syslog).  [Explanation of message variables] <interface name="">: Interface name <vrf id="">: VRF ID <source address=""/>: Source IPv6 address <group address="">: IPv6 group address [Action] None.</group></vrf></interface></interface>
23	PIM: started learning IPv6 multicast routing entries due to a system change (learning time is about <i><time></time></i> seconds)	Event (local device)  Learning of IPv6 multicast entries has started due to switching from the standby system to the active system (the learning time is about <time> seconds).  [Explanation of message variables] &lt; time&gt;: Re-learning time [Action] None.</time>
24	PIM: completed learning IPv6 multicast routing entries after the system change	Event (local device)  Learning of IPv6 multicast entries due to switching from the standby system to the active system has been completed.  [Explanation of message variables]  None.  [Action]  None.

# Chapter

# 3. Switch Failure and Event Information

This chapter describes the contents of switch failure and event information. All messages regarding switch failure and event information are output to the operation terminal window. 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 Access
- 3.3 Protocol
- 3.4 Switch parts
- 3.5 Port
- 3.6 Optional modules
- 3.7 Basic control unit [AX6700S]
- 3.8 Basic switching unit [AX6700S]
- 3.9 Control and switching unit [AX6600S]
- 3.10 Management switching unit [AX6300S]
- 3.11 AX6700S and AX6600S series network interface unit [AX6700S] [AX6600S]
- 3.12 AX6300S series network interface unit [AX6300S]

# 3.1 Configuration

#### 3.1.1 Event location = CONFIG

The following table describes switch failure and event information when the event location is CONFIG.

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

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text
				Descri	ption
1	Е3	CONFIG	00010005	0100	There is mismatch between active and standby configuration.
	[Explanation None. [Action] 1. There is 2. In all oth configura Note, how save con	no problem if the cases, executations the same wever, that if the figuration com	he configuration te the save con (the standby sys e software version amand might be	is being edited figuration com tem configurations are not the disabled. If the	d. mand to make the active and standby system ion becomes identical to the active system configuration). same for the active and standby systems, execution of the command cannot be executed, make the software ation command.
2	Е3	CONFIG	00010006	0100	Active and standby configuration is identical.
	The active system configuration and the standby system configuration are the same.  [Explanation of message variables]  None.  [Action]  None.				onfiguration are the same.
3	Е3	CONFIG	09200001	0100	Active and standby configuration failed in synchronization.
	of redundant [Explanation None. [Action]	operation. of message va	riables]		dby systems could not be synchronized at the beginning
4	Е3	CONFIG	09200002	0100	Active and standby configuration successfully synchronized.
The running configuration file was successfully synchronized between the active and standby s beginning of redundant operation.  [Explanation of message variables]  None.  [Action]  None.				zed between the active and standby systems at the	

#	Event	Event	Message	Added	Message text	
	level	location	ID	info. Highest 4		
				digits		
				Descri	ption	
5	E3	CONFIG	09300001	0100	This system started with the default configuration file. because the startup configuration file is not found or broken.	
	[Explanation None. [Action] 1. If you hat startup c	of message values  ave saved the coonfiguration file	riables] onfiguration file	, use the copy	tup configuration file was not found or could not be read.  command, and apply the saved configuration file to the ew configuration file.	
6	E3	CONFIG	09300002	0100	Configuration command syntax error. line <i><li>line</li></i> number>: " <error syntax="">"</error>	
	Application of the running configuration was skipped because a syntax error was detected in the startup configuration file.  [Explanation of message variables] <li>line number&gt;: Line number of the target configuration command  <pre>error syntax&gt; : Syntax of the target configuration command  [Action]  If this log message is output when the software is downgraded, the configuration command indicated in the message is not supported by the software version after the downgrade. If the Switch is operating in a redundant configuration, the active system and the standby system have different configurations. If system switching occurs in this state, the new active system will restart after the switch. To prevent the switch from being restarted when the system is switched, restore the software to the version that existed before the update, delete the configuration command indicated in the log message, and then update the software again.</pre></li>					
7	Е3	CONFIG	09300003	0100	Cannot change the interface configuration commands of NIF< <i>nif no.</i> >.	
	replaced, con [Explanation <nif no.="">: N [Action]</nif>	ald not be chang n of message var HF number	ged.	-	nsistent with the inserted board because the board was	
8	Е3	CONFIG	09300005	0100	The interface configuration commands of NIF < nif no. > changed, because NIF < nif no. > board connected.	
		of message va		ged because ar	n NIF board was connected.	
9	Е3	CONFIG	09300006	0100	The interface configuration commands of NIF< <i>nif no.</i> > deleted, because NIF< <i>nif no.</i> > slot not exist.	
		of message var		hat is non-exist	tent on the Switch was deleted.	

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text		
				Descri	ption		
10	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.						
11	E3	CONFIG	09300008	0100	Cannot set the automatic setting configuration command. : < <i>command</i> >		
	[Explanation < command > [Action]	etting of the cor of message va : Command na	me	mand failed.			
12	Е3	CONFIG	09600006	1001	Configuration access management error. process <pre>process name</pre> :pid <pre>process id</pre> :time		
	The lock was released and the device automatically recovered because a process was accessing the configurat a long time.  [Explanation of message variables] <pre></pre>						
13	E5	CONFIG	00010007	0100	There is mismatch between active and standby configuration.		

The active system configuration differs from the standby system configuration.

In this state, system switching cannot be performed by using the redundancy force-switchover command. If system switching occurs in this state due to a fatal error, or by clicking the Reset button, by pressing the ACH switch, or by executing the reload active command, the new active system will restart after the switch.

[Explanation of message variables]

None.

- 1. This message might be output when you are editing a configuration. In such a case, execute the show logging command after you have finished editing and make sure that the Active and standby configuration is identical. message has been output. If this message has been output, no action is required because the error has been recovered from automatically.
- 2. In all other cases, execute the save configuration command to make the active and standby system configurations the same (the standby system configuration becomes identical to the active system configuration).
- 3. Note, however, that if the software versions are not the same for the active and standby systems, execution of the save configuration command might be disabled. If the command cannot be executed, make the software versions the same, and then execute the save configuration command.

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text
				Descri	ption
14	R5	CONFIG	00010007	0100	Active and standby configuration is identical.
	,	vstem configura of message va		ndby system co	onfiguration are the same.

### 3.2 Access

## 3.2.1 Event location = ACCESS

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

Table 3-2: Switch failure and event information when the event location is ACCESS

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text
				Descr	ription
1	Е3	ACCESS	0000001	0201 0205	Unknown host address < ip address > [on VRF < vrf id > ].
	An attempt t	to connect via	Telnet or FTP from	m < <i>in addres</i>	s> was not permitted

attempt to connect via Telnet or FTP from *ip address* was not permitted.

[Explanation of message variables]

<ip><ip address>: IPv4 address or IPv6 address

<vrf id>: 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 is <ip address>.
- 2. If remote access from <ip address> is permitted, the configuration might be incorrect. Check the configuration.
- 3. If you want to permit remote access from <ip address>, specify access permissions for the configuration.
- 4. If remote access from VRF < vrf id> is permitted, the configuration might be incorrect. Check the configuration.
- 5. If you want to permit remote access from VRF < vrf id>, specify access permissions for the configuration.

2	E3	ACCESS	00000002	0201 0205	Login incorrect <user name="">.</user>
				0203	

An attempt to log in by using the *<user name>* account was made, but login was not allowed.

[Explanation of message variables]

<user name>: User name

[Action]

- 1. There might have been an unauthorized access (failed account or password authentication) to the Switch from a remote host permitted at the console or in the configuration. Check the operating status of the permitted remote host from the console or in the configuration.
- 2. This log data is collected even when a legitimate user executes an incorrect operation during login. Therefore, although this log data has been collected, the operating status of the remote host might be correct.
- 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	Е3	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.

- 1. Check the number of users who are currently logged in.
- 2. If necessary, in the configuration increase the limit for the number of users who can log in.

#	Event level	Event location	Message ID	Added info.	Message text			
				Highest 4 digits				
				Descr	ription			
4	Е3	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>: User name  <host>: Host ID  • For a remote operation terminal: IPv4 or IPv6 address  • For a console terminal: console  • For AUX terminal: aux  <urf id="">: VRF ID  <term>: Terminal name  • For a remote operation terminal: ttypo or higher  • For a console terminal: ttyoo  • For AUX terminal: ttyoo  • For AUX terminal: ttyool  [Action]</term></urf></host></host></user>							
5	E3	ACCESS	00005003	0200	Logout <user name=""> from <host> [on VRF <vrf id="">] (<term>).</term></vrf></host></user>			
	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  • For AUX terminal: aux  <urf id="">: VRF ID  <term>: Terminal name  • For a remote operation terminal: ttyp0 or higher  • For a console terminal: tty00  • For AUX terminal: tty01  [Action]</term></urf></host></user>							
6	Е3	ACCESS	00010001	0204	SNMP agent program received packet from <ip address="">[ on VRF <vrf id="">] with unexpected community name <community name="">.</community></vrf></ip>			
	The SNMP agent received a packet that had the unexpected community name <community name=""> from <ip address="">.  [Explanation of message variables] <ip>address&gt;: IPv4 address or IPv6 address of the SNMP manager  *vrf id&gt;: VRF ID *community name&gt;: Community name [Action] Access to the Switch was attempted from a location other than the SNMP manager permitted in 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 <ip address=""> and <community name="">. 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 <ip address="">. 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.</ip></community></ip></ip></ip></community>							

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text		
				Descr	iption		
7	E3	ACCESS	00020001	0206	Login incorrect <user name=""> for AUX port.</user>		
	An attempt to establish a PPP link via the AUX port by using the < user name> account was not permitted.  [Explanation of message variables] <user name="">: User name [Action]  1. There might have been an unauthorized access (failed account or password authentication) during PPP access the AUX port.  2. This log data is collected even when a legitimate user executes an incorrect operation during login. Therefore although this log data has been collected, the operating status might be correct.</user>						
8	E3	ACCESS	00020002	0206	AUX port no Configuration.		
	A link via the AUX port could not be established because the interface async configuration was not set.  [Explanation of message variables]  None.  [Action]  Check the interface async configuration.						
9	Е3	ACCESS	00030001	0201 0205 0208 0209	Local authentication succeeded.		
Local authentication was performed and was successful administrator mode (enable command).  [Explanation of message variables]  None.  [Action]  None.				successful fo	or a user login request or request to change to the		
10	E3	ACCESS	00030002	0201 0205 0208 0209	Local authentication failed.		
		ntication was per mode (enabl		entication fai	iled for a user login request or request to change to the		

[Explanation of message variables]

None.

- 1. There might have been an unauthorized access to the Switch from a remote host permitted by the configuration. Check the operating status of the remote host.
- This log data is collected even when a legitimate user executes an incorrect operation (such as incorrect password entry) during login. Therefore, although this log data has been collected, the operating status of the remote host might be correct.

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text				
				Descr	iption				
11	Е3	ACCESS	00030003	0201 0205 0208 0209	RADIUS authentication accepted from < host>.				
	mode (enab [Explanation								
12	Е3	ACCESS	00030004	0201 0205 0208 0209	RADIUS authentication rejected from <host>. "<message>"</message></host>				
	administrator [Explanation <host>: IP a <message> [Action]  1. There m Check tl 2. This log entry) di</message></host>	RADIUS authentication was attempted, but authentication failed for a user login request or request to change to 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. There might have been an unauthorized access to the Switch from a remote host permitted by the configuration. Check the operating status of the remote host.  2. This log data is collected even when a legitimate user executes an incorrect operation (such as incorrect password entry) during login. Therefore, although this log data has been collected, the operating status of the remote host might be correct.</message></host>							
13	Е3	ACCESS	00030005	0201 0205 0208 0209	RADIUS server ( <host>) didn't response.</host>				
	RADIUS authentication was attempted for a user login request or request to change to the administrator mode (enable command), but the RADIUS server did not respond.  [Explanation of message variables] <host>: IP address or host name of the RADIUS server  [Action]  1. Check the configuration to make sure that the RADIUS server IP address is correct.  2. Check the RADIUS server configuration to make sure that the RADIUS server port number is correct.  3. Check that the RADIUS server has started.  4. Check that the IP address of this Switch has been registered as a client IP address on the RADIUS server.</host>								

14	E3	ACCESS	00030006	0201	RADIUS server configuration not defined.
				0205	
				0208	
				0209	

RADIUS authentication was attempted for a user login request or request to change to the administrator mode (enable command), but a RADIUS server configuration has not been set up.

[Explanation of message variables]

None.

- 1. Check that a RADIUS configuration is set up.
- 2. Check if acct-only is specified for the RADIUS configuration to suppress authentication.

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text	
				Descr	iption	
15	E3	ACCESS	00030007	0201 0205 0208 0209	Invalid response received from <i><host></host></i> .	
	mode (enab [Explanation <host>: IP a [Action]</host>	le command), a of message va address or host	but the response tariables] name of the RAD	from RADIU	user login request or request to change to the administrator S or TACACS+ server was invalid.  ACS+ server recified for the Switch and the RADIUS or TACACS+	
16	Е3	ACCESS	00030008	0201 0205 0208 0209	RADIUS authentication failed.	
	command) [Explanation None. [Action]	of message va	riables]	·	request to change to the administrator mode (enable cation were output, refer to them.	
17	E3	ACCESS	0003000a	0201 0205 0208 0209	Can't communicate with RADIUS server ( <host>).</host>	
	Communication with the RADIUS server failed.  [Explanation of message variables] <host>: IP address or host name of the RADIUS server  [Action]  1. Make sure that there is a route to the RADIUS server.  2. If you are specifying a host name for the RADIUS server, make sure that name resolution can be performe</host>					
18	Е3	ACCESS	0003000b	0201 0208	RADIUS authorization response with no contents.	
	server. [Explanation None. [Action] Make sure the	of message va	riables]	mmands, and	ommand list was not properly obtained from the RADIUS  Alaxala-Deny-Commands are properly set in the witch).	

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text	
				Descr	iption	
19	E3	ACCESS	00030013	0201 0205 0208 0209	TACACS+ authentication accepted from <host>.</host>	
	administrato [Explanation	r mode (enabl of message va	e command).		a user login request or request to change to the	
20	E3	ACCESS	00030014	0201 0205 0208 0209	TACACS+ authentication rejected from <host>.</host>	
	(enable cor [Explanation <host>: IP a [Action] 1. There m Check th 2. This log entry) du might be</host>	nmand), but the of message value ddress or host sight have been the operating standard is collected uring login. The	e TACAĈS+ servariables] name of the TACA an unauthorized a tus of the remote d even when a legi erefore, although t	er denied it.  ACS+ server  access to the S host.  itimate user e	Switch from a remote host permitted by the configuration.  Executes an incorrect operation (such as incorrect password has been collected, the operating status of the remote host	
21	Е3	ACCESS	00030015	0201 0205 0208 0209	TACACS+ server ( <host>) didn't response.</host>	
	TACACS+ authentication and command authorization (if there is a command authorization specification in the TACACS+ configuration) were attempted for a user login request or request to change to the administrator mode (enable command), but the TACACS+ server did not respond.  [Explanation of message variables] <h style="color: red;"></h>					
22	E3	ACCESS	00030016	0201 0205 0208 0209	TACACS+ server configuration is not defined.	
	(enable cor [Explanation None. [Action] 1. Make su	nmand), but a a of message variethat a TACA	TACACS+ server uriables]  ACS+ configuration	configuration on is set up.	request or request to change to the administrator mode in did not exist.  onfiguration to suppress the authentication.	

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text		
				Descr	iption		
23	E3	ACCESS	00030018	0201 0205 0208 0209	TACACS+ authentication failed.		
	command). [Explanation None. [Action]	n of message va	riables]		r request to change to the administrator mode (enable  ACS+ authentication, refer to them.		
24	E3	ACCESS	0003001a	0201 0205 0208 0209	Can't communicate with TACACS+ server ( <host>).</host>		
	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. Check that the TACACS+ server has started.  5. Make sure that the IP address of the Switch is registered for the client IP address on the TACACS+ server server.</host>						
25	Е3	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).						
26	Е3	ACCESS	0003001c	0201 0208	TACACS+ authorization rejected from < host>.		
	TACACS+ authentication was attempted, but the TACACS+ server denied it.  [Explanation of message variables]  < host>: IP address or host name of the TACACS+ server  [Action]  1. Make sure that the service name is correct in the TACACS+ server settings (vendor-specific setting for the Switch).  2. Check other settings on the TACACS+ server side.						

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text			
	Description							
27	Е3	ACCESS	0003001d	0201 0208	Local authorization response with no contents.			

Local command authorization was performed, but neither a user name nor a command class or command list corresponding to the user name was set. [Explanation of message variables]

None.

[Action]

Make sure that 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.

## 3.3 Protocol

# 3.3.1 Event location = IP

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

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

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text		
				Descri	otion		
1	E4	IP	2b080b50	0600	Multicast routing entries was beyond 80 percent at total interface capacity.		
	[Explanation None. [Action] If you want t	of message var	riables]	nces in the rout	mation exceeded 80% of the capacity limit of the Switch.		
2	E4	IP	2b080b51	0600	Multicast routing entries exceeded capacity at total interface capacity.		
	The total number of interfaces in the multicast routing information has exceeded the capacity limit of the Switch.  [Explanation of message variables]  None.  [Action]  Use the show ip mroute and show ipv6 mroute commands to make sure that the total number of interfaces in the current multicast routing information does not exceed the capacity limit of the Switch.  If the capacity limit is exceeded, take one of the following actions:  1. Delete unnecessary information from the multicast routing information.  2. Review the network system configuration, and change it to one in which the multicast routing information can be reduced.						
3	E4	IP	2b090b00	0600	IPv4 unicast routing entries was beyond 80 percent of capacity.		
	The number of IPv4 unicast routing entries exceeded 80% of the capacity limit.  [Explanation of message variables]  None.  [Action]  Note that the usage of IPv4 unicast routing entries (including APR entries) exceeded 80% of the capacity limit.  Use the entries in a way that does not exceed the capacity limit.						
4	E4	IP	2b090b01	0600	IPv4 unicast routing entries exceeded capacity.		
The number of IPv4 unicast routing entries has exceeded the capacity limit.  [Explanation of message variables]  None.  [Action]  The resources for the IPv4 unicast routing entries are used by the IPv4 unicast routing entries and A Use the show system command to make sure that the usage of IPv4 unicast routing entries has no capacity limit of the switch.  If the capacity limit has been reached, review the system configuration.  If the number of entries is not reduced by taking the above actions, use the clear ip route command the routing information.							

#	Event level	Event location	Message ID	Added info. Highest 4	Message text		
				digits Descrip			
		T		Descrip	ouon		
5	E4	IP	2b090b10	0600	IPv6 unicast routing entries was beyond 80 percent of capacity.		
	[Explanation None. [Action] Note that the	of message values usage of IPv6	riables]	entries (includir	of the capacity limit.  In NDP entries) exceeded 80% of the capacity limit.  Init.		
6	E4	IP	2b090b11	0600	IPv6 unicast routing entries exceeded capacity.		
	The number of IPv6 unicast routing entries has exceeded the capacity limit.  [Explanation of message variables]  None.  [Action]  The resources for the IPv6 unicast routing entries are used by the IPv6 unicast routing entries and NDP entries.  Use the show system command to make sure that the usage of IPv6 unicast routing entries has not reached the capacity limit of the switch.  If the capacity limit has been reached, review the system configuration.  If the number of entries is not reduced by taking the above actions, use the clear ipv6 route command to update all the routing information.						
7	E4	IP	2b090b20	0600	IPv4 multicast routing entries was beyond 80 percent of capacity.		
	The number of IPv4 multicast routing information entries exceeded 80% of the capacity limit of the Sw [Explanation of message variables]  None.  [Action]  If you want to increase the number of entries in the routing information in the future, make sure that the entries does not exceed the capacity limit.						
8	E4	IP	2b090b21	0600	IPv4 multicast routing entries exceeded capacity.		
	The number of IPv4 multicast routing information entries exceeds the capacity limit of the Switch.  [Explanation of message variables]  None.  [Action]  Using the show system command, make sure that the current number of IPv4 multicast routing information entries does not exceed the capacity limit.  If the capacity limit is exceeded, take one of the following actions:  1. Delete unnecessary information from the IPv4 multicast routing information.  2. Review the network system configuration, and change it to one in which the IPv4 multicast routing information can be reduced.						
9	E4	IP	2b090b30	0600	IPv6 multicast routing entries was beyond 80 percent of capacity.		
	The number of IPv6 multicast routing information entries exceeded 80% of the capacity limit of the Switch.  [Explanation of message variables]  None.  [Action]  If you want to increase the number of entries in the routing information in the future, make sure that the number of entries does not exceed the capacity limit.						

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text		
	Description						
10	E4	IP	2b090b31	0600	IPv6 multicast routing entries exceeded capacity.		

The number of IPv6 multicast routing information entries exceeds the capacity limit of the Switch.

[Explanation of message variables]

None.

[Action]

Using the show system command, make sure that the current number of IPv6 multicast routing information entries does not exceed the capacity limit.

If the capacity limit is exceeded, take one of the following actions:

- 1. Delete unnecessary information from the IPv6 multicast routing information.
- Review the network system configuration, and change it to one in which the IPv6 multicast routing information can be reduced.

11 E4 IP 50000003 0600 Duplication of IPv4 address < ipv4 address > with the node of MAC address < mac address > was detected.

The IPv4 address < ipv4 address > is being used by the device that has the MAC address < mac address >.

[Explanation of message variables]

<ipv4 address>: IPv4 address that is registered for the interface of the Switch

<mac address>: MAC address of the device for which the duplicate IPv4 address was detected

[Action]

- 1. Change either this IPv4 address or the IPv4 address of the device that has the MAC address < mac address>.
- 2. When using VRRP, this message might be output frequently when the CPU load is heavy. In that case, increase the value of timers advertise for the VRRP configuration between devices comprising the VRRP.

12 E4 IP 50000006 0600 Because the number of pieces of the ARP entry exceeds the capacity of this system, the old entry was deleted and the new entry was added.

An old entry was deleted and a new entry was added because the number of ARP table entries exceeded the capacity limit of the Switch.

[Explanation of message variables]

None.

[Action]

If this message is output frequently, take one of the following actions:

- 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.
- Review the network system configuration, and change it to one in which the number of ARP table entries can be reduced.

13	E4	IP	5000007	0600	Because the number of pieces of the ARP entry exceeds the capacity of < <i>vrf</i> >, the old entry was deleted and the new entry was added.
----	----	----	---------	------	----------------------------------------------------------------------------------------------------------------------------------------------

An old entry was deleted and a new entry was added because the number of ARP table entries in the <*vrf*> exceeded the upper limit for each VRF.

[Explanation of message variables]

<vrf>: VRF that exceeded the upper limit for ARP

- VRF <vrfid>: VRF whose VRF ID is <vrfid>
- global network: Global network

[Action]

If this message is output frequently, take one of the following actions:

- 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.
- Review the network system configuration, and change it to one in which the number of ARP table entries can be reduced.

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text			
		Description						
14	E4	IP	60000002	0600	Because the number of pieces of the NDP entry exceeds the capacity of this system, the old entry was deleted and the new entry was added.			

An old entry was deleted and a new entry was added because the number of NDP table entries exceeded the capacity limit of the Switch.

[Explanation of message variables]

None.

[Action]

If this message is output frequently, take one of the following actions:

- 1. Delete unnecessary information from the ndp configuration.
- 2. If unnecessary entries have been generated dynamically, delete them by executing the clear ipv6 neighbors command.
- 3. Review the network system configuration, and change it to one in which the number of NDP table entries can be reduced.

Address duplication detection processing detected IPv6 address duplication. The IPv6 address < ipv6 address> that is set in the Switch conflicts with the device whose MAC address is < mac address>. Therefore, < ipv6 address> in the Switch is unavailable. You cannot use an unavailable IPv6 address until you change or delete the setting, and then specify it again. To check the addresses that are unavailable because of address overlap, use the show ipv6 interface command.

[Explanation of message variables]

<ipv6 address>: IPv6 address of the Switch interface that has become unavailable because a duplicated address was detected

<mac address>: MAC address of a device for which a duplicated address was detected
[Action]

- 1. If <ipv6 address> set in the Switch is incorrect, change <ipv6 address> of the Switch.
- 2. If <ipv6 address> of the other device in which a duplicated address was detected is incorrect, correct <ipv6 address> of that device. Next, delete <ipv6 address> in the Switch and then set it again.
- 3. When using VRRP, this message might be output frequently when the CPU load is heavy. In that case, increase the value of timers advertise for the VRRP configuration between devices comprising the VRRP.

16	E4	IP	60000004	0600	Because the number of pieces of the NDP entry
					exceeds the capacity of < <i>vrf</i> >, the old entry was deleted and the new entry was added.

An old entry was deleted and a new entry was added because the number of NDP table entries in the <*vrf*> exceeded the upper limit for each VRF.

[Explanation of message variables]

<vrf>: VRF that exceeded the upper limit for NDP

- VRF <vrf id>: VRF whose VRF ID is <vrf id>
- global network: Global network

#### [Action]

- 1. If this message is output frequently, take one of the following actions:
- 2. Delete unnecessary information from the ndp configuration.
- 3. If unnecessary entries have been generated dynamically, delete them by executing the clear ipv6 neighbors command.
- 4. Review the network system configuration, and change it to one in which the number of NDP table entries can be reduced.

## 3.3.2 Event location = VLAN

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

Table 3-4: Switch failure and event information when the event location is VLAN

#	Event level	Event location	Message ID	Added info.	Message text		
				digits			
				Desc	ription		
1	E3	VLAN	20110002	0700	STP( <mode>): This bridge becomes the Root Bridge.</mode>		
	The Switch has become the root bridge.  [Explanation of message variables] <mode>: Spanning Tree type  • single: Single Spanning Tree  • PVST+: VLAN <vlan id="">: PVST+ Spanning Tree and VLAN ID  [Action]  None.</vlan></mode>						
2	Е3	VLAN	20110003	0700	STP(< <i>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 and VLAN ID  [Action]  None.</vlan></mode>						
3	Е3	VLAN	20110006	0700	STP( <mode>): Topology change detected - BPDU Timeout detected on the root port(<nif no.="">/<port no.="">).</port></nif></mode>		
	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 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>						
4	Е3	VLAN	20110007	0700	STP( <mode>): Topology change detected - Topology Change Notification BPDU received on the port(<nif no.="">/<port no.="">).</port></nif></mode>		
	A BPDU for topology change was received.  [Explanation of message variables] <mode>: Spanning Tree type  single: Single Spanning Tree  PVST+: VLAN &lt; vlan id&gt;: PVST+ Spanning Tree and VLAN ID  MST: Multiple Spanning Tree  <nif no.="">/<port no.="">: NIF number/port number  [Action]  Check the line status.</port></nif></mode>						

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text			
				Desc	ription			
5	E3	VLAN	20110011	0700	STP( <mode>): Spanning Tree Protocol enabled - BPDU received on the Port Fast(<nif no.="">/<port no.="">).</port></nif></mode>			
	A port has become subject to the Spanning Tree because the port was set with the PortFast function and receive a BPDU.  [Explanation of message variables] <mode>: Spanning Tree type  • single: Single Spanning Tree  • PVST+:VLAN &lt; vlan id&gt;: PVST+ Spanning Tree and VLAN ID  • MST: Multiple Spanning Tree  <nif no.="">/<port no.="">: NIF number/port number  [Action]  Check the line status.</port></nif></mode>							
6	Е3	VLAN	20110012	0700	STP ( <mode>): Topology change detected - BPDU Timeout detected on the root port(ChGr:<channel group="" number="">).</channel></mode>			
	[Explanation < mode>: Sp	<ul> <li>PVST+:VLAN &lt; vlan id&gt;: PVST+ Spanning Tree and VLAN ID</li> <li>CIST: Multiple Spanning Tree (CIST)</li> <li>MST Instance &lt; mst instance id&gt;: Multiple Spanning Tree (MSTI) and MST instance ID</li> <li>&lt; channel group number&gt;: Channel group number</li> <li>[Action]</li> </ul>						
7	E3	VLAN	20110013	0700	STP ( <mode>): Topology change detected - Topology Change Notification BPDU received on the port(ChGr:<channel group="" number="">).</channel></mode>			
	A BPDU for topology change was received.  [Explanation of message variables] <mode>: Spanning Tree type  • single: Single Spanning Tree  • PVST+:VLAN &lt; vlan id&gt;: PVST+ Spanning Tree and VLAN ID  • MST: Multiple Spanning Tree  <channel group="" number="">: Channel group number  [Action]  Check the line status.</channel></mode>							
8	E3	VLAN	20110014	0700	STP ( <mode>): Spanning Tree Protocol enabled - BPDU received on the Port Fast(ChGr:<channel group="" number="">).</channel></mode>			
	A port has become subject to the Spanning Tree 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 &lt; vlan id&gt;: PVST+ Spanning Tree and VLAN ID  • MST: Multiple Spanning Tree  <channel group="" number="">: Channel group number  [Action]  Check the line status.</channel></mode>							

#	Event level	Event location	Message ID	Added info.	Message text		
				digits			
		ı		Desc	ription		
9	E3	VLAN	20110022	0700	STP : Cleared MAC Address Table entry.		
		ress table entry a of message va		ecause a topolo	gy change BPDU was received.		
10	Е3	VLAN	20110023	0700	STP( <mode>): Topology change detected - BPDU Timeout detected on the alternate port(<nif no.="">/<port no.="">).</port></nif></mode>		
	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 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	Е3	VLAN	20110024	0700	STP( <mode>): Topology change detected - BPDU Timeout detected on the backup port(<nif no.="">/<port no.="">).</port></nif></mode>		
	A BPDU timeout was detected on the backup port.  [Explanation of message variables] <mode>: Spanning Tree type  • single: Single Spanning Tree  • PVST+: VLAN &lt; vlan id&gt;: PVST+ Spanning Tree and VLAN ID  • CIST: Multiple Spanning Tree (CIST)  • MST Instance &lt; mst instance id&gt;: Multiple Spanning Tree (MSTI) and MST instance ID  <nif no.="">/<port no.="">: NIF number/port number  [Action]  Check the line status.</port></nif></mode>						
12	Е3	VLAN	20110025	0700	STP ( <mode>): Topology change detected - BPDU Timeout detected on the alternate port(ChGr:<channel group="" number="">).</channel></mode>		
	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 and VLAN ID  • clst: 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.	Message text					
				Highest 4 digits						
				Desc	ription					
13	Е3	VLAN	20110026	0700	STP ( <mode>): Topology change detected - BPDU Timeout detected on the backup port(ChGr:<channel group="" number="">).</channel></mode>					
	[Explanation < mode>: Sp  • single:  • PVST+: V  • CIST: M  • MST Ins  < channel gra [Action]	A BPDU timeout was detected on the backup port.  [Explanation of message variables] <mode>: Spanning Tree type  • single: Single Spanning Tree  • PVST+:VLAN &lt; vlan id&gt;: PVST+ Spanning Tree 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></mode>								
14	E3	VLAN	20110027	0700	STP(MST): This bridge becomes the CIST Root Bridge.					
	The Switch has become the CIST root bridge. [Explanation of message variables] None. [Action] None.									
15	Е3	VLAN	20110028	0700	STP(CIST): This bridge becomes the CIST Regional Root Bridge.					
		nas become the	CIST regional ariables]	root bridge.						
16	E3	VLAN	20110029	0700	STP(MST Instance < mst instance id>): This bridge becomes the MSTI Regional Root Bridge.					
	The Switch has become the MSTI regional root bridge.  [Explanation of message variables] <mst id="" instance="">: MST instance ID  [Action]  None.</mst>									
17	E3	VLAN	20110031	0700	STP(CIST): This bridge becomes the CIST Regional Designated Bridge.					
	The Switch has become the CIST regional designated bridge.  [Explanation of message variables]  None.  [Action]  None.									

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text			
		1	l	ription				
18	E3	VLAN	20110032	0700	STP(MST Instance < mst instance id>): This bridge becomes the MSTI Regional Designated Bridge.			
	[Explanation	has become the n of message va ce id>: MST in		designated br	idge.			
19	Е3	VLAN	20110042	0700	STP ( <mode>): Topology change detected - BPDU Timeout detected on the root port(VLID:<li>link id&gt;).</li></mode>			
	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 and VLAN ID  • CIST: Multiple Spanning Tree (CIST)  • MST Instance <mst id="" instance="">: Multiple Spanning Tree (MSTI) and MST instance ID  <li><li><li>link id&gt;: Virtual link ID  [Action]  Check the line status.</li></li></li></mst></vlan></mode>							
20	E3	VLAN	20110043	0700	STP ( <mode>): Topology change detected - Topology Change Notification BPDU received on the port(VLID:<li>link id&gt;).</li></mode>			
21	Е3	VLAN	20110044	0700	STP ( <mode>): Topology change detected - BPDU Timeout detected on the alternate port(VLID:<li>link id&gt;).</li></mode>			
A BPDU timeout was detected on the alternate port.  [Explanation of message variables] <mode>: Spanning Tree type  • single: Single Spanning Tree  • PVST+: VLAN &lt; vlan id&gt;: PVST+ Spanning Tree and VLAN ID  • CIST: Multiple Spanning Tree (CIST)  • MST Instance <mst id="" instance="">: Multiple Spanning Tree (MSTI) and MST instance ID  <li>link id&gt;: Virtual link ID  [Action]  Check the line status.</li></mst></mode>								

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text					
		Description								
22	Е3	VLAN	20110045	0700	STP ( <mode>): Topology change detected - BPDU Timeout detected on the backup port(VLID:<li>link id&gt;).</li></mode>					
	A BPDU timeout was detected on the backup port.  [Explanation of message variables] <mode>: Spanning Tree type  • single: Single Spanning Tree  • PVST+: VLAN &lt; vlan id&gt;: PVST+ Spanning Tree and VLAN ID  • CIST: Multiple Spanning Tree (CIST)  • MST Instance <mst id="" instance="">: Multiple Spanning Tree (MSTI) and MST instance ID  <li>link id&gt;: Virtual link ID  [Action]  Check the line status.</li></mst></mode>									
23	Е3	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> .					
	[Explanation < port list>:	of message va Port range			equest frame was received.					
24	Е3	VLAN	21100001	0700	IGMP snooping: IGMP querier changed on VLAN < <i>vlan id&gt;</i> - lost IGMP querier address < <i>ipv4 address&gt;</i> .					
25	Е3	VLAN	21100002	0700	IGMP snooping: IGMP querier changed on VLAN < <i>vlan id&gt;</i> - new IGMP querier address < <i>ipv4 address&gt;</i> .					
	id>). [Explanation <vlan id="">: V</vlan>	of message va	riables]	ddress> becaus	te a new IGMP querier was identified on the VLAN ( <vlan< td=""></vlan<>					

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text				
				Desc	ription				
26	Е3	VLAN	21100003	0700	IGMP snooping: IPv4 address not defined on VLAN < vlan id>,IGMP querier function stopped.				
	[Explanation < vlan id>: V [Action]  1. Set an IF	n of message va VLAN ID Pv4 address for the show igmp	the appropriate	e VLAN.	cause the IPv4 address is not set.  ck that the IPv4 address set for the appropriate VLAN is				
27	Е3	VLAN	21100004	0700	IGMP snooping:The number of the IGMP snooping entry exceeded the capacity of this system.				
	None. [Action] Check wheth For details a manual Cony								
28	Е3	VLAN	21200001	0700	MLD snooping: MLD querier changed on VLAN < <i>vlan id&gt;</i> - lost MLD querier address < <i>ipv6 address&gt;</i> .				
	id> - lost MLD querier address <ipv6 address="">.  The MLD querier information was deleted because an advertisement (MLD Query) from the MLD querier at <ipv6 address=""> on VLAN <vlan id=""> disappeared. The IPv6 multicast data will not be properly relayed because the existence of the IPv6 multicast group listener (recipient host) cannot be confirmed.  [Explanation of message variables] <vlan id="">: VLAN ID <ipv6 address="">: IPv6 address [Action]  1. Check the connection with the MLD querier at <ipv6 address="">.  2. Check if the MLD querier change message (message ID is 21200002) was output.  3. If the connection with the MLD querier cannot be checked, execute the configuration command ipv6 mld snooping querier to enable the MLD querier function of the Switch.</ipv6></ipv6></vlan></vlan></ipv6></ipv6>								
29	Е3	VLAN	21200002	0700	MLD snooping: MLD querier changed on VLAN < <i>vlan id&gt;</i> - new MLD querier address < <i>ipv6 address&gt;</i> .				
	id>). [Explanation	The MLD querier was changed to <ipv6 address=""> because a new MLD querier was identified on the VLAN (<vlan< td=""></vlan<></ipv6>							

<ipv6 address>: IPv6 address

[Action] None.

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text			
		<u>I</u>		Desci	ription			
30	Е3	VLAN	21200003	0700	MLD snooping: IPv6 address not defined on VLAN < <i>vlan id&gt;</i> ,MLD querier function stopped.			
	[Explanation < vlan id>: V [Action]  1. Set the I	of message variable VLAN ID  Pv6 address for the show mld-	r the appropriate	e VLAN.	cause the IPv6 address was not set.			
31	Е3	VLAN	21200004	0700	MLD snooping:The number of the MLD snooping entry exceeded the capacity of this system.			
	None. [Action] Check wheth details about Configuration If the capacital content in the capacital	capacity limit on Guide Vol. 1 ty limit has bee	of learned entric , see <i>IGMP snot</i> <i>For Version 11</i> en reached, revi	oping/MLD sno .7. ew the system	snooping has reached the capacity limit of the switch. For poping for each model in 3. Capacity Limit in the manual configuration for ways to reduce the number of entries.			
32	E3	VLAN	25100016	0700	The memory of the nimd is a tendency of lack.			
	[Explanation None. [Action] Do not change	of message va	ariables]		manager program to be insufficient.  n until a message indicating recovery from the indicated			
33	Е3	VLAN	25100017	0700	The memory of the nimd recovered from a tendency of lack.			
		interface man		as recovered fr	om insufficient memory.			
34	Е3	VLAN	25100018	0700	Because of the memory of the nimd is a lack, the nimd may not operate normally.			
	The network interface manager program might not be operating normally because of insufficient memory.  [Explanation of message variables]  None.  [Action]  Execute the restart vlan command to restart the network interface manager program.							

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text				
		1	I	Desc	ription				
35	E3	VLAN	2510001b	0700	Sum of number of VLAN on ports exceeded capacity				
	[Explanation None. [Action] Execute any • Use the capacity • Change comman	of the following copy command limit, to the ruthe total numbed.	ng measures: d to apply a conning configura	ifiguration file ation file. a number with	with the total number of VLANs for each port within the nin the capacity limit, and execute the restart vlan nin the capacity limit, and restart the switch.				
36	E4	VLAN	20110008	0700	STP(< <i>mode</i> >): Port status becomes Forwarding on the port(< <i>nif no.</i> >/< <i>port no.</i> >).				
	<mode>: Sp • single: • PVST+: • CIST: M • MST Ins</mode>	Iultiple Spanni tance < <i>mst in</i>	pe ng Tree >: PVST+ Span ng Tree (CIST)	ıltiple Spannin	VLAN ID g Tree (MSTI) and MST instance ID				
37	E4	VLAN	20110009	0700	STP( <mode>): Port status becomes Blocking on the port(<nif no.="">/<port no.="">).</port></nif></mode>				
	[Explanation < mode>: Sp	Iultiple Spanni tance < <i>mst ir</i>	ariables] pe ng Tree >: PVST+ Span ng Tree (CIST)	ıltiple Spannin	VLAN ID g Tree (MSTI) and MST instance ID				
38	E4	VLAN	20110010	0700	STP( <mode>): Port status becomes Down-BPDU received on the BPDU GUARD port(<nif no.="">/<port no.="">).</port></nif></mode>				
	[Explanation < mode>: Sp • single: • PVST+:	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 &lt; vlan id&gt;: PVST+ Spanning Tree and VLAN ID  • MST: Multiple Spanning Tree  <nif no.="">/<port no.="">: NIF number/port number</port></nif></mode>							

Check the line status.

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text				
	Description								
39	E4	VLAN	20110015	0700	STP ( <mode>): Port status becomes Forwarding on the port(ChGr:<channel group="" number="">).</channel></mode>				
	A port changed to the forwarding status.  [Explanation of message variables] <mode>: Spanning Tree type  • single: Single Spanning Tree  • PVST+: VLAN &lt; vlan id&gt;: PVST+ Spanning Tree 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></mode>								
40	E4	VLAN	20110016	0700	STP ( <mode>): Port status becomes Blocking on the port(ChGr:<channel group="" number="">).</channel></mode>				
	VLAN ID g Tree (MSTI) and MST instance ID								
41	E4	VLAN	20110017	0700	STP ( <mode>): Port status becomes Down-BPDU received on the BPDU GUARD port(ChGr:<channel group="" number="">).</channel></mode>				
42	E4	VLAN	20110039	0700	STP : Exceeded the number of the maximum spanning tree.				
	[Explanation None. [Action]	n of message va	ariables]		e Spanning Tree. No more trees can be added.  Spanning Tree or a Multiple Spanning Tree.				

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text			
		l	1	Desc	ription			
43	E4	VLAN	20110040	0700	STP ( <mode>): Port status becomes Blocking - BPDU that priority is high was received on the ROOT GUARD port(<nif no.="">/<port no.="">).</port></nif></mode>			
	high-priority [Explanation <mode>: Sp • single: • PVST+: V • CIST: M • MST Ins <nif no.="">/<p [action]<="" td=""><td>BPDU.  n of message varianning Tree ty Single Spanni VLAN &lt; vlan id Jultiple Spanni tance &lt; mst in</td><td>nriables] pe ng Tree &gt;: PVST+ Span ng Tree (CIST) astance id&gt;: Mu number/port nu</td><td>ning Tree and</td><td>set with the route-guard function and received a  VLAN ID  g Tree (MSTI) and MST instance ID</td></p></nif></mode>	BPDU.  n of message varianning Tree ty Single Spanni VLAN < vlan id Jultiple Spanni tance < mst in	nriables] pe ng Tree >: PVST+ Span ng Tree (CIST) astance id>: Mu number/port nu	ning Tree and	set with the route-guard function and received a  VLAN ID  g Tree (MSTI) and MST instance ID			
44	E4	VLAN	20110041	0700	STP ( <mode>): Port status becomes Blocking - BPDU that priority is high was received on the ROOT GUARD port(ChGr:<channel group="" number="">).</channel></mode>			
	high-priority [Explanation <mode>: Sp • single: • PVST+: V • CIST: M • MST Ins <channel [action]<="" gra="" td=""><td>BPDU.  n of message valuating Tree ty Single Spanni VLAN &lt; vlan id Jultiple Spanni tance &lt; mst in</td><td>ariables] pe ng Tree &gt;: PVST+ Span ng Tree (CIST) astance id&gt;: Mu Channel group</td><td>ning Tree and</td><td>set with the route-guard function and received a  VLAN ID  g Tree (MSTI) and MST instance ID</td></channel></mode>	BPDU.  n of message valuating Tree ty Single Spanni VLAN < vlan id Jultiple Spanni tance < mst in	ariables] pe ng Tree >: PVST+ Span ng Tree (CIST) astance id>: Mu Channel group	ning Tree and	set with the route-guard function and received a  VLAN ID  g Tree (MSTI) and MST instance ID			
45	E4	VLAN	20110047	0700	STP ( <mode>): Port status becomes Forwarding on the port(VLID:<li>link id&gt;).</li></mode>			
	A port changed to the forwarding status.  [Explanation of message variables] <mode>: Spanning Tree type  • single: Single Spanning Tree  • PVST+: VLAN &lt; vlan id&gt;: PVST+ Spanning Tree and VLAN ID  • CIST: Multiple Spanning Tree (CIST)  • MST Instance <mst id="" instance="">: Multiple Spanning Tree (MSTI) and MST instance ID  <li><li>link id&gt;: Virtual link ID  [Action]</li></li></mst></mode>							

[Action]

None.

#	Event level	Event location	Message ID	Added info.	Message text				
	digits								
				Desc	ription				
46	E4	VLAN	20110048	0700	STP ( <mode>): Port status becomes Blocking on the port(VLID:<li>kid&gt;).</li></mode>				
	[Explanation < mode>: Sp	ultiple Spannii	riables] pe ng Tree >: PVST+ Span ng Tree (CIST)		VLAN ID g Tree (MSTI) and MST instance ID				
47	E4	VLAN	21100005	0700	The IGMP snooping entry can't be registered at hardware tables.				
	An IGMP snooping entry could not be registered in a MAC address table.  [Explanation of message variables]  None.  [Action]  Check whether the total usage of the MAC address table has reached the capacity limit of the switch. You can use show system command to check MAC address table usage.  If the capacity limit has been reached, see the description in MAC address table for each model in 3. Capacity Li in the manual Configuration Guide Vol. 1 For Version 11.7, and review the system configuration.								
48	E4	VLAN	21200005	0700	The MLD snooping entry can't be registered at hardware tables.				
	[Explanation None. [Action] Check wheth show syste If the capacit	of message valuer the total usa em command to ty limit has bee	ge of the MAC o check MAC as n reached, see t	address table h ddress table us the description	AC address table.  as reached the capacity limit of the switch. You can use the age. in MAC address table for each model in 3. Capacity Limit 7, and review the system configuration.				
49	E4	VLAN	25100001	0700	VLAN ( <vlan id="">) Status is Up.</vlan>				
	The VLAN status is UP.  [Explanation of message variables] <vlan id="">: VLAN ID  [Action]  None.</vlan>								
50	E4	VLAN	25100002	0700	VLAN ( <vlan id="">) Status is Down.</vlan>				
	[Explanation < vlan id>: V [Action]	The VLAN status is DOWN.  [Explanation of message variables] <vlan id="">: VLAN ID</vlan>							

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text	
					ription	
51	E4	VLAN	25100007	0700	Protocol based VLAN ( <vlan id="">) registration failed on the port(<nif no.="">/<port no.="">).</port></nif></vlan>	
	a protocol w [Explanation <vlan id="">: \ <nif no.="">/<i [action]<="" td=""><td>as already spec of message va /LAN ID</td><td>cified.  ariables]  number/port number/por</td><td>Ŷ</td><td>se a specification that duplicated another VLAN for which</td></i></nif></vlan>	as already spec of message va /LAN ID	cified.  ariables]  number/port number/por	Ŷ	se a specification that duplicated another VLAN for which	
52	E4	VLAN	25100012	0700	The number of learning MAC addresses exceeded the configured number on the port( <nif no.="">/<port no.="">).</port></nif>	
	[Explanation	of message va			e in the configuration.	
53	E4	VLAN	25100013	0700	The number of learning MAC addresses exceeded the configured number on the Channel Group (ChGr: <channel group="" number="">).</channel>	
	[Explanation	of message va			e in the configuration.	
54	E4	VLAN	25100014	0700	The number of learning MAC addresses exceeded the configured number on the VLAN(< <i>vlan id</i> >).	
		of message va		d the limit valu	e in the configuration.	
55	E4	VLAN	25100015	0700	MAC address table entries exceeded capacity.	
	The number of MAC address table entries exceeded the capacity limit of the switch.  [Explanation of message variables]  None.  [Action]  Check whether the total usage of the MAC address table has reached the capacity limit of the switch. You can use the show system command to check MAC address table usage.  If the capacity limit has been reached, see the description in MAC address table for each model in 3. Capacity Limit in the manual Configuration Guide Vol. 1 For Version 11.7, and review the system configuration.					

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text					
		Description								
56	E4	VLAN	25100019	0700	The vlan mapping entry can't be registered at VLAN classification table (VLAN < <i>vlan id</i> >, port(< <i>nif no.</i> >/ < <i>port no.</i> >)).					
	[Explanation	The tag translation entry could not be registered in the VLAN identification table.  [Explanation of message variables] <vlan id="">: VLAN ID</vlan>								
	[Action] Delete the ta and then regi	g translation er ister the tag tran	nslation entry ag	ot be registered ain. For details	I and unnecessary entries in the VLAN identification table, about the capacity limit for the VLAN identification table, <i>Vol. 1 For Version 11.7</i> .					
57	E4	VLAN	2510001a	0700	The protocol based VLAN can't be registered at VLAN classification table (VLAN < <i>vlan id</i> >, port(< <i>nif no.</i> >/ < <i>port no.</i> >)).					
	[Explanation < vlan id>: V < nif no.>/<] [Action] Delete the putable, and the	The protocol VLAN entry could not be registered in the VLAN identification table during configuration of the protocol VLAN on the protocol port.  [Explanation of message variables] <ul> <li>vlan id&gt;: VLAN ID</li> <li>nif no.&gt;/<port no.="">: NIF number/port number</port></li> </ul> [Action]  Delete the protocol VLAN entry that could not be registered and unnecessary entries in the VLAN identification table, and then register the protocol VLAN entry again. For details about the capacity limit for the VLAN identification table, see 3. Capacity Limit in the manual Configuration Guide Vol. 1 For Version 11.7.								
58	E4	VLAN	2510001b	0700	Sum of number of VLAN on ports exceeded capacity.					
	The total number of VLANs for each port exceeded the capacity limit of the switch.  [Explanation of message variables]  None.  [Action]  Execute any of the following measures:  1. Use the copy command to apply a configuration file with the total number of VLANs for each port within the capacity limit, to the running-config file.  2. Change the total number of VLANs to a number within the capacity limit, and execute the restart vlan command.  3. Change the total number of VLANs to a number within the capacity limit, and restart the switch.									
59	E4	VLAN	2510001c	0700	MAC address table entries was beyond 80 percent of capacity.					
	The number of MAC address table entries exceeded 80% of the capacity limit of the switch.  [Explanation of message variables]  None.  [Action]  Note that the usage of MAC address table entries exceeded 80% of the capacity limit. Use the entries in a way that does not exceed the capacity limit.									

					T				
#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text				
				Desc	ription				
60	E4	VLAN	2510001e	0700	VLAN classification table entries was beyond 80 percent of capacity.				
	[Explanation None. [Action] Make sure the sure that sure the sure the sure that sure the sure	n of message van nat the number it for the VLAN	ariables] of VLAN ident	ification table	ed 80% of the capacity limit of the switch.  entries is within the capacity limit. For details about the apacity Limit in the manual Configuration Guide Vol. 1 For				
61	E4	VLAN	2510001f	0700	The static MAC address entry can't be registered at MAC address table. (VLAN < <i>vlan id</i> >, mac < <i>mac</i> >)				
	[Explanation < vlan id>: V < mac>: MA [Action] Check whether show systems of the capacity of t	The static MAC address could not be registered in the MAC address table.  [Explanation of message variables] <vlan id="">: VLAN ID  <mac>: MAC address  [Action]  Check whether the total usage of the MAC address table has reached the capacity limit of the switch. You can use the show system command to check MAC address table usage.  If the capacity limit has been reached, see the description in MAC address table for each model in 3. Capacity Limit in the manual Configuration Guide Vol. 1 For Version 11.7, and review the system configuration.</mac></vlan>							
62	E4	VLAN	25100020	0700	The no MAC address table learning entry can't be registered at MAC address table. (VLAN < <i>vlan id</i> >)				
	The entry required for the MAC address learning suppression function could not be registered in the MAC address table.  [Explanation of message variables] <ul> <li>vlan id&gt;: VLAN ID</li> <li>[Action]</li> <li>Check whether the total usage of the MAC address table has reached the capacity limit of the switch. You can use the show system command to check MAC address table usage.</li> <li>If the capacity limit has been reached, see the description in MAC address table for each model in 3. Capacity Limit in the manual Configuration Guide Vol. 1 For Version 11.7, and review the system configuration.</li> </ul>								
63	E4	VLAN	25100021	0700	The vlan-protocol <i><protocol name=""></protocol></i> registration failed on the VLAN <i><vlan id=""></vlan></i> .				
	The setting of a protocol for the protocol VLAN failed. You attempted to use a specification that duplicated a protocol already set for the port.  [Explanation of message variables] <pre> <pre></pre></pre>								

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text	
				Desc	ription	
64	E4	VLAN	25100022	0700	Protocol <i><frame type=""/></i> registration failed on the vlan-protocol <i><protocol name=""></protocol></i> .	
	duplicated a [Explanation <frame <hex="" <pre="" ethertype="" llc="" snap-ethe="" types="" •=""/> protocol na [Action]	protocol alread of message va >: Frame type e < hex>: Ether >: LLC value (	ly set for the pouriables] of the protocol Type value of E DSAP, SSAP) of EtherType value I name	rt. that you are att Ethernet V2-for of 802.3-forma	t frame	
65	E4	VLAN	25100023	0700	The vlan mapping entry can't be registered at VLAN classification table (VLAN < <i>vlan id</i> >, Channel Group < <i>channel group number</i> >).	
	The tag translation entry could not be registered in the VLAN identification table.  [Explanation of message variables] <vlan id="">: VLAN ID  <channel group="" number="">: Channel group number  [Action]  Delete the tag translation entry that could not be registered and unnecessary entries in the VLAN identification and then register the tag translation entry again. For details about the capacity limit for the VLAN identification in the VLAN identification of the VLAN identification</channel></vlan>					
66	E4	VLAN	25100024	0700	The protocol based VLAN entry can't be registered at VLAN classification table (VLAN < <i>vlan id</i> >, Channel Group< <i>channel group number</i> >).	
	The protocol VLAN entry could not be registered in the VLAN identification table during configuration of the protocol VLAN on the protocol port for link aggregation.  [Explanation of message variables] <vlan id="">: VLAN ID  <channel group="" number="">: Channel group number  [Action]  Delete the protocol VLAN entry that could not be registered and unnecessary entries in the VLAN identification table, and then register the protocol VLAN entry again. For details about the capacity limit for the VLAN identification table, see 3. Capacity Limit in the manual Configuration Guide Vol. 1 For Version 11.7.</channel></vlan>					
67	E4	VLAN	25100025	0700	The protocol based VLAN entry can't be registered at VLAN classification table (protocol < frame type>,VLAN < vlan id>).	
	the protocol  [Explanation <frame <hex="" ethertype="" llc="" type="" •=""/> • snap-ethe <vlan id="">: V  [Action]  Delete the pr  table, and the</vlan>	VLAN. of message va >: Frame type e < hex>: Ether >: LLC value ( ertype < hex>: /LAN ID otocol VLAN en register the	nriables] of the protocol Type value of E DSAP, SSAP) o EtherType valu entry that could protocol VLAN	that you are attement V2-for of 802.3-formate of 802.3-fo	t frame	

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text	
	Description					
68	E4	VLAN	25100026	0700	The protocol based VLAN entry can't be registered at VLAN classification table (protocol <i><frame type=""/></i> ,Vlan-Protocol <i><pre>/protocol name&gt;</pre></i> ).	

The protocol VLAN entry could not be registered in the VLAN identification table when the protocol value was added to the protocol for the protocol VLAN.

[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

col name: Protocol name

Action

Delete the protocol VLAN entry that could not be registered and unnecessary entries in the VLAN identification table, and then register the protocol VLAN entry again. For details about the capacity limit for the VLAN identification table, see 3. Capacity Limit in the manual Configuration Guide Vol. 1 For Version 11.7.

# 3.3.3 Event location = VLAN (Ring Protocol)

The following table describes switch failure and event information when the event location is VLAN (Ring Protocol).

*Table 3-5*: Switch failure and event information when the event location is VLAN (Ring Protocol)

#	Event level	Event location	Message ID	Added info.	Message text		
				digits	ription		
		+	+	Desci	iption		
1	E3	VLAN	20170001	0700	AXRP < ring id>: activated state monitoring.		
Monitoring of the Ring Protocol state started. The switch outputs this message when Ring Protocol initialization is complete and you set the operation mode of the Ring Protocol configuration to the [Explanation of message variables] <pre> <ri>ring id&gt;: Ring ID [Action] None.</ri></pre>							
2	Е3	VLAN	20170002	0700	AXRP < ring id>: 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 when it receives a health-check frame at the master node and detects a recovery from a failure.  [Explanation of message variables] <ri>ring id&gt;: Ring ID [Action] None.</ri>						

#	Event level	Event location	Message ID	Added info.	Message text
				Highest 4 digits	
				Desci	ription
3	ЕЗ	VLAN	20170003	0700	AXRP < ring id>: cleared MAC address table by receiving flush request frames.
	only the MA cleared.	C address table of message va	e for the data tra		s table was cleared. The switch outputs this message when group in a ring whose output destination is a ring port was
4	E3	VLAN	20170005	0700	AXRP < ring id>: cleared MAC address table by timeout of forwarding-shift-timer.
	forwarding-s	hift-time timed of message va	out was detected		ift-time timeout. The switch outputs this message when a node and the MAC address table was cleared.
5	Е3	VLAN	20170014	0700	AXRP(virtual-link < link id>): cleared MAC address table by receiving flush frames.
	switch outpu	ts this message of message va	when the MAC		bcol, and MAC address table entries were cleared. The entries learned on all ring ports were cleared.
6	E3	VLAN	20170016	0700	AXRP < ring id>: detected fault recovery by receiving health check frames, but suspended the fault recovery process.
	switch-back. [Explanation <ring id="">: R [Action] Either wait for</ring>	The switch ou of message vaing ID or the suppressi	tputs this messa riables] on-time timeou	nge when it det	very from a failure, but a setting suppresses a path ects a recovery from a failure at the master node.  The preempt-delay configuration command, or manually lear axrp preempt-delay command.
7	Е3	VLAN	20170017	0700	AXRP < ring id>: canceled the suspension of the fault recovery process.
	path switch-b	oack suppression of message va	on state is remo		on was executed. The switch outputs this message when the h suppression at the master node.

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text
				Desc	ription
8	E4	VLAN	20170004	0700	AXRP < ring id>: detected fault by health check timeout.
	health-check [Explanation < <i>ring id</i> >: R [Action]	timeout at the of message valing ID	master node. ariables]		The switch outputs this message when it detects a esponding ring. Check the link and the node states.
9	E4	VLAN	20170006	0700	AXRP < ring id>: The MAC address entry can't be registered at hardware tables.
	The MAC ac	dress used for	the Ring Protoc	col could not b	e registered in the MAC address table.

[Explanation of message variables]

<ring id>: Ring ID

[Action]

- 1. Make sure that the VLAN used for the control VLAN has been configured. If the VLAN has not been configured, configure it. After the VLAN has been configured, disable the Ring Protocol, and then enable it again by using the no disable command.
- 2. Check whether the total usage of the MAC address table has reached the capacity limit of the switch. You can use the show system command to check MAC address table usage. If the capacity limit has been reached, see the description in MAC address table for each model in 3. Capacity Limit in the manual Configuration Guide Vol. 1 For Version 11.7, and review the system configuration.

# 3.3.4 Event location = VLAN (GSRP)

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

Table 3-6: Switch failure and event information when the event location is VLAN (GSRP)

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text
				Desc	ription
1	Е3	VLAN	20130002	0700	GSRP < <i>gsrp group id</i> > VLAN group < <i>vlan group id</i> > : state transitioned to Backup.
	completed, E the GSRP is [Explanation <gsrp group<="" th=""><th>ackup-lock</th><th>in the GSRP constate and has no ariables]  roup ID</th><th>nfiguration is d</th><th>tts this message when GSRP initialization has been eleted, or the restart vlan command is executed while partner switch.</th></gsrp>	ackup-lock	in the GSRP constate and has no ariables]  roup ID	nfiguration is d	tts this message when GSRP initialization has been eleted, or the restart vlan command is executed while partner switch.

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text				
		Description							
2	Е3	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.				
	[Explanation < gsrp group	ate transitione of message va id>: GSRP gr id>: VLAN gr	riables] oup ID	ause the switch	n has more active ports than the neighboring GSRP switch.				
3	Е3	VLAN	20130004	0700	GSRP < <i>gsrp group id</i> > VLAN group < <i>vlan group id</i> > : state transitioned to Master, because the priority was higher than neighbor's.				
	switch. [Explanation <gsrp group<="" td=""><td>of message vaid&gt;: GSRP grid&gt;: VLAN gr</td><td>ariables] oup ID</td><td>nuse the priority</td><td>y of the switch is higher than that of the neighboring GSRP</td></gsrp>	of message vaid>: GSRP grid>: VLAN gr	ariables] oup ID	nuse the priority	y of the switch is higher than that of the neighboring GSRP				
4	E3	VLAN	20130005	0700	GSRP < gsrp group id > VLAN group < vlan group id > : 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 the neighbor GSRP switch.  [Explanation of message variables] <pre> <gsrp group="" id="">: GSRP group ID </gsrp></pre> <pre> <vlan group="" id="">: VLAN group ID [Action] None.</vlan></pre>								
5	E3	VLAN	20130008	0700	GSRP < gsrp group id> VLAN group < vlan group id> : 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 neighb GSRP switch.  [Explanation of message variables] <pre></pre>								
6	E3	VLAN	20130009	0700	GSRP < gsrp group id > VLAN group < vlan group id > : state transitioned from Master to Backup, because the priority was lower than neighbor's.				
	neighboring [Explanation <gsrp group<="" td=""><td colspan="6">The GSRP state transitioned from Master to Backup because the priority of the switch is lower than that of the neighboring GSRP switch.  [Explanation of message variables]  <gsrp group="" id="">: GSRP group ID  <vlan group="" id="">: VLAN group ID  [Action]</vlan></gsrp></td></gsrp>	The GSRP state transitioned from Master to Backup because the priority of the switch is lower than that of the neighboring GSRP switch.  [Explanation of message variables] <gsrp group="" id="">: GSRP group ID  <vlan group="" id="">: VLAN group ID  [Action]</vlan></gsrp>							

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text				
		Description							
7	Е3	VLAN	20130010	0700	GSRP < gsrp group id > VLAN group < vlan group id > : state transitioned from Master to Backup, because the MAC address was smaller than neighbor's.				
	the neighbor [Explanation <gsrp group<="" td=""><td>tate transitione ring GSRP swith a of message value id&gt;: GSRP gr aid&gt;: VLAN g</td><td>tch. ariables] oup ID</td><td>to Backup beca</td><td>nuse the MAC address of the switch is smaller than that of</td></gsrp>	tate transitione ring GSRP swith a of message value id>: GSRP gr aid>: VLAN g	tch. ariables] oup ID	to Backup beca	nuse the MAC address of the switch is smaller than that of				
8	Е3	VLAN	20130013	0700	GSRP < gsrp group id > VLAN group < vlan group id > : advertise timeout detected on Master.				
	The timeout period for receiving GSRP Advertise frames was detected. The switch outputs this message only when the GSRP state is Master.  [Explanation of message variables] <pre> <gsrp group="" id="">: GSRP group ID  <vlan group="" id="">: VLAN group ID  [Action]  Make sure that the direct link port is correctly installed and is operating normally. Also check the current GSRP state in the configuration, and by using the operation command.</vlan></gsrp></pre>								
9	Е3	VLAN	20130015	0700	GSRP aware: MAC Address Table entry cleared, because GSRP flush request received on port <pre>port list&gt;</pre> , GSRP <pre>gsrp group id&gt; VLAN group <vlan group="" id=""> Source MAC address <mac address="">.</mac></vlan></pre>				
	[Explanation <port list="">: <psrp <vlan="" group="" group<="" td=""><td>of message va</td><td>ariables] oup ID roup ID</td><td>ceived, and the</td><td>MAC address table was cleared.</td></psrp></port>	of message va	ariables] oup ID roup ID	ceived, and the	MAC address table was cleared.				
10	Е3	VLAN	20130017	0700	GSRP < gsrp group id> VLAN group < vlan group id> VLAN id < vlan id> : removed from vlan-group, because configuration is a disagreement, Ring protocol and GSRP.				
	While using the Ring Protocol there was a configuration mismatch between the Ring Protocol and GSRP, so the corresponding VLAN is no longer part of the vlan-group.  [Explanation of message variables] <pre> <gre> <gre> <gre> <ul> <li>gsrp group id&gt;: GSRP group ID</li> <li>vlan group id&gt;: VLAN group ID</li> <li>vlan id&gt;: VLAN ID</li> </ul>  [Action]  Change the configuration so that the contents of Ring Protocol vlan-mapping and GSRP vlan-group match.</gre></gre></gre></pre>								

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text		
	ription						
11	E4	VLAN	20130006	0700	GSRP < gsrp group id > VLAN group < vlan group id > : state transitioned to Master, because "set gsrp master" command was executed.		
	[Explanation < gsrp group	tate transitione of message va id>: GSRP gr id>: VLAN gr	riables] oup ID	ause the set o	gsrp master command was executed.		
12	E4	VLAN	20130007	0700	GSRP < gsrp group id> VLAN group < vlan group id> : state transitioned to Master, because the direct link failure was detected.		
	when the dis GSRP state t unknown) sta [Explanation <gsrp group<="" td=""><td>rect-down pa ransitioned to</td><td>rameter is set ir Master because ariables] oup ID</td><td>the GSRP con</td><td>nk failure was detected. The switch outputs this message infiguration command no-neighbor-to-master, and own status was detected while in the Backup (neighbor</td></gsrp>	rect-down pa ransitioned to	rameter is set ir Master because ariables] oup ID	the GSRP con	nk failure was detected. The switch outputs this message infiguration command no-neighbor-to-master, and own status was detected while in the Backup (neighbor		
13	E4	VLAN	20130011	0700	GSRP < gsrp group id > VLAN group < vlan group id > : state transitioned to Backup(No Neighbor).		
	[Explanation < gsrp group < vlan group [Action] Make sure th	<ul><li>of message va</li><li>id&gt;: GSRP gr</li><li>id&gt;: VLAN gr</li><li>at the direct lin</li></ul>	oup ID roup ID	tly installed and	d is operating normally. Also check the current GSRP state		
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] <pre></pre>						
15	E4	VLAN	20130014	0700	GSRP < gsrp group id > VLAN group < vlan group id > : advertise timeout detected on Backup(Lock).		

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text	
				Desc	ription	
16	E4	VLAN	20130016	0700	GSRP < gsrp group id> VLAN group < vlan group id> : state transitioned from Master to Backup, because the double Master detected.	
	The GSRP state of the switch and neighboring device transitioned to Backup because the GSRP state of the sw and neighboring device are both Master.  [Explanation of message variables] <pre> </pre> <pre> <pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>					
17	E4	VLAN	20130018	0700	GSRP < gsrp group id> VLAN group < vlan group id> : state transitioned to Master, because forced shift time was expired.	
	[Explanation <gsrp group<="" td=""><td>ate transitione of message va id&gt;: GSRP gr id&gt;: VLAN gr</td><td>ariables] oup ID</td><td>to expiration o</td><td>of the time set for the automatic master transition wait time.</td></gsrp>	ate transitione of message va id>: GSRP gr id>: VLAN gr	ariables] oup ID	to expiration o	of the time set for the automatic master transition wait time.	

## 3.3.5 Event location = VLAN (L2 loop detection)

The following table describes switch failure and event information when the event location is VLAN (L2 loop detection).

*Table 3-7:* Switch 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
				Desci	ription
1	E4	VLAN	20800001	0700	L2LD : Port( <nif no.="">/<port no.="">) inactivated because of loop detection from port(<nif no.="">/<port no.="">).</port></nif></port></nif>
	[Explanation < nif no. > / < p [Action]	of message va	number/port nu		
2	E4	VLAN	20800002	0700	L2LD : Port( <nif no.="">/<port no.="">) inactivated because of loop detection from ChGr(<channel group="" number="">).</channel></port></nif>
	[Explanation < nif no. > / < p < channel group [Action]	of message va port no.>: NIF	number/port nu Channel group	ımber	

#	Event level	Event location	Message ID	Added info.	Message text				
				digits					
				Desc	ription				
3	E4	VLAN	20800003	0700	L2LD : ChGr(< <i>channel group number</i> >) inactivated because of loop detection from port(< <i>nif no.</i> >/< <i>port no.</i> >).				
	[Explanation < channel grades of no. > / < [Action]	of message va oup number>:	Channel group number/port nu	number					
4	E4	VLAN	20800004	0700	L2LD : ChGr( <channel group="" number="">) inactivated because of loop detection from ChGr(<channel group="" number="">).</channel></channel>				
	[Explanation < channel grant [Action]	of message va	Channel group						
5	E4	VLAN	20800005	0700	L2LD : Port( <nif no.="">/<port no.="">) loop detection from port(<nif no.="">/<port no.="">).</port></nif></port></nif>				
	[Explanation < nif no. >/< p [Action]	re was detected of message va port no.>: NIF	nriables] number/port nu	umber					
6	E4	VLAN	20800006	0700	L2LD : Port( <nif no.="">/<port no.="">) loop detection from ChGr(<channel group="" number="">).</channel></port></nif>				
	[Explanation   <nif no.=""> / <pre></pre> <pre><channel gradient<="" pre=""> [Action]</channel></pre></nif>		nriables] number/port nu Channel group						
7	E4	VLAN	20800007	0700	L2LD : ChGr(< <i>channel group number</i> >) loop detection from port(< <i>nif no.</i> >/< <i>port no.</i> >).				
	[Explanation < channel grace < nif no. > / < [Action]	A loop failure was detected.  [Explanation of message variables] <channel group="" number="">: Channel group number  <nif no.="">/<port no.="">: NIF number/port number  [Action]  Check the network configuration.</port></nif></channel>							
8	E4	VLAN	20800008	0700	L2LD : ChGr( <channel group="" number="">) loop detection from ChGr(<channel group="" number="">).</channel></channel>				
	[Explanation < channel grant [Action]	A loop failure was detected.  [Explanation of message variables] <channel group="" number="">: Channel group number</channel>							

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text			
				Desci	ription			
9	E4	VLAN	20800009	0700	L2LD: Port( <nif no.="">/<port no.="">) activate by automatic restoration of the L2loop detection function.</port></nif>			
	[Explanation	of message va			covery of the L2 loop detection function.			
10	E4	VLAN	20800010	0700	L2LD : ChGr( <channel group="" number="">) activate by automatic restoration of the L2loop detection function.</channel>			
	[Explanation	of message va			covery of the L2 loop detection function.			
11	E4	VLAN	20800011	0700	L2LD: L2loop detection frame cannot be sent in the port where capacity was exceeded.			
	limit cannot a [Explanation None. [Action]	The number of ports that can send L2 loop detection frames exceeds the capacity limit. Ports exceeding the capacity limit cannot send L2 loop detection frames.  [Explanation of message variables]  None.						

# 3.3.6 Event location = VLAN (CFM)

The following table describes switch failure and event information when the event location is VLAN (CFM).

Table 3-8: Switch 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
1	E4	VLAN	20900003	0700	MD Level < level> MA < no.>: detected on fault of OtherCCM in MEP < mepid>.
	[Explanation < level>: Doi < no.>: MA i < mepid>: M [Action] A partner sw	of message variation level identification rate ID	number ognized as the sa	ame MA.	MA name match the partner switches.

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text				
				Desc	ription				
2	E4	VLAN	20900004	0700	MD Level < level> MA < no.>: detected on fault of ErrorCCM in MEP < mepid>.				
	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>) mathat of the partner switch.</interval></mepid></no.></level>								
3	E4	VLAN	20900005	0700	MD Level < level> MA < no.>: detected on fault of Timeout in MEP < mepid>.				
	[Explanation < level>: Do < no.>: MA < mepid>: N [Action] The switch i	The relevant MEP detected a fault (Timeout).  [Explanation of message variables] <li>level&gt;: Domain level  <no.>: MA identification number  <mepid>: MEP ID  [Action]  The switch is not receiving CCM from partner switches.  Check the network status.</mepid></no.></li>							
4	E4	VLAN	20900006	0700	MD Level < level> MA < no.>: detected on fault of PortState in MEP < mepid>.				
	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>								
5	E4	VLAN	20900007	0700	MD Level < level > MA < no. >: detected on fault of RDI in MEP < mepid > .				
	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>								

### 3.3.7 Event location = MAC

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

Table 3-9: Switch 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</i> >) disabled administratively.			
	[Explanation	of message va	nated as disable ariables] Channel group		guration.			
2	Е3	MAC	20120006	0800	Channel Group(< <i>channel group number</i> >) enabled administratively.			
	[Explanation	of message va		_	the configuration.			
3	Е3	MAC	20120007	0800	Port( <nif no.="">/<port no.="">) detached from Channel Group(<channel group="" number="">) - Different Partner System ID is detected.</channel></port></nif>			
	ports for LAI [Explanation <nif no.="">/<p 1.="" <channel="" [action]="" check="" con<="" fo="" gre="" is="" td="" the=""><td>CP mode link of message value or no.&gt;: NIF oup number&gt;: llowing:</td><td>aggregation.</td><td>umber number ch correct?</td><td>e system ID of a partner switch does not match between the</td></p></nif>	CP mode link of message value or no.>: NIF oup number>: llowing:	aggregation.	umber number ch correct?	e system ID of a partner switch does not match between the			
4	Е3	MAC	20120008	0800	Port( <nif no.="">/<port no.="">) detached from Channel Group(<channel group="" number="">) - Different Partner Key is detected.</channel></port></nif>			
	The port was detached from the channel group because the key of a partner switch does not match between the ports for LACP mode link aggregation.  [Explanation of message variables] <nif no.="">/<port no.="">: 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>							
5	E3	MAC	20120009	0800	Port( <nif no.="">/<port no.="">) removed from Channel Group(<channel group="" number="">).</channel></port></nif>			
	A port was detached from the channel group because of a configuration link deletion.  [Explanation of message variables] <nif no.="">/<port no.="">: NIF number/port number  <channel group="" number="">: Channel group number  [Action]  None.</channel></port></nif>							

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text		
	Description						
6	Е3	MAC	20120010	0800	Port( <nif no.="">/<port no.="">) detached from Channel Group(<channel group="" number="">) - Port down.</channel></port></nif>		
	[Explanation < nif no. >/<µ	of message va port no.>: NIF oup number>:	t was detached uriables] number/port nu Channel group	ımber	nel group.		
7	Е3	MAC	20120011	0800	Port( <nif no.="">/<port no.="">) detached from Channel Group(<channel group="" number="">) - Different Port data rate.</channel></port></nif>		
	detached from [Explanation   <nif no.="">/&lt;µ <channel [action]<="" group="" td=""><td>m the channel of message value of message value ort no.&gt;: NIF oup number&gt;:</td><td>group. nriables] number/port nu Channel group</td><td>umber number</td><td>rates (speeds), and those that have low data rates have been partner switches.</td></channel></nif>	m the channel of message value of message value ort no.>: NIF oup number>:	group. nriables] number/port nu Channel group	umber number	rates (speeds), and those that have low data rates have been partner switches.		
8	E3	MAC	20120012	0800	Port( <nif no.="">/<port no.="">) detached from Channel Group(<channel group="" number="">) - Half-duplex port.</channel></port></nif>		
	[Explanation < nif no. > / < pre>< channel gradients [Action]	of message va port no.>: NIF oup number>:	nriables] number/port nu Channel group	ımber number	the channel group.		
9	E3	MAC	20120013	0800	Port( <nif no.="">/<port no.="">) detached from Channel Group(<channel group="" number="">) - Denied by the LACP partner.</channel></port></nif>		
	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] <nif no.="">/<port no.="">: NIF number/port number  <channel group="" number="">: Channel group number  [Action]  Check the partner switch status.</channel></port></nif>						
10	E3	MAC	20120014	0800	Port( <nif no.="">/<port no.="">) detached from Channel Group(<channel group="" number="">) - LACPDU timeout.</channel></port></nif>		
	port was deta [Explanation <nif no.="">/&lt;µ <channel gra<br="">[Action]</channel></nif>	ached from the of message vaport no.>: NIF oup number>:	channel group.	umber number	an LACPDU from the partner switch and timed out, so the		

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text					
					 ription					
11	E3	MAC	20120015	0800	Port( <nif no.="">/<port no.="">) detached from Channel Group(<channel group="" number="">) - Configuration is changed.</channel></port></nif>					
	[Explanation < nif no. >/< p	n of message va port no.>: NIF	•	ımber	a configuration change.					
12	Е3	MAC	20120016	0800	Port( <nif no.="">/<port no.="">) detached from Channel Group(<channel group="" number="">) - Port moved is detected.</channel></port></nif>					
	[Explanation < nif no. >/< p	n of message va port no.>: NIF	•	ımber	port was moved in the channel group.					
13	Е3	MAC	20120017	0800	Port( <nif no.="">/<port no.="">) detached from Channel Group(<channel group="" number="">) - Partner Aggregation bit is FALSE.</channel></port></nif>					
	was false. [Explanation < nif no. > / < p	n of message va port no.>: NIF	_	umber	ne aggregation bit of the partner switch in the LACP mode					
14	E3	MAC	20120018	0800	Port( <nif no.="">/<port no.="">) detached from Channel Group(<channel group="" number="">) - Partner Port number is changed.</channel></port></nif>					
	[Explanation < nif no. >/<									
15	Е3	MAC	20120019	0800	Port( <nif no.="">/<port no.="">) detached from Channel Group(<channel group="" number="">) - Partner Port priority is changed.</channel></port></nif>					
	The port was detached from the channel group because the port priority value of the partner switch was changed.  [Explanation of message variables] <nif no.="">/<port no.="">: NIF number/port number  <channel group="" number="">: Channel group number  [Action]  None.</channel></port></nif>									

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text			
					 ription			
16	E3	MAC	20120020	0800	Port( <nif no.="">/<port no.="">) detached from Channel Group(<channel group="" number="">) - Operation of detach port limit.</channel></port></nif>			
	[Explanation < nif no. >/< p	of message va port no.>: NIF		umber	a detach port limit.			
17	Е3	MAC	20120021	0800	Port( <nif no.="">/<port no.="">) added to Channel Group(<channel group="" number="">).</channel></port></nif>			
	[Explanation < nif no. >/<							
18	Е3	MAC	20120022	0800	Port( <nif no.="">/<port no.="">) attached to Channel Group(<channel group="" number="">).</channel></port></nif>			
	A port was aggregated to the channel group.  [Explanation of message variables] <nif no.="">/<port no.="">: NIF number/port number  <channel group="" number="">: Channel group number  [Action]  None.</channel></port></nif>							
19	E3	MAC	20120023	0800	Port( <nif no.="">/<port no.="">) attached to Channel Group(<channel group="" number="">) - A standby port became active.</channel></port></nif>			
	Operation by a standby link has started.  [Explanation of message variables] <nif no.="">/<port no.="">: NIF number/port number  <channel group="" number="">: Channel group number  [Action]  None.</channel></port></nif>							
20	E3	MAC	20120024	0800	Port( <nif no.="">/<port no.="">) detached from Channel Group(<channel group="" number="">) - This port became a standby port.</channel></port></nif>			
	Operation by a standby link has stopped.  [Explanation of message variables] <nif no.="">/<port no.="">: NIF number/port number  <channel group="" number="">: Channel group number  [Action] None.</channel></port></nif>							

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text		
					ription		
21	E4	MAC	20120002	0800	Channel Group(< <i>channel group number</i> >) is Up.		
	The channel group status is Up.  [Explanation of message variables] <channel group="" number="">: Channel group number  [Action]  None.</channel>						
22	E4	MAC	20120003	0800	Channel Group(< <i>channel group number</i> >) is Down - All port detached.		
	All ports in the channel group have been detached, 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.						
23	E4	MAC	20120004	0800	Channel Group(< <i>channel group number</i> >) is Down - The number of the detached port exceeded the configured number.		

# 3.4 Switch parts

#### 3.4.1 Event location = SOFTWARE

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

Table 3-10: Switch failure and event information when the event location is SOFTWARE

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text	
			1	Description		
1	E3	SOFTWARE	00003001	1000	System restarted due to abort reset operation.	
		s restarted because of message variable		h was pressed.		
2	E3	SOFTWARE	00003002	1000	System restarted due to default reset operation.	
		s restarted because of message variable		h was pressed.		
3	Е3	SOFTWARE	00003003	1000	System restarted due to fatal error detected by software.	
	[Explanation of None. [Action] Check the log l	detected a fatal error of message variable by executing the sa	es]		r problem is indicated in the log, take appropriate	
4	E3	SOFTWARE	00003004	1000	System restarted due to user operation.	
		s restarted because of message variable		mand was execu	uted.	
5	E3	SOFTWARE	00003005	1000	System restarted due to fatal error detected by kernel.	
	The kernel 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	Firent	Frent	Manager	Added	Manager tout		
#	Event level	Event location	Message ID	Added info.	Message text		
	levei	location	טו	Highest 4 digits			
				Description			
6	E3	SOFTWARE	00003006	1000	System restarted due to WDT timeout.		
	The device was restarted because a WDT (watchdog timer) timed out.  [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.		
		as restarted because of message variable witch.		ilure.			
8	Е3	SOFTWARE	00003008	1000	System restarted due to hardware error detected.		
		as restarted because of message variable witch.		ilure.			
9	Е3	SOFTWARE	0000300a	1000	System restarted due to auto restart detected by software.		
		as restarted because of message variable		restart by the so	ftware.		
10	E3	SOFTWARE	00003301	1000	CPU congestion detected.		
	Packet congestion in CPU processing was detected.  [Explanation of message variables]  None.  [Action]  1. 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.  2. If there are many accesses from network management devices, suppress all but the most essential ones.  3. If (2.) above does not start the recovery, see the <i>Troubleshooting Guide</i> description about when congestion of packets being processed by the CPU does not recover, and carry out the indicated action.  4. This message might be output when a lot of ping or other commands that send and receive packets are executed.						
11	E3	SOFTWARE	00003302	1000	CPU has recovered from congestion.		
		The CPU has recovered from congestion.  [Explanation of message variables]  None.  [Action]					

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text				
		Description							
12	Е3	SOFTWARE	00008601	1001	NTP lost synchronization with < <i>ip address</i> >[ on VRF < <i>vrf id</i> >].				
	[Explanation of sip address > 1	ntp association	es] e NTP server ons command to c	heck the NTP s	status. on, NTP server operation status, and availability				
13	Е3	SOFTWARE	00008602	1001	NTP detected an invalid packet from < <i>ip</i> address>[ on VRF < <i>vrf id</i> >].				
	An invalid packet from the NTP server at <ip address=""> was detected.  [Explanation of message variables]  <ip address="">: IPv4 address of the NTP server  <vrf id="">: VRF ID  [Action]  Check the NTP server.</vrf></ip></ip>								
14	Е3	SOFTWARE	00008603	1001	NTP could not find the server which synchronize with.				
	[Explanation of None. [Action]	TP server for which of message variable P configuration, N	es]		railability of communication.				
15	Е3	SOFTWARE	01200123	1001	VRF information defined by the configuration file is ignored, since VRF function license is not given.				
	VRF information set in the startup configuration file is invalid because a license was not granted.  [Explanation of message variables]  None.  [Action]  If you want to enable the VRF function, set the option license OP-DPAR with the set license command, and restart the switch.								
16	E3	SOFTWARE	01200187	1001	The temperature logging file can't be written.				
	E3 SOFTWARE 01200187 1001 The temperature logging file can't be written.  The writing of temperature logging information failed.  [Explanation of message variables]  None.  [Action]  1. Check the user space of the internal flash memory.  2. If there is not enough free space, delete any unneccessary files to acquire more free space (about 8 KB is required).								

	H			1					
#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text				
	Description								
17	Е3	SOFTWARE	01300462	1001	There is mismatch between active and standby software version.				
	The software versions of the active system and the standby system are different.  [Explanation of message variables]  None.  [Action]  1. There is no problem if the software is being updated.  2. In all other cases, update the software so that the versions on both the active and the standby systems are to same. For details about how to update the software, see the <i>Software Installation Guide</i> .								
18	Е3	SOFTWARE	01300463	1001	Active and standby software version is identical.				
	n are the same.								
19	Е3	SOFTWARE	01300464	1001	There is mismatch between active and standby license key.				
	The license key information for the active system and the standby system is not the same.  [Explanation of message variables]  None.  [Action]  1. Execute the synchronize command in the active system to synchronize the license key information of the standby system with that of the active system.  2. After the synchronize command terminates, execute the reload command with the standby parameter specified in the active system to restart the standby system.								
20	Е3	SOFTWARE	01300465	1001	Active and standby license key is identical.				
	The license key information in the active and the standby systems matches.  [Explanation of message variables]  None.  [Action]  None.								
21	E3	SOFTWARE	01700501	1001	Statistics table initialized.				
	1 E3 SOFTWARE 01700501 1001 Statistics table initialized.  The statistics table that holds the CPU usage statistics has been initialized because the switch time has been chang [Explanation of message variables]  None.  [Action]  None.								

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text			
				Description				
22	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 CPU mig [Explanation of None. [Action]	to a user-entered control to a user-entered control to a	es]		otification to an SNMP agent might have failed.			
23	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 user-entered command might have failed or a notification to an SNMP agent might have failed.  [Explanation of message variables]  None.  [Action]  If necessary, reenter the command or retrieve the MIB.							
24	E3	SOFTWARE	01900250	1001	Software started up.			
		has started. is collected in UTC of message variable						
25	E3	SOFTWARE	01910201	1001	System started collecting new "error.log".			
		s started collecting of message variable		eference log.				
26	E3	SOFTWARE	01910202	1001	System restarted by user operation.			
	The system was restarted by a user operation.  [Explanation of message variables]  None.  [Action]  None.							
27	E3	SOFTWARE	01910203	1001	System restarted after hardware reset.			
	E3 SOFTWARE 01910203 1001 System restarted after hardware reset.  The system was restarted by the reset switch.  [Explanation of message variables]  None.  [Action]  None.							

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text					
		Description								
28	E3	SOFTWARE	02002010	1001	System failed switching to admin mode.					
	[Explanation None. [Action]	o the admin mode of message variable	es]		ons command, check the logged-in users and					
29	E3	SOFTWARE	02002012	1001	Specified MIB doesn't exist, or it does not have read/write attribute.					
	[Explanation None. [Action]	of message variable	es]		and write attributes.  et MIB has read and write attributes.					
30	E3	SOFTWARE	02002013	1001	Incorrect instance value specified.					
	[Explanation None. [Action]	value set during Ml of message variable t the instance value	es]	rect.						
31	E3	SOFTWARE	02002014	1001	MIB value specified was out of range.					
	[Explanation None. [Action]	of message variable	es]		nge during MIB setup.  al Configuration Command Reference Vol. 2 For					
32	E3	SOFTWARE	02002015	1001	Data length of the MIB value was too long.					
	The entry for the MIB value set during MIB setup is too long.  [Explanation of message variables]  None.  [Action]  For details about the number of characters that can be set for a MIB value, see 24. SNMP in the manual Configuration Command Reference Vol. 2 For Version 11.7.									
33	Е3	SOFTWARE	02002016	1001	MIB Set failed due to the lack of necessary MIBs.					

#	Event level	Event location	Message ID	Added info.	Message text			
				Highest 4 digits				
				Description				
34	Е3	SOFTWARE	02002017	1001	Illegal character used in MIB setting.			
	[Explanation of None. [Action] Check the cha	pting to set up the lof message variable racter code list in <i>I</i> , and set up the MIB	es] . Reading the Man		nal Configuration Command Reference Vol. 1 For			
35	Е3	SOFTWARE	02002018	1001	MIB Set failed to configured the configuration file because the preliminary configuration file is under editing.			
	edited. [Explanation of None. [Action]	IIB into the startup of message variable f the backup config	es]	was not possib	le because the backup configuration file is being			
36	Е3	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	Е3	SOFTWARE	02002020	1001	MIB value has failed to establish. Errors occurred in the "config" command.			
	[Explanation of None. [Action] For details about	of message variable	es] rrors, see <i>Error M</i>	_	the configuration at MIB setup.  yed When Editing the Configuration in the			
38	E3	SOFTWARE	02002021	1001	Not all MIB configured.			
	[Explanation on None. [Action]	the MIB values we of message variable in. If the retry still o	es]	Ŷ	e, by using Telnet) and set the MIB values.			
39	Е3	SOFTWARE	02002023	1001	System failed to save the configuration while processing MIB settings.			

#	Event level	Event location	Message ID	Added info.	Message text				
				digits					
	Description								
40	Е3	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>				
	[Explanation of solution of so	: IPv4 address or IP	es] emonic	·					
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> ].				
	address>. [Explanation of	of message variable : IPv4 address or IF	es]		clear request from the SNMP manager at $<$ $ip$				
42	E3	SOFTWARE	05001002	1001	BGP information defined by the configuration file is ignored, since BGP function license is not given.				
	[Explanation of None. [Action] If you want to	of message variable	es] 3GP4+ functional	_	is invalid because a license has not been granted.  ption license OP-BGP with the set license				
43	Е3	SOFTWARE	0d10b002	1001	The not used IP address which a dhcp_server can lease out is not a subnet < <i>subnet address</i> >.				
	An unused IP address lent by dhcp_server is not in the subnet <subnet address="">.  [Explanation of message variables]  <subnet address="">: Allocation range subnet address  [Action]  Examine the maximum number of clients for the subnet that dhcp_server can allocate.</subnet></subnet>								
44	Е3	SOFTWARE	0d10b003	1001	The dhcp_server reused the abandoned IP address < <i>ip address</i> >.				

#	Event level	Event location	Message ID	Added info.	Message text				
				Highest 4 digits					
				Description					
45	E3	SOFTWARE	0d10b004	1001	The IP address < ip address > which the dhcp_server schedule to lease out is already used by others.				
	[Explanation < ip address> [Action]	of message variable: IP address to be a	es] llocated	•	used in other locations.  ted IP addresses overlap each other.				
46	Е3	SOFTWARE	0d10b005	1001	Failed in NS UPDATE by dhcp_server. : <map></map>				
	NS UPDATE processing by dhcp_server has failed.  [Explanation of message variables] <map>: Map where the error occurred  [Action]  Check the zone setting and authentication key setting of the Switch and the settings on the DNS server.  If you are using an authentication key, make sure that the time information for the Switch matches the time information for the DNS server.</map>								
47	E3	SOFTWARE	0d10b0e4	1001	dhcp_server: Invalid network address.				
	The DHCP server detected an invalid configuration. An invalid network address has been specified.  [Explanation of message variables]  None.  [Action]  Delete the previously entered setting, and set the correct network address.								
48	Е3	SOFTWARE	0d10b0ec	1001	dhcp_server: Invalid key.(ip dhcp key secret-hmac-md5)				
	[Explanation None. [Action]	rver detected an invof message variable	es]		ovalid key.				
49	ЕЗ	SOFTWARE	0d10b0ee	1001	dhcp_server: Invalid IP address. (ip dhcp excluded-address)				
	[Explanation None. [Action]								
50	Е3	SOFTWARE	0e008001	1000	Virtual router < <i>vrid</i> > of < <i>interface name</i> > state has transitioned to < <i>state</i> >.				

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text					
				Description	1					
51	Е3	SOFTWARE	0e008002	1000	Virtual router < <i>vrid</i> > of < <i>interface name</i> > received VRRP packet with IP TTL not equal to 255.					
	The virtual ro	outer received a VR	RP ADVERTISE	MENT packet w	whose TTL (Time-to-Live) in the IP header was					
	<pre><vrid>: Virtu <interface [action]<="" na="" pre=""></interface></vrid></pre>	[Explanation of message variables] <vrid>: Virtual router ID <interface name="">: Name of the interface in which VRRP is set</interface></vrid>								
52	E3	SOFTWARE	0e008003	1000	Virtual router < <i>vrid</i> > of < <i>interface name</i> > received VRRP packet that length less than the length of the VRRP header.					
	[Explanation   < vrid>: Virtu < interface na [Action]	The virtual router received a VRRP ADVERTISEMENT packet that had an invalid length.  [Explanation of message variables]  < vrid>: Virtual router ID  < interface name>: Name of the interface in which VRRP is set  [Action]  Check the partner switch that makes up the same virtual router.								
53	Е3	SOFTWARE	0e008004	1000	Virtual router < <i>vrid</i> > of < <i>interface name</i> > received VRRP packet that does not pass the authentication check.					
	Authentication of a received VRRP ADVERTISEMENT packet failed.  [Explanation of message variables]  < vrid>: Virtual router ID  < interface name>: Name of the interface in which VRRP is set  [Action]  Check the password settings of the Switch and the partner switch that make up the same virtual router.									
54	E3	SOFTWARE	0e008005	1000	Virtual router < <i>vrid</i> > of < <i>interface name</i> > received VRRP packet for which the address list does not match the locally configured list for the virtual router.					
	The IP address of a virtual router specified in a received VRRP ADVERTISEMENT packet does not match the settings of the Switch.  [Explanation of message variables] <vrid>: Virtual router ID  <interface name="">: Name of the interface in which VRRP is set  [Action]  Check the IP address settings of the virtual router for the Switch and the partner switch that make up the same virtual router.</interface></vrid>									

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text				
				Description					
55	Е3	SOFTWARE	0e008006	1000	Virtual router < <i>vrid</i> > of < <i>interface name</i> > received VRRP packet for which the advertisement interval is different than the one configured for local virtual router.				
	the Switch. [Explanation of severid>: Virtue severid>: Virtue severid>: Action]	of message variable al router ID  me>: Name of the	es] interface in which	VRRP is set	ISEMENT packet does not match the settings of rtner switch that make up the same virtual router.				
56	Е3	SOFTWARE	0e008007	1000	VRRP packet received with unsupported version number.				
	the Switch. [Explanation of None. [Action]	[Explanation of message variables]  None. [Action]  When constructing a virtual router with the Switch, specify the same VRRP version for both the partner switch and							
57	Е3	SOFTWARE	0e008008	1000	Virtual router < <i>vrid</i> > of < <i>interface name</i> > priority was changed to < <i>priority</i> >.				
	[Explanation of serion of	iority was changed of message variable al router ID me>: Name of the irtual router priorit	es] interface in which	VRRP is set					
58	Е3	SOFTWARE	0e008012	1000	Virtual router < <i>vrid</i> > of < <i>interface name</i> > was finished.				
	The virtual router ended.  [Explanation of message variables]  < vrid>: Virtual router ID  < interface name>: Name of the interface in which VRRP is set  [Action]  None.								
59	Е3	SOFTWARE	0e008015	1000	Virtual router < <i>vrid</i> > of < <i>interface name</i> > received VRRP packet with IP HopLimit not equal to 255.				
	The virtual router received a VRRP ADVERTISEMENT packet whose HopLimit in the IP header was not 255 [Explanation of message variables]  < vrid>: Virtual router ID  < interface name>: Name of the interface in which VRRP is set  [Action]  Check the partner switch that makes up the same virtual router.								

#	Event level	Event location	Message ID	Added info.	Message text				
	16461	location	טו	Highest 4 digits					
	Description								
60	Е3	SOFTWARE	0e008016	1000	Virtual router < <i>vrid</i> > of < <i>interface name</i> > priority changed to < <i>priority</i> >, because error detected on line by vrrp-polling.				
	[Explanation of syrid>: Virtu sinterface nate spriority>: V [Action]	of message variable	es] interface in which y	VRRP is set	lling detected a line fault.				
61	E3	SOFTWARE	0e008017	1000	<pre><interface name=""> assigned virtual router <vrid> is down because of error detected by track.</vrid></interface></pre>				
	[Explanation of sinterface nation of sinterface nation]	of message variable me>: Name of the	es] interface in which	VRRP is set	functionality detected an error.				
62	Е3	SOFTWARE	0e008018	1000	<pre><interface name=""> assigned virtual router <vrid> is up because of recovery detected by track.</vrid></interface></pre>				
	[Explanation of	of message variable me>: Name of the	es]		cking functionality detected recovery from a fault.				
63	Е3	SOFTWARE	0e008019	1000	Critical interface of <interface name=""> is down.</interface>				
A fault-monitoring interface is down.  [Explanation of message variables] <interface name="">: Interface name of a fault-monitoring target [Action]  None.</interface>									
64	E3	SOFTWARE	0e008020	1000	Critical interface of <interface name=""> is up.</interface>				
	A fault-monitoring interface is up.  [Explanation of message variables] <interface name="">: Interface name of a fault-monitoring target [Action]  None.</interface>								

#	Event level	Event location	Message ID	Added info.	Message text			
	Highest 4 digits							
				Description				
65	E3	SOFTWARE	0e008022	1000	Virtual router < <i>VRID</i> > of < <i>Interface Name</i> > advertisement interval set default advertisement interval (1 second) because not supported Advertisement interval configured.			
	used for Adve [Explanation < VRID>: Vir < Interface Not [Action]  1. If the VR ietf-un  2. When you	ertisement Inte of message variable tual router ID ame>: Interface nar RP operation mode ified-spec-02-n u set a millisecond	rval.  es]  me  is set in the confinode command, so value for the advent	guration by usir et the value to 4 rtisement packe	ng the ietf-ipv6-spec-07-mode or 0 seconds or smaller. t sending interval, set the VRRP operation mode-spec-02-mode command.			
66	E3	SOFTWARE	0e008023	1000	Virtual router < VRID> of < Interface Name> disabled because Primary virtual router is not running.			
	The follow virtual router is disabled because no primary virtual router is configured.  [Explanation of message variables]  < VRID>: Virtual router ID  < Interface Name>: Interface name  [Action]  Configure a primary virtual router.							
67	E3	SOFTWARE	0e008024	1000	Virtual router < <i>VRID</i> > of < <i>Interface Name</i> > enabled because Primary virtual router started.			
	The follow virtual router was enabled because a primary virtual router was configured.  [Explanation of message variables]  < VRID>: Virtual router ID  < Interface Name>: Interface name  [Action]  None.							
68	E3	SOFTWARE	0e008025	1000	Critical interface of <interface type=""> <interface number=""> is down.</interface></interface>			
	A fault-monitoring interface is down.  [Explanation of message variables] <interface type="">: Interface that is specified as the fault-monitoring interface  • gigabitethernet: 10BBASE-T, 100BASE-TX, 1000BASE-T, or 1000BASE-X  • tengigabitethernet: 10GBASE-R  • port-channel: Channel group  <interface number="">: Interface number specified as the fault-monitoring interface  • <nif no.="">/<port no.="">: NIF number/port number (for gigabitethernet or tengigabitethernet)  • <channel group="" number="">: Channel group number (for port-channel)  [Action]  None.</channel></port></nif></interface></interface>							

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text			
				Description	1			
69	E3	SOFTWARE	0e008026	1000	Critical interface of <interface type=""> <interface number=""> is up.</interface></interface>			
	[Explanation < interface type of gigabit tengiga port-ch < interface number of the control of th	bitethernet: 10C annel: Channel gro umber>: Interface n	es] s specified as the SE-T, 100BASE-GBASE-R oup umber specified a umber/port numb	TX, 1000BASE s the fault-moni	E-T, or 1000BASE-X itoring interface tethernet or tengigabitethernet)			
70	Е3	SOFTWARE	0e008027	1000	Critical interface of <i><interface number=""></interface></i> is up. But priority not changed because of different interface type.			
	[Explanation < interface nu	toring interface is up of message variable <i>umber&gt;</i> : Interface message variable <i>mber&gt;</i> : NIF n	es] umber specified a	s the fault-moni	-			
71	E3	SOFTWARE	0f306003 0f406003	1001	The multicast routing program will restart, because the multicast (PIM) max-interfaces configuration changed.			
	was changed	outing program wil by the configuration of message variable	n command ip p		(PIM) information of the running configuration face.			
72	E3	SOFTWARE	0f406004	1001	IPv4 multicast routing entry had exceeded maximum value < <i>number</i> > for limit, entry has discarded[ on VRF < <i>vrf id</i> >].			
	An entry was discarded because the number of IPv4 multicast routing information items exceeded the maximum value of <number>.  [Explanation of message variables] <number>: Maximum number of IPv4 multicast routing information items <vrf id="">: VRF ID  [Action]  An unauthorized access might have occurred.  • Check if more than the expected number of additional requests for multicast routing information were generated. The number of multicast routing information items exceeds the maximum value that they are limited to.  • Check the configuration (ip pim mroute-limit command).  • After checking the network configuration, reexamine the Switch configuration.</vrf></number></number>							

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text	
			ı	Description		
73	E3	SOFTWARE	0f406005	1001	IPv4 multicast routing entry has recovered from the state of discard[ on VRF < vrf id>].	
		of message variable		red from a state	in which entries were discarded.	
74	Е3	SOFTWARE	0f406006	1001	IGMP source-limit < <i>number</i> > has been exceeded on interface < <i>interface name</i> > [of VRF < <i>vrf id</i> >] due to over-request. Request have been discarded.	
	<number>: L. <interface <vrf="" id="" nan="">: VRI [Action] An unauthoriz • Check if n IGMP gro • Check the</interface></number>	of message variable imit on the number me>: Interface nan F ID red access might han ore than the expect	of IGMP groups ne  ave occurred. eted number of add igmp source-1	imit command		
75	Е3	SOFTWARE	0f406007	1001	IGMP source-limit on requests on interface <interface name=""> [of VRF &lt; vrf id&gt;] has recovered from state of discard.</interface>	
	discarded. [Explanation of	of message variable me>: Interface nan	es]	n a state in whi	ch sources belonging to the IGMP group were	
76	Е3	SOFTWARE	0f406008	1001	IGMP group-limit < number > has been exceeded on interface < interface name > [of VRF < vrf id > ] due to over-request. Request have been discarded.	
	A request was discarded because the interface <interface name=""> received a request that exceeded the IGMP group limit value of <number>.  [Explanation of message variables] <number>: Limit on the number of IGMP groups <interface name="">: Interface name <vrf id="">: VRF ID  [Action]  An unauthorized access might have 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).  • After checking the network configuration, reexamine the Switch configuration.</vrf></interface></number></number></interface>					

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text			
			ı	Description				
77	Е3	SOFTWARE	0f406009	1001	IGMP group-limit on requests on interface <interface name=""> [of VRF <vrfid>] has recovered from state of discard.</vrfid></interface>			
	[Explanation of	of message variable me>: Interface nan	es]	n the state in w	hich IGMP groups were discarded.			
78	E3	SOFTWARE	0f40600a	1001	IPv4 multicast forwarding entry had exceeded maximum value <i><number></number></i> for limit, entry has discarded[ on VRF <i><vrfid></vrfid></i> ].			
	<number>: N <ur><ur><ur><ur><ur><ur><ur><ur><ur><ur></ur></ur></ur></ur></ur></ur></ur></ur></ur></ur></number>	zed access might ha nore than the expect oer of items of mult	ave occurred.  Atted number of addicast forwarding ess been generated downwarding end pim mcache-li	itional requests ntries exceeds t lue to a reception mit command)	for a multicast forwarding entry were generated. the maximum value. on of multicast packets that are not forwarded.			
79	Е3	SOFTWARE	0f40600b	1001	IPv4 multicast forwarding entry has recovered from the state of discard[ on VRF < <i>vrf id</i> >].			
	The IPv4 multicast forwarding entries have recovered from a state in which they were discarded.  [Explanation of message variables]  < vrf id>: VRF ID  [Action]  None.							
80	Е3	SOFTWARE	0f40600c	1001	Accept-bootstrap configuration defined by the configuration file is ignored, since accept-bootstrap license is not given.			
	The accept-bootstrap configuration set in the startup configuration file is invalid because a license was not granted.  [Explanation of message variables]  None.  [Action]  If you want to use the functionality that suppresses the receiving of bootstrap messages, set the OP-MBSE optional license with the set license command, and then restart the switch.							

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text			
				Description				
81	E3	SOFTWARE	11010001	1001	The list number <policy list="" no.=""> of the policy base routing changed to the sequence number <sequence>.</sequence></policy>			
	list no.>. [Explanation <policy list="" n<="" td=""><td>of message variable o.&gt;: List number of Priority of the route</td><td>es] the policy-based</td><td>routing informa</td><td>sed routing information with list number &lt; policy</td></policy>	of message variable o.>: List number of Priority of the route	es] the policy-based	routing informa	sed routing information with list number < policy			
82	Е3	SOFTWARE	11010002	1001	The list number <policy list="" no.=""> of the policy base routing changed to the default operation.</policy>			
	[Explanation	ction was selected i of message variable o.>: List number of	es]		nation with list number < policy list no. >.			
83	E3	SOFTWARE	11020001	1001	The list number < policy switch list no. > of the policy base switching changed to the sequence number < sequence>.			
	list number < [Explanation <policy switch<="" td=""><td>interface with the proposed interface with list no of message variable the list no. &gt;: List nur Priority of the desti</td><td>o.&gt;. es] nber of the policy</td><td>-based switchin</td><td>in the policy-based switching information with</td></policy>	interface with the proposed interface with list no of message variable the list no. >: List nur Priority of the desti	o.>. es] nber of the policy	-based switchin	in the policy-based switching information with			
84	Е3	SOFTWARE	11020002	1001	The list number < policy switch list no. > of the policy base switching changed to the default operation.			
	The default action was selected in the policy-based switching information with list number <i><policy list="" no.="" switch=""></policy></i> . [Explanation of message variables] <i><policy list="" no.="" switch=""></policy></i> : List number of the policy-based switching information [Action] None.							
85	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 running configuration was changed by the configuration command ipv6 pim max-interface.  [Explanation of message variables]  None.  [Action]  None.							

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text
				Description	
86	Е3	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> ].
	value of <num <number="" [explanation="">: N <vrf id="">: VR [Action] An unauthori • Check if i The numl • Check the</vrf></num>	mber>. of message variable Maximum number of F ID zed access might ha	es] If IPv6 multicast related number of additing information in process of the prime of the prim	outing informat itional requests tems exceeds the	for multicast routing information were generated.  the maximum value that they are limited to.  and).
87	E3	SOFTWARE	1920a006	1001	IPv6 multicast routing entry has recovered from the state of discard[ on VRF < <i>vrf id</i> >].
		of message variable		red the state in	which entries were discarded.
88	E3	SOFTWARE	1920a007	1001	IPv6 multicast forwarding entry had exceeded maximum value < <i>number</i> > for limit, entry has discarded[ on VRF < <i>vrf id</i> >].
	<number>. [Explanation <number>: N <vrf id="">: VR [Action] An unauthori • Check if i The numl • Check if i • Check the</vrf></number></number>	of message variable Maximum number of F ID  zed access might ha more than the expector of items of mult	es] If IPv6 multicast for the occurred. Ited number of addicast forwarding ess been generated of pim mcache-	orwarding entri	for a multicast forwarding entry were generated. the maximum value. on of multicast packets that are not forwarded. nd).
89	E3	SOFTWARE	1920a008	1001	IPv6 multicast forwarding entry has recovered from the state of discard[ on VRF < <i>vrf id</i> >].
		of message variable		ered from a state	e in which they were discarded.

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text				
					<u> </u>				
90	Е3	SOFTWARE	1f01b024	1001	IPv6 DHCP packet discarded by relay agent, because prefix entry exceeded the maximum.				
	After output of [Explanation None. [Action]  1. Use the second client could be second from the	of this message, out of message variable how ipv6 dhcp acity client count fount.	put of the same mess]  relay binding or the Switch exce	command to cheeds the capacity	of prefix entries exceeded the maximum number. essed for the next five minutes.  eck the capacity client count. In the capacity limit, reexamine and then change the capacity excually been discarded, execute the show ipv6 ics and check the items in lease prefix over.				
91	Е3	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 relay information set in the startup configuration file is invalid because a license was not granted.  [Explanation of message variables]  None.  [Action]  If you are using an IPv6 DHCP relay, set the option license OP-DH6R with the set license command, and restart the switch.								
92	E3	SOFTWARE	25090001	1001	The change of power control mode was started.				
	[Explanation None. [Action]	f power control mo of message variable te the BSU or CSU u	es]	ge The change	e of power control mode was completed.				
93	Е3	SOFTWARE	25090002	1001	The change of power control mode was completed.				
		Changing of the power control mode has been completed.  [Explanation of message variables]  None.  [Action]							
94	E3	SOFTWARE	25090003	1001	System changes to the schedule power control because it became schedule time.				
	The scheduled time for power-control has been reached.  [Explanation of message variables]  None.  [Action]  None.								

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text	
			1	Description		
95	E3	SOFTWARE	25090004	1001	System changes from the schedule power control because it ended schedule time.	
		I time for power-co of message variable				
96	E3	SOFTWARE	25090011	1001	System changes from the adaptive power control.	
	configuration	sed power saving f of the functionality of message variable	has changed.	e turned off bed	cause the amount of traffic has increased or the	
97	E3	SOFTWARE	25090012	1001	System changes to the adaptive power control.	
		sed power saving f of message variable		e started due to	a reduction in the amount of traffic.	
98	Е3	SOFTWARE	25090101	1001	The change of power control mode could not be started.	
	Changing of the power control mode could not be started.  [Explanation of message variables]  None.  [Action]  1. Execute the show system command to review the device configuration. If the system is not configured with a redundant BSU or CSU, the power control mode cannot be changed from normal to mode2 or vice versa even if a scheduled time has been reached. Create a redundant BSU or CSU configuration.  2. Execute the show system command to review the device configuration. If the system is not configured with a redundant BSU or CSU, even with the traffic-based power saving functionality set, the power control mode cannot be changed from normal to mode2 or vice versa for an increase or decrease in traffic. Create a redundant BSU or CSU configuration.					
99	Е3	SOFTWARE	3000b042	1001	Discard of packets occurred by a reception rate limit of DHCP packets and ARP packets.	
		discarded due to th of message variable		nit for DHCP p	packets and ARP packets.	

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text			
			ļ	Description				
100	E3	SOFTWARE	3000b043	1001	Failed in binding database generate by binding entry exceeded( <mac address="">/<vlan id="">/<ip address="">).</ip></vlan></mac>			
	[Explanation of smac address of smac add of smac add of smach address of s	of message variable  >>/ <vlan id="">/<ip a="" lress="">: MAC addre : VLAN ID  ss&gt;: IP address</ip></vlan>	es]  address>: DHCP c  ess  was exceeded. Rev	lient terminal in	configuration. If this message is displayed			
101	Е3	SOFTWARE	3000b044	1001	The binding database can't be restored(< <i>reason</i> >).			
	[Explanation of season>: Reference of File is May be the data [Action]	atabase could not be of message variable ason for the failure not found. (A find proken. (The binding is not saved.)	es] ele was not found.) ing database might (There is no resto	orable data.)				
102	Е3	SOFTWARE	3000b045	1001	The binding database can't be stored( <reason>).</reason>			
	The binding database could not be stored.  [Explanation of message variables] <reason>: Reason for the failure  • File is not writing. (Writing to the file is not possible.)  [Action]  Check the storage destination of the binding database.</reason>							
103	Е3	SOFTWARE	3000b046	1001	The binding database was restored from <i><url></url></i> .			
	[Explanation of surl>: The bit of previous	atabase was restore of message variable nding database bei s process: The pr ternal flash memor	es] ng read rocess before the r	estart	I			

#	Event	Event	Message	Added	Message text				
	level	location	ID	info.					
				Highest 4 digits					
				Description					
104	Е3	SOFTWARE	3000b047	1001	Failed in source guard setting by DHCP snooping ( <mac address="">/<vlan id="">/<ip address="">/<nif no.="">/<port no.="">).</port></nif></ip></vlan></mac>				
	[Explanation of smac address o	filter setting failed. of message variable v>/ <vlan id="">/<ip a="" lress="">: MAC addre : VLAN ID ss&gt;: IP address : NIF number &gt;: Port number</ip></vlan>	ddress>>/ <nif no<br="">ss</nif>		Terminal filter setting information				
105	E4	SOFTWARE	20160002	1001	The MAC-VLAN MAC Address entry can't be registered at hardware tables.				
	hardware. [Explanation of None. [Action] Review the ca	of message variable	es]		nfiguration command could not be set for the				
106	E4	SOFTWARE	20400003	1001	The 802.1X Supplicant MAC address can't be registered at hardware tables.				
	the hardware of [Explanation of None. [Action] Review the ca	table.  of message variable  pacity limit.	es]		nenticated with IEEE802.1X, could not be set in le due to hardware limitations.				
107	E4	SOFTWARE	20400004	1001	The 802.1X Supplicant MAC address of MAC VLAN can't be registered at hardware tables.				
	could not be s [Explanation of None. [Action] Review the ca	The MAC address of a terminal, which had been successfully authenticated at a MAC VLAN with IEEE802.1X, could not be set in the hardware table.  [Explanation of message variables]  None.							
108	E4	SOFTWARE	20420002	1001	The wad MAC Address entry can't be registered at hardware tables.				
	[Explanation of None. [Action]	of message variable	es]		ninal could not be set in the hardware table.  y limit might not be possible due to hardware				

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text		
		l	ı	Description			
109	E4	SOFTWARE	20420003	1001	The wad MAC Address entry failed in the deletion.		
	hardware table [Explanation of None. [Action]		es]		stered terminal could not be deleted from the		
110	E4	SOFTWARE	20430002	1001	The macauthd MAC address entry can't be registered at hardware tables.		
	Using MAC-based 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. If the total number of MAC addresses registered in the MAC address table is too large, delete unnecessary MAC addresses.						
111	E4	SOFTWARE	20430003	1001	The macauthd MAC address entry failed in the deletion.		
	table.	of message variable		s of a registered	I terminal could not be deleted from the hardware		
112	E4	SOFTWARE	27000013	0000	System accounting failed ( <number> times).</number>		
	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 for one hour, the failure count is cleared.  [Explanation of message variables] <ul> <li>number&gt;: Count of consecutive failures</li> </ul> [Action]  1. Check if the configurations for the RADIUS server or TACACS+ server have been set. <li>2. Check the configurations to make sure that the IP address for the RADIUS server or TACACS+ server is correct.</li> <li>3. Check the configurations to make sure that the port number for the RADIUS server or TACACS+ server is correct.</li>						
113	E5	SOFTWARE	01300479	1001	There is mismatch between active and standby license key.		
	The license key information for the active system and the standby system is not the same.  In this state, system switching cannot be performed by using the redundancy force-switchover command. If system switching occurs in this state due to a fatal error, or by clicking the Reset button, by pressing the ACH switch, or by executing the reload command with the active parameter specified, the new active system will restart after the switch.  [Explanation of message variables]  None.  [Action]  1. Execute the synchronize command in the active system to synchronize the license key information of the standby system with that of the active system.  2. After the synchronize command has terminated, execute the reload command with the standby parameter						

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text					
		Description								
114	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 are many accesses from network management devices, suppress all but the most essential ones.
- 4. If the system does not recover after using any one of the three methods above, the capacity limits of the Switch might not be satisfied. See 3. Capacity Limit in the manual Configuration Guide Vol. 1 For Version 11.7 and review the network configuration.

115	E7	SOFTWARE	01100001	1001	Software failure occurred during operation.	
			01200001			
			01300001			
			01400001			
			01600001			
			01700001			
			01800001			
			01900001			
			01910001			
			03000001			
			04000001			
			05000001			
			06100001			
			06200001			
			06300001			
			06400001			
			06500001			
			07000001			
			08000001			
			09100001			
			09200001			
			09300001			
			09400001			
			09500001			
			09600001			
			09700001			
			09800001			
			07000001			

A software failure occurred during operation.

[Explanation of message variables]

None.

[Action]

Normal operation might be impossible. Execute the following measures:

- 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 switch.
- 3. If the same failure occurs again after the switch is restarted by using the reload command, replace the switch.

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text
			ı	Description	
116	E7	SOFTWARE	01100002 01200002 01300002 01400002 01600002 01700002 01800002 01910002 03000002 04000002 06100002 06200002 06400002 06500002 07000002 08000002 09100002 09200002 09400002 09500002 09500002	1001	Software failure occurred during operation.

A software failure occurred during operation.

[Explanation of message variables]

None.

[Action]

Normal operation might be impossible. Execute the following measures:

- 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 switch.
- 3. If the same failure occurs again after the switch is restarted by using the reload command, replace the switch.

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text			
	Description							
117	E7	SOFTWARE	01100004 01200004 01300004 01400004 01600004 01700004 01800004 01910004 03000004 06100004 06200004 06300004 06400004 06500004 07000004 09100004 09200004 09300004 09400004 09500004	1001	Software failure occurred during operation.			

A software failure occurred during operation.

[Explanation of message variables]

None.

[Action]

Normal operation might be impossible. Execute the following measures:

- 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 switch.
- 3. If the same failure occurs again after the switch is restarted by using the reload command, replace the switch.

118 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 *Troubleshooting Guide*. The SNMP agent 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.	Message text	
				Highest 4 digits		
			[	Description		
119	E7	SOFTWARE	02002003	1001	rmon aborted.	
	[Explanation of None. [Action] Collect the error RMON program	m. For details abo	es] n (rmon.core file ur ut how to collect tl	ne information,	re), log information, and the configuration of the see the <i>Troubleshooting Guide</i> . start or if restarts occur frequently, restart the	
120	E7	SOFTWARE	05001001	1001	Rtm aborted [: <error string="">].</error>	
121	The unicast routing program (rtm) was forced to stop.  [Explanation of message variables]					
	memory, abort [Explanation of None. [Action]	ted the operation, a of message variable	and forced the prog	ram to stop.	relay detected an anomaly such as a lack of	
122	E7	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.					
123	E7	SOFTWARE	0e008014	1000	vrrpd aborted.	
	The VRRP program (vrrpd) was forced to stop.  [Explanation of message variables]  None.  [Action]  The VRRP 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	Message text			
				digits				
				Description				
124	E7	SOFTWARE	0f406001	1001	mrp aborted.			
	[Explanation of None. [Action]  1. Check who Then, carr	of message variable ether other log mes y out the appropria	ssages related to thate actions.	e IP multicast r	routing program (log type: MRP) were issued.  If it does not restart or if restarts occur frequently,			
125	E7	SOFTWARE	11109901	1001	policyd aborted.			
	The policy-based program (policyd) was forced to stop.  [Explanation of message variables]  None.  [Action]  Collect the failure information (the policyd.core file under /usr/var/core), log information, and the configuration of the policy-based program. For details about how to collect this information, see the <i>Troubleshooting Guide</i> .  The policy-based program will automatically restart. If it does not automatically restart or if it restarts frequently, restart the switch.							
126	E7	SOFTWARE	1920a002	1001	mr6 aborted.			
	IPv6 multicast routing program was forced to stop.  [Explanation of message variables]  None.  [Action]  1. Check whether other log messages related to the IPv6 multicast routing program (log type: MR6) were issued. Then, carry out the appropriate actions.  2. The IPv6 multicast routing program should restart automatically. If it does not restart or if restarts occur frequently, restart the switch.							
127	E7	SOFTWARE	1e001000	1001	flowd aborted.			
	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.							
128	E7	SOFTWARE	1f00b011	1001	dhcp6_server aborted.			
	The IPv6 DHC to stop. [Explanation of None. [Action]	P server detected and of message variable  CP server program	es]	a lack of memo	p.  p.  pry, aborted the operation, and forced the program  does not restart or if restarts occur frequently,			

#	Event level	Event location	Message ID	Added info. Highest 4	Message text	
				digits		
				Description		
129	E7	SOFTWARE	1f01b021	1001	dhcp6_relay aborted.	
	The IPv6 DHC an anomaly su [Explanation of None. [Action]	CP relay aborted the chas a lack of me of message variable	mory. es]	rced the program	es not restart or if restarts occur frequently, restart	
130	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 configurar 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 frequen the switch.					
131	E7	SOFTWARE	20120001	1001	LAd aborted	
	[Explanation of None. [Action] Collect the errlink aggregation	of message variable or save information on program. For de	n (LAd.core file ur	nder /usr/var/cor	re), log information, and the configuration of the ormation, see the <i>Troubleshooting Guide</i> .	
132	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 t 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 swit					
133	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.					

#	Event	Event	Message	Added	Message text		
	level	location	ID	info. Highest 4			
				digits			
		1		Description			
134	E7	SOFTWARE	20150001	1001	oadpd aborted.		
	[Explanation of None. [Action]	rogram (oadpd) was of message variable rogram should resta	es]	f it does not res	start or if restarts occur frequently, restart the		
135	E7	SOFTWARE	20160001	1001	L2MacManager aborted.		
	[Explanation of None. [Action]		es]	Ŷ	loes not restart or if restarts occur frequently,		
136	E7	SOFTWARE	20170001	1001	axrpd aborted.		
	None. [Action] Collect the err Ring Protocol	program. For deta	a (axrpd.core file u	ollect the inform	ore), log information, and the configuration of the mation, see the <i>Troubleshooting Guide</i> .  not restart or if restarts occur frequently, restart		
137	E7	SOFTWARE	20400001	1001	dot1xd aborted		
	[Explanation of None. [Action]	.1X program (dot1: of message variable .1X program should	es]	•	ot restart or if restarts occur frequently, restart the		
138	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.						
139	E7	SOFTWARE	20430001	1001	macauthd aborted.		
	[Explanation of None. [Action] The MAC-base	The MAC-based authentication program was forced to stop.  [Explanation of message variables]  None.					

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text	
			ı	Description		
140	E7	SOFTWARE	20700001	1001	efmoamd aborted.	
	[Explanation of None. [Action]	of message variable		·	does not restart if restarts occur frequently, restart	
141	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.					
142	E7	SOFTWARE	20900001	1001	cfmd aborted.	
	[Explanation of None. [Action] Collect the error CFM program For details about	out how to collect t	es] n (cfmd.core file unthe information, se	e the <i>Troublesh</i>	ore), log information, and the configuration of the state of the state of the torif restarts occur frequently, restart the switch.	
143	E7	SOFTWARE	21000001	1001	snoopd aborted.	
	[Explanation of None. [Action] The IGMP sno	of message variable	ing program (snoo	•	It to stop.  Art automatically. If it does not restart or if restarts	
144	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.					
145	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	I				
146	E7	SOFTWARE	27000011	0000	System accounting temporary stopped because accounting event congestion detected.				
	Accounting of the login and logout commands was stopped temporarily because accounting event transmission is congested.  [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 has recovered.  You can check the number of transmission queue accounting events by checking the item displayed in InQueue 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								
147	E7	SOFTWARE	2a001000	1001	httpd aborted.				
	[Explanation None. [Action]	ogram (httpd) wa of message variab	les]	does not automa	atically restart or if restarts frequently, restart the				
148	E7	SOFTWARE	2d000001	1001	aellogd aborted.				
	[Explanation of None. [Action] Obtain the error for details about	out how to collect to logging program	n (acllogd.core the information, se	file under /usi	r/var/core) of the access list logging program.  nooting Guide.  does not restart or if restarts occur frequently,				
149	E7	SOFTWARE	3000b041	1001	dhcp_snoopingd aborted.				
	DHCP snooping	The DHCP snooping program (dhcp_snoopingd) was forced to stop.  DHCP snooping aborted the operation and forced the program to stop because DHCP snooping detected an anomaly such as a lack of memory.							

[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.

	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text
				Description	<u> </u>
150	E7	SOFTWARE	32001001	1001	trackobjd aborted.
	[Explanation of None. [Action]	ect program (tracl of message variable ct program will aut	es]		itomatically restart or if restarts frequently, restar
151	E9	SOFTWARE	01100003 01200003 01300003 01400003 01600003 01700003 01800003 01900003 01910003 04000003 06200003 06200003 06400003 06500003 07000003 08000003 09100003 09200003 09400003	1001	System restarted due to software failure occurred during initialization.

#	Event level	Event location	Message ID	Added info.	Message text		
	ievei	location	U	Highest 4 digits			
				Description			
152	E9	SOFTWARE	01100005 01200005 01300005 01400005 01600005 01700005 01800005 01900005 01910005 03000005 0400005 06200005 06400005 06500005 07000005 08000005 09100005 09200005	1001	System restarted due to software failure occurred during operation.		
	[Explanation None. [Action]	arred in the software of message variable	09500005 09600005 09700005 09800005 e during operation es]		restarted. er problem is indicated in the log, take appropriate		
153		SOFTWARE		1001	System restarted due to software failure		
	An error occu [Explanation None. [Action] Check the log	arred with the softw of message variable	are during operaties]	on, and the swit	occurred during operation.		
154	R5	SOFTWARE	01300479	1001	Active and standby license key is identical.		
		The license key information in the active and the standby systems matches.  [Explanation of message variables]  None.  [Action]					

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text		
			Ī	Description			
155	R7	SOFTWARE	00003101	1000	Recovered from memory exhaustion.		
		recovered from a left message variable					
156	R7	SOFTWARE	02002001	1001	snmpd restarted.		
The switch outputs this message after the SNMP agent program is forced to stop and is then restarted a [Explanation of message variables]  None.  [Action]  Collect the error save information (snmpd.core file under /usr/var/core), log information, and the conthe SNMP agent program. For details about how to collect the information, see the <i>Troubleshooting</i> of The SNMP agent program should restart automatically. If it does not restart or if restarts occur frequents witch.					core), log information, and the configuration of ormation, see the <i>Troubleshooting Guide</i> .		
157	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.						
158	R7	SOFTWARE	05001001	1001	Rtm restarted.		
	The unicast routing program (rtm) has restarted.  The switch outputs this message when the unicast routing program restarts automatically, or is restarted by the restart unicast command.  [Explanation of message variables]  None.  [Action]  None.						
159	R7	SOFTWARE	0d00b001	1001	dhcpd restarted.		
	R7 SOFTWARE 0d00b001 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.						

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text	
				Description		
160	R7	SOFTWARE	0d10b001	1001	dhcp_server restarted.	
	program resta	rver program (dheprts automatically. of message variable		rted. The switc	h outputs this message when the DHCP server	
161	R7	SOFTWARE	0e008014	1000	vrrpd restarted.	
	The switch ou	ogram (vrrpd) has i tputs this message of message variable	when the VRRP p	orogram restarts	s automatically.	
162	R7	SOFTWARE	0f406001	1001	mrp restarted.	
	program resta		a restart is reques		s this message when the IP multicast routing tart IPv4-multicast command.	
163	R7	SOFTWARE	11109901	1001	policyd restarted.	
	program autor		a restart is reques		utputs this message when the policy-based tart policy command.	
164	R7	SOFTWARE	1920a002	1001	mr6 restarted.	
	program resta		a restart is reques		uts this message when the IPv6 multicast routing tart ipv6-multicast command.	
165	R7	SOFTWARE	1e001000	1001	flowd restarted.	
	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.					

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text			
				Description				
166	R7	SOFTWARE	1f00b011	1001	dhcp6_server restarted.			
	The switch ou	CP server program ttputs this message of message variable	when the IPv6 DF		gram restarts automatically.			
167	R7	SOFTWARE	1f01b021	1001	dhcp6_relay restarted.			
	The switch ou by the restar	CP relay program ( atputs this message rt ipv6-dhcp re of message variable	when the IPv6 DH elay command.		am restarts automatically or a restart is requested			
168	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.							
169	R7	SOFTWARE	20120001	1001	LAd restarted.			
	program resta		r a restart is reques		puts this message when the link aggregation tart link-aggregation command.			
170	R7	SOFTWARE	20130002	1001	gsrpd restarted.			
	The GSRP program (gsrpd) has restarted. The switch outputs this message when the GSRP program restart automatically or a restart is requested by the restart gsrp command.  [Explanation of message variables]  None.  [Action]  None.							
171	R7	SOFTWARE	20140001	1001	lldpd restarted.			
	R7 SOFTWARE 20140001 1001 Ildpd restarted.  The LLDP program (Ildpd) has restarted. The switch outputs this message when the LLDP program restarts automatically or a restart is requested by the restart 11dp command.  [Explanation of message variables]  None.  [Action]  None.							

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text			
				Description				
172	R7	SOFTWARE	20150001	1001	oadpd restarted.			
	automatically	rogram (oadpd) has or a restart is reque of message variable	ested by the resta		s message when the OADP program restarts mand.			
173	R7	SOFTWARE	20160001	1001	L2MacManager restarted.			
	manager prog		atically or a restart		ne switch outputs this message when the L2MAC y the restart vlan command.			
174	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.							
175	R7	SOFTWARE	20400001	1001	dot1xd restarted.			
	restarts autom	.1X program (dot1) natically or a restart of message variable	is requested by th		uts this message when the IEEE802.1X program t1x command.			
176	R7	SOFTWARE	20420001	1001	wad restarted.			
	The Web authentication program (wad) has restarted.  The switch outputs this message when the Web authentication program restarts automatically or a restart is reby the restart web-authentication command.  [Explanation of message variables]  None.  [Action]  Perform authentication again on the authentication client.							
177	R7	SOFTWARE	20430001	1001	macauthd restarted.			
	R7 SOFTWARE 20430001 1001 macauthd restarted.  The MAC-based authentication program has restarted.  The switch outputs this message when the MAC-based 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.							

#	Event Event location		Message ID	Added info. Highest 4 digits	Message text					
			I	Description	I .					
178	R7	SOFTWARE	20700001	1001	efmoamd restarted.					
	The switch ou requested by t	3ah/OAM program tputs this message he restart efmo of message variable	when the IEEE802 cam command.		ogram restarts automatically or a restart is					
179	R7	SOFTWARE	20800001	1001	121dd restarted.					
	by the restar	tputs this message rt loop-detect: of message variable	ion command.	detection progra	am restarts automatically or a restart is requested					
180	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.									
181	R7	SOFTWARE	21000001	1001	snoopd restarted.					
	IGMP snoopir command.		program restarts au		ed. The switch outputs this message when the a restart is requested by the restart snooping					
182	R7	SOFTWARE	25300000	1001	nimd restarted.					
	interface mana		rts automatically o		switch outputs this message when the network quested by the restart vlan command.					
183	R7	SOFTWARE	27000001	0000	accountingd restarted.					
	restarts autom		is requested by th		itputs this message when the accounting program counting command.					

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text						
			I	Description							
184	R7	SOFTWARE	27000011	0000	System accounting recovered from congestion.						
	congestion.	login and logout confirmessage variable		l because the ac	ecounting event transmission has recovered from						
185	R7	SOFTWARE	2a001000	1001	httpd restarted.						
	restarts or a re	ogram (httpd) resi start is requested b of message variable	y the restart we		ssage when the HTTP program automatically eation command.						
186	R7	SOFTWARE	2d000001	1001	acllogd restarted.						
	program restar	[Action]									
187	R7	SOFTWARE	3000b041	1001	dhcp_snoopingd restarted.						
	None.  [Action] None.  187 R7 SOFTWARE 3000b041  The DHCP snooping program (dhcp_snoopingd) has res The switch outputs this message when the DHCP snoop [Explanation of message variables] None. [Action] None.		m restarts automatically.								
188	R7	SOFTWARE	32001001	1001	trackobjd restarted.						
	The switch ou	ect program (track tputs this message of message variable	when the track ob	ject program au	itomatically restarts.						

# 3.4.2 Event location = SOFTWARE (authentication VLAN) [OP-VAA]

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

*Table 3-11:* Authentication VLAN failure and event information when the event location is SOFTWARE

		_ ,						
#	Event level	Event location	Message ID	Added info.	Message text			
	10101	100411011		Highest 4 digits				
			I	Description				
1	Е3	SOFTWARE	20410002	1001	vaad connection closed <ipv4 address="">.</ipv4>			
	The switch ou disconnected in [Explanation of <ipv4 address<br="">[Action]</ipv4>	the authentication tputs this message for any reason, or v of message variable >: IPv4 address of ady running, the co	when the TCP cor when VAA stops. es] the authentication	en VAA and an authentication server is				
2	Е3	SOFTWARE	20410003	1001	vaad connection was established < ipv4 address > .			
	The switch ou [Explanation of	ed to the authentica tputs this message of message variable >: IPv4 address of	when a TCP conne	ection between	VAA and an authentication server is established.			
3	E3	SOFTWARE	20410004	1001	vaad Server protocol version is not supported.			
	The switch ou [Explanation of None. [Action]	support the versio tputs this message of message variable ersion of the authen	when the authentions]	cation server pr	tocol.  otocol version is any version other than 1.0.			
4	Е3	SOFTWARE	20410005	1001	vaad Since L2MacManager restarted, all MAC was deleted.			
	[Explanation of None. [Action]	of message variable	was deleted.  MAC addresses were deleted because L2MacManager closed a socket with VA					
5	Е3	SOFTWARE	20410006	1001	vaad all MAC address were cleared.			
All authentication-registered MAC addresses were deleted because all the TCP connections between VAz authentication servers were not established within the set number of retries.  [Explanation of message variables]  None.  [Action]  Make sure there is no network-related problem between the Switch and authentication server.								
6	Е3	SOFTWARE	20410007	1001	vaad The socket with L2MacManager was closed.			
	[Explanation of None. [Action]	tween VAA and L2 of message variable	es]		1			

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text		
				Description			
7	E3	SOFTWARE	20410012	1001	VAA information defined by the configuration file is ignored, since VAA function license is not given.		
	[Explanation None. [Action]	of message variable	es]		cause a license was not granted.		
8	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 function, and then set the VAA configuration again.						
9	E4	SOFTWARE	20410010	1001	vaad failed to make temporary file.		
	[Explanation None. [Action]	VAA-function tempof message variable	es]		A configuration again.		
10	E4	SOFTWARE	20410011	1001	vaad was not able to get enough memory.		
	[Explanation None. [Action]	of message variable	es]		nory capacity is insufficient.  A configuration again.		
11	E7	SOFTWARE	20410001	1001	vaad aborted.		
The VAA program (vaad) was forced to stop.  [Explanation of message variables]  None.  [Action]  The VAA program should restart automatically. If it does not restart or if restarts occur frequently, restart							
12	R7	SOFTWARE	20410001	1001	vaad restarted.		
	automatically [Explanation None. [Action]	gram (vaad) has res or a restart is reque of message variable	ested by the resta	rt vaa comm	essage when the VAA program restarts and.		

## 3.4.3 Event location = BSU [AX6700S]

The following table describes switch failure and event information when the event location is BSU.

Table 3-12: Switch failure and event information when the event location is BSU

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text		
				Desc	cription		
1	E3	BSU	01200174	1681	Failed in accumulated running time access to BSU.		
	[Explanatio None. [Action] There are no	n of message v	mmunication an	id normal oper	ration. However, the functionality for managing the total anctionality, replace the BSU.		
2	E3	BSU	23000162	1681	BSU inactivated because of SOP operation.		
		as placed in the		n response to a	n inactivate instruction from the system operation panel.		
3	Е3	BSU	23000166	1681	BSU activated because of SOP operation.		
	The BSU was released from the inactive state in response to an activate instruction from the system ope panel.  [Explanation of message variables]  None.  [Action]  None.						
4	E3	BSU	25070000	1681	BSU enabled administratively.		
		as released fro n of message v		state by using	the power enable configuration command.		
5	E3	BSU	25070001	1681	BSU board connected.		
	Insertion of a BSU board was detected.  [Explanation of message variables]  None.  [Action]  None.						
6	E3	BSU	25070003	1681	BSU activated administratively.		
		as released fro n of message v		tate by using t	he activate command.		

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text		
				Des	cription		
7	E3	BSU	25070100	1681	BSU disabled administratively.		
		as disabled by n of message v		power enak	le with a configuration command.		
8	E3	BSU	25070101	1681	BSU board notconnected.		
	[Explanatio None. [Action]	a BSU board n of message v	variables]	night not be fu	ally inserted. Insert the BSU.		
9	E3	BSU	25070103	1681	BSU inactivated administratively.		
		as placed in th n of message v		by using the i	nactivate command.		
10	E3	BSU	25070700	1681	BSU online dump command executed.		
		y dump initiate n of message v		the BSU dum	p (without BSU restart) command was completed.		
11	E3	BSU	25070701	1681	Can't execute dump command(other dump executing).		
	[Explanatio None. [Action]	n of message v	being performe /ariables] xecute the com				
12	E3	BSU	25070702	1681	BSU dump canceled.		
	The BSU dump was canceled.  [Explanation of message variables]  None.  [Action]  1. Use the show system command to check the amount of free space in the user area (the recommended amount is 30 MB). If there is not enough free space, delete dump files and then re-execute the command.  2. After other dump processing has been completed, re-execute the command.						
13	E3	BSU	25070800	1681	BSU offline dump command executed.		
		y dump initiate n of message v		the BSU dum	p (with BSU restart) command was completed.		

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text		
				Des	cription		
14	E3	BSU	25070900	1681	This BSU changed to active.		
	[Explanation None. [Action] 1. Check to	n of message v	-	ppropriate for	the failure that has occurred. n is required.		
15	E3	BSU	25070901	1681	This BSU changed from active.		
	This BSU was switched out of the active state.  [Explanation of message variables]  None.  [Action]  1. Check the BSU log, and take action appropriate for the failure that has occurred.  2. If a command was used to switch the BSU, no action is required.						
16	E3	BSU	25070a01	1681	BSU restarted because of its HDC update done.		
		as restarted be n of message v		(Hardware De	ependent Code) was updated.		
17	E3	BSU	25070a02	1681	HDC on BSU will updated.Do not pull out BSU.		
	[Explanation None. [Action]	n of message v	-	-	started because of its HDC update done.is		
18	Е3	BSU	25070b00	1681	BSU is not initialized because the number or location of BSU is different from "max-bsu" configuration.		
	The BSU was not restarted because the number of installed BSUs or the location of the slot where the BSU was installed was different from the max-bsu value in the configuration. Using the show system command, make that the value of Redundancy bsu-mode and the status of the BSU installed on the switch are consistent with configuration.  [Explanation of message variables]  None.  [Action]  None.						
19	E5	BSU	25070203	1681	Fatal error detected on standby BSU.		
	E5 BSU 25070203 1681 Fatal error detected on standby BSU.  An error occurred in the standby BSU.  [Explanation of message variables]  None.  [Action]  Check the BSU log, and take action appropriate for the failure that has occurred.						

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text			
			l .	Des	cription			
20	E5	BSU	25070204	1681	Fatal error detected on active BSU.			
	[Explanation None. [Action]	curred in the an of message value.	variables]	priate for the	failure that has occurred.			
21	Е6	BSU	25070200	1681	BSU restarted because its hardware failure detected during the self diagnosis.			
	A failure was detected during BSU self-diagnosis. The BSU will be restarted.  [Explanation of message variables]  None.  [Action]  After the restart, check the log information to determine if recovery from the failure was successful. If recovery was successful, operations can resume.  If recovery failed, replace the BSU.							
22	E6	BSU	25070201	1681	BSU stopped because its hardware failure detected.			
		n of message	etected in a BSU variables]	T. The BSU wi	ill stop.			
23	E6	BSU	25070400	1681	BSU restarted, but not recovered from hardware failure.			
	The BSU was restarted, but recovery from one of the following was not successful:  • Hardware fault  • Failure that was detected during self-diagnosis  • Health check error [Explanation of message variables] None. [Action] Replace the BSU.							
24	E6	BSU	25070500	1681	BSU not initialized because it is unavailable configuration.			
	Initialization failed because the configuration was unusable.  [Explanation of message variables]  None.  [Action]  Change the configuration of the following so that they are correct:  • Flow distribution pattern for filtering and the QoS functionality  • Distribution pattern for the maximum number of entries per switch							

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text			
		1	1	Des	cription			
25	Е6	BSU	25070501	1681	BSU not initialized because it is unknown BSU.			
	The BSU board could not be initialized because it was an unknown BSU board.  [Explanation of message variables]  None.  [Action]  1. The BSU board is not fully inserted. Insert the BSU board properly.  2. The BSU board is not supported by the software version. Check the BSU board type and the software version, and then either replace the BSU board or update the software.  3. The BSU board is not supported by the Switch. Replace the BSU board.							
26	E6	BSU	25070502	1681	BSU not initialized because it is mismatch BSU.			
	[Explanation None. [Action]	on of message v	_		rd as the other BSU boards.			
27	E6	BSU	25070902	1681	System cannot execute BSU swap. All BSU restarted.			
		tching of the E		e performed. A	All BSUs will be restarted.			
28	E6	BSU	25070903	1681	Health check error detected on standby BSU. This system (BCU1) is active.			
	An error occurred during a health check performed for the standby BSU from the active BCU1. The BCU1 system is the active system.  [Explanation of message variables]  None.  [Action]  1. Make sure that the recovery log message Health check error recovered, for this log data has been output. If this message has been output, no action is required.  2. The board might not be fully inserted. If this message is displayed immediately after the board is replaced, check that it is properly inserted.  3. If the problem cannot be corrected after the above actions see the Troubleshooting Guide and take appropriate							

3. If the problem cannot be corrected after the above actions, see the *Troubleshooting Guide* and take appropriate action.

29	E6	BSU	25070904	1681	Health check error detected on standby BSU. This system (BCU2) is active.

An error occurred during a health check performed for the standby BSU from the active BCU2. The BCU2 system is the active system.

[Explanation of message variables]

None.

#### [Action]

- 1. Make sure that the recovery log message Health check error recovered. for this log data has been output. If this message has been output, no action is required.
- 2. The board might not be fully inserted. If this message is displayed immediately after the board is replaced, check that it is properly inserted.
- 3. If the problem cannot be corrected after the above actions, see the *Troubleshooting Guide* and take appropriate action.

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text			
				Desc	cription			
30	E6	BSU	25070a00	1681	BSU restarted because of its HDC update failure.			
	The BSU was restarted because updating of the HDC (Hardware Dependent Code) failed.  [Explanation of message variables]  None.  [Action]  Replace the BSU.							
31	R6	BSU	25070002	1681	BSU initialized.			
		ns been initiali n of message v						
32	R6	BSU	25070200	1681	BSU recovered from hardware failure detected during the self diagnosis.			
		ns recovered fr n of message v		e failure detec	ted during BSU self-diagnosis.			
33	R6	BSU	25070903	1681	Standby BSU health check error recovered. This system (BCU1) is active.			
	system is the	om the error in e active system n of message v	n.	ck from the act	tive BCU1 for the standby BSU was successful. The BCU1			
34	R6	BSU	25070904	1681	Standby BSU health check error recovered. This system (BCU2) is active.			
	Recovery from the error in the health check from the active BCU2 for the standby BSU was successful. The BCU2 system is the active system.  [Explanation of message variables]  None.  [Action]  None.							
35	R6	BSU	25070905	1681	BSU event initialized as a result of changing this system from active to standby.			
	Past BSU event information was initialized because the Switch was switched from the active BCU to the standby BCU. This log data is displayed only for the standby BCU.  [Explanation of message variables]  None.  [Action]  None.							

## 3.4.4 Event location = NIF

The following table describes switch failure and event information when the event location is NIF.

Table 3-13: Switch failure and event information when the event location is NIF

#	Event level	Event location	Message ID	Added info. Highest 4	Message text			
	digits  Description							
1	E3	NIF	01200174	1240	Failed in accumulated running time access to NIF.			
	[Explanation None. [Action] There are no	of message var effects on communication	nunication and no	ormal operatior	n. me cannot be used. If you want to use this functionality,			
2	E3	NIF	23000163	1240	NIF inactivated because of SOP operation.			
		placed in the ir of message var		sponse to an in	activate instruction from the system operation panel.			
3	E3	NIF	23000167	1240	NIF activated because of SOP operation.			
		released from t of message var		n response to ar	activate instruction from the system operation panel.			
4	E3	NIF	25000000	1240	NIF enabled administratively.			
	shutdown co	released from to onfiguration cot of message var	nmand.	by using the po	ower enable OT no schedule-power-control			
5	E3	NIF	25000001	1240	NIF board connected.			
	Insertion of an NIF board was detected. [Explanation of message variables] None. [Action] None.							
6	E3	NIF	25000003	1240	NIF activated administratively.			
		released from to of message var		by using the ac	tivate command.			

#	Event level	Event location	Message ID	Added info.	Message text			
				Highest 4 digits				
	Description							
7	Е3	NIF	25000004	1240	Redundancy NIF Group < nif group no. >: This NIF changed to active.			
	[Explanation < nif group no [Action] 1. Check the	of message var o.>: NIF redund e NIF or port lo	lant group numbers	er 1 appropriate fo	dundant group.  or the failure that has occurred. rating status, no action is required.			
8	E3	NIF	25000100	1240	NIF disabled administratively.			
	The NIF was disabled by configuring no power enable or schedule-power-control shutdown with a configuration command.  [Explanation of message variables]  None.  [Action]  None.							
9	E3	NIF	25000101	1240	NIF board notconnected.			
	Removal of a NIF board was detected. [Explanation of message variables] None. [Action] The NIF board has been removed or has not been fully inserted. Insert the NIF.							
10	E3	NIF	25000103	1240	NIF inactivated administratively.			
		placed in the ir of message var		sing the inact	ivate command.			
11	E3	NIF	25000104	1240	Redundancy NIF Group < nif group no. >: This NIF changed from active.			
	The indicated NIF is no longer the active system of the redundant group.  [Explanation of message variables] <nif group="" no.="">: NIF redundant group number  [Action]  1. Check the NIF or port log, and take action appropriate for the failure that has occurred.  2. If a command or scheduling was used to change the operating status, no action is required.</nif>							
12	E3	NIF	25000700	1240	NIF online dump command executed.			
		dump initiated of message var		NIF dump (wi	chout NIF restart) command was completed.			

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text				
	Description								
13	Е3	NIF	25000701	1240	Can't execute dump command(other dump executing).				
	[Explanation None. [Action]	of message var	ing performed. iables] cute the comman	d.					
14	E3	NIF	25000702	1240	NIF dump canceled.				
	[Explanation None. [Action] 1. Use the s 30 MB).	If there is not en	iables] ommand to check nough free space,	delete dump fi	free space in the user area (the recommended amount is les and then re-execute the command.				
15	E3	NIF	25000800	1240	NIF offline dump command executed.				
		dump initiated of message var		NIF dump (wit	h NIF restart) command was completed.				
16	E3	NIF	25000a01	1240	NIF restarted because of its HDC update done.				
		restarted becau of message var		dware Depende	ent Code) was updated.				
17	E3	NIF	25000a02	1240	HDC on NIF will updated. Do not pull out NIF.				
	The HDC (Hardware Dependent Code) will be updated.  [Explanation of message variables]  None.  [Action]  Do not remove the NIF until the log message saying NIF restarted because of its HDC update done. is displayed.								
18	E3	NIF	25000a03	1240	HDC on NIF update required, but not updated by configuration.				
	nif-hdc re	start was con of message var	figured by using		updated, it was not updated because no system command.				

#	Event	Event	Message	Added	Message text		
	level	location	ID	info. Highest 4 digits			
				Descrip	tion		
19	E3	NIF	2523000c	1240	The nif does not support the specified shaper mode.		
1)	This NIF does not support the specified shaper mode.  [Explanation of message variables]  None.  [Action]  Review the shaper mode specified for the relevant NIF.						
20	E3	NIF	2523000d	1240	The nif does not support hierarchical shaper.		
	This NIF does not support the hierarchical shaper functionality.  [Explanation of message variables]  None.  [Action]  Delete the hierarchical shaper information from the configuration of the relevant NIF.						
21	Е6	NIF	25000200	1240	NIF restarted because its hardware failure detected during the self diagnosis.		
	[Explanation None. [Action] After the rest	of message var	-	determine if re	ecovery from the failure was successful. If recovery was		
22	E6	NIF	25000201	1240	NIF stopped because its hardware failure.		
		of message var	cted in a NIF. The	e NIF will stop			
23	Е6	NIF	25000400	1240	NIF restarted, but not recovered from hardware failure.		
	The NIF was restarted although the NIF had not recovered from the hardware failure or a failure detected during self-diagnosis.  [Explanation of message variables]  None.  [Action]  Replace the NIF.						
24	E6	NIF	25000500	1240	NIF not initialized because of its unknown NIF.		
	[Explanation None. [Action] 1. The NIF 2. The NIF then either	of message van board is not ful board is not sup er replace the N	lly inserted. Insert	the NIF board tware version. te the software.	properly. Check the NIF board type and the software version, and		

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text	
				Descrip	tion	
25	E6	NIF	25000a00	1240	NIF restarted because of its HDC update failure.	
	The NIF was restarted because updating of the HDC (Hardware Dependent Code) failed.  [Explanation of message variables]  None.  [Action]  Replace the NIF.					
26	R6	NIF	25000002	1240	NIF initialized.	
	The NIF has been initialized. [Explanation of message variables] None. [Action] None.					
27	R6	NIF	25000200	1240	NIF recovered from hardware failure detected during the self diagnosis.	
		recovered from of message var		lure detected du	aring NIF self-diagnosis.	
28	R6	NIF	25000900	1240	NIF event initialized as a result of changing this system from active to standby.	
	system. This		layed only for the		th was switched from the active system to the standby n.	

#### 3.5 Port

## 3.5.1 Event location = PORT

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

Table 3-14: Switch failure and event information when the event location is PORT

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text				
		I		Des	cription				
1	Е3	PORT	25011000	1350 1353	Port enabled administratively.				
	shutdown v		ration command		uring no shutdown Of no schedule-power-control				
2	E3	PORT	25011006	1350 1353	Port activated administratively.				
		is released from		ate by using the	ne activate command.				
3	Е3	PORT	25011100	1350 1353	Port disabled administratively.				
		s disabled by un of message v		own <b>or</b> sched	ule-power-control shutdown configuration command.				
4	E3	PORT	25011106	1350 1353	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	25011301	1350	Port does not support 10BASE-T half.				
	E3 PORT 25011301 1350 Port does not support 10BASE-T half.  10BASE-T half-duplex mode is not supported.  [Explanation of message variables]  None.  [Action]  Change the duplex mode setting in the port configuration to a value other than half. For details, see 10BASE-T, 100BASE-TX, and 1000BASE-T connection specifications in 15.4.1 Functionality in the manual Configuration Guide Vol. 1 For Version 11.7.								

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text				
	Description								
6	E3	PORT	25011302	1350	Port does not support 100BASE-TX half.				
	100BASE-T	ΓX half-duples	mode is not su	pported					

100BASE-TX half-duplex mode is not supported.

[Explanation of message variables]

None.

[Action]

Change the duplex mode setting in the port configuration to a value other than half. For details, see 10BASE-T, 100BASE-TX, and 1000BASE-T connection specifications in 15.4.1 Functionality in the manual Configuration Guide Vol. 1 For Version 11.7.

7 E3 **PORT** 25230002 1350 Port half duplex does not support traffic-shape rate

Port bandwidth control is not available for half-duplex lines.

[Explanation of message variables]

None.

[Action]

- 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 configuring no traffic-shape rate with a configuration command.

8 **PORT** 25230008 1350 E3 Port does not support traffic-shape rate feature.

Port bandwidth control is not supported.

[Explanation of message variables]

None.

[Action]

Check the operating conditions of port bandwidth control in Notes for the traffic-shape rate configuration command. After the check, do either of the following:

- 1. If port bandwidth control is to be used, replace the board with a board that supports port bandwidth control.
- 2. If port bandwidth control is not to be used, delete port bandwidth control by configuring no traffic-shape rate with a configuration command.

9	E3	PORT	25230009	1350	Port does not support < scheduling mode > scheduling
					mode.

The scheduling mode < scheduling mode > is not supported.

[Explanation of message variables]

<scheduling mode>: Scheduling mode specified in the qos-queue-group and qos-queue-list configuration commands

[Action]

Check the operating conditions of the scheduling mode in *Notes* for the gos-queue-list command. After the check, do either of the following:

- 1. If the scheduling mode < scheduling mode > indicated in the message is to be used, replace the board with a board that supports that scheduling mode.
- 2. If the scheduling mode < scheduling mode > indicated in the message is not to be used, use the qos-queue-group and qos-queue-list command to change the mode to the available scheduling mode.

#	Event level	Event location	Message ID	Added info.	Message text			
				4 digits				
				I	cription			
10	E3	PORT	2523000a	1350	Port does not support < number of queue > queue.			
	The number of queues < number of queues > is not supported.  [Explanation of message variables] <number of="" queues="">: Number of queues specified in the qos-queue-group and qos-queue-list configuration commands  [Action]  Check the operating conditions for the number of queues in Notes for the qos-queue-list command. After the check, do either of the following:  1. If the number of queues &lt; number of queues&gt; indicated in the message is to be used, replace the board with a board that supports that number of queues.  2. If the number of queues &lt; number of queues&gt; indicated in the message is not to be used, use the qos-queue-group or qos-queue-list command to change the value of the number of queue parameter.</number>							
11	E3	PORT	2523000b	1350	Unable to use traffic-shape rate feature because value exceeding setting range was specified.			
	[Explanatio None. [Action] Change the details about	n of message v	variables]	raffic-shap	outside the valid setting range was specified.  The rate command to a value within the setting range. For of the rate parameter of the traffic-shape rate			
12	Е3	PORT	2523000e	1350	Port does not support legacy shaper.			
	[Explanatio None. [Action]	n of message v	-		ty.  ation for the relevant NIF.			
13	Е3	PORT	2523000f	1350	The specified shaper port-rate exceeded the interface bandwidth.			
	Port bandwidth control is not available because a bandwidth exceeding the line speed was set for the port bandwidth control of the hierarchical shaper functionality specified for the port, or for the maximum bandwidth control for user bandwidth control.  [Explanation of message variables]  None.  [Action]  Change the port bandwidth control value or the maximum bandwidth control value for user bandwidth control to a value equal to or less than the line bandwidth.							
14	Е3	PORT	25230010	1350	The specified sum of shaper min-rate exceeded the interface bandwidth.			
	specified fo For IIrlq1 an [Explanatio None. [Action] Review and	r the port exce nd llrlq2 users n of message v change the mi	eds the line specthe maximum lyariables]	ed. bandwidth app	e total minimum bandwidth for the hierarchical shaper lies.  er and the maximum bandwidth for llrlq1 and llrlq2 users so to or less than the line bandwidth value.			

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text
				Desc	cription
15	ЕЗ	PORT	25230011	1350	Cannot configure all the shaper users, because there is an inconsistency in the number of shaper users or shaper nif parameters.

Some of the hierarchical shaper users specified for the port could not be configured.

The reasons are as follows:

- The number of users that can be specified for the specified port has been exceeded.
- A parameter required for the specified shaper mode has not been configured.

[Explanation of message variables]

None.

[Action]

Perform the following procedure:

- 1. Check the number of users specified in the shaper information in the configuration to make sure that the number of specified users does not exceed the capacity limit. If the capacity limit has been exceeded, revise the number of users to be within the capacity limit. If the capacity limit has not been exceeded, do the following:
- 2. Execute the show shaper command and check which users have not been configured for the port. Note that the users not displayed by the show shaper command are users that have not been configured for the port.
- 3. See the user-list information for these users and check if all parameters required for configuring these users for the port have been specified for the shaper mode of the specified port. For details about the parameters required for each shaper mode, see 6.4 Description of the hierarchical shaper in the manual Configuration Guide Vol. 2 For Version 11.7.

16	E3	PORT	25230012	1350	Some of the shaper user parameters reduced to their
					maximum values, because they exceeded the upper limit.

The values of some hierarchical shaper user parameters specified for the port were changed to the upper limit values. The reason for the change is that the values exceeded the range of values that can be specified for the applicable port. [Explanation of message variables]

None.

#### [Action]

Check if the following parameter values specified for the users that are configured for the port exceeded the upper limit for the shaper mode of the specified port. For details about the upper limit values, see the description of the following configuration commands:

- shaper port buffer command
- shaper user-list command with the weight parameter

17	E3	PORT	25230013	1350	Some of the shaper parameters reset to the default values,
					because they are not supported in the shaper mode of the target nif.

The values of some hierarchical shaper parameters specified for the port were changed to their initial values because the values cannot be specified for the port.

[Explanation of message variables]

None.

#### [Action]

Check if the following parameter values specified for the users configured for the port are values that can be specified for the shaper mode for the specified port. For details about the values that can be specified for each shaper mode, see the description of the scheduling mode for the shaper user-list configuration command.

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text		
				Des	cription		
18	E3	PORT	25230014	1350	Cannot specify the shaper parameters, because they are inconsistent with the shaper mode of the target nif.		
	were invalid [Explanatio None. [Action] The parame NIF. For der Configurati shaper shaper shaper shaper	ters listed belotatils, see 6.10 on Guide Vol. wgq-group user-list user-list user-list	wariables]  ow have configu  Correspondence 2 For Version I  rate-limit peak-rate llpq-peak-ra min-rate	ration condition between NIF	ose that were inconsistent with the configuration conditions one that were inconsistent with the configuration conditions one for each NIF type and shaper mode set for the specified models and send control functionality in the manual		
19	E3 PORT 25230015 1350 The nif does not support the specified shaper mode.  This NIF does not support the specified shaper mode.  [Explanation of message variables]  None.  [Action]						
20	E3	PORT	25230016	1350	The min-rate of all shaper users is not guaranteed because the specified llpq-peak-rate exceeded the min-rate.		
	because the minimum b [Explanatio None. [Action] To guarante	LLPQ bandw andwidth. n of message v	idth control valuvariables]  a bandwidth for	e for the user	rs set on the port and the default user cannot be guaranteed list of the hierarchical shaper set on the port exceeded the he LLPQ bandwidth control value to a value equal to or less		
21	E3	PORT	25230017	1350	Unable to use traffic-shape rate feature because its setting unit was an unjust value.		
	Port bandwidth control is not available because the units used for the setting are invalid.  [Explanation of message variables]  None.  [Action]  Change the units specified for the traffic-shape rate command to the setting units that can be specified details about specifiable setting units, see the explanation of the rate parameter of the traffic-shape rate configuration command.						
22	E4	PORT	25011001	1350 1353	Port up.		
	The port is up. [Explanation of message variables] None. [Action] None.						

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text		
Description							
23	E4	PORT	25011002	1350	Transceiver connected.		
A transceiver insertion was detected. [Explanation of message variables] None. [Action] None.							
24	E4	PORT	25011101	1350 1353	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 1000BASE-X or 10GBASE-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 an optical attenuator is used, 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.						
25	E4	PORT	25011102	1350	Transceiver notconnected.		
	A transceiver removal was detected.  [Explanation of message variables]  None.  [Action]  Insert the transceiver properly.						
26	E4	PORT	25011103	1350	Auto negotiation failed.		
	Auto negotiation has failed. [Explanation of message variables] None. [Action] 1. Check the auto negotiation status. 2. Execute the test interfaces command, and make sure that the switch has no problem. 3. If the switches and cables are normal, check the connected devices.						
27	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 reception at the corresponding port failed multiple times because of errors such as noise errors.  [Explanation of message variables]  None.  [Action]  1. Execute the test interfaces command, and make sure that the cables have no problem.  2. If the switches and cables are normal, check the connected devices.						

		I		I			
#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text		
	cription						
28	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 noise errors.  [Explanation of message variables]  None.  [Action]  1. Execute the test interfaces command, and make sure that the switches and cables have no errors.  2. If the switches and cables are normal, check the connected devices.						
29	E4	PORT	25011200	1350	Transceiver stopped because its hardware failure.		
	A transceiver failure was detected. The transceiver will stop.  [Explanation of message variables]  None.  [Action]  Replace the transceiver.						
30	E4	PORT	25011500	1350	Transceiver not supported.		
An unsupported transceiver was detected.  [Explanation of message variables]  None.  [Action]  Insert a supported transceiver.  When you are using an SFP transceiver for 10BASE-T, 100BASE-TX, or 1000BASE-T, so 10BASE-T/100BASE-TX/1000BASE-T in the manual Configuration Guide Vol. 1 For Versithe NIF supports the transceiver.							
31	E4	PORT	25100012	1350	NIF < <i>nif no.</i> > Port < <i>port no.</i> >:inactivated because of uni-directional link detection.		
	A port was deactivated because a unidirectional link failure was detected.  [Explanation of message variables] <nif no.="">: NIF number  <port no.="">: Port number  [Action]  1. Make sure that the IEEE802.3ah/OAM function is valid at the connection destination.  2. Execute the test interfaces command, and make sure that the switches and cables have no errors.  3. If the switches and cables are normal, check the connected devices.  After the above, activate the port by using the activate command.</port></nif>						
32	E4	PORT	25100013	1350	NIF < nif no. > Port < port no. >: inactivated because of loop detection.		
	A port was deactivated because a loop was detected.  [Explanation of message variables] <nif no.="">: NIF number  <port no.="">: Port number  [Action]  Check the network configuration.</port></nif>						

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text	
				Desc	cription	
33	E4	PORT	25100027	1350	NIF < nif no. > Port < port no. > :inactivated because of storm detection.	
	A port was deactivated because a storm was detected.  [Explanation of message variables] <nif no.="">: NIF number  <port no.="">: Port number [Action]  After recovery from the storm, use the activate command to change the port status to active.</port></nif>					
34	E4	PORT	25100028	1350	NIF <nif no.=""> Port <port no.="">:storm detected.</port></nif>	
	A storm was detected. [Explanation of message variables] <nif no.="">: NIF number <port no.="">: Port number [Action] None.</port></nif>					
35	E4	PORT	25100029	1350	NIF <nif no.=""> Port <port no.="">:storm recovered.</port></nif>	
The system has recovered from a storm.  [Explanation of message variables] <nif no.="">: NIF number  <port no.="">: Port number  [Action]  None.</port></nif>						

## 3.6 Optional modules

### 3.6.1 Event location = FAN

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

Table 3-15: Switch failure and event information when the event location is FAN

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text		
				Desc	ription		
1	Е3	FAN	01200174	1800	Failed in accumulated running time access to <i><fan no.="" unit=""></fan></i> .		
	Access to the total operating time for the fan unit <fan no.="" unit=""> failed.  [Explanation of message variables]  <fan no.="" unit="">: Number of the fan unit for which access to the total operating time failed (FAN1, FAN2, FAN3, or FAN4 is displayed)  [Action]  There are no effects on communication and normal operation. However, the functionality for managing the total operating time cannot be used. If you want to use this function, replace the fan unit.</fan></fan>						
2	E8	FAN	00000001	1800	Error detected on <fan no.="">, Replace <fan no.="" unit="">.</fan></fan>		
	A failure occurred in the fan <fan no.="">.  [Explanation of message variables]  <fan no.="">: Number of the fan in which the failure occurred (one of FAN1 (1), FAN1 (2), FAN1 (3), FAN2 (4), FAN2 (5), FAN2 (6), FAN3 (7), FAN3 (8), FAN3 (9), FAN4 (10), FAN4 (11), and FAN4 (12) is displayed)  <fan no.="" unit="">: Number of the fan unit in which the failure occurred (FAN1, FAN2, FAN3, or FAN4 is displayed)  A message is displayed for each fan unit as follows.  Example 1: When a failure occurs in the fan FAN1 (1):  Error detected on FAN1(1), Replace FAN1.  Example 2: When a failure occurs in the fans FAN1 (1) and FAN2 (1):  Error detected on FAN1(1), Replace FAN1.  Error detected on FAN2(1), Replace FAN2.</fan></fan></fan>						
	For details about the fan locations, see <i>Table 9-5 Correspondence between fan numbers, operation log data, and chassis</i> in the manual <i>Operation Command Reference Vol. 1 For Version 11.7</i> .  [Action]  Replace the fan unit <fan no.="" unit="">.</fan>						

#		ent ⁄el	Event location	Message ID	Added info. Highest4 digits	Message text
					Desci	ription
3	F	28	FAN	00000002	1800	<pre><fan no.=""> stopped. Replace <fan no.="" unit=""> immediately.</fan></fan></pre>

The fan < fan no. > stopped.

[Explanation of message variables]

<fan no>:: Number of the fan in which the failure occurred (two or more of FAN1 (1), FAN1 (2), FAN1 (3), FAN2 (4),
FAN2 (5), FAN2 (6), FAN3 (7), FAN3 (8), FAN3 (9), FAN4 (10), FAN4 (11), and FAN4 (12) are displayed)

<fan unit no.>: Number of the fan unit in which the failure occurred (FAN1, FAN2, FAN3, or FAN4 is displayed)
A message is displayed for each fan unit as follows.

Example 1: When a failure occurs in the fans FAN1 (1) and FAN2 (2):

FAN1(1), FAN1(2) stopped. Replace FAN1 immediately.

Example 2: When a failure occurs in the fans FAN1(1), FAN2(2), FAN1(3), FAN2(4), and FAN2(5):

FAN1(1), FAN1(2), FAN1(3) stopped. Replace FAN1 immediately.

FAN2(4), FAN2(5) stopped. Replace FAN2 immediately.

For details about the fan locations, see *Table 9-5 Correspondence between fan numbers, operation log data, and chassis* in the manual *Operation Command Reference Vol. 1 For Version 11.7*.

[Action]

Immediately replace the fan unit < fan unit no.>.

4 E8 FAN 00000003 1800 < fan unit no. > is notconnect.

The fan unit < fan unit no. > is not installed.

[Explanation of message variables]

<fan unit no.>: Number of the fan unit that is not installed (FAN1, FAN2, FAN3, or FAN4 is displayed)

A message is displayed for each fan unit as follows.

Example 1: When the fan unit FAN1 is not installed:

FAN1 is notconnect.

Example 2: When the fan units FAN1 and FAN2 are not installed:

FAN1 is notconnect.

FAN2 is notconnect.

For details about the fan locations, see *Table 9-5 Correspondence between fan numbers, operation log data, and chassis* in the manual *Operation Command Reference Vol. 1 For Version 11.7*.

#### [Action]

- 1. If the fan unit is being replaced, continue the replacement process.
- 2. If no replacement is being made, check the installation status. If the fan unit is not installed, install it.
- 3. If the fan has been installed, it might not be fully inserted. Remove the fan unit and then install it again.
- 4. If the problem cannot be corrected by taking the above action, replace the fan unit.

5	E8	FAN	00000004	1800	Failed in speed change of <i><fan no.="" unit=""></fan></i> .
---	----	-----	----------	------	---------------------------------------------------------------

An attempt to change the fan rotation speed of <fan unit no. > failed.

[Explanation of message variables]

<fan unit no.>: Number of the fan unit for which the attempt to change the speed failed (FAN1, FAN2, FAN3, or FAN4
is displayed)

A message is displayed for each fan unit as follows.

Example 1: When an attempt to change the speed of FAN1 failed:

Failed in speed change of FAN1.

Example 2: When an attempt to change the speed of FAN1 and FAN2 failed:

Failed in speed change of FAN1.

Failed in speed change of FAN2.

For details about the fan locations, see *Table 9-5 Correspondence between fan numbers, operation log data, and chassis* in the manual *Operation Command Reference Vol. 1 For Version 11.7*.

[Action]

Replace the fan unit <fan unit no.>.

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text		
				Desci	ription		
6	Е9	FAN	00000022	1800	Fan unit is down.Replace fan and restart the device.		
	[Explanation None. [Action]						
7	R8	FAN	00000001	1800	<pre><fan no.="" unit=""> is normal.</fan></pre>		
	[Explanation < fan unit no displayed) A message is Example 1: V FAN1 is	tof message va >: Number of s displayed for When the fan u normal. When the fan u normal.	_	which failure so follows.			

FAN2 is normal.

For details about the fan locations, see *Table 9-5 Correspondence between fan numbers, operation log data, and chassis* in the manual *Operation Command Reference Vol. 1 For Version 11.7*.

[Action]

None.

## 3.6.2 Event location = PS

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

Table 3-16: Switch failure and event information when the event location is PS

1	#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text
					Desci	ription
	1	E3	PS	01200174	2200	Failed in accumulated running time access to <i><ps></ps></i> .
			•		•	

Access to the total operating time of the power supply failed.

[Explanation of message variables]

<ps>: Power supply for which access to the total operating time failed (PS1, PS2, PS3, PS4, PS5, PS6, PS7, or PS8 is displayed)

[Action]

There are no effects on communication and normal operation. However, the functionality for managing the total operating time cannot be used. If you want to use this functionality, replace the power supply.

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text
				Desc	ription
2	E8	PS	00000001	2200	<ps> is power off. <ps> is notconnect.</ps></ps>
			. 00 771 1:		

The displayed power supply is off. The displayed power supply has not been installed.

If there is no power supply whose power is off, <ps> is notconnect. is displayed.

If there is no power supply that has not been installed, <ps> is power off. is displayed.

Only when there are a power supply that has been turned off and a power supply that has not been installed, < ps > is power off. < ps > is notconnect. is displayed.

[Explanation of message variables]

<ps>: Power supply that is off or that has not been installed (PS1, PS2, PS3, PS4, PS5, PS6, PS7, or PS8 is displayed)
The following shows an example of the log message displayed when an AX6304S (AC model) is used.

Example 1: When PS1 is off:

PS1 is power off.

Example 2: When PS2 is not installed:

PS2 is notconnect.

Example 3: When PS1 is off and PS3 and PS4 are not installed:

PS1 is power off. PS3, PS4 is notconnect.

#### [Action]

- 1. Check the power switch, and turn it on.
- 2. Check the power cable connection and the power source, and then connect them properly.
- 3. Check the status of the power supply.
- 4. If the problem cannot be corrected after the above actions, replace the power supply.

3	E8	PS	00000102	2200	Power unit isn't redundantly mounted.
---	----	----	----------	------	---------------------------------------

The power supply is not in a redundant configuration.

[Explanation of message variables]

None.

[Action]

Check the status of the power supply. If the power supply is not in a redundant configuration, configure no power redundancy-mode with a configuration command.

4	E9	PS	00000201	2200	Power supply unit for AC and for DC is consolidated.
---	----	----	----------	------	------------------------------------------------------

AC and DC power supplies are installed together.

[Explanation of message variables]

None.

[Action]

Install only AC power units or DC power supplies.

5	R8	PS	00000001	2200	<ps> is normal.</ps>

The displayed power supply is operating normally. When the power supply is normal, this message is also output during startup of a BCU, CSU, or MSU.

[Explanation of message variables]

<ps>: Power supply in a normal state (PS1, PS2, PS3, PS4, PS5, PS6, PS7, or PS8 is displayed)

The following shows an example of the log message displayed when an AX6304S (AC model) is used.

Example: When PS1, PS2, PS3, and PS4 are in a normal state:

PS1, PS2, PS3, PS4 is normal.

[Action]

None.

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text
				Desci	ription
6	R8	PS	00000102	2200	Power unit is mounted redundantly or mode changed.
		upply is operat of message va	2	. Alternatively	the operation mode has changed.

# 3.7 Basic control unit [AX6700S]

## 3.7.1 Event location = BCU

The following table describes switch failure and event information when the event location is BCU.

Table 3-17: Switch failure and event information when the event location is BCU

#	Event level	Event location	Message ID	Added info.	Message text	
	10101	100411011		Highest 4 digits		
				Descrip	otion	
1	E3	BCU	00020106	2301	The temperature of BCU reached the warning level ( <temperature> degree).</temperature>	
	configuration [Explanation <temperature [action]="" hardware<="" td="" the=""><td>command. of message var &gt;&gt;: Temperatur temperature ha</td><td>riables] e of the switch (</td><td>degrees Celsiu</td><td>cified by the system temperature-warning-level s) ature. Check the environment around the switch (such as by heat sources).</td></temperature>	command. of message var >>: Temperatur temperature ha	riables] e of the switch (	degrees Celsiu	cified by the system temperature-warning-level s) ature. Check the environment around the switch (such as by heat sources).	
2	E3	BCU	00020107	2301	The temperature of BCU came down from the warning level.	
The hardware temperature dropped three degrees or more below the temperature specified by the sy temperature-warning-level configuration command.  [Explanation of message variables]  None.  [Action]  None.					below the temperature specified by the system	
3	E3	BCU	01200160	2314	Standby system inactivated because of SOP operation.	
	operation pan			ve state in resp	onse to an inactivate instruction from the system	
4	E3	BCU	01200164	2314	Standby system activated because of SOP operation.	
	The standby system was released from the inactive state in response to an activate instruction from the system operation panel.  [Explanation of message variables]  None.  [Action]  None.					
5	E3	BCU	01200174	2301	Failed in accumulated running time access to <i><bcu></bcu></i> .	
	E3 BCU 01200174 2301 Failed in accumulated running time access to Access to the total operating time for the BCU failed. [Explanation of message variables]    Secular in Securar in Secular in Secular in Secular in Secular in Secular in Securar in Secular in Securar in Secular in Secular in Secular in					

#	Event level	Event location	Message ID	Added info.	Message text			
				Highest 4 digits				
			l	Descri	otion			
6	E3	BCU	01200180	2301	Fan speed is high because temperature of BCU hardware exceeded tolerance level of high temperature.			
	[Explanation None. [Action]	of message var	riables]		mperature exceeded the allowable range.  d heat sources around the switches.			
7	E3	BCU	01200181	2301	Fan speed is normal because temperature of BCU hardware returned to normal level.			
		ned to regular s of message van		e hardware ten	nperature returned to normal.			
8	E3	BCU	01200182	2301	Recovery due to the failure was restrained.			
	[Explanation None. [Action] Use the show problem is in If recovery of	of message values of logging or a dicated in the I f the active sys	show logging og, take appropr tem is suppresse	command with iate action accord, startup (reco	the standby parameter specified to check the log. If a ording to the error message.  overy) of the standby system is also suppressed. In this e a failure has not occurred in the standby system.			
9	E3	BCU	01300408	2314	This system (BCU1) changed from standby to active.BCU2 is standby.			
	This message the Reset but	The BCU1 system was switched from the standby to the active state. BCU2 is the standby system.  This message is displayed when system switching occurs due to a fatal error in the former active BSU, or by clicking the Reset button, or by pressing the ACH switch.  [Explanation of message variables]						

- 1. There is no problem if the system switching occurred because the Reset button was clicked or the ACH switch
- 2. In all other cases, execute the show logging command with the standby parameter specified, check the message regarding the failure that occurred in the standby system, and then take action appropriate for the message. If the new standby system has not started yet, wait a while before checking for messages.

#	Event level	Event location	Message	Added info.	Message text			
	level location ID Hillo. Highest 4 digits							
				Descri	otion			
10	Е3	BCU	01300409	2314	This system (BCU2) changed from standby to active.BCU1 is standby.			
	This message the Reset butt [Explanation None. [Action]  1. There is r was press 2. In all other message research.	is displayed w ton, or by press of message van no problem if the sed. er cases, execuregarding the fa	then system switch hen system switch he system switch te the show logarilure that occurr	ching occurs duritch.  uing occurred b	tive state. BCU1 is the standby system.  The to a fatal error in the former active system, by clicking secause the Reset button was clicked or the ACH switch and with the standby parameter specified, check the liby system, and then take action appropriate for the wait a while before checking for messages.			
11	E3	BCU	01300410	2314	This system (BCU1) changed from active to standby.BCU2 is active.			
	This message [Explanation None. [Action] Use the show that occurred	e is displayed w of message van logging com in the standby	when system swith riables]	ching occurs b tandby param take action ap	dby state. BCU2 is the active system. ecause of a fatal error in the former active system. eteer specified to check the message regarding the failure propriate for the message. If the new standby system has			
12	Е3	BCU	01300411	2314	This system (BCU2) changed from active to standby.BCU1 is active.			
	This message [Explanation None. [Action] Use the show that occurred	is displayed w of message van logging com in the standby	when system swith riables]	ching occurs b tandby param take action ap	dby state. BCU1 is the active system. ecause of a fatal error in the former active system.  eteer specified to check the message regarding the failure propriate for the message. If the new standby system has			
13	E3	BCU	01300412	2314	System status changed from duplex to simplex.			
		perating status of message val		uplex configur	ation to single configuration.			
14	E3	BCU	01300413	2314	System status changed from simplex to duplex.			
		perating status of message var		ngle configura	tion to duplex configuration.			

#	Event	Event	Message	Added info.	Message text		
	level	location	ID	Highest 4 digits			
				Descri	otion		
15	E3	BCU	01300414	2314	Time is matched at the time of active system.		
		matched to the		ve system. Thi	s message is displayed only for the standby system.		
16	Е3	BCU	01300417	2314	This system (BCU1) changed from standby to active.BCU2 is standby.		
	The BCU1 system was switched from the standby to the active state. BCU2 is the standby system.  This message is displayed when system switching occurs because the reload command with the active parameter specified or the redundancy force-switchover command has been executed.  [Explanation of message variables]  None.  [Action]  None.						
17	E3	BCU	01300418	2314	This system (BCU2) changed from standby to active.BCU1 is standby.		
	This message specified or the	is displayed w	hen system switc y force-switc	hing occurs be	tive state. BCU1 is the standby system. cause the reload command with the active parameter and has been executed.		
18	E3	BCU	01300419	2314	This system (BCU1) changed from active to standby.BCU2 is active.		
	The BCU1 system was switched from the active to the standby state. BCU2 is the active system.  This message is displayed when system switching occurs because the reload command with the active parameter specified or the redundancy force-switchover command has been executed.  [Explanation of message variables]  None.  [Action]  None.						
19	E3	BCU	01300420	2314	This system (BCU2) changed from active to standby.BCU1 is active.		
	This message specified or the	is displayed w	hen system switc y force-switc	hing occurs be	dby state. BCU1 is the active system. cause the reload command with the active parameter and has been executed.		

#	Event level	Event location	Message ID	Added info. Highest 4	Message text				
	digits								
	Description								
20	Е3	BCU	01300421	2314	This system (BCU1) will be changed from active to standby and restarted because of ACH SWITCH pressed.				
	pressed.	stem will be swoof message van		e active to the s	standby state and restarted because the ACH switch was				
21	Е3	BCU	01300422	2314	This system (BCU2) will be changed from active to standby and restarted because of ACH SWITCH pressed.				
	pressed.	stem will be swood of message val		active to the s	tandby state and restarted because the ACH switch was				
22	E3	BCU	01300442	2314	Partial error detected on other system. Replace unit having error. This system (BCU1) is active.				
	active system [Explanation None. [Action] Use the show	of message var logging com	riables]	tandby param	part in which a failure occurred. The BCU1 system is the neter specified to check the message regarding the partial ction appropriate for the message.				
23	ЕЗ	BCU	01300443	2314	Partial error detected on other system. Replace unit.having error. This system (BCU2) is active.				
	A partial failure occurred in the standby BCU. Replace the part in which a failure occurred. The BCU2 system i active system.  [Explanation of message variables]  None.  [Action]  Use the show logging command with the standby parameter specified to check the message regarding the parameter that occurred in the standby system, and then take action appropriate for the message.								
24	E3	BCU	01300457	2314	This system (BCU1) restarted with system changed.				
	The BCU1 system will be restarted because system switching occurred.  This message is displayed when the configuration was inconsistent, the license key was inconsistent, or a dual configuration had not been set up and system switching occurs due to one of the following causes: A fatal error occurred, the Reset button was clicked, the ACH switch was pressed, the active parameter was specified in the reload command, or the active parameter was specified in the ppupdate command.  [Explanation of message variables]  None.  [Action]								
	None.				_				

	T	Т	T	T			
#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text		
				Descri	ption		
25	E3	BCU	01300458	2314	This system (BCU2) restarted with system changed.		
	The BCU2 system will be restarted because system switching occurred.  This message is displayed when the configuration was inconsistent, the license key was inconsistent, or a dual configuration had not been set up and system switching occurs due to one of the following causes: A fatal error occurred, the Reset button was clicked, the ACH switch was pressed, the active parameter was specified in the reload command, or the active parameter was specified in the ppupdate command.  [Explanation of message variables]  None.  [Action]  None.						
26	Е3	BCU	01300466	2314	Other system stopped due to temperature trouble. This system (BCU1) is active.		
	[Explanation None. [Action] 1. Check an	of message varied improve the	riables] environment suc	h as ventilation	r. The BCU1 system is the active system.  In and heat sources around the switches.  In unit containing the faulty fan.		
27	Е3	BCU	01300467	2314	Other system stopped due to temperature trouble. This system (BCU1) is standby.		
	[Explanation None. [Action] 1. Check an	of message var	riables] environment suc	h as ventilation	The BCU1 system is the standby system.  In and heat sources around the switches.  In unit containing the faulty fan.		
28	E3	BCU	01300468	2314	Other system stopped due to temperature trouble. This system (BCU2) is active.		
	The standby system stopped because of a temperature error. The BCU2 system is the active system.  [Explanation of message variables]  None.  [Action]  1. Check and improve the environment such as ventilation and heat sources around the switches.  2. Check the fans. If a failure has occurred, replace the fan unit containing the faulty fan.						
29	E3	BCU	01300469	2314	Other system stopped due to temperature trouble. This system (BCU2) is standby.		
	The active system stopped because of a temperature error. The BCU2 system is the standby system.  [Explanation of message variables]  None.  [Action]  1. Check and improve the environment such as ventilation and heat sources around the switches.  2. Check the fans. If a failure has occurred, replace the fan unit containing the faulty fan.						

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text			
		1		Descri	ption			
30	E3	BCU	01300470	2314	Standby system inactivated because BCU hardware error detected. This system (BCU1) is active.			
	[Explanation None. [Action]	system was dear of message van		a hardware fai	lure was detected. The BCU1 system is the active system.			
31	Е3	BCU	01300471	2314	Standby system inactivated because BCU hardware error detected. This system (BCU2) is active.			
	[Explanation None. [Action]	system was dead of message values standby BCU.		a hardware fai	lure was detected. The BCU2 system is the active system.			
32	Е3	BCU	01300475	2314	Standby system restarted because BCU hardware error detected. This system (BCU1) is active.			
	The standby system was restarted because a hardware failure was detected. The BCU1 system is the active system.  [Explanation of message variables]  None.  [Action]  Replace the standby BCU.							
33	Е3	BCU	01300476	2314	Standby system restarted because BCU hardware error detected. This system (BCU2) is active.			
	[Explanation None. [Action]	system was rest of message van		hardware failu	re was detected. The BCU2 system is the active system.			
34	E3	BCU	01300477	2314	Standby system inactivated administratively.			
		system was pla of message var		ve state by using	ng the inactivate command.			
35	E3	BCU	01300478	2314	Standby system activated administratively.			
	-	system was pla of message van		state by using	the activate command.			

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text		
				Descri	otion		
36	E3	BCU	01c00200	2301	BCU restarted because of its HDC update done.		
	The BCU was restarted because the HDC (Hardware Dependent Code) was updated.  [Explanation of message variables]  None.  [Action]  None.						
37	E5	BCU	01300430	2314	System cannot execute BCU force-switchover. This system (BCU1) is active.		
	System switching could not be performed. The BCU1 system is the active system.  [Explanation of message variables]  None.  [Action]  Replace both the standby and active BCUs.						
38	E5	BCU	01300432	2314	System cannot execute BCU force-switchover. This system (BCU2) is active.		
	System switching could not be performed. The BCU2 system is the active system.  [Explanation of message variables]  None.  [Action]  Replace both the standby and active BCUs.						
39	E5	BCU	01300434	2314	Health check error detected on other system. This system (BCU1) is active.		

An error occurred during a health check performed for the standby BCU2 from the active BCU1. The BCU1 system is the active system.

[Explanation of message variables]

None.

- 1. Execute the show logging command and make sure that the recovery log message Health check error recovered. for this log data has been output. If this message has been output, no action is required.
- 2. If it has not been output, execute the show logging command with the standby parameter specified, check the message regarding the failure that occurred in the standby system, and then take action appropriate for the message.
- 3. If no failure has occurred in the standby system, the board might not be fully inserted. If this message is displayed immediately after the board is replaced, check that it is properly inserted.
- 4. If the problem cannot be corrected after the above actions, replace both the active and standby BCUs.

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text
				Descri	ption
40	E5	BCU	01300435	2314	Health check error detected on other system. This system (BCU1) is standby.

An error occurred during a health check performed for the standby BCU1 from the active BCU2. The BCU1 system is the standby system.

[Explanation of message variables]

None.

### [Action]

- 1. Execute the show logging command with the standby parameter specified and make sure that the recovery log message Health check error recovered. for this log data has been output. If this message has been output, no action is required.
- 2. If it has not been output, execute the show logging command, check the message regarding the failure that occurred in the active system, and then take action appropriate for the message.
- 3. If no failure has occurred in the active system, the board might not be fully inserted. If this message is displayed immediately after the board is replaced, check that it is properly inserted.
- 4. If the problem cannot be corrected after the above actions, replace both the active and standby BCUs.

41	E5	BCU	01300436	2314	Health check error detected on other system. This
					system (BCU2) is active.

An error occurred during a health check performed for the standby BCU1 from the active BCU2. The BCU2 system is the active system.

[Explanation of message variables]

None.

### [Action]

- 1. Execute the show logging command and make sure that the recovery log message Health check error recovered. for this log data has been output. If this message has been output, no action is required.
- 2. If it has not been output, execute the show logging command with the standby parameter specified, check the message regarding the failure that occurred in the standby system, and then take action appropriate for the message.
- 3. If no failure has occurred in the standby system, the board might not be fully inserted. If this message is displayed immediately after the board is replaced, check that it is properly inserted.
- 4. If the problem cannot be corrected after the above actions, replace both the active and standby BCUs.

42	E5	BCU	01300437	2314	Health check error detected on other system. This
					system (BCU2) is standby.

An error occurred during a health check performed for the standby BCU2 from the active BCU1. The BCU2 system is the standby system.

[Explanation of message variables]

None.

- 1. Execute the show logging command with the standby parameter specified and make sure that the recovery log message Health check error recovered. for this log data has been output. If this message has been output, no action is required.
- 2. If it has not been output, execute the show logging command, check the message regarding the failure that occurred in the active system, and then take action appropriate for the message.
- 3. If no failure has occurred in the active system, the board might not be fully inserted. If this message is displayed immediately after the board is replaced, check that it is properly inserted.
- 4. If the problem cannot be corrected after the above actions, replace both the active and standby BCUs.

		I		ı	T	
#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text	
				Descri	ption	
43	E5	BCU	01300438	2314	Fatal error detected on other system. This system (BCU1) is active.	
	[Explanation None. [Action] After the stan	of message vari dby system has	riables]	te the show lo	em is the active system.  egging command with the standby parameter specified, iate for the error message.	
44	E5	BCU	01300439	2314	Fatal error detected on other system. This system (BCU1) is standby.	
	[Explanation None. [Action] After the activ	of message var ve system has r	riables]	e the show log	n is the standby system.  gging command, check the failure explanation, and then	
45	E5	BCU	01300440	2314	Fatal error detected on other system. This system (BCU2) is active.	
	[Explanation None. [Action] After the stan	of message vari dby system has	riables]	te the show lo	em is the active system.  egging command with the standby parameter specified, iate for the error message.	
46	E5	BCU	01300441	2314	Fatal error detected on other system. This system (BCU2) is standby.	
	A fatal error occurred in the active BCU. The BCU2 system is the standby system.  [Explanation of message variables]  None.  [Action]  After the active system has restarted, execute the show logging command, check the failure explanation, and then take action appropriate for the error message.					
47	E5	BCU	25051911	2314	Health check error detected on NIF < nif no. >. This system (BCU1) is active.	
	active system [Explanation <nif no.="">: NI [Action] After the stan</nif>	of message var IF number dby BCU2 has	riables]	te the show lo	NIF from the standby BCU2. The BCU1 system is the gging command with the standby parameter specified, iate for the error message.	

#	Event level	Event location	Message ID	Added info.	Message text		
				Highest 4 digits			
		1		Descri	otion		
48	E5	BCU	25051912	2314	Health check error detected on NIF < nif no. >. This system (BCU2) is active.		
	active system [Explanation <nif no.="">: Ni [Action] After the stan</nif>	of message var IF number dby BCU1 has	riables]	e the show lo	NIF from the standby BCU1. The BCU2 system is the gging command with the standby parameter specified, iate for the error message.		
49	E5	BCU	25051913	2314	Health check error detected on active BSU < bsu no. >. This system (BCU1) is active.		
	An error occurred during a health check performed for the active BSU from the standby BCU2. The BCU1 system is the active system.  [Explanation of message variables]           After the standby BCU2 has restarted, execute the show logging command with the standby parameter specified, check the failure explanation, and then take action appropriate for the error message.						
50	E5	BCU	25051914	2314	Health check error detected on active BSU < bsu no. >. This system (BCU2) is active.		
	An error occurred during a health check performed for the active BSU from the standby BCU1. The BCU2 system is the active system.  [Explanation of message variables] <a href="mailto:bsu no.">bsu no.</a> : BSU number  [Action]  After the standby BCU1 has restarted, execute the show logging command with the standby parameter specified, check the failure explanation, and then take action appropriate for the error message.						
51	E5	BCU	25051915	2314	Health check error detected on standby BSU < bsu no. >. This system (BCU1) is active.		
	An error occurred during a health check performed for the standby BSU from the standby BCU2. The BCU1 system is the active system.  [Explanation of message variables] <a href="mailto:bsu no.">bsu no.</a> : BSU number  [Action]  After the standby BCU2 has restarted, execute the show logging command with the standby parameter specified, check the failure explanation, and then take action appropriate for the error message.						
52	E5	BCU	25051916	2314	Health check error detected on standby BSU < bsu no. >. This system (BCU2) is active.		
	is the active s [Explanation <bsu no.="">: B [Action] After the stan</bsu>	system. of message var SU number dby BCU1 has	riables]	e the show lo	tandby BSU from the standby BCU1. The BCU2 system gging command with the standby parameter specified, iate for the error message.		

#	Event level	Event location	Message ID	Added info.	Message text	
				Highest 4 digits		
				Descri	ption	
53	E7	BCU	00020102	2301	BCU hardware exceeded tolerance level of low temperature(2 degree). Check room temperature.	
	[Explanation None. [Action] 1. Check an	of message vard d improve the	riables] environment suc	h as the room	mperature range (2 degrees Celsius or lower).  temperature around the switches. n unit containing the faulty fan.	
54	E7	BCU	00020103	2301	BCU hardware exceeded tolerance level of high temperature (43 degree). Check that room temperature and the fan is operating normally.	
	[Explanation None. [Action] 1. Check an	of message va	riables] environment suc	h as ventilatio	rature range (43 degrees Celsius or higher).  n and heat sources around the switches. n unit containing the faulty fan.	
55	E7	BCU	00020104	2301	BCU hardware is becoming high temperature (58 degree). immediately, and check that room temperature and the fan is operating normally.	
	[Explanation None. [Action] 1. A malfun and heat	of message va ction might oc sources around	riables]  cur in the switch the switches.	. Immediately	ture value that affects operation of the switch.  check and improve the environment such as ventilation n unit containing the faulty fan.	
56	E8	BCU	01200184	2301	BCU not initialized because it is unknown BCU.	
	The BCS board could not be initialized because it was an unknown BCS board.  [Explanation of message variables]  None.  [Action]  1. The BCU board is not fully inserted. Insert the BCU properly.  2. The BCU board is not supported by the software version. Check the BCU board type and the software version, and then either replace the BCU board or update the software.  3. The BCU board is not supported by the Switch. Replace the BCU board.					
57	Е9	BCU	00020105	2301	BCU hardware is becoming high temperature which give damage to this system. (65 degree)	
	operation. [Explanation None. [Action] 1. Check an	of message va	riables] environment suc	h as ventilatio	n and heat sources around the switches. n unit containing the faulty fan.	

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text
				Descri	otion
58	Е9	BCU	01200173 01300474 2b061200	2314	System restarted because BCU hardware error detected.
		of message var	cause a hardwar riables]	e failure was d	etected.
59	Е9	BCU	01300472	2314	This system (BCU1) inactivated because BCU hardware error detected.
		of message var		a hardware fail	ure was detected.
60	Е9	BCU	01300473	2314	This system (BCU2) inactivated because BCU hardware error detected.
		of message var		a hardware fail	ure was detected.
61	E9	BCU	01c00100	2301	BCU restarted because of its HDC update failure.
		of message var		the HDC (Har	dware Dependent Code) failed.
62	E9	BCU	25051905	2314	Health check error detected on active BSU < bsu no. >. This system (BCU1) is standby.
	is the standby	system. of message var	-	formed for the	active BSU from the standby BCU1. The BCU1 system

<br/>
<br/>
bsu no.>: BSU number

- 1. The board might not be fully inserted. If this message is displayed immediately after the board is replaced, check that it is properly inserted.
- 2. If the problem cannot be corrected after the above action, see the *Troubleshooting Guide* and take appropriate action.

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text
				Descri	otion
63	Е9	BCU	25051906	2314	Health check error detected on active BSU <i><bsu no.=""></bsu></i> . This system (BCU2) is standby.
	is the standby [Explanation   Explanation   Standard   Standard	y system. of message var SSU number d might not be foroperly inserte	riables] fully inserted. If	this message is	displayed immediately after the board is replaced, check on, see the <i>Troubleshooting Guide</i> and take appropriate
64	Е9	BCU	25051907	2314	Health check error detected on standby BSU < bsu no. >. This system (BCU1) is standby.
	is the standby [Explanation   Explanation   Standard   Standard	y system. of message var SSU number d might not be to	riables] fully inserted. If a	this message is	tandby BSU from the standby BCU1. The BCU1 system displayed immediately after the board is replaced, check on, see the <i>Troubleshooting Guide</i> and take appropriate
65	Е9	BCU	25051908	2314	Health check error detected on standby BSU < bsu no. >. This system (BCU2) is standby.
	is the standby [Explanation   Explanation   Standard   Standard	y system. of message val SSU number d might not be to	riables] fully inserted. If itself.	this message is	tandby BSU from the standby BCU2. The BCU2 system displayed immediately after the board is replaced, check on, see the <i>Troubleshooting Guide</i> and take appropriate
66	E9	BCU	25051909	2314	Health check error detected on NIF < nif no. >. This system (BCU1) is standby.

An error occurred during a health check performed for the NIF from the standby BCU1. The BCU1 system is the standby system.

[Explanation of message variables]

<nif no.>: NIF number

- 1. The board might not be fully inserted. If this message is displayed immediately after the board is replaced, check that it is properly inserted.
- 2. If the problem cannot be corrected after the above action, see the *Troubleshooting Guide* and take appropriate action.

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text
				Descri	otion
67	Е9	BCU	25051910	2314	Health check error detected on NIF < nif no. >. This system (BCU2) is standby.
	standby syste [Explanation <nif no.="">: Ni [Action]  1. The board that it is p</nif>	of message value of message value. IF number distribution	riables] fully inserted. If t	this message is	NIF from the standby BCU2. The BCU2 system is the displayed immediately after the board is replaced, check on, see the <i>Troubleshooting Guide</i> and take appropriate
68	R5	BCU	01300430	2314	BCU force-switchover available. This system (BCU1) is active.
		witching functi of message var		vered. The BC	U1 system is the active system.
69	R5	BCU	01300431	2314	BCU force-switchover available. This system (BCU1) is standby.
		witching functi of message var		vered. The BC	U1 system is the standby system.
70	R5	BCU	01300432	2314	BCU force-switchover available. This system (BCU2) is active.
		witching functi of message var		vered. The BC	U2 system is the active system.
71	R5	BCU	01300433	2314	BCU force-switchover available. This system (BCU2) is standby.
		witching functi of message var		vered. The BC	U2 system is the standby system.
72	R5	BCU	01300434	2314	Health check error recovered. This system (BCU1) is active.
		m a health chec of message van		cessful. The BO	CU1 system is the active system.

#	Event level	Event location	Message ID	Added info.	Message text			
	Description							
73	R5	BCU	01300435	2314	Health check error recovered. This system (BCU1) is standby.			
		om a health chea of message van		cessful. The Bo	CU1 system is the standby system.			
74	R5	BCU	01300436	2314	Health check error recovered. This system (BCU2) is active.			
		om a health checo of message van		cessful. The Bo	CU2 system is the active system.			
75	R5	BCU	01300437	2314	Health check error recovered. This system (BCU2) is standby.			
		om a health checo of message van		cessful. The Bo	CU2 system is the standby system.			
76	R5	BCU	01300438	2314	Other system recovered from fatal error. This system (BCU1) is active.			
		BCU has recov		l error. The BC	CU1 system is the active system.			
77	R5	BCU	01300439	2314	Other system recovered from fatal error. This system (BCU1) is standby.			
		CU has recover of message var		error. The BCU	II system is the standby system.			
78	R5	BCU	01300440	2314	Other system recovered from fatal error. This system (BCU2) is active.			
		BCU has recov		l error. The BC	CU2 system is the active system.			

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text
				Descri	ption
79	R5	BCU	01300441	2314	Other system recovered from fatal error. This system (BCU2) is standby.
		CU has recover of message var		error. The BCU	J2 system is the standby system.
80	R7	BCU	00020102	2301	The temperature of BCU hardware returned to normal level (5 degree).
		perature warnin of message van		ecause the hard	dware temperature rose to 5 degrees Celsius or higher.
81	R7	BCU	00020103	2301	The temperature of BCU hardware returned to normal level (40 degree).
		e temperature r	eturned to norm	al (40 degrees	Celsius).
82	R7	BCU	00020104	2301	BCU hardware recovered to normal from high temperature(55 degree). However, be careful until it is becoming temperature of tolerance level.
	However, ca [Explanation None. [Action] 1. Check ar	re must be taken of message van and improve the	n because the te riables] environment suc	mperature is sti	mperature value that could affect operation of the switch. ill higher than the allowable range.  n and heat sources around the switches. n unit containing the faulty fan.
83	R8	BCU	01300461	2314	BCU initialized.
		s been initialize of message van			

## 3.8 Basic switching unit [AX6700S]

## 3.8.1 Event location = BSU-LA

The following table describes switch failure and event information when the event location is BSU-LA.

Table 3-18: Switch failure and event information when the event location is BSU-LA

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text
				Descriptio	n
1	E6	BSU-LA	25080200	3280	BSU restarted because of its hardware failure.
	The BSU was restarted because the hardware failed.  [Explanation of message variables]  None.  [Action]  After the restart, check the log information to determine if recovery from the failure was successful. If recovery vaccessful, operations can resume.  If recovery failed, replace the BSU.				
2	E6	BSU-LA	25080400	3281	BSU restarted, but not recovered from hardware failure.
	self-diagnosis	s. of message variable		ot recovered fro	om the hardware failure or a failure detected during
3	R6	BSU-LA	25080200	3280	BSU recovered from hardware failure.
		ecovered from a har of message variable			

## 3.8.2 Event location = BSU-LB

The following table describes switch failure and event information when the event location is BSU-LB.

Table 3-19: Switch failure and event information when the event location is BSU-LB

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text			
				Descriptio	n			
1	Е6	BSU-LB	25080200	3380	BSU restarted because of its hardware failure.			
	The BSU was restarted because the hardware failed.  [Explanation of message variables]  None.  [Action]  After the restart, check the log information to determine if recovery from the failure was successful. If recovery was successful, operations can resume.  If recovery failed, replace the BSU.							
2	Е6	BSU-LB	25080400	3381	BSU restarted, but not recovered from hardware failure.			
	The BSU was restarted although the BUS had not recovered from the hardware failure or a failure detected during self-diagnosis.  [Explanation of message variables]  None.  [Action]  Replace the BSU.							
3	R6	BSU-LB	25080200	3380	BSU recovered from hardware failure.			
		ecovered from a har of message variable						

# 3.9 Control and switching unit [AX6600S]

## 3.9.1 Event location = CSU

The following table describes switch failure and event information when the event location is CSU.

Table 3-20: Switch failure and event information when the event location is CSU

#	Event level	Event location	Message ID	Added info.	Message text		
				digits			
				Descr	iption		
1	Е3	CSU	00020106	2301	The temperature of CSU reached the warning level ( <temperature> degree).</temperature>		
	The hardware temperature has reached the temperature specified by the system temperature-warning-level configuration command.  [Explanation of message variables] <temperature>: Temperature of the switch (degrees Celsius)  [Action]  The hardware temperature has reached the specified temperature. Check the environment around the switch (suc as the status of the fan, the ventilation, and the existence of any heat sources).</temperature>						
2	Е3	CSU	00020107	2301	The temperature of CSU came down from the warning level.		
	The hardware temperature dropped three degrees or more below the the temperature specified by the system temperature-warning-level configuration command.  [Explanation of message variables]  None.  [Action]  None.						
3	E3	CSU	01200160	2314	Standby system inactivated because of SOP operation.		
	operation			ctive state in re	esponse to an inactivate instruction from the system		
4	E3	CSU	01200164	2314	Standby system activated because of SOP operation.		
	The standby system was released from the inactive state in response to an activate instruction from the system operation panel.  [Explanation of message variables]  None.  [Action]  None.						
5	E3	CSU	01200171	2314	This system (CSU1) restarted due to its failure.		
	E3 CSU 01200171 2314 This system (CSU1) restarted due to its failure.  The CSU1 system was restarted because of a failure.  [Explanation of message variables]  None.  [Action]  Execute the show logging command with or without the standby parameter specified and check the details of the failure that occurred before this log data was output, and then take action appropriate for the error message.						

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text	
			l.	Desci	iption	
6	E3	CSU	01200172	2314	This system (CSU2) restarted due to its failure.	
	[Explanati None. [Action] Execute th	on of message	ng command wi	th or without t	he standby parameter specified and check the details of and then take action appropriate for the error message.	
7	E3	CSU	01200174	2301	Failed in accumulated running time access to <i><csu></csu></i> .	
	Access to the total operating time for the CSU failed.  [Explanation of message variables] <csu>: CSU for which access to the total operating time failed (either CSU1 or CSU2 is displayed)  [Action]  There are no effects on communication and normal operation. However, the functionality for managing the to operating time cannot be used. If you want to use this functionality, replace the CSU.</csu>					
8	Е3	CSU	01200180	2301	Fan speed is high because temperature of CSU hardware exceeded tolerance level of high temperature.	
	[Explanati None. [Action]	on of message	variables]		e temperature exceeded the allowable range.  and heat sources around the switches.	
9	E3	CSU	01200181	2301	Fan speed is normal because temperature of CSU hardware returned to normal level.	
	The fan returned to regular speed because the hardware temperature returned to normal.  [Explanation of message variables]  None.  [Action]  None.					
10	E3	CSU	01200182	2301	Recovery due to the failure was restrained.	
	E3 CSU 01200182 2301 Recovery due to the failure was restrained.  The board suppressed recovery because of a failure.  [Explanation of message variables]  None.  [Action]  Use the show logging or show logging command with the standby parameter specified to check the log. If a problem is indicated in the log, take appropriate action according to the error message.  If recovery of the active system is suppressed, startup (recovery) of the standby system is also suppressed. In this case, there is no need to replace the standby system because a failure has not occurred in the standby system.					

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text			
				Descr	iption			
11	Е3	CSU	01300408	2314	This system (CSU1) changed from standby to active.CSU2 is standby.			
	The CSU1 system was switched from the standby to the active state. CSU2 is the standby system.  This message is displayed when system switching occurs due to a fatal error in the former active system, by clicking the Reset button, or by pressing the ACH switch.  [Explanation of message variables]  None.  [Action]  1. There is no problem if the system switching occurred because the Reset button was clicked or the ACH switch was pressed.  2. In all other cases, execute the show logging command with the standby parameter specified, check the message regarding the failure that occurred in the standby system, and then take action appropriate for the message. If the new standby system has not started yet, wait a while before checking for messages.							
12	Е3	CSU	01300409	2314	This system (CSU2) changed from standby to active.CSU1 is standby.			
	The CSU2 system was switched from the standby to the active state. CSU1 is the standby system.  This message is displayed when system switching occurs due to a fatal error in the former active system, by clicking the Reset button, or by pressing the ACH switch.  [Explanation of message variables]  None.  [Action]  1. There is no problem if the system switching occurred because the Reset button was clicked or the ACH switch was pressed.  2. In all other cases, execute the show logging command with the standby parameter specified, check the message regarding the failure that occurred in the standby system, and then take action appropriate for the message. If the new standby system has not started yet, wait a while before checking for messages.							
13	Е3	CSU	01300410	2314	This system (CSU1) changed from active to standby.CSU2 is active.			
	The CSU1 system was switched from the active to the standby state. CSU2 is the active system.  This message is displayed when system switching occurs because of a fatal error in the former active system.  [Explanation of message variables]  None.  [Action]  Use the show logging command with the standby parameter specified to check the message regarding the failure that occurred in the standby system, and then take action appropriate for the message. If the new standb system has not started yet, wait a while before checking for messages.							
14	Е3	CSU	01300411	2314	This system (CSU2) changed from active to standby.CSU1 is active.			
	This messa [Explanati None. [Action] Use the st failure tha	age is displayed on of message now logging to occurred in the	d when system s variables] command with the	witching occur he standby pa n, and then tak	tandby state. CSU1 is the active system.  s because of a fatal error in the former active system.  trameter specified to check the message regarding the e action appropriate for the message. If the new standby for messages.			

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text				
				Descr	iption				
15	E3	CSU	01300412	2314	System status changed from duplex to simplex.				
		n operating star on of message		n duplex config	guration to single configuration.				
16	E3	CSU	01300413	2314	System status changed from simplex to duplex.				
		n operating state on of message		n single config	uration to duplex configuration.				
17	E3	CSU	01300414	2314	Time is matched at the time of active system.				
	This messa		the time in the a d only for the sta variables]						
18	E3	CSU	01300417	2314	This system (CSU1) changed from standby to active.CSU2 is standby.				
	This messa parameter	age is displayed	d when system some redundancy f	witching occur	active state. CSU2 is the standby system. It because the reload command with the active mover command has been executed.				
19	E3	CSU	01300418	2314	This system (CSU2) changed from standby to active.CSU1 is standby.				
	This messa parameter	The CSU2 system was switched from the standby to the active state. CSU1 is the standby system.  This message is displayed when system switching occurs because the reload command with the active parameter specified or the redundancy force-switchover command has been executed.  [Explanation of message variables]  None.  [Action]							
20	Е3	CSU	01300419	2314	This system (CSU1) changed from active to standby.CSU2 is active.				
	This messa parameter	age is displayed	d when system so e redundancy f	witching occur	tandby state. CSU2 is the active system. s because the reload command with the active nover command has been executed.				

#	Event level	Event location	Message ID	Added info.	Message text			
	Highest 4 digits							
				Desci	ription			
21	Е3	CSU	01300420	2314	This system (CSU2) changed from active to standby.CSU1 is active.			
	This mess	age is displaye	d when system s e redundancy :	witching occur	trandby state. CSU1 is the active system.  It is because the reload command with the active shover command has been executed.			
22	E3	CSU	01300421	2314	This system (CSU1) will be changed from active to standby and restarted because of ACH SWITCH pressed.			
	pressed.	system will be on of message		he active to the	e standby state and restarted because the ACH switch wa			
23	Е3	CSU	01300422	2314	This system (CSU2) will be changed from active to standby and restarted because of ACH SWITCH pressed.			
	pressed.	system will be		the active to the	e standby state and restarted because the ACH switch wa			
24	E3	CSU	01300442	2314	Partial error detected on other system. Replace unit having error. This system (CSU1) is active.			
	the active [Explanati None. [Action] Use the sh	system. on of message	variables]	he standby p	the part in which a failure occurred. The CSU1 system is arameter specified to check the message regarding the hen take action appropriate for the message.			
25	E3	CSU	01300443	2314	Partial error detected on other system. Replace unit.having error. This system (CSU2) is active.			
	A partial failure occurred in the standby CSU. Replace the part in which a failure occurred. The CSU2 system is the active system.  [Explanation of message variables]  None.  [Action]  Use the show logging command with the standby parameter specified to check the message regarding the partial failure that occurred in the standby system, and then take action appropriate for the message.							

#	Event level	Event location	Message ID	Added info. Highest 4	Message text	
				digits		
				Desci	ription	
26	E3	CSU	01300457	2314	This system (CSU1) restarted with system changed.	
	The CSU1 system will be restarted because system switching occurred.  This message is displayed when the configuration was inconsistent, the license key was inconsistent, or a dual configuration had not been set up and system switching occurs due to one of the following causes: A fatal erro occurred, the Reset button was clicked, the ACH switch was pressed, the active parameter was specified in the reload command, or the active parameter was specified in the ppupdate command.  [Explanation of message variables]  None.  [Action]  None.					
27	E3	CSU	01300458	2314	This system (CSU2) restarted with system changed.	
	The CSU2 system will be restarted because system switching occurred.  This message is displayed when the configuration was inconsistent, the license key was inconsistent, or a dual configuration had not been set up and system switching occurs due to one of the following causes: A fatal error occurred, the Reset button was clicked, the ACH switch was pressed, the active parameter was specified in the reload command, or the active parameter was specified in the ppupdate command.  [Explanation of message variables]  None.  [Action]  None.					
28	Е3	CSU	01300466	2314	Other system stopped due to temperature trouble. This system (CSU1) is active.	
	[Explanati None. [Action] 1. Check	on of message	variables] he environment s	such as ventila	tion and heat sources around the switches.	
29	E3	CSU	01300467	2314	Other system stopped due to temperature trouble. This system (CSU1) is standby.	
	The active system stopped because of a temperature error. The CSU1 system is the standby system.  [Explanation of message variables]  None.  [Action]  1. Check and improve the environment such as ventilation and heat sources around the switches.  2. Check the fans. If a failure has occurred, replace the fan unit containing the faulty fan.					
30	Е3	CSU	01300468	2314	Other system stopped due to temperature trouble. This system (CSU2) is active.	
	[Explanati None. [Action] 1. Check	on of message	variables] he environment s	such as ventila	tion and heat sources around the switches.  fan unit containing the faulty fan.	

#	Event level	Event location	Message ID	Added info.	Message text
				Highest 4 digits	
		l	l	Descr	iption
31	Е3	CSU	01300469	2314	Other system stopped due to temperature trouble. This system (CSU2) is standby.
	[Explanati None. [Action] 1. Check	on of message	variables] he environments	such as ventila	or. The CSU2 system is the standby system.  tion and heat sources around the switches. fan unit containing the faulty fan.
32	Е3	CSU	01300470	2314	Standby system inactivated because CSU hardware error detected. This system (CSU1) is active.
	The standby system was deactivated because a hardware failure was detected. The CSU1 system is the active system.  [Explanation of message variables]  None.  [Action]  Replace the standby CSU.				
33	Е3	CSU	01300471	2314	Standby system inactivated because CSU hardware error detected. This system (CSU2) is active.
	The standby system was deactivated because a hardware failure was detected. The CSU2 syst system.  [Explanation of message variables]  None.  [Action]  Replace the standby CSU.				
34	E3	CSU	01300475	2314	Standby system restarted because CSU hardware error detected. This system (CSU1) is active.
The standby system was restarted because a hardware failure was [Explanation of message variables] None. [Action] Replace the standby CSU.					lure was detected. The CSU1 system is the active system.
35	E3	CSU	01300476	2314	Standby system restarted because CSU hardware error detected. This system (CSU2) is active.
	[Explanati None. [Action]	by system was it on of message	variables]	a hardware fai	lure was detected. The CSU2 system is the active system.
36	E3	CSU	01300477	2314	Standby system inactivated administratively.
		by system was on of message		ctive state by u	ising the inactivate command.

#	Event level	Event location	Message ID	Added info.	Message text			
				Highest 4 digits				
		I		Descr	iption			
37	E3	CSU	01300478	2314	Standby system activated administratively.			
		oy system was on of message		ive state by usi	ng the activate command.			
38	E3	CSU	01c00200	2301	CSU restarted because of its HDC update done.			
	The CSU was restarted because the HDC (Hardware Dependent Code) was updated.  [Explanation of message variables]  None.  [Action]  None.							
39	E3	CSU	25070700	2301	PSP online dump command executed.			
	The memory dump initiated by executing the PSP dump (without switch restart) command was completed.  [Explanation of message variables]  None.  [Action]  None.							
40	E3	CSU	25070701	2301	Can't execute dump command(other dump executing).			
	[Explanati None. [Action]							
41	E3	CSU	25070702	2301	PSP dump canceled.			
	The PSP dump was canceled.  [Explanation of message variables]  None.  [Action]  1. Use the show system command to check the amount of free space in the user area (the recommended amount is 30 MB). If there is not enough free space, delete dump files and then re-execute the command.  2. After other dump processing has been completed, re-execute the command.							
42	E3	CSU	25070800	2301	PSP offline dump command executed.			
		ory dump initiation of message		the PSP dump	(with switch restart) command was completed.			
43	E3	CSU	25070911	2301	PSP on this system (CSU1) changed to active.			
	The PSP of the CSU1 system was switched to the active state.  [Explanation of message variables]  None.  [Action]  Check the CSU log, and take action appropriate for the failure that has occurred.  If a command was used to switch the PSP, no action is required.							

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text				
		Description							
44	E3	CSU	25070912	2301	PSP on this system (CSU1) changed from active.				
	The PSP of the CSU1 system was switched out of the active state.  [Explanation of message variables]  None.  [Action]  Check the CSU log, and take action appropriate for the failure that has occurred.  If a command was used to switch the PSP, no action is required.								
45	E3	CSU	25070913	2301	PSP on this system (CSU2) changed to active.				
	The PSP of the CSU2 system was switched to the active state.  [Explanation of message variables]  None.  [Action]  Check the CSU log, and take action appropriate for the failure that has occurred.  If a command was used to switch the PSP, no action is required.								
46	E3	CSU	25070914	2301	PSP on this system (CSU2) changed from active.				
	The PSP of the CSU2 system was switched out of the active state.  [Explanation of message variables]  None.  [Action]  Check the CSU log, and take action appropriate for the failure that has occurred.  If a command was used to switch the PSP, no action is required.								
47	E3	CSU	25070915	2301	PSP on other system (CSU1) changed to active.				
	The PSP of the standby system (CSU1) was switched to the active state.  [Explanation of message variables]  None.  [Action]  Check the CSU log, and take action appropriate for the failure that has occurred.  If a command was used to switch the PSP, no action is required.								
48	E3	CSU	25070916	2301	PSP on other system (CSU1) changed from active.				
	The PSP of the standby system (CSU1) was switched out of the active state.  [Explanation of message variables]  None.  [Action]  Check the CSU log, and take action appropriate for the failure that has occurred.  If a command was used to switch the PSP, no action is required.								
49	E3	CSU	25070917	2301	PSP on other system (CSU2) changed to active.				
	The PSP of the standby system (CSU2) was switched to the active state.  [Explanation of message variables]  None.  [Action]  Check the CSU log, and take action appropriate for the failure that has occurred.  If a command was used to switch the PSP, no action is required.								

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text		
				Desci	ription		
50	E3	CSU	25070918	2301	PSP on other system (CSU2) changed from active.		
	The PSP of the standby system (CSU2) was switched out of the active state.  [Explanation of message variables]  None.  [Action]  Check the CSU log, and take action appropriate for the failure that has occurred.  If a command was used to switch the PSP, no action is required.						
51	E5	CSU	01200183	2301	Standby CSU is mismatch.		
	The board [Explanati None. [Action] Make sure	CSUs are the same.					
52	E5	CSU	01200185	2301	Standby CSU is unknown CSU.		
	The standby CSU board is unknown.  [Explanation of message variables]  None.  [Action]  The CSU board is not supported by the Switch. Replace the standby CSU board.						
53	E5	CSU	01300430	2314	System cannot execute CSU force-switchover. This system (CSU1) is active.		
	System switching could not be performed. The CSU1 system is the active system.  [Explanation of message variables]  None.  [Action]  Replace both the standby and active CSUs.						
54	E5	CSU	01300432	2314	System cannot execute CSU force-switchover. This system (CSU2) is active.		
	System switching could not be performed. The CSU2 system is the active system.  [Explanation of message variables]  None.  [Action]  Replace both the standby and active CSUs.						

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text		
	Description						
55	E5	CSU	01300434	2314	Health check error detected on other system. This system (CSU1) is active.		

An error occurred during a health check performed for the standby CSU2 from the active CSU1. The CSU1 system is the active system.

[Explanation of message variables]

None.

#### [Action]

- 1. Execute the show logging command and make sure that the recovery log message Health check error recovered. for this log data has been output. If this message has been output, no action is required.
- If it has not been output, execute the show logging command with the standby parameter specified, check the message regarding the failure that occurred in the standby system, and then take action appropriate for the message.
- 3. If no failure has occurred in the standby system, the board might not be fully inserted. If this message is displayed immediately after the board is replaced, check that it is properly inserted.
- 4. If the problem cannot be corrected after the above actions, replace both the active and standby CSUs.

56 E5 CSU 01300435 2314 Health check error detected on other system. This system (CSU1) is standby.

An error occurred during a health check performed for the standby CSU1 from the active CSU2. The CSU1 system is the standby system.

[Explanation of message variables]

None.

### [Action]

- 1. Execute the show logging command with the standby parameter specified and make sure that the recovery log message Health check error recovered. for this log data has been output. If this message has been output, no action is required.
- 2. If it has not been output, execute the show logging command, check the message regarding the failure that occurred in the active system, and then take action appropriate for the message.
- 3. If no failure has occurred in the active system, the board might not be fully inserted. If this message is displayed immediately after the board is replaced, check that it is properly inserted.
- 4. If the problem cannot be corrected after the above actions, replace both the active and standby CSUs.

57 E5 CSU 01300436 2314 Health check error detected on other system. This system (CSU2) is active.

An error occurred during a health check performed for the standby CSU1 from the active CSU2. The CSU2 system is the active system.

[Explanation of message variables]

None.

- 1. Execute the show logging command and make sure that the recovery log message Health check error recovered. for this log data has been output. If this message has been output, no action is required.
- If it has not been output, execute the show logging command with the standby parameter specified, check the message regarding the failure that occurred in the standby system, and then take action appropriate for the message.
- 3. If no failure has occurred in the standby system, the board might not be fully inserted. If this message is displayed immediately after the board is replaced, check that it is properly inserted.
- 4. If the problem cannot be corrected after the above actions, replace both the active and standby CSUs.

#	Event level	Event location	Message ID	Added info.	Message text				
		digits  Description							
50	F.C	COLL	01200427		·				
58	E5	CSU	01300437	2314	Health check error detected on other system. This system (CSU2) is standby.				
	system is to [Explanati None. [Action]  1. Execute log me output  2. If it has occurred to the system is to provide the system is to provide the system.	te the show loessage Health, no action is rosen to been outged in the active	tem. variables] gging command check error equired. out, execute the se system, and the	d with the star recovered. I show logging on take action a	he standby CSU2 from the active CSU1. The CSU2  adby parameter specified and make sure that the recover for this log data has been output. If this message has been command, check the message regarding the failure the appropriate for the message.				
	displa	yed immediate	ly after the board	l is replaced, c	oard might not be fully inserted. If this message is heck that it is properly inserted. ctions, replace both the active and standby CSUs.				
59	E5	CSU	01300438	2314	Fatal error detected on other system. This system (CSU1) is active.				
	[Explanati None. [Action] After the s								
60	E5	CSU	01300439	2314	Fatal error detected on other system. This system (CSU1) is standby.				
	A fatal error occurred in the active CSU. The CSU1 system is the standby system.  [Explanation of message variables]  None.  [Action]  After the active system has restarted, execute the show logging command, check the failure explanation, ar then take action appropriate for the error message.								
61	E5	CSU	01300440	2314	Fatal error detected on other system. This system (CSU2) is active.				
	A fatal error occurred in the standby CSU. The CSU2 system is the active system.  [Explanation of message variables]  None.  [Action]  After the standby system has restarted, execute the show logging command with the standby para specified, check the failure explanation, and then take action appropriate for the error message.								
62	E5	CSU	01300441	2314	Fatal error detected on other system. This system (CSU2) is standby.				
	A fatal error occurred in the active CSU. The CSU2 system is the standby system.  [Explanation of message variables]  None.  [Action]  After the active system has restarted, execute the show logging command, check the failure explanation, and then take action appropriate for the error message.								

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text			
		1		Desci	iption			
63	E5	CSU	25070913	2301	Health check error detected on active PSP. This system (CSU1) is active.			
	is the active [Explanation None. [Action] After the second notes of the active second notes of the act							
64	E5	CSU	25070914	2301	Health check error detected on active PSP. This system (CSU2) is active.			
	is the active [Explanation None. [Action] After the second note of the	on of message	variables]	ecute the show	logging command with the standby parameter ction appropriate for the error message.			
65	E5	CSU	25070919	2301	Health check error detected on NIF < nif no. >. This system (CSU1) is active.			
	An error occurred during a health check performed for the NIF from the standby CSU2. The CSU1 system is the active system.  [Explanation of message variables] <nif no.="">: NIF number  [Action]  After the standby CSU2 has restarted, execute the show logging command with the standby parameter specified, check the failure explanation, and then take action appropriate for the error message.</nif>							
66	E5	CSU	25070920	2301	Health check error detected on NIF < nif no. >. This system (CSU2) is active.			
	An error occurred during a health check performed for the NIF from the standby CSU1. The CSU2 system is the active system.  [Explanation of message variables] <nif no.="">: NIF number  [Action]  After the standby CSU1 has restarted, execute the show logging command with the standby parameter specified, check the failure explanation, and then take action appropriate for the error message.</nif>							
67	E7	CSU	00020102	2301	CSU hardware exceeded tolerance level of low temperature(2 degree). Check room temperature.			
	The hardware temperature dropped below the allowable temperature range (2 degrees Celsius or lower).  [Explanation of message variables]  None.  [Action]  1. Check and improve the environment such as the room temperature around the switches.  2. Check the fans. If a failure has occurred, replace the fan unit containing the faulty fan.							

#	Event level	Event location	Message ID	Added info.	Message text
	10101	location		Highest 4 digits	
				Desci	ription
68	E7	CSU	00020103	2301	CSU hardware exceeded tolerance level of high temperature (43 degree). Check that room temperature and the fan is operating normally.
	[Explanati None. [Action] 1. Check	on of message and improve t	variables] he environment	such as ventila	tion and heat sources around the switches.
69	E7	CSU	00020104	2301	CSU hardware is becoming high temperature (58 degree). immediately, and check that room temperature and the fan is operating normally.
	[Explanati None. [Action] 1. A mali and he	on of message function might at sources arou	variables] occur in the swittend the switches.	ch. Immediatel	erature value that affects operation of the switch.  y check and improve the environment such as ventilation fan unit containing the faulty fan.
70	E8	CSU	01200178	2301	PSP not initialized because it is unknown CSU.
	[Explanati None. [Action] 1. The Control of the Con	on of message SU board is not SU board is not en either replac	t fully inserted. It supported by the the CSU board	Insert the CSU e software vers d or update the	properly. ion. Check the CSU board type and the software version
71	E8	CSU	01200179	2301	PSP not initialized because it is mismatch between active and standby CSU.
	[Explanati None. [Action]	on of message	variables]		s of the active CSU and the standby CSU were different  CSUs are the same.
72	E8	CSU	25070200	2301	CSU restarted because PSP hardware failure detected during the self diagnosis.
	[Explanati None. [Action]	on of message	variables]		CSU will be restarted.  ne restart, operations can resume.

#	Event level	Event location	Message ID	Added info.	Message text			
				Highest 4 digits				
				Desci	iption			
73	E8	CSU	25070202	2301	CSU restarted because of PSP hardware failure.			
	[Explanation None. [Action]	on of message	-		rred in the PSP.  ne restart, operations can resume.			
74	E8	CSU	25070500	2301	PSP not initialized because it is unavailable configuration.			
	[Explanation None. [Action] Change the	on of message e configuration listribution pat	use the configuration variables]  of the following tern for filtering for the maximum	g so that they a and the QoS fi	re correct: unctionality			
75	E8	CSU	25070903	2301	Health check error detected on standby PSP. This system (CSU1) is standby.			
	An error occurred during a health check performed for the standby PSP from the active CSU2. The CSU1 system is the standby system.  [Explanation of message variables]  None.  [Action]  1. The board might not be fully inserted. If this message is displayed immediately after the board is replaced, check that it is properly inserted.  2. If the problem cannot be corrected after the above action, see the <i>Troubleshooting Guide</i> and take appropriate action.							
76	E8	CSU	25070904	2301	Health check error detected on standby PSP. This system (CSU2) is standby.			
	An error occurred during a health check performed for the standby PSP from the active CSU1. The CSU2 system is the standby system.  [Explanation of message variables]  None.  [Action]  1. The board might not be fully inserted. If this message is displayed immediately after the board is replaced, check that it is properly inserted.  2. If the problem cannot be corrected after the above action, see the <i>Troubleshooting Guide</i> and take appropriate action.							
77	E8	CSU	25070908	2301	System cannot execute PSP swap. All PSP restarted.			
	-	System switching for the PSP could not be performed. All PSPs will be restarted.  [Explanation of message variables]  None.  [Action]						

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text				
				_	iption				
78	E9	CSU	00020105	2301	CSU hardware is becoming high temperature which give damage to this system. (65 degree)				
	operation. [Explanati None. [Action] 1. Check	on of message	variables]	such as ventila	degrees Celsius) that is likely to critically damage device tion and heat sources around the switches. fan unit containing the faulty fan.				
79	Е9	CSU	01200173 01300474 2b061200	2314	System restarted because CSU hardware error detected.				
		on of message	because a hardy variables]	vare failure wa	s detected.				
80	E9	CSU	01200186	2301	CSU restarted because it is unknown CSU.				
	This messa [Explanati None. [Action]								
81	E9	CSU	01300472	2314	This system (CSU1) inactivated because CSU hardware error detected.				
	[Explanati None. [Action]	system was in on of message e standby CSU	variables]	se a hardware f	ailure was detected.				
82	E9	CSU	01300473	2314	This system (CSU2) inactivated because CSU hardware error detected.				
	[Explanati None. [Action]								
83	E9	CSU	01c00100	2301	CSU restarted because of its HDC update failure.				
		on of message		of the HDC (F	lardware Dependent Code) failed.				

#	Event level	Event location	Message ID	Added info.	Message text		
				Highest 4 digits			
				Descr	iption		
84	Е9	CSU	25070905	2301	Health check error detected on active PSP. This system (CSU1) is standby.		
	An error occurred during a health check performed for the active PSP from the standby CSU1. The CSU1 syste is the standby system.  [Explanation of message variables]  None.  [Action]  1. The board might not be fully inserted. If this message is displayed immediately after the board is replaced check that it is properly inserted.  2. If the problem cannot be corrected after the above action, see the <i>Troubleshooting Guide</i> and take appropria action.						
85	E9	CSU	25070906	2301	Health check error detected on active PSP. This system (CSU2) is standby.		
	is the stand [Explanati None. [Action] 1. The book check	on of message oard might not that it is proper problem cannot	variables] be fully inserted	. If this messag	tion, see the <i>Troubleshooting Guide</i> and take appropriate		
86	Е9	CSU	25070909	2301	Health check error detected on NIF < nif no. >. This system (CSU1) is standby.		
	An error occurred during a health check performed for the NIF from the standby CSU1. The CSU1 system is the standby system.  [Explanation of message variables] <nif no.="">: NIF number [Action]  1. The board might not be fully inserted. If this message is displayed immediately after the board is replaced, check that it is properly inserted.  2. If the problem cannot be corrected after the above action, see the <i>Troubleshooting Guide</i> and take appropriate action.</nif>						
87	Е9	CSU	25070910	2301	Health check error detected on NIF < nif no. >. This system (CSU2) is standby.		
	An error occurred during a health check performed for the NIF from the standby CSU2. The CSU2 system is the standby system.  [Explanation of message variables] <nif no.="">: NIF number  [Action]  1. The board might not be fully inserted. If this message is displayed immediately after the board is replaced, check that it is properly inserted.  2. If the problem cannot be corrected after the above action, see the <i>Troubleshooting Guide</i> and take appropriate action.</nif>						

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text				
					ription				
88	R5	CSU	01200185	2301	Standby unknown CSU is notconnect.				
	This mess		layed.		ninstalled after the log message Standby CSU is				
89	R5	CSU	01300430	2314	CSU force-switchover available. This system (CSU1 is active.				
		n switching fur on of message		ecovered. The	CSU1 system is the active system.				
90	R5	CSU	01300431	2314	CSU force-switchover available. This system (CSU) is standby.				
		[Action]							
91	R5	CSU	01300432	2314	CSU force-switchover available. This system (CSU2 is active.				
		n switching fur on of message		ecovered. The	CSU2 system is the active system.				
92	R5	CSU	01300433	2314	CSU force-switchover available. This system (CSU2 is standby.				
		The system switching functionality has recovered. The CSU2 system is the standby system.  [Explanation of message variables]  None.  [Action]							
93	R5	CSU	01300434	2314	Health check error recovered. This system (CSU1) is active.				
		from a health c on of message		successful. The	CSU1 system is the active system.				

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text			
				Descr	iption			
94	R5	CSU	01300435	2314	Health check error recovered. This system (CSU1) is standby.			
		from a health c on of message		uccessful. The	CSU1 system is the standby system.			
95	R5	CSU	01300436	2314	Health check error recovered. This system (CSU2) is active.			
		from a health c on of message		uccessful. The	CSU2 system is the active system.			
96	R5	CSU	01300437	2314	Health check error recovered. This system (CSU2) is standby.			
		from a health c on of message		uccessful. The	CSU2 system is the standby system.			
97	R5	CSU	01300438	2314	Other system recovered from fatal error. This system (CSU1) is active.			
		by CSU has rec on of message		atal error. The G	CSU1 system is the active system.			
98	R5	CSU	01300439	2314	Other system recovered from fatal error. This system (CSU1) is standby.			
		[Action]						
99	R5	CSU	01300440	2314	Other system recovered from fatal error. This system (CSU2) is active.			
	The standby CSU has recovered from a fatal error. The CSU2 system is the active system.  [Explanation of message variables]  None.  [Action]  None.							

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text				
				Desci	iption				
100	R5	CSU	01300441	2314	Other system recovered from fatal error. This system (CSU2) is standby.				
		CSU has reco on of message		al error. The C	SU2 system is the standby system.				
101	R7	CSU	00020102	2301	The temperature of CSU hardware returned to normal level (5 degree).				
		rare temperatur on of message	re returned to not variables]	rmal (5 degree	s Celsius).				
102	R7	CSU	00020103	2301	The temperature of CSU hardware returned to normal level (40 degree).				
	The hardware temperature returned to normal (40 degrees Celsius).  [Explanation of message variables]  None.  [Action]  None.								
103	R7	CSU	00020104	2301	CSU hardware recovered to normal from high temperature(55 degree). However, be careful until it is becoming temperature of tolerance level.				
	switch. Ho [Explanati None. [Action] 1. Check	on of message	ust be taken becavariables] he environment	ause the tempe	tion and heat sources around the switches.				
104	R8	CSU	01200179	2301	Standby CSU is notconnect.				
	The standby CSU is not installed.  This message is displayed when the standby CSU was uninstalled after either of the following log messag displayed:  PSP not initialized because it is mismatch between active and standby CSU.  Standby CSU is mismatch.  [Explanation of message variables]  None.  [Action]  None.								
105	R8	CSU	01300461	2314	CSU initialized.				
	The CSU has been initialized.  [Explanation of message variables] None.  [Action] None.								

#	Event level	Event location	Message ID	Added info. Highest4 digits	Message text	
				Descr	iption	
106	R8	CSU	25070002	2301	PSP initialized.	
	The PSP has been initialized. [Explanation of message variables] None. [Action] None.					

# 3.10 Management switching unit [AX6300S]

# 3.10.1 Event location = MSU

The following table describes switch failure and event information when the event location is  $\mathtt{MSU}$ .

Table 3-21: Switch failure and event information when the event location is MSU

#	Event level	Event location	Message ID	Added info.	Message text	
	10701	location	.5	Highest 4 digits		
				Descri	ption	
1	E3	MSU	00020106	2301	The temperature of MSU reached the warning level ( <temperature> degree).</temperature>	
	configuration [Explanation <temperatur [action]="" hardware<="" td="" the=""><td>n command. of message va e&gt;: Temperature</td><td>riables] re of the switch (</td><td>(degrees Celsiu</td><td>rature. Check the environment around the switch (such as ny heat sources).</td></temperatur>	n command. of message va e>: Temperature	riables] re of the switch (	(degrees Celsiu	rature. Check the environment around the switch (such as ny heat sources).	
2	E3	MSU	00020107	2301	The temperature of MSU came down from the warning level.	
	The hardware temperature dropped three degrees or more below the the temperature specified by the system temperature-warning-level configuration command.  [Explanation of message variables]  None.  [Action]  None.					
3	E3	MSU	01200160	2314	Standby system inactivated because of SOP operation.	
	operation par			ve state in resp	onse to an inactivate instruction from the system	
4	E3	MSU	01200164	2314	Standby system activated because of SOP operation.	
	The standby system was released from the inactive state in response to an activate instruction from the system operation panel.  [Explanation of message variables]  None.  [Action]  None.					
5	E3	MSU	01200171	2314	This system (MSU1) restarted due to its failure.	
	The MSU1 system was restarted because of a failure.  [Explanation of message variables]  None.  [Action]  Execute the show logging command with or without the standby parameter specified and check the details of the failure that occurred before this log data was output, and then take action appropriate for the error message.					

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text	
				Descri	ption	
6	E3	MSU	01200172	2314	This system (MSU2) restarted due to its failure.	
	[Explanation None. [Action] Execute the s	of message va	command with	or without the	standby parameter specified and check the details of the nen take action appropriate for the error message.	
7	E3	MSU	01200174	2301	Failed in accumulated running time access to <i><msu></msu></i> .	
	[Explanation < msu>: MSI [Action] There are no	of message va U for which accepted effects on com	cess to the total of amunication and	operating time	failed (either MSU1 or MSU2 is displayed) on. However, the functionality for managing the total tionality, replace the MSU.	
8	Е3	MSU	01200180	2301	Fan speed is high because temperature of MSU hardware exceeded tolerance level of high temperature.	
	[Explanation None. [Action]	of message va	riables]		emperature exceeded the allowable range.	
9	Е3	MSU	01200181	2301	Fan speed is normal because temperature of MSU hardware returned to normal level.	
		rned to regular of message va		ne hardware tei	mperature returned to normal.	
10	E3	MSU	01200182	2301	Recovery due to the failure was restrained.	
	The board suppressed recovery because of a failure.  [Explanation of message variables]  None.  [Action]  Use the show logging or show logging command with the standby parameter specified to check the log. If a problem is indicated in the log, take appropriate action according to the error message.  If recovery of the active system is suppressed, startup (recovery) of the standby system is also suppressed. In this case, there is no need to replace the standby system because a failure has not occurred in the standby system.					

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text
				Descri	ption
11	Е3	MSU	01300408	2314	This system (MSU1) changed from standby to active.MSU2 is standby.

The MSU1 system was switched from the standby to the active state. MSU2 is the standby system.

This message is displayed when system switching occurs due to a fatal error in the former active system, by clicking the Reset button, or by pressing the ACH switch.

[Explanation of message variables]

None.

#### [Action]

- There is no problem if the system switching occurred because the Reset button was clicked or the ACH switch was pressed.
- 2. In all other cases, execute the show logging command with the standby parameter specified, check the message regarding the failure that occurred in the standby system, and then take action appropriate for the message. If the new standby system has not started yet, wait a while before checking for messages.

12	E3	MSU	01300409	2314	This system (MSU2) changed from standby to
					active.MSU1 is standby.

The MSU2 system was switched from the standby to the active state. MSU1 is the standby system.

This message is displayed when system switching occurs due to a fatal error in the former active system, by clicking the Reset button, or by pressing the ACH switch.

[Explanation of message variables]

None.

### [Action]

- There is no problem if the system switching occurred because the Reset button was clicked or the ACH switch was pressed.
- 2. In all other cases, execute the show logging command with the standby parameter specified, check the message regarding the failure that occurred in the standby system, and then take action appropriate for the message. If the new standby system has not started yet, wait a while before checking for messages.

13	E3	MSU	01300410	2314	This system (MSU1) changed from active to
					standby.MSU2 is active.

The MSU1 system was switched from the active to the standby state. MSU2 is the active system.

This message is displayed when system switching occurs because of a fatal error in the former active system. [Explanation of message variables]

None.

#### [Action]

Use the show logging command with the standby parameter specified to check the message regarding the failure that occurred in the standby system, and then take action appropriate for the message. If the new standby system has not started yet, wait a while before checking for messages.

14	E3	MSU	01300411	2314	This system (MSU2) changed from active to
					standby.MSU1 is active.

The MSU2 system was switched from the active to the standby state. MSU1 is the active system.

This message is displayed when system switching occurs because of a fatal error in the former active system. [Explanation of message variables]

None.

## [Action]

Use the show logging command with the standby parameter specified to check the message regarding the failure that occurred in the standby system, and then take action appropriate for the message. If the new standby system has not started yet, wait a while before checking for messages.

#	Event	Event	Message	Added	Message text				
	level	location	ID	info. Highest 4					
				digits					
				Descri	ption				
15	E3	MSU	01300412	2314	System status changed from duplex to simplex.				
		operating status of message va		uplex configui	ration to single configuration.				
16	Е3	MSU	01300413	2314	System status changed from simplex to duplex.				
		operating status of message va		ingle configura	ation to duplex configuration.				
17	E3	MSU	01300414	2314	Time is matched at the time of active system.				
	This message		e time in the actionly for the stand riables]						
18	Е3	MSU	01300417	2314	This system (MSU1) changed from standby to active.MSU2 is standby.				
	This message specified or	e is displayed w	hen system swite cy force-swite	ching occurs be	ctive state. MSU2 is the standby system. ecause the reload command with the active parameter and has been executed.				
19	Е3	MSU	01300418	2314	This system (MSU2) changed from standby to active.MSU1 is standby.				
	This message specified or	[Action]							
20	Е3	MSU	01300419	2314	This system (MSU1) changed from active to standby.MSU2 is active.				
	The MSU1 system was switched from the active to the standby state. MSU2 is the active system.  This message is displayed when system switching occurs because the reload command with the active parameter specified or the redundancy force-switchover command has been executed.  [Explanation of message variables]  None.  [Action]  None.								

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text			
		1		Descri	ption			
21	Е3	MSU	01300420	2314	This system (MSU2) changed from active to standby.MSU1 is active.			
	This message specified or to	e is displayed w	then system switery force-swite	ching occurs be	ndby state. MSU1 is the active system. ecause the reload command with the active parameter and has been executed.			
22	Е3	MSU	01300421	2314	This system (MSU1) will be changed from active to standby and restarted because of ACH SWITCH pressed.			
	pressed.	ystem will be s		e active to the	standby state and restarted because the ACH switch was			
23	E3	MSU	01300422	2314	This system (MSU2) will be changed from active to standby and restarted because of ACH SWITCH pressed.			
	pressed.	ystem will be s		e active to the	standby state and restarted because the ACH switch was			
24	Е3	MSU	01300442	2314	Partial error detected on other system. Replace unit having error. This system (MSU1) is active.			
	A partial failure occurred in the standby MSU. Replace the part in which a failure occurred. The MSU1 system is the active system.  [Explanation of message variables]  None.  [Action]  Use the show logging command with the standby parameter specified to check the message regarding the partial failure that occurred in the standby system, and then take action appropriate for the message.							
25	Е3	MSU	01300443	2314	Partial error detected on other system. Replace unit.having error. This system (MSU2) is active.			
	the active sys [Explanation None. [Action] Use the show	stem. of message va	riables]	standby <b>paran</b>	e part in which a failure occurred. The MSU2 system is neter specified to check the message regarding the partial action appropriate for the message.			

		I				
#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text	
	ption					
26	E3	MSU	01300457	2314	This system (MSU1) restarted with system changed.	
	This messag configuration occurred, the reload com	e is displayed ven had not been to Reset button ven	set up and syster was clicked, the A ctive paramete	ration was income switching oc ACH switch w	onsistent, the license key was inconsistent, or a dual curs due to one of the following causes: A fatal error as pressed, the active parameter was specified in the lin the ppupdate command.	
27	E3	MSU	01300458	2314	This system (MSU2) restarted with system changed.	
	The MSU2 system will be restarted because system switching occurred.  This message is displayed when the configuration was inconsistent, the license key was inconsistent, or a dual configuration had not been set up and system switching occurs due to one of the following causes: A fatal error occurred, the Reset button was clicked, the ACH switch was pressed, the active parameter was specified in the reload command, or the active parameter was specified in the ppupdate command.  [Explanation of message variables]  None.  [Action]  None.					
28	Е3	MSU	01300466	2314	Other system stopped due to temperature trouble. This system (MSU1) is active.	
	[Explanation None. [Action] 1. Check ar	of message va	riables] environment suc	ch as ventilatio	r. The MSU1 system is the active system.  n and heat sources around the switches. n unit containing the faulty fan.	
29	Е3	MSU	01300467	2314	Other system stopped due to temperature trouble. This system (MSU1) is standby.	
	[Explanation None. [Action] 1. Check ar	of message va	riables]	ch as ventilatio	The MSU1 system is the standby system.  n and heat sources around the switches. n unit containing the faulty fan.	
30	E3	MSU	01300468	2314	Other system stopped due to temperature trouble. This system (MSU2) is active.	
	[Explanation None. [Action] 1. Check ar	of message va	riables] environment suc	ch as ventilatio	r. The MSU2 system is the active system.  n and heat sources around the switches. n unit containing the faulty fan.	

#	Event level	Event location	Message ID	Added info.	Message text
				Highest 4 digits	
				Descri	ption
31	Е3	MSU	01300469	2314	Other system stopped due to temperature trouble. This system (MSU2) is standby.
	[Explanation None. [Action] 1. Check a	of message va	riables] environment suc	ch as ventilatio	The MSU2 system is the standby system.  n and heat sources around the switches. n unit containing the faulty fan.
32	Е3	MSU	01300470	2314	Standby system inactivated because MSU hardware error detected. This system (MSU1) is active.
	system. [Explanation None. [Action]	system was de of message va standby MSU.		e a hardware fa	ailure was detected. The MSU1 system is the active
33	Е3	MSU	01300471	2314	Standby system inactivated because MSU hardware error detected. This system (MSU2) is active.
	system. [Explanation None. [Action]	system was de of message va standby MSU.		e a hardware fa	ailure was detected. The MSU2 system is the active
34	Е3	MSU	01300475	2314	Standby system restarted because MSU hardware error detected. This system (MSU1) is active.
	[Explanation None. [Action]	system was res of message va standby MSU.		hardware failu	are was detected. The MSU1 system is the active system.
35	Е3	MSU	01300476	2314	Standby system restarted because MSU hardware error detected. This system (MSU2) is active.
	[Explanation None. [Action]	system was res a of message va standby MSU.		hardware failu	are was detected. The MSU2 system is the active system.
36	E3	MSU	01300477	2314	Standby system inactivated administratively.
		system was pla of message va		ve state by usi	ng the inactivate command.

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text			
				Descri	ption			
37	E3	MSU	01300478	2314	Standby system activated administratively.			
		system was pla of message va		e state by using	the activate command.			
38	Е3	MSU	01c00200	2301	MSU restarted because of its HDC update done.			
	The MSU was restarted because the HDC (Hardware Dependent Code) was updated.  [Explanation of message variables]  None.  [Action]  None.							
39	E3	MSU	25070700	2301	PSP online dump command executed.			
		[Action]						
40	Е3	MSU	25070701	2301	Can't execute dump command(other dump executing).			
	[Explanation None. [Action]	of message va	eing performed. riables]	and.				
41	Е3	MSU	25070702	2301	PSP dump canceled.			
	[Explanation None. [Action] 1. Use the s is 30 ME	3). If there is no	riables] command to che of enough free sp	ace, delete dur	of free space in the user area (the recommended amount mp files and then re-execute the command.			
42	E3	MSU	25070800	2301	PSP offline dump command executed.			
		dump initiated of message va		e PSP dump (v	with switch restart) command was completed.			
43	E5	MSU	01200183	2301	Standby MSU is mismatch.			
	[Explanation None. [Action]	of message va	-		ISUs are the same.			

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text				
				Descri	ption				
44	E5	MSU	01200185	2301	Standby MSU is unknown MSU.				
	The standby MSU board is unknown. [Explanation of message variables] None. [Action] The MSU board is not supported by the Switch. Replace the standby MSU board.								
45	E5	MSU	01300430	2314	System cannot execute MSU force-switchover. This system (MSU1) is active.				
	[Explanation None. [Action]	of message va			eem is the active system.				
46	E5	MSU	01300432	2314	System cannot execute MSU force-switchover. This system (MSU2) is active.				
	[Explanation None. [Action]	- 10							
47	E5	MSU	01300434	2314	Health check error detected on other system. This system (MSU1) is active.				

An error occurred during a health check performed for the standby MSU2 from the active MSU1. The MSU1 system is the active system.

[Explanation of message variables]

None.

[Action]

- 1. Execute the show logging command and make sure that the recovery log message Health check error recovered. for this log data has been output. If this message has been output, no action is required.
- 2. If it has not been output, execute the show logging command with the standby parameter specified, check the message regarding the failure that occurred in the standby system, and then take action appropriate for the message.
- 3. If no failure has occurred in the standby system, the board might not be fully inserted. If this message is displayed immediately after the board is replaced, check that it is properly inserted.
- 4. If the problem cannot be corrected after the above actions, replace both the active and standby MSUs.

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text
				Descri	ption
48	E5	MSU	01300435	2314	Health check error detected on other system. This system (MSU1) is standby.

An error occurred during a health check performed for the standby MSU1 from the active MSU2. The MSU1 system is the standby system.

[Explanation of message variables]

None.

#### [Action]

- 1. Execute the show logging command with the standby parameter specified and make sure that the recovery log message Health check error recovered. for this log data has been output. If this message has been output, no action is required.
- 2. If it has not been output, execute the show logging command, check the message regarding the failure that occurred in the active system, and then take action appropriate for the message.
- 3. If no failure has occurred in the active system, the board might not be fully inserted. If this message is displayed immediately after the board is replaced, check that it is properly inserted.
- 4. If the problem cannot be corrected after the above actions, replace both the active and standby MSUs.

49 E5 MSU 01300436 2314 Health check error detected on other system. This system (MSU2) is active.

An error occurred during a health check performed for the standby MSU1 from the active MSU2. The MSU2 system is the active system.

[Explanation of message variables]

None.

## [Action]

- 1. Execute the show logging command and make sure that the recovery log message Health check error recovered. for this log data has been output. If this message has been output, no action is required.
- If it has not been output, execute the show logging command with the standby parameter specified, check
  the message regarding the failure that occurred in the standby system, and then take action appropriate for the
  message.
- 3. If no failure has occurred in the standby system, the board might not be fully inserted. If this message is displayed immediately after the board is replaced, check that it is properly inserted.
- 4. If the problem cannot be corrected after the above actions, replace both the active and standby MSUs.

50 E5 MSU 01300437 2314 Health check error detected on other system. This system (MSU2) is standby.

An error occurred during a health check performed for the standby MSU2 from the active MSU1. The MSU2 system is the standby system.

[Explanation of message variables]

None.

## [Action]

- 1. Execute the show logging command with the standby parameter specified and make sure that the recovery log message Health check error recovered. for this log data has been output. If this message has been output, no action is required.
- 2. If it has not been output, execute the show logging command, check the message regarding the failure that occurred in the active system, and then take action appropriate for the message.
- 3. If no failure has occurred in the active system, the board might not be fully inserted. If this message is displayed immediately after the board is replaced, check that it is properly inserted.
- 4. If the problem cannot be corrected after the above actions, replace both the active and standby MSUs.

#	Event level	Event location	Message ID	Added info.	Message text			
				Highest 4 digits				
				Descri	ption			
51	E5	MSU	01300438	2314	Fatal error detected on other system. This system (MSU1) is active.			
	[Explanation None. [Action] After the star	of message va	riables] s restarted, execu	ite the show lo	ogging command with the standby parameter specified, riate for the error message.			
52	E5	MSU	01300439	2314	Fatal error detected on other system. This system (MSU1) is standby.			
	A fatal error occurred in the active MSU. The MSU1 system is the standby system.  [Explanation of message variables]  None.  [Action]  After the active system has restarted, execute the show logging command, check the failure explana take action appropriate for the error message.							
53	E5	MSU	01300440	2314	Fatal error detected on other system. This system (MSU2) is active.			
	[Explanation None. [Action] After the star	of message va	riables]	ite the show lo	ogging command with the standby parameter specified, iate for the error message.			
54	E5	MSU	01300441	2314	Fatal error detected on other system. This system (MSU2) is standby.			
	A fatal error occurred in the active MSU. The MSU2 system is the standby system.  [Explanation of message variables]  None.  [Action]  After the active system has restarted, execute the show logging command, check the failure explanation, and then take action appropriate for the error message.							
55	E5	MSU	25070913	2301	Health check error detected on active PSP. This system (MSU1) is active.			
	is the active [Explanation None. [Action] After the star	system.  of message va	riables]	te the show lo	active PSP from the standby MSU2. The MSU1 system egging command with the standby parameter specified, riate for the error message.			

#	Event	Event	Message	Added info.	Message text			
	level	location	ID	Highest 4 digits				
				Descri	ption			
56	E5	MSU	25070914	2301	Health check error detected on active PSP. This system (MSU2) is active.			
	is the active [Explanation None. [Action] After the star	system.  n of message va	riables]	te the show lo	active PSP from the standby MSU1. The MSU2 system ogging command with the standby parameter specified, riate for the error message.			
57	E5	MSU	25070919	2301	Health check error detected on NIF < nif no. >. This system (MSU1) is active.			
	active syster [Explanation <nif no.="">: N [Action] After the star</nif>	n. n of message va NF number ndby MSU2 has	riables]	te the show lo	NIF from the standby MSU2. The MSU1 system is the egging command with the standby parameter specified, iate for the error message.			
58	E5	MSU	25070920	2301	Health check error detected on NIF < nif no. >. This system (MSU2) is active.			
	active syster [Explanation <nif no.="">: N [Action] After the star</nif>	n. n of message va NF number ndby MSU1 has	riables]	te the show lo	NIF from the standby MSU1. The MSU2 system is the begging command with the standby parameter specified, riate for the error message.			
59	E7	MSU	00020102	2301	MSU hardware exceeded tolerance level of low temperature(2 degree). Check room temperature.			
	The hardware temperature dropped below the allowable temperature range (2 degrees Celsius or lower).  [Explanation of message variables]  None.  [Action]  1. Check and improve the environment such as the room temperature around the switches.  2. Check the fans. If a failure has occurred, replace the fan unit containing the faulty fan.							
60	E7	MSU	00020103	2301	MSU hardware exceeded tolerance level of high temperature (43 degree). Check that room temperature and the fan is operating normally.			
	[Explanation None. [Action] 1. Check at	n of message va	riables] environment suc	ch as ventilatio	rature range (43 degrees Celsius or higher).  n and heat sources around the switches. n unit containing the faulty fan.			

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text				
				Descri	ption				
61	E7	MSU	00020104	2301	MSU hardware is becoming high temperature (58 degree). immediately, and check that room temperature and the fan is operating normally.				
	[Explanation None. [Action] 1. A malfu and heat	n of message va nction might oc sources around	riables] ccur in the switch I the switches.	n. Immediately	check and improve the environment such as ventilation un unit containing the faulty fan.				
62	E8	MSU	01200178	2301	PSP not initialized because it is unknown MSU.				
	None. [Action] 1. The MS 2. The MS and then	<ol> <li>[Action]</li> <li>The MSU board is not fully inserted. Insert the MSU properly.</li> <li>The MSU board is not supported by the software version. Check the MSU board type and the software version, and then either replace the MSU board or update the software.</li> </ol>							
63	E8	MSU	01200179	2301	PSP not initialized because it is mismatch between active and standby MSU.				
	[Explanation None. [Action]	n of message va	riables]		of the active MSU and the standby MSU were different.  MSUs are the same.				
64	E8	MSU	25070200	2301	MSU restarted because PSP hardware failure detected during the self diagnosis.				
	A failure was detected during PSP self-diagnosis. The MSU will be restarted.  [Explanation of message variables]  None.  [Action]  If the log message PSP initialized appears after the restart, operations can resume.								
65	E8	MSU	25070202	2301	MSU restarted because of PSP hardware failure.				
	The MSU was restarted because a hardware failure occurred in the PSP.  [Explanation of message variables]  None.  [Action]  If the log message PSP initialized. appears after the restart, operations can resume.								

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text				
		ption							
66	E8	MSU	25070500	2301	PSP not initialized because it is unavailable configuration.				
	[Explanation None. [Action] Change the of Flow distance of the office of	n of message va configuration o stribution patter	the configuration riables]  f the following some for filtering and the maximum not seem to the configuration of th	o that they are	correct:				
67	E8	MSU	25070903	2301	Health check error detected on standby PSP. This system (MSU1) is standby.				
	An error occurred during a health check performed for the standby PSP from the active MSU2. The MSU1 system is the standby system.  [Explanation of message variables]  None.  [Action]  1. The board might not be fully inserted. If this message is displayed immediately after the board is replaced, check that it is properly inserted.  2. If the problem cannot be corrected after the above action, see the <i>Troubleshooting Guide</i> and take appropriate action.								
68	E8	MSU	25070904	2301	Health check error detected on standby PSP. This system (MSU2) is standby.				
	is the standb [Explanation None. [Action] 1. The boat that it is	y system.  n of message varied might not be properly insert	riables] fully inserted. If ed.	this message is	standby PSP from the active MSU1. The MSU2 system displayed immediately after the board is replaced, check on, see the <i>Troubleshooting Guide</i> and take appropriate				
69	E9	MSU	00020105	2301	MSU hardware is becoming high temperature which give damage to this system. (65 degree)				
	operation. [Explanation None. [Action] 1. Check a	[Explanation of message variables] None.							
70	Е9	MSU	01200173 01300474 2b061200	2314	System restarted because MSU hardware error detected.				
	The system [Explanation None. [Action] Replace the	letected.							

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text					
				Descri	ption					
71	E9	MSU	01200186	2301	MSU restarted because it is unknown MSU.					
	This message [Explanation None. [Action]	e is displayed v of message va		MSU board is u	nknown and the standby MSU board is normal.					
72	Е9	MSU	01300472	2314	This system (MSU1) inactivated because MSU hardware error detected.					
	[Explanation None. [Action]									
73	E9	MSU	01300473	2314	This system (MSU2) inactivated because MSU hardware error detected.					
	[Explanation None. [Action]	ystem was inac of message va standby MSU.		a hardware fai	lure was detected.					
74	E9	MSU	01c00100	2301	MSU restarted because of its HDC update failure.					
		of message va		f the HDC (Hai	rdware Dependent Code) failed.					
75	E9	MSU	25070905	2301	Health check error detected on active PSP. This system (MSU1) is standby.					
is the standby system.  [Explanation of message variables]  None.  [Action]  1. The board might not be fully inserted. If this messathat it is properly inserted.					active PSP from the standby MSU1. The MSU1 system displayed immediately after the board is replaced, check on, see the <i>Troubleshooting Guide</i> and take appropriate					

#	Event level	Event location	Message ID	Added info.	Message text	
				Highest 4 digits		
				Descri	ption	
76	Е9	MSU	25070906	2301	Health check error detected on active PSP. This system (MSU2) is standby.	
	is the standb [Explanation None. [Action]  1. The boar that it is	y system.  of message va  d might not be properly inserted	riables] fully inserted. If	this message is	active PSP from the standby MSU2. The MSU2 system displayed immediately after the board is replaced, check on, see the <i>Troubleshooting Guide</i> and take appropriate	
77	Е9	MSU	25070909	2301	Health check error detected on NIF < nif no. >. This system (MSU1) is standby.	
	An error occurred during a health check performed for the NIF from the standby MSU1. The MSU1 system standby system.  [Explanation of message variables] <nif no.="">: NIF number [Action]  1. The board might not be fully inserted. If this message is displayed immediately after the board is replace that it is properly inserted.  2. If the problem cannot be corrected after the above action, see the <i>Troubleshooting Guide</i> and take appraaction.</nif>					
78	E9	MSU	25070910	2301	Health check error detected on NIF < nif no. >. This system (MSU2) is standby.	
	standby system [Explanation standby system [Explanation standby system standby system system standby system system standby system system system standby system system system system standby system sys	em.  of message va  IIF number  of might not be  properly inserte	riables] fully inserted. If	this message is	NIF from the standby MSU2. The MSU2 system is the displayed immediately after the board is replaced, check on, see the <i>Troubleshooting Guide</i> and take appropriate	
79	R5	MSU	01200185	2301	Standby unknown MSU is notconnect.	
	The unknown standby MSU board was removed.  This message is displayed when the standby MSU was uninstalled after the log message Standby MSU is unknown MSU. was displayed.  [Explanation of message variables]  None.  [Action]  None.					
80	R5	MSU	01300430	2314	MSU force-switchover available. This system (MSU1) is active.	
	The system switching functionality has recovered. The MSU1 system is the active system.  [Explanation of message variables]  None.  [Action]  None.					

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text					
				Descri	ption					
81	R5	MSU	01300431	2314	MSU force-switchover available. This system (MSU1) is standby.					
		witching funct of message va		overed. The MS	U1 system is the standby system.					
82	R5	MSU	01300432	2314	MSU force-switchover available. This system (MSU2) is active.					
		[Action]								
83	R5	MSU	01300433	2314	MSU force-switchover available. This system (MSU2) is standby.					
		switching funct of message va		overed. The MS	U2 system is the standby system.					
84	R5	MSU	01300434	2314	Health check error recovered. This system (MSU1) is active.					
	Recovery from a health check error was successful. The MSU1 system is the active system.  [Explanation of message variables]  None.  [Action]  None.									
85	R5	MSU	01300435	2314	Health check error recovered. This system (MSU1) is standby.					
		Recovery from a health check error was successful. The MSU1 system is the standby system.  [Explanation of message variables]  None.  [Action]								
86	R5	MSU	01300436	2314	Health check error recovered. This system (MSU2) is active.					
	Recovery from a health check error was successful. The MSU2 system is the active system.  [Explanation of message variables]  None.  [Action]  None.									

#	Event level	Event location	Message ID	Added info.	Message text					
	digits									
				Descri	ption					
87	R5	MSU	01300437	2314	Health check error recovered. This system (MSU2) is standby.					
		om a health che n of message va		ecessful. The M	ISU2 system is the standby system.					
88	R5	MSU	01300438	2314	Other system recovered from fatal error. This system (MSU1) is active.					
		The standby MSU has recovered from a fatal error. The MSU1 system is the active system.  [Explanation of message variables]  None.  [Action]								
89	R5	MSU	01300439	2314	Other system recovered from fatal error. This system (MSU1) is standby.					
		MSU has recoven of message va		error. The MS	U1 system is the standby system.					
90	R5	MSU	01300440	2314	Other system recovered from fatal error. This system (MSU2) is active.					
		The standby MSU has recovered from a fatal error. The MSU2 system is the active system.  [Explanation of message variables]  None.  [Action]								
91	R5	MSU	01300441	2314	Other system recovered from fatal error. This system (MSU2) is standby.					
		The active MSU has recovered from a fatal error. The MSU2 system is the standby system.  [Explanation of message variables]  None.  [Action]								
92	R7	MSU	00020102	2301	The temperature of MSU hardware returned to normal level (5 degree).					
	The hardware temperature returned to normal (5 degrees Celsius).  [Explanation of message variables]  None.  [Action]  None.									

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text					
				Descri	ption					
93	R7	MSU	00020103	2301	The temperature of MSU hardware returned to normal level (40 degree).					
		re temperature in of message va	returned to norm riables]	al (40 degrees	Celsius).					
94	R7	MSU	00020104	2301	MSU hardware recovered to normal from high temperature(55 degree). However, be careful until it is becoming temperature of tolerance level.					
	However, ca [Explanation None. [Action] 1. Check an	<ul><li>[Action]</li><li>1. Check and improve the environment such as ventilation and heat sources around the switches.</li></ul>								
95	R8	MSU	01200179	2301	Standby MSU is notconnect.					
	The standby MSU is not installed.  This message is displayed when the standby MSU was uninstalled after either of the following log messages was displayed:  • PSP not initialized because it is mismatch between active and standby MSU.  • Standby MSU is mismatch.  [Explanation of message variables]  None.  [Action]  None.									
96	R8	MSU	01300461	2314	MSU initialized.					
		[Action]								
97	R8	MSU	25070002	2301	PSP initialized.					
The PSP has been initialized. [Explanation of message variables] None. [Action] None.										

# 3.11 AX6700S and AX6600S series network interface unit [AX6700S] [AX6600S]

## 3.11.1 Event location = NK1G-24T

The following table describes switch failure and event information when the event location is NK1G-24T.

Table 3-22: Switch failure and event information when the event location is NK1G-24T

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text				
				Descriptio	n				
1	E6	NK1G-24T	25020200	5540	NIF restarted because of its hardware failure.				
	[Explanation None. [Action] Check for sub	restarted because the of message variable osequent fault recovers successful, operations.	es] reries or fault rec	covery failure l	og entries. failed, replace the NIF.				
2	E6	NK1G-24T	25020201	5550	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 recovery failed, replace the NIF.									
3	E6	NK1G-24T	25020400	5540	NIF restarted, but not recovered from hardware failure.				
	self-diagnosis	s. of message variable		recovered from	n the hardware failure or a failure detected during				
4	E6	NK1G-24T	25020401	5550	Port restarted, but not recovered from hardware failure.				
	[Explanation None. [Action]								
5	R6	NK1G-24T	25020200	5540	NIF recovered from hardware failure.				
		covered from a hard of message variable							

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text			
				Descriptio	n			
6	R6	NK1G-24T	25020201	5550	Port recovered from hardware failure.			
	A port has recovered from a hardware failure.  [Explanation of message variables]  None.  [Action]  None.							

# 3.11.2 Event location = NK1G-24S

The following table describes switch failure and event information when the event location is NK1G-24S.

Table 3-23: Switch failure and event information when the event location is NK1G-24S

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text			
				Descriptio	n			
1	E6	NK1G-24S	25020200	5640	NIF restarted because of its hardware failure.			
	The NIF was restarted because the NIF hardware failed.  [Explanation of message variables]  None.  [Action]  Check for subsequent fault recoveries or fault recovery failure log entries.  If recovery was successful, operations can resume. If recovery failed, replace the NIF.							
2	E6	NK1G-24S	25020201	5650	Port restarted because of its hardware failure.			
	[Explanation None. [Action] Check subsection	estarted because a has of message variable quent fault recovery has recovered from	es] log entries or fa	ault recovery fa	•			
3	E6	NK1G-24S	25020400	5640	NIF restarted, but not recovered from hardware failure.			
	The NIF was restarted although the NIF had not recovered from the hardware failure or a failure detected during self-diagnosis.  [Explanation of message variables]  None.  [Action]  Replace the NIF.							

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text				
				Descriptio	n				
4	Е6	NK1G-24S	25020401	5650	Port restarted, but not recovered from hardware failure.				
	[Explanation None. [Action]								
5	R6	NK1G-24S	25020200	5640	NIF recovered from hardware failure.				
		[Action]							
6	R6	NK1G-24S	25020201	5650	Port recovered from hardware failure.				
		covered from a hard of message variable							

# 3.11.3 Event location = NK1GS-8M

The following table describes switch failure and event information when the event location is NK1GS-8M.

Table 3-24: Switch failure and event information when the event location is NK1GS-8M

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text
				Descriptio	n
1	E6	NK1GS-8M	25020200	5940	NIF restarted because of its hardware failure.
	[Explanation None. [Action] Check for sul	restarted because the of message variable because the	es] reries or fault rec	covery failure l	og entries. failed, replace the NIF.
2	E6	NK1GS-8M	25020400	5940	NIF restarted, but not recovered from hardware failure.
	self-diagnosis	s. of message variable		recovered from	n the hardware failure or a failure detected during

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text			
				Descriptio	n			
3	R6	NK1GS-8M	25020200	5940	NIF recovered from hardware failure.			
	A NIF has recovered from a hardware failure.  [Explanation of message variables]  None.  [Action]  None.							

# 3.11.4 Event location = NK10G-4RX

The following table describes switch failure and event information when the event location is NK10G-4RX.

Table 3-25: Switch failure and event information when the event location is NK10G-4RX

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text		
				Descriptio	n		
1	E6	NK10G-4RX	25020200	5340	NIF restarted because of its hardware failure.		
	The NIF was restarted because the NIF hardware failed.  [Explanation of message variables]  None.  [Action]  Check for subsequent fault recoveries or fault recovery failure log entries.  If recovery was successful, operations can resume. If recovery failed, replace the NIF.						
2	E6	NK10G-4RX	25020201	5350	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 recovery failed, replace the NIF.						
3	E6	NK10G-4RX	25020400	5340	NIF restarted, but not recovered from hardware failure.		
	The NIF was restarted although the NIF had not recovered from the hardware failure or a failure detected du self-diagnosis.  [Explanation of message variables]  None.  [Action]  Replace the NIF.						

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text		
				Descriptio	n		
4	E6	NK10G-4RX	25020401	5350	Port restarted, but not recovered from hardware failure.		
	A port was restarted, but it has not recovered from a hardware failure.  [Explanation of message variables]  None.  [Action]  Replace the NIF.						
5	R6	NK10G-4RX	25020200	5340	NIF recovered from hardware failure.		
	A NIF has recovered from a hardware failure. [Explanation of message variables] None. [Action] None.						
6	R6	NK10G-4RX	25020201	5350	Port recovered from hardware failure.		
		A port has recovered from a hardware failure.  [Explanation of message variables]  None.  [Action]					

# 3.11.5 Event location = NK10G-8RX

The following table describes switch failure and event information when the event location is NK10G-8RX.

Table 3-26: Switch failure and event information when the event location is NK10G-8RX

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text		
				Descriptio	n		
1	Е6	NK10G-8RX	25020200	5440	NIF restarted because of its hardware failure.		
	The NIF was restarted because the NIF hardware failed.  [Explanation of message variables]  None.  [Action]  Check for subsequent fault recoveries or fault recovery failure log entries.  If recovery was successful, operations can resume. If recovery failed, replace the NIF.						
2	Е6	NK10G-8RX	25020201	5450	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 recovery failed, replace the NIF.						

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text					
			1	Descriptio	n					
3	E6	NK10G-8RX	25020400	5440	NIF restarted, but not recovered from hardware failure.					
	self-diagnosi [Explanation None. [Action]									
4	E6	NK10G-8RX	25020401	5450	Port restarted, but not recovered from hardware failure.					
		[Action]								
5	R6	NK10G-8RX	25020200	5440	NIF recovered from hardware failure.					
	A NIF has recovered from a hardware failure. [Explanation of message variables] None. [Action] None.									
6	R6	NK10G-8RX	25020201	5450	Port recovered from hardware failure.					
		covered from a hard of message variable								

# 3.12 AX6300S series network interface unit [AX6300S]

# 3.12.1 Event location = NH1G-16S

The following table describes switch failure and event information when the event location is NH1G-16S.

Table 3-27: Switch failure and event information when the event location is NH1G-16S

#	Event level	Event location	Message ID	Added info.	Message text		
				Highest 4 digits			
				Descriptio	n		
1	E6	NH1G-16S	25020200	5140	NIF restarted because of its hardware failure.		
	[Explanation None. [Action] Check for sub-	restarted because the of message variable osequent fault recovers successful, operations.	es] eries or fault rec	covery failure l	og entries. failed, replace the NIF.		
2	Е6	NH1G-16S	25020201	5150	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 recovery failed, replace the NIF.						
3	E6	NH1G-16S	25020400	5140	NIF restarted, but not recovered from hardware failure.		
	The NIF was restarted although the NIF had not recovered from the hardware failure or a failure detected during self-diagnosis.  [Explanation of message variables]  None.  [Action]  Replace the NIF.						
4	E6	NH1G-16S	25020401	5150	Port restarted, but not recovered from hardware failure.		
	A port was restarted, but it has not recovered from a hardware failure.  [Explanation of message variables]  None.  [Action]  Replace the NIF.						
5	R6	NH1G-16S	25020200	5140	NIF recovered from hardware failure.		
	R6 NH1G-16S 25020200 5140 NIF recovered from hardware failure.  A NIF has recovered from a hardware failure.  [Explanation of message variables]  None.  [Action]  None.						

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text
				Descriptio	n
6	R6	NH1G-16S	25020201	5150	Port recovered from hardware failure.
	_	covered from a hard of message variable			

# 3.12.2 Event location = NH1G-24T

The following table describes switch failure and event information when the event location is NH1G-24T.

Table 3-28: Switch failure and event information when the event location is NH1G-24T

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text		
				Descriptio	n		
1	E6	NH1G-24T	25020200	5540	NIF restarted because of its hardware failure.		
	The NIF was restarted because the NIF hardware failed.  [Explanation of message variables]  None.  [Action]  Check for subsequent fault recoveries or fault recovery failure log entries.  If recovery was successful, operations can resume. If recovery failed, replace the NIF.						
2	E6	NH1G-24T	25020201	5550	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 recovery failed, replace the NIF.						
3	E6	NH1G-24T	25020400	5540	NIF restarted, but not recovered from hardware failure.		
The NIF was restarted although the NIF had not recovered from the hardware failure or a failure detected of self-diagnosis.  [Explanation of message variables]  None.  [Action]  Replace the NIF.					n the hardware failure or a failure detected during		

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text		
				Descriptio	n		
4	E6	NH1G-24T	25020401	5550	Port restarted, but not recovered from hardware failure.		
	A port was restarted, but it has not recovered from a hardware failure.  [Explanation of message variables]  None.  [Action]  Replace the NIF.						
5	R6	NH1G-24T	25020200	5540	NIF recovered from hardware failure.		
	A NIF has recovered from a hardware failure.  [Explanation of message variables]  None.  [Action]  None.						
6	R6	NH1G-24T	25020201	5550	Port recovered from hardware failure.		
		covered from a hard of message variable					

# 3.12.3 Event location = NH1G-24S

The following table describes switch failure and event information when the event location is NH1G-24S.

Table 3-29: Switch failure and event information when the event location is NH1G-24S

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text	
				Descriptio	n	
1	E6	NH1G-24S	25020200	5640	NIF restarted because of its hardware failure.	
	The NIF was restarted because the NIF hardware failed.  [Explanation of message variables]  None.  [Action]  Check for subsequent fault recoveries or fault recovery failure log entries.  If recovery was successful, operations can resume. If recovery failed, replace the NIF.					
2	E6	NH1G-24S	25020201	5650	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 recovery failed, replace the NIF.					

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text
				Descriptio	n
3	Е6	NH1G-24S	25020400	5640	NIF restarted, but not recovered from hardware failure.
	self-diagnosis	s. of message variable		recovered from	n the hardware failure or a failure detected during
4	E6	NH1G-24S	25020401	5650	Port restarted, but not recovered from hardware failure.
A port was restarted, but it has not recovered from a hardware failure.  [Explanation of message variables]  None.  [Action]  Replace the NIF.					îailure.
5	R6	NH1G-24S	25020200	5640	NIF recovered from hardware failure.
		covered from a hard of message variable			
6	R6	NH1G-24S	25020201	5650	Port recovered from hardware failure.
	A port has recovered from a hardware failure.  [Explanation of message variables]  None.  [Action]  None.				

### 3.12.4 Event location = NH1G-48T

The following table describes switch failure and event information when the event location is NH1G-48T.

Table 3-30: Switch failure and event information when the event location is NH1G-48T

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text	
	Description					
1	E6	NH1G-48T	25020200	5040	NIF restarted because of its hardware failure.	
	The NIF was restarted because the NIF hardware failed.  [Explanation of message variables]  None.  [Action]  Check for subsequent fault recoveries or fault recovery failure log entries.  If recovery was successful, operations can resume. If recovery failed, replace the NIF.					

#	Event level	Event location	Message ID	Added info.	Message text
			-	Highest 4 digits	
		l	1	Descriptio	n
2	E6	NH1G-48T	25020201	5050	Port restarted because of its hardware failure.
	[Explanation None. [Action] Check subsection	estarted because a hoof message variable quent fault recovery has recovered from	es] log entries or fa	nult recovery fa	
3	E6	NH1G-48T	25020400	5040	NIF restarted, but not recovered from hardware failure.
	self-diagnosis	s. of message variable		recovered from	n the hardware failure or a failure detected during
4	E6	NH1G-48T	25020401	5050	Port restarted, but not recovered from hardware failure.
	A port was restarted, but it has not recovered from a hardware failure.  [Explanation of message variables]  None.  [Action]  Replace the NIF.				failure.
5	R6	NH1G-48T	25020200	5040	NIF recovered from hardware failure.
	A NIF has recovered from a hardware failure. [Explanation of message variables] None. [Action] None.				
6	R6	NH1G-48T	25020201	5050	Port recovered from hardware failure.
6 R6 NH1G-48T 25020201 5050 Port recovered from hard  A port has recovered from a hardware failure.  [Explanation of message variables]  None.  [Action]  None.					

## 3.12.5 Event location = NH1GS-6M

The following table describes switch failure and event information when the event location is NH1GS-6M.

Table 3-31: Switch failure and event information when the event location is NH1GS-6M

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text
				Descriptio	n
1	E6	NH1GS-6M	25020200	5840	NIF restarted because of its hardware failure.
	The NIF was restarted because the NIF hardware failed.  [Explanation of message variables]  None.  [Action]  Check for subsequent fault recoveries or fault recovery failure log entries.  If recovery was successful, operations can resume. If recovery failed, replace the NIF.				
2	E6	NH1GS-6M	25020400	5840	NIF restarted, but not recovered from hardware failure.
	The NIF was restarted although the NIF had not recovered from the hardware failure or a failure detected during self-diagnosis.  [Explanation of message variables]  None.  [Action]  Replace the NIF.				n the hardware failure or a failure detected during
3	R6	NH1GS-6M	25020200	5840	NIF recovered from hardware failure.
		covered from a hard of message variable			

### 3.12.6 Event location = NH10G-1RX

The following tables describe switch failure and event information when the event location is NH10G-1RX.

Table 3-32: Switch failure and event information when the event location is NH10G-1RX

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text	
	Description					
1	E6	NH10G-1RX	25020200	5240	NIF restarted because of its hardware failure.	
	The NIF was restarted because the NIF hardware failed.  [Explanation of message variables]  None.  [Action]  Check for subsequent fault recoveries or fault recovery failure log entries.  If recovery was successful, operations can resume. If recovery failed, replace the NIF.					

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text
				Descriptio	n
2	E6	NH10G-1RX	25020201	5250	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 recovery failed, replace the NIF.				
3	E6	NH10G-1RX	25020400	5240	NIF restarted, but not recovered from hardware failure.
	The NIF was restarted although the NIF had not recovered from the hardware failure or a failure detected durself-diagnosis.  [Explanation of message variables]  None.  [Action]  Replace the NIF.				n the hardware failure or a failure detected during
4	Е6	NH10G-1RX	25020401	5250	Port restarted, but not recovered from hardware failure.
	A port was restarted, but it has not recovered from a hardware failure.  [Explanation of message variables]  None.  [Action]  Replace the NIF.				failure.
5	R6	NH10G-1RX	25020200	5240	NIF recovered from hardware failure.
	A NIF has recovered from a hardware failure. [Explanation of message variables] None. [Action] None.				
6	R6	NH10G-1RX	25020201	5250	Port recovered from hardware failure.
		covered from a hard of message variable			

## 3.12.7 Event location = NH10G-4RX

The following table describes switch failure and event information when the event location is NH10G-4RX.

Table 3-33: Switch failure and event information when the event location is NH10G-4RX

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text	
				Description	on	
1	E6	NH10G-4RX	25020200	5340	NIF restarted because of its hardware failure.	
	The NIF was restarted because the NIF hardware failed.  [Explanation of message variables]  None.  [Action]  Check for subsequent fault recoveries or fault recovery failure log entries.  If recovery was successful, operations can resume. If recovery failed, replace the NIF.					
2	E6	NH10G-4RX	25020201	5350	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 recovery failed, replace the NIF.					
3	Е6	NH10G-4RX	25020400	5340	NIF restarted, but not recovered from hardware failure.	
	The NIF was restarted although the NIF had not recovered from the hardware failure or a failure detected during self-diagnosis.  [Explanation of message variables]  None.  [Action]  Replace the NIF.					
4	E6	NH10G-4RX	25020401	5350	Port restarted, but not recovered from hardware failure.	
	A port was restarted, but it has not recovered from a hardware failure.  [Explanation of message variables]  None.  [Action]  Replace the NIF.				failure.	
5	R6	NH10G-4RX	25020200	5340	NIF recovered from hardware failure.	
	A NIF has recovered from a hardware failure.  [Explanation of message variables]  None.  [Action]  None.				,	
6	R6	NH10G-4RX	25020201	5350	Port recovered from hardware failure.	
	R6 NH10G-4RX 25020201 5350 Port recovered from hardware failure.  A port has recovered from a hardware failure.  [Explanation of message variables]  None.  [Action]  None.					

### 3.12.8 Event location = NH10G-8RX

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

NH10G-8RX.

Table 3-34: Switch failure and event information when the event location is NH10G-8RX

#	Event level	Event location	Message ID	Added info. Highest 4 digits	Message text	
				Descriptio	n	
1	E6	NH10G-8RX	25020200	5440	NIF restarted because of its hardware failure.	
	The NIF was restarted because the NIF hardware failed.  [Explanation of message variables]  None.  [Action]  Check for subsequent fault recoveries or fault recovery failure log entries.  If recovery was successful, operations can resume. If recovery failed, replace the NIF.					
2	E6	NH10G-8RX	25020201	5450	Port restarted because of its hardware failure.	
	[Explanation None. [Action] Check subsection	estarted because a has of message variable quent fault recovery has recovered from	es] log entries or fa	ault recovery fa	•	
3	Е6	NH10G-8RX	25020400	5440	NIF restarted, but not recovered from hardware failure.	
	The NIF was restarted although the NIF had not recovered from the hardware failure or a failure detected during self-diagnosis.  [Explanation of message variables]  None.  [Action]  Replace the NIF.				n the hardware failure or a failure detected during	
4	E6	NH10G-8RX	25020401	5450	Port restarted, but not recovered from hardware failure.	
		estarted, but it has no of message variable		m a hardware f	failure.	
5	R6	NH10G-8RX	25020200	5440	NIF recovered from hardware failure.	
	A NIF has recovered from a hardware failure.  [Explanation of message variables]  None.  [Action]  None.					
6	R6	NH10G-8RX	25020201	5450	Port recovered from hardware failure.	
	R6 NH10G-8RX 25020201 5450 Port recovered from hardware failure.  A port has recovered from a hardware failure.  [Explanation of message variables]  None.  [Action]  None.					

## Chapter

# 4. Access List Logs

This chapter describes the log data output by access list logging. When access list logging is in operation, information regarding packets discarded by the filter is output.

4.1 Access list log

## 4.1 Access list log

The following table describes the access list log.

Table 4-1: Access list log

#	Message text	Description
1	ACL:denied: <denied filter="" point="">:<pre>creceived interface&gt;) -&gt; <destination address="" ip="">(<destination port="">, <send interface="">), <pre>packets&gt;</pre></send></destination></destination></pre></denied>	A flow discarded by the filter was detected by access list logging.  [Explanation of message variables] <denied filter="" point="">: Point where the flow was discarded by the filter (receiving side or sending side)  • IN: Discarded by the receiving-side filter  • OUT: Discarded by the sending-side filter  <pre> <pre< td=""></pre<></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></denied>
2	ACL:denied: <denied filter="" point="">:<next header=""> <source address="" ip=""/>(<source port=""/>, <received interface="">) -&gt; <destination address="" ip="">(<destination port="">, <send interface="">), <packets>    Send interface   Send inte</packets></send></destination></destination></received></next></denied>	A flow discarded by the filter was detected by access list logging.  [Explanation of message variables] <denied filter="" point="">: Point where the flow was discarded by the filter (receiving side or sending side)  • IN: Discarded by the receiving-side filter  • OUT: Discarded by the sending-side filter  <next header="">: Next header number  <source address="" ip=""/>: Source IPv6 address  <source port=""/>: Source port number  <received interface="">: Receiving interface  • VLAN <vlan id="">: VLAN ID  • Ethernet <nif no.="">/<port no.="">: Ethernet interface  <destination address="" ip="">: Destination IPv6 address  <destination port="">: Destination port number  <send interface="">: Sending interface  • VLAN <vlan id="">: VLAN ID  • Ethernet <nif no.="">/<port no.="">: Ethernet interface  <port no.="" port="">: Ethernet interface  <port no.="" port="">: Ethernet interface  <port packets="">: Number of relevant packets  • <packets> packet: The number of displayed packets is 1 or less.  • <packets> packets: The number of displayed packets is 2 or more.  [Action]  None.</packets></packets></port></port></port></port></nif></vlan></send></destination></destination></port></nif></vlan></received></next></denied>

#	Message text	Description
3	ACL:denied: <denied filter="" point="">:<source mac=""/>(<received interface="">) -&gt; <destination mac="">(<ethernet type=""> <send interface="">), <pac>packets&gt;</pac></send></ethernet></destination></received></denied>	A flow discarded by the filter was detected by access list logging.  [Explanation of message variables] <denied filter="" point="">: Point where the flow was discarded by the filter (receiving side or sending side)  • IN: Discarded by the receiving-side filter  • OUT: Discarded by the sending-side filter  <source mac=""/>: Source MAC address  <received interface="">: Receiving interface  • VLAN &lt;\lanlel{vlan id}&gt;: VLAN ID  • Ethernet &lt;\nif no. &gt;/&lt;\port no.&gt;: Ethernet interface  <destination mac="">: Destination MAC address  <ethernet type="">: Ethernet type  <send interface="">: Sending interface  • VLAN &lt;\lanlel{vlan id}&gt;: VLAN ID  • Ethernet &lt;\nif no. &gt;/&lt;\port no.&gt;: Ethernet interface  vLAN &lt;\lanlel{vlan id}&gt;: VLAN ID  • Ethernet &lt;\nif no. &gt;/&lt;\port no.&gt;: Ethernet interface  \packets&gt;: Number of relevant packets  • &lt;\packets&gt;: Number of relevant packets  • &lt;\packets&gt; packets: The number of displayed packets is 1 or less.  • &lt;\packets&gt; packets: The number of displayed packets is 2 or more.  [Action]  None.</send></ethernet></destination></received></denied>

## Chapter

# 5. Tracking Object Log

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

5.1 Tracking object log

## 5.1 Tracking object log

The following table describes the tracking object log.

Table 5-1: Tracking object log

#	Message text	Description
1	1 Track object < track object id> is up.	Event (local device)
	(type ICMP, address < destination address> [VRF < vrf 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  <vrfid>: VRF ID  [Action]  None.</vrfid></destination>
2	Track object <track id="" object=""/> is down. (type ICMP, address < destination address> [VRF <vrf id="">])</vrf>	Event (local device)  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>

## Chapter

# 6. System Operation Panel Operation Log Information

This chapter describes the operation log information for the system log panel. Information about the operation instructions issued from the operation panel and the operation results are saved as operation log information for the system operation panel.

- 6.1 Operation log information for the system operation panel (KEY) [AX6700S]
- 6.2 Operation log information for the system operation panel (KEY) [AX6600S] [AX6300S]
- 6.3 Operation log information for the system operation panel (RSP) [AX6700S]
- 6.4 Operation log information for the system operation panel (RSP) [AX6600S] [AX6300S]

# 6.1 Operation log information for the system operation panel (KEY) [AX6700S]

This section describes the operation log information for the system operation panel when the log type is KEY.

*Table 6-1:* Operation log messages for the system operation panel (log type: KEY) [AX6700S]

#	Message text	Description
1	SOP:Inactivate operation canceled.	Information (local device)
		No is selected for the inactivate instruction (this message is displayed only for the active system).  [Explanation of message variables]  None.  [Action]  None.
2	SOP:Inactivate operation confirmed.	Information (local device)
		YES is selected for the inactivate instruction (this message is displayed only for the active system).  [Explanation of message variables]  None.  [Action]  None.
3	SOP:Inactivate operation of <box> selected.</box>	Information (local device)
		The inactivate instruction for <board> is selected (this message is displayed only for the active system).  [Explanation of message variables] <board>: Board type  • Standby system: Standby system  • BSU <board>: BSU number  • NIF <nif no.="">: NIF number  [Action]  None.</nif></board></board></board>
4	SOP:Activate operation canceled.	Information (local device)
		No is selected for the activate instruction (this message is displayed only for the active system).  [Explanation of message variables]  None.  [Action]  None.
5	SOP:Activate operation confirmed.	Information (local device)
		YES is selected for the activate instruction (this message is displayed only for the active system).  [Explanation of message variables]  None.  [Action]  None.
6	SOP:Activate operation of <box> selected.</box>	Information (local device)

#	Message text	Description
		The activate instruction for message is displayed only for the active system). [Explanation of message variables]  board>: Board type • Standby system: Standby system • BSU bsu no.>: BSU number • NIF <nif no.="">: NIF number  [Action]  None.</nif>
7	SOP:Shutdown operation canceled.	Information (local device)
		No is selected for the shutdown instruction.  [Explanation of message variables]  None.  [Action]  None.
8	SOP:Shutdown operation confirmed.	Information (local device)
		Yes is selected for the shutdown instruction. [Explanation of message variables] None. [Action] None.

# 6.2 Operation log information for the system operation panel (KEY) [AX6600S] [AX6300S]

This section describes the operation log information for the system operation panel when the log type is KEY.

*Table 6-2:* Operation log messages for the system operation panel (log type: KEY) [AX6600S] [AS6300S]

#	Message text	Description
1	SOP:Inactivate operation canceled.	Information (local device)
		No is selected for the inactivate instruction (this message is displayed only for the active system).  [Explanation of message variables]  None.  [Action]  None.
2	SOP:Inactivate operation confirmed.	Information (local device)
		YES is selected for the inactivate instruction (this message is displayed only for the active system).  [Explanation of message variables]  None.  [Action]  None.
3	SOP:Inactivate operation of <box> selected.</box>	Information (local device)
		The inactivate instruction for <box></box> board> is selected (this message is displayed only for the active system).  [Explanation of message variables]
4	SOP:Activate operation canceled.	Information (local device)
		No is selected for the activate instruction (this message is displayed only for the active system).  [Explanation of message variables]  None.  [Action]  None.
5	SOP:Activate operation confirmed.	Information (local device)
		YES is selected for the activate instruction (this message is displayed only for the active system).  [Explanation of message variables]  None.  [Action]  None.
6	SOP:Activate operation of <box> selected.</box>	Information (local device)

#	Message text	Description
		The activate instruction for board> is selected (this message is displayed only for the active system). [Explanation of message variables] board>: Board type
7	SOP:Shutdown operation canceled.	Information (local device)
		No is selected for the shutdown instruction. [Explanation of message variables] None. [Action] None.
8	SOP:Shutdown operation confirmed.	Information (local device)
		Yes is selected for the shutdown instruction. [Explanation of message variables] None. [Action] None.

# 6.3 Operation log information for the system operation panel (RSP) [AX6700S]

This section describes the operation log information for the system operation panel when the log type is RSP.

*Table 6-3:* Operation log messages for the system operation panel (log type: RSP) [AX6700S]

#	Message text	Description
1	SOP: sourd> will be stopped because of shutdown operation.	Information (local device)
		The <box board=""> will be stopped because of the shutdown instruction.  [Explanation of message variables] <box board="">: Board type  • Active system: Active system  • Standby system: Standby system  • All system: Active and standby systems  [Action]  None.</box></box>
2	SOP:Canceled inactivate operation because activated board not found.	Information (local device)
		The inactivate operation was not performed because the activated board was not found (this message is displayed only for the active system).  [Explanation of message variables]  None.  [Action]  None.
3	SOP:Canceled activate operation because inactivated board not found.	Information (local device)
		The activate operation was not performed because the inactivated board was not found (this message is displayed only for the active system).  [Explanation of message variables]  None.  [Action]  None.
4	SOP:Can't accept command (system is busy).	Error response for the inactivate or activate command for the board.
		The inactivate or activate operation cannot be accepted because the system is busy.  [Explanation of message variables]  None.  [Action]  None.
5	SOP:Can't display Line status because all NIF Not Active.	Information (local device)

#	Message text	Description
		The line status was not displayed because all NIFs were not active (this message is displayed only for the active system).  [Explanation of message variables]  None.  [Action]  None.
6	SOP:Can't execute.	Error response for the inactivate or activate command for the board.
		The inactivate or activate command for the board cannot be executed.  [Explanation of message variables]  None.  [Action]  None.
7	SOP:Can't execute this command in standby system.	Error response for the inactivate or activate command for the board.
		The inactivate or activate command for the board cannot be executed in the standby system. [Explanation of message variables] None. [Action] None.
8	SOP:Illegal NIF < nif no. >.	Error response for the inactivate or activate command for the NIF.
		The NIF number is outside the valid range.  [Explanation of message variables] <nif no.="">: NIF number  [Action]  None.</nif>
9	SOP:Illegal BSU <bsu no.="">.</bsu>	Error response for the inactivate or activate command for the BSU.
		The BSU number is outside the valid range.  [Explanation of message variables]

#	Message text	Description
		The specified NIF is being initialized. [Explanation of message variables] <nif no.="">: NIF number [Action] None.</nif>
13	SOP:NIF < nif no. > is not connected.	Error response for the inactivate or activate command for the NIF.
		The specified NIF is not installed. [Explanation of message variables] <nif no.="">: NIF number [Action] None.</nif>
14	SOP:NIF < <i>nif no.</i> > is during the inactivate process.	Error response for the activate command for the NIF.
		The specified NIF is being inactivated. [Explanation of message variables] <nif no.="">: NIF number [Action] None.</nif>
15	SOP:NIF < nif no. > is failed.	Error response for the inactivate or activate command for the NIF.
		The specified NIF is not in the active state.  [Explanation of message variables] <nif no.="">: NIF number  [Action]  None.</nif>
16	SOP:NIF < nif no. > is disabled.	Error response for the inactivate or activate command for the NIF.
		The specified NIF is disabled by the shutdown configuration command.  [Explanation of message variables] <nif no.="">: NIF number  [Action]  None.</nif>
17	SOP:BSU < bsu no. > is already active.	Error response for the activate command for the BSU.
		The specified BSU is in the active state. [Explanation of message variables]  bsu no.>: BSU number [Action] None.
18	SOP:BSU < bsu no. > is already inactivated.	Error response for the inactivate command for the BSU.
		The specified BSU is in the inactive state.  [Explanation of message variables]                                                                                                                                                                                                                                                                                                                                       <br< td=""></br<>
19	SOP:BSU < bsu no. > is already initializing.	Error response for the activate command for the BSU.

#	Message text	Description
		The specified BSU is already being initialized. [Explanation of message variables]  bsu no.>: BSU number [Action] None.
20	SOP:BSU < bsu no. > is not connected.	Error response for the inactivate or activate command for the BSU.
		The specified BSU is not installed.  [Explanation of message variables] <a href="mailto:sbu no."></a> : BSU number  [Action]  None.
21	SOP:BSU < bsu no. > is failed.	Error response for the activate command for the BSU.
		The specified BSU is not in the active state.  [Explanation of message variables] <a href="mailto:ssage-variables"></a>
22	SOP:BSU < bsu no. > is disabled.	Error response for the inactivate or activate command for the BSU.
		The specified BSU is disabled by the shutdown configuration command.  [Explanation of message variables] <a href="mailto:sbu no."></a> : BSU number  [Action]  None.
23	SOP:BSU < bsu no. > that controls NIF < nif no. > is inactivated.	Error response for the inactivate or activate command for the NIF.
		The BSU that controls the specified NIF is in the inactive state.  [Explanation of message variables] <a href="https://docs.ex/bsu.no.">bsu.no.</a> : BSU number <a href="https://docs.ex/bsu.no.">asu.no.</a> : NIF number  [Action]  None.
24	SOP:BSU < bsu no. > that controls NIF < nif no. > is not connected.	Error response for the inactivate or activate command for the NIF.
		The BSU that controls the specified NIF is not installed.  [Explanation of message variables] <a href="mailto:sbu no."></a> : BSU number <a href="mailto:sbu no."></a> : NIF number  [Action]  None.
25	SOP:BSU < bsu no. > that controls NIF < nif no. > is failed.	Error response for the inactivate or activate command for the NIF.
		The BSU that controls the specified NIF is not in the active state.  [Explanation of message variables] <a href="mailto:sbu no.">sbu no.</a> : BSU number <a href="mailto:shu no.">shu number</a> [Action]  None.

#	Message text	Description
26	SOP:BSU < bsu no. > that controls NIF < nif no. > is initializing.	Error response for the inactivate or activate command for the NIF.
		The BSU that controls the specified NIF is being initialized.  [Explanation of message variables] <a href="mailto:bsu no.">bsu no.</a> : BSU number <a href="mailto:nif no.">nif no.</a> : NIF number  [Action]  None.
27	SOP:BSU < bsu no. > that controls NIF < nif no. > is disabled.	Error response for the inactivate or activate command for the NIF.
		The BSU that controls the specified NIF is disabled by the shutdown configuration command.  [Explanation of message variables] <a href="https://docs.press.org/">bsu no.&gt;: BSU number</a> <a href="https://docs.press.org/">arif no.&gt;: NIF number</a> [Action] None.
28	SOP:Rejected operation because of Standby.	Information (local device)
		The operation was not performed because the system was the standby system (this message is displayed only for the standby system).  [Explanation of message variables]  None.  [Action]  None.
29	SOP:Return to Main Menu because can't get the information.	Warning (local device)
		The display returns to the Main Menu because no information can be obtained.  [Explanation of message variables]  None.  [Action]  None.
30	SOP:Shutdown operation failed.	Warning (local device)
		The shutdown instruction has failed. [Explanation of message variables] None. [Action] None.
31	SOP:Standby system is already inactivated.	Error response for the inactivate command for the standby system.
		The standby system has already been inactivated. [Explanation of message variables] None. [Action] None.
32	SOP:Standby system is not connected.	Error response for the inactivate or activate command for the standby system.

#	Message text	Description
		The standby system is not installed. [Explanation of message variables] None. [Action] None.
33	SOP:Standby system is not inactivated.	Error response for the activate command for the standby system.
		The standby system is not inactivated. [Explanation of message variables] None. [Action] None.

# 6.4 Operation log information for the system operation panel (RSP) [AX6600S] [AX6300S]

This section describes the operation log information for the system operation panel when the log type is RSP.

*Table 6-4:* Operation log messages for the system operation panel (log type: RSP) [AX6600S] [AS6300S]

#	Message text	Description
1	SOP: sourd> will be stopped because of shutdown operation.	Information (local device)
		The <box board=""> will be stopped because of the shutdown instruction.  [Explanation of message variables] <box board="">: Board type  • Active system: Active system  • Standby system: Standby system  • All system: Active and standby systems  [Action]  None.</box></box>
2	SOP:Canceled inactivate operation because activated board not found.	Information (local device)
		The inactivate operation was not performed because the activated board was not found (this message is displayed only for the active system).  [Explanation of message variables]  None.  [Action]  None.
3	SOP:Canceled activate operation because inactivated board not found.	Information (local device)
		The activate operation was not performed because the inactivated board was not found (this message is displayed only for the active system).  [Explanation of message variables]  None.  [Action]  None.
4	SOP:Can't accept command (system is busy).	Error response for the inactivate or activate command for the board.
		The inactivate or activate operation cannot be accepted because the system is busy.  [Explanation of message variables]  None.  [Action]  None.
5	SOP:Can't display Line status because all NIF Not Active.	Information (local device)

#	Message text	Description
		The line status was not displayed because all NIFs were not active (this message is displayed only for the active system).  [Explanation of message variables]  None.  [Action]  None.
6	SOP:Can't execute.	Error response for the inactivate or activate command for the board.
		The inactivate or activate command for the board cannot be executed.  [Explanation of message variables]  None.  [Action]  None.
7	SOP:Can't execute this command in standby system.	Error response for the inactivate or activate command for the board.
		The inactivate or activate command for the board cannot be executed in the standby system.  [Explanation of message variables]  None.  [Action]  None.
8	SOP:Illegal NIF < nif no. >.	Error response for the inactivate or activate command for the NIF.
		The NIF number is outside the valid range.  [Explanation of message variables] <nif no.="">: NIF number  [Action]  None.</nif>
9	SOP:NIF < nif no. > is already active.	Error response for the activate command for the NIF.
		The specified NIF is in the active state.  [Explanation of message variables]  < nif no.>: NIF number  [Action]  None.
10	SOP:NIF < nif no. > is already inactivated.	Error response for the inactivate command for the NIF.
		The specified NIF is in the inactive state.  [Explanation of message variables] <nif no.="">: NIF number  [Action]  None.</nif>
11	SOP:NIF < nif no. > is already initializing.	Error response for the activate command for the NIF.
		The specified NIF is being initialized.  [Explanation of message variables] <nif no.="">: NIF number  [Action]  None.</nif>
12	SOP:NIF < nif no. > is not connected.	Error response for the inactivate or activate command for the NIF.

#	Message text	Description
		The specified NIF is not installed.  [Explanation of message variables] <nif no.="">: NIF number  [Action]  None.</nif>
13	SOP:NIF < nif no. > is during the inactivate process.	Error response for the activate command for the NIF.
		The specified NIF is being inactivated.  [Explanation of message variables] <nif no.="">: NIF number  [Action]  None.</nif>
14	SOP:NIF < nif no. > is failed.	Error response for the inactivate or activate command for the NIF.
		The specified NIF is not in the active state.  [Explanation of message variables] <nif no.="">: NIF number  [Action]  None.</nif>
15	SOP:NIF $< nif no. >$ is disabled.	Error response for the inactivate or activate command for the NIF.
		The specified NIF is disabled by the shutdown configuration command.  [Explanation of message variables] <nif no.="">: NIF number  [Action]  None.</nif>
16	SOP:Rejected operation because of Standby.	Information (local device)
		The operation was not performed because the system was the standby system (this message is displayed only for the standby system).  [Explanation of message variables]  None.  [Action]  None.
17	SOP:Return to Main Menu because can't get the information.	Warning (local device)
		The display returns to the Main Menu because no information can be obtained.  [Explanation of message variables]  None.  [Action]  None.
18	SOP:Shutdown operation failed.	Warning (local device)
		The shutdown instruction has failed. [Explanation of message variables] None. [Action] None.

#	Message text	Description	
19	SOP:Standby system is already inactivated.	Error response for the inactivate command for the standby system.	
		The standby system has already been inactivated. [Explanation of message variables] None. [Action] None.	
20	SOP:Standby system is not connected.	Error response for the inactivate or activate command for the standby system.	
		The standby system is not installed. [Explanation of message variables] None. [Action] None.	
21	SOP:Standby system is not inactivated.	Error response for the activate command for the standby system.	
		The standby system is not inactivated. [Explanation of message variables] None. [Action] None.	

# Index

A	IPv4 routing protocol information (RTM) 14
ACCESS 98	IPv6 multicast routing information (MR6) 86
access 98	IPv6 PIM-SM 86
access list logs 281	IPv6 routing information (RTM) 76
acquiring logs from remote hosts 12	IPv6 routing protocol information (RTM) 47
automatically saving and viewing logs 11	
AX6300S series network interface unit 272	L
AX6700S and AX6600S series network interface unit 266	log contents 5
	log type 5,6
В	
	M
posic control unit 207	MAC 135
pasic switching unit 224 BCU 207	
BGP4 23	management switching unit 247 message identifier and additional information 11
BGP4+ 53	
BSU 182	message types 2 message types and references 2
BSU-LA 224	messages output as routing protocol event information 3
BSU-LB 224	MSU 247
DSU-LD 224	MISO 247
С	N
checking logs 5	NH10G-1RX 277
checking operation messages 2	NH10G-4RX 278
code information for logs 8	NH10G-8RX 279
CONFIG 94	NH1G-16S 272
configuration 94	NH1G-24S 274
contents of operation messages 2	NH1G-24T 273
control and switching unit 226	NH1G-48T 275
CSU 226	NH1GS-6M 276
220	NIF 188
E	NK10G-4RX 269
	NK10G-8RX 270
event information common to IPv4 unicast routing protocol	NK1G-24S 267
(RTM) 45	NK1G-24T 266
event information common to IPv6 unicast routing protocols	NK1GS-8M 268
(RTM) 74	number of occurrences of the applicable event 11
event interface ID 11 event level 9	**
event locations 10	0
event locations 10	operation log information for system operation panel (KEY)
F	[AX6600S] [AX6300S] 290
FAN 202	operation log information for system operation panel (KEY)
features of operation log and reference log 5	[AX6700S] 288
first and last time of occurrences of the applicable event 11	operation log information for system operation panel (RSP)
format of operation logs 6	[AX6600S] [AX6300S] 298
format of operation messages 3	operation log information for system operation panel (RSP)
format of reference log 8	[AX6700S] 292
	operation messages and logs 1
ı	optional modules 202
ID 100	OSPF 18
IP 106	OSPFv3 49
IPv4 multicast routing information (MRP) 79	outputting operation messages 3

### Ρ

PIM-SM/PIM-DM 79 PORT 194 port 194 protocol 106 PS 204

### R

RA 76 RIP 14 RIPng 47 routing event information 13

### S

saving logs automatically 11
sending logs by using the email functionality 12
SOFTWARE 141
SOFTWARE (authentication VLAN) 180
switch failure and event information 93
switch parts 141
system operation panel operation log information 287

### Т

tracking object log 285

### ۷

viewing logs and method for creating files 12 VLAN 109 VLAN (CFM) 134 VLAN (GSRP) 128 VLAN (L2 loop detection) 132 VLAN (Ring Protocol) 126